



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 08/10/2016

API

Field	Phantom Wolfcamp	Supervisor	Gary Simpson	Report No.	1
Location		Supervisor 2		DFS	
County	Ward	Rig Phone		Spud Date	
Rig Name	Star	Rig Email		AFE	
KB		Daily Footage	298	Daily Cost	\$7,159.93
Depth (MD)	298	TVD at Bit	298	Cum. Cost	\$7,159.93
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test

Mud Properties

Type	
Weight	
FV	
PV	
YP	
LCM (ppb)	
Chlorides	
% Solids	
Daily Losses	
Total Losses	

Last Survey

Depth	Inc	Azi

BHA

Component	Length	ID	OD
Total Length:			

Bit Info

[illegible]


Activity Summary (6:00am - 6:00am)


From	To	Hours	P / U	Summary
06:00	08:00	2.00	UnPlanned	Mix LCM, pump pill, Drill to 110 feet
08:00	08:30	0.50	UnPlanned	POOH to surface
08:30	09:30	1.00	UnPlanned	Wait on Cement truck
09:30	10:00	0.50	UnPlanned	Cement hole to 80 feet
10:00	14:30	4.50	UnPlanned	Wait on Cement
14:30	15:30	1.00	UnPlanned	TIH and tag cement at 85 feet
15:30	16:00	0.50	UnPlanned	Drill cement to 95 ft.
16:00	17:00	1.00	UnPlanned	Wait on cement to set. POOH to 35 ft.
17:00	17:30	0.50	UnPlanned	TIH to 95 ft
17:30	18:00	0.50	Planned	Safety Meeting
18:00	19:00	1.00	UnPlanned	TIH. Pick up Reamer
19:00	05:30	10.50	Drilling	Drill from 95 to 298 feet
05:30	06:00	0.50	Planned	Safety Meeting
Total Hours:		24		

24 Hour Activity Summary:

24 Hour Plan Forward:

Safety			Fuel		
Last BOP Test	Last BOP Drill	Last Function Test	Diesel Used	Diesel Recvd	Diesel on Loc

<div></div> <div>Daily Cost Report</div>		Well Name: <u>RK-UTL 3031B-17-1H</u>		
		Report Date: <u>08/10/2016</u>		
		Daily Cost <u>\$7,160</u>		
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			
830.020	Staking & Surveying			
830.030	Road, Locations			
830.035	Mobilization/Demobilization			
830.040	Daywork Contract			
830.050	Mouse/Rathole/Conduct Pipe			
830.055	Directional Drilling & Survey			
830.060	Bits, Tools, Stabalizers			
830.065	Fuel, Power			
830.070	Equipment Rental		\$500	\$500
830.071	Hot Shot Trucking			
830.075	Mud & Chemicals	lcm	\$3,658	\$3,658
830.080	Mud Logging			
830.090	Core Analysis			
830.095	Openhole Logging			
830.100	Cement Services			
830.110	Casing Crew & Equipment	Shoe and centralizers	\$2,002	\$2,002
830.120	Contract Labor			
830.160	Fishing Services			
830.165	Drill Water	Water for pits and cement water to frac tank	\$1,000	\$1,000
830.175	Supervision			
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$7,160	\$7,160
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				
Total Costs			\$7,160	\$7,160
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Daily Cost Report

Well Name: RK-UTL 3031B-17-1H

Report Date: 08/11/2016

Daily Cost

Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			
830.020	Staking & Surveying			
830.030	Road, Locations			
830.035	Mobilization/Demobilization			
830.040	Daywork Contract			
830.050	Mouse/Rathole/Conduct Pipe			
830.055	Directional Drilling & Survey			
830.060	Bits, Tools, Stabalizers			
830.065	Fuel, Power			
830.070	Equipment Rental			\$500
830.071	Hot Shot Trucking			
830.075	Mud & Chemicals			\$3,658
830.080	Mud Logging			
830.090	Core Analysis			
830.095	Openhole Logging			
830.100	Cement Services			
830.110	Casing Crew & Equipment			\$2,002
830.120	Contract Labor			
830.160	Fishing Services			
830.165	Drill Water			\$1,000
830.175	Supervision			
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			
840.100	Cement Services (4-1/2" Liner)			
Total Intangible				\$7,160

Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				
Total Costs				\$7,160

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Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 08/12/2016**API**

Field	Phantom Wolfcamp	Supervisor	Gary Simpson	Report No.	3
Location		Supervisor 2		DFS	
County	Ward	Rig Phone		Spud Date	
Rig Name	Star	Rig Email		AFE	
KB		Daily Footage	170	Daily Cost	\$300.00
Depth (MD)	945	TVD at Bit	945	Cum. Cost	\$7,459.93
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test

Mud Properties

Type	
Weight	
FV	
PV	
YP	
LCM (ppb)	
Chlorides	
% Solids	
Daily Losses	
Total Losses	

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	
Max RPM	
Max Torque	
Max Pull	
Bkgrnd Gas	
Max Gas	
Cnx Gas	
Trip Gas	

BHA

Component	Length	ID	OD
Total Length:			

Bit Info

[illegible]


Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
				Drill 17.5" hole from 775-868 ft.
06:00	11:30	5.50	Drilling	TRRC job # 47565, Operator 5, Daphene
11:30	12:00	0.50	Planned	Circulate hole and survey @ 808 feet. 1/4 degree
12:00	16:30	4.50	Drilling	Drill from 868 to 945 feet. TD.
16:30	17:30	1.00	Planned	Circulate hole.
17:30	18:00	0.50	Planned	Safety Meeting
18:00	19:00	1.00	Planned	Mix mud and spot viscous pill on bottom.
19:00	23:30	4.50	Planned	Trip out of hole, laying down pipe and collars.
23:30	02:30	3.00	Planned	Rig up to run 13 3/8 casing
02:30	06:00	3.50	Planned	Run 13 3/8 inch casing
Total Hours:		24		

24 Hour Activity Summary:

24 Hour Plan Forward:

Safety				Fuel			
Last BOP Test	Last BOP Drill	Last Function Test	Diesel Used	Diesel Recvd	Diesel on Loc		

	Daily Cost Report		Well Name: <u>RK-UTL 3031B-17-1H</u>	
			Report Date: <u>08/12/2016</u>	
			Daily Cost <u>\$300</u>	
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			
830.020	Staking & Surveying			
830.030	Road, Locations			
830.035	Mobilization/Demobilization			
830.040	Daywork Contract			
830.050	Mouse/Rathole/Conduct Pipe			
830.055	Directional Drilling & Survey			
830.060	Bits, Tools, Stabalizers			
830.065	Fuel, Power			
830.070	Equipment Rental			\$500
830.071	Hot Shot Trucking			
830.075	Mud & Chemicals			\$3,658
830.080	Mud Logging			
830.090	Core Analysis			
830.095	Openhole Logging			
830.100	Cement Services			
830.110	Casing Crew & Equipment			\$2,002
830.120	Contract Labor			
830.160	Fishing Services			
830.165	Drill Water		\$300	\$1,300
830.175	Supervision			
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$300	\$7,460
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				
Total Costs			\$300	\$7,460
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Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 08/13/2016

API

Field	Phantom Wolfcamp	Supervisor	Gary Simpson	Report No.	4
Location		Supervisor 2		DFS	
County	Ward	Rig Phone		Spud Date	
Rig Name	Star	Rig Email		AFE	
KB		Daily Footage		Daily Cost	\$36,032.59
Depth (MD)	945	TVD at Bit	945	Cum. Cost	\$43,492.52
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test

Mud Properties

Type	
Weight	
FV	
PV	
YP	
LCM (ppb)	
Chlorides	
% Solids	
Daily Losses	
Total Losses	

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	
Max RPM	
Max Torque	
Max Pull	
Bkgrnd Gas	
Max Gas	
Cnx Gas	
Trip Gas	

BHA

Component	Length	ID	OD
Total Length:			

Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)


From	To	Hours	P / U	Summary
06:00	07:00	1.00	Planned	Run 13 3/8 inch casing to TD and land at 929.54 ft.
07:00	08:00	1.00	Planned	Circulate well 2 bottoms up at 4.00 bpm with cement pump truck
08:00	10:00	2.00	Planned	Pump cement. Pump 20 bbl spacer then 142 bbls of 12.4 ppg lead, 65.6 bbls of 14.8 ppg tail, pump plug and displace with 146.7 bbls fresh water. Slow rate to 3 bpm for last 20 bbls. Sixty bbls cement return to surface, final pressure of 195 psi. Full returns through out job. Raise pump pressure after bumping plug. Hold floats for 5 min. Floats hold. 0.5 bbls flow back.
10:00	14:00	4.00	Planned	Hold tension on surface casing while cement sets.
Total Hours:		8		

24 Hour Activity Summary:

24 Hour Plan Forward:

Safety

Last BOP Test		Last BOP Drill		Last Function Test		Diesel Used		Diesel Recvd		Diesel on Loc	
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	<h2>Daily Cost Report</h2>				Well Name:	<u>RK-UTL 3031B-17-1H</u>
					Report Date:	<u>08/13/2016</u>
					Daily Cost	<u>\$36,033</u>
Intangible Costs						
Code	Description	Comments	Daily	Cum		
830.010	Permits, Licenses, ect					
830.020	Staking & Surveying					
830.030	Road, Locations					
830.035	Mobilization/Demobilization					
830.040	Daywork Contract					
830.050	Mouse/Rathole/Conduct Pipe					
830.055	Directional Drilling & Survey					
830.060	Bits, Tools, Stabalizers					
830.065	Fuel, Power					
830.070	Equipment Rental				\$500	
830.071	Hot Shot Trucking					
830.075	Mud & Chemicals				\$3,658	
830.080	Mud Logging					
830.090	Core Analysis					
830.095	Openhole Logging					
830.100	Cement Services		\$18,864		\$18,864	
830.110	Casing Crew & Equipment				\$2,002	
830.120	Contract Labor					
830.160	Fishing Services					
830.165	Drill Water				\$1,300	
830.175	Supervision					
830.185	Insurance					
830.190	Legal					
830.195	P&A/TA Costs					
840.100	Cement Services (4-1/2" Liner)					
Total Intangible			\$18,864		\$26,324	
Tangible Costs						
Code	Description	Comments	Daily	Cum		
850.010	Conductor Casing - 13-3/8"		\$17,169		\$17,169	
850.015	Surface Casing - 9-5/8"					
850.120	Intermediate Casing - 7"					
850.145	Wellhead Equipment					
850.150	Float equipment, Centralizers & DVT					
850.275	Tangible Contingency					
860.030	Production Casing - 4-1/2"					
860.035	Liner Hanger - 4-1/2"					
Total Tangible			\$17,169		\$17,169	
Total Costs			\$36,033		\$43,493	
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Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 08/23/2016**API**

Field	Phantom Wolfcamp	Supervisor	BILLY LALONDE	Report No.	8
Location		Supervisor 2		DFS	
County	Ward	Rig Phone	1-432-653-1264	Spud Date	
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage		Daily Cost	\$49,000.00
Depth (MD)	945	TVD at Bit	945	Cum. Cost	\$368,733.56
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		930'	

Mud Properties

Type	CUT BRINE
Weight	8.6
FV	36
PV	
YP	
LCM (ppb)	
Chlorides	18000
% Solids	
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	
Max RPM	0
Max Torque	
Max Pull	
Bkgrnd Gas	
Max Gas	
Cnx Gas	
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	1.00'	2.00	12.25
Total Length:	1.00		

Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	07:00	1.00	Planned	LOAD OUT RIG FLOOR WITH ROTARY TOOLS, RIG UP TONGS, AND SPINNERS WRENCHES
07:00	09:30	2.50	Planned	FINISH HOOKING UP LINES TO STACK, PRESSURE UP ACCUMILATOR & FUCTION TEST ALL WORKING CORRECT
09:30	10:30	1.00	Planned	PRE SPUD INSP.
10:30	14:30	4.00	Planned	CHANGE OUT SAVER SUB, INSTALL BELLS AND ELEVATORS, SET UP PIPE RACKS, LOAD OUT BHA ON PIPE RACKS, STRAP & CALIBRATE BHA NOTE: RIG ACCEPTED @ 13:30 HRS
14:30	17:30	3.00	Planned	VENT LINE TO FLOW LINE TO SHORT WELDER CUTTING FLOW LINE DOWN, MOVE 24 JOINT OF 5' HWDP FROM OLD LOC. TO NEW LOC., ORGANIZE PIPE RACK AREA, COUNT PIPE ON LOC.
17:30	18:00	0.50	Planned	HOLS SCOPE MEETING, P/U, M/U, TEST PLUG AND SUBS
18:00	23:30	5.50	Planned	TEST BOPE AS FOLLOWS 250 LOW 5000 HIGH FOR 5 MIN. 250 LOW 3500 HIGH ON ANNULAR 6500 BACK TO 4' ON MUD PUMPS NOTE: ALL TEST GOOD
23:30	00:30	1.00	Planned	INSTALL WEAR BUSHING
00:30	05:00	4.50	Planned	HOLD SCOPE MEETING P/U DIRECTIONAL TOOLS, INSTALL MWD, MAKE XO TO TEST, TEST FAILD, CHANGE OUT TRANSDUCER AND TRANSDUCER WIRE, TEST GOOD, BREAK DOWN XO,L/D JOINT OF DRILL PIPE , P/U AND MAKE UP BIT
05:00	06:00	1.00	Planned	TRIPPED IN THE HOLE MAKING UP 8" D.C. F/ 112 T/ 200 MONITOR DISPLACMENTS ON TRIP TANK: HOLE IS DISPLACING PROPERLY - - HOLE CONDITIONS: GOOD, CASED
Total Hours:		24		

24 Hour Activity Summary:


RIG UP, TEST BOPE, MAKE UP BHA, TIH

24 Hour Plan Forward:

TIH, DRILL 12.25 VERTICAL SECTION TO 8400 +-

Safety

Last BOP Test	08/22/2016	Last BOP Drill	08/22/2016	Last Function Test	8/22/2016	Diesel Used	471	Diesel Recvd	7,405	Diesel on Loc	6,934
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Daily Cost Report

Well Name:

RK-UTL 3031B-17-1H

Report Date:

08/23/2016

Daily Cost

\$49,000

Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract		\$14,000	\$57,000
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey			
830.060	Bits, Tools, Stabalizers			
830.065	Fuel, Power			
830.070	Equipment Rental			\$500
830.071	Hot Shot Trucking			
830.075	Mud & Chemicals			\$5,999
830.080	Mud Logging			
830.090	Core Analysis			
830.095	Openhole Logging			
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor			\$1,050
830.160	Fishing Services			
830.165	Drill Water		\$35,000	\$36,300
830.175	Supervision			
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$49,000	\$301,565
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$49,000	\$368,734

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Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 08/25/2016

API

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	6
Location		Supervisor 2		DFS	2
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	1,392	Daily Cost	\$29,039.50
Depth (MD)	3,757	TVD at Bit	3,757	Cum. Cost	\$462,628.13
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		930'	

Mud Properties

Type	BRINE / POLYMER
Weight	10
FV	27
PV	1
YP	
LCM (ppb)	
Chlorides	183000
% Solids	0.1
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi
3,094'	4.60°	60.80°

Drilling Parameters

Max WOB	35
Max RPM	100
Max Torque	10
Max Pull	145
Bkgrnd Gas	
Max Gas	
Cnx Gas	
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	1.00'	2.00	12.25
Motor	29.15'	2.75	8.00
Shock Sub	11.48'	2.75	8.00
Stabilizer	8.50'	2.75	8.25
Sub	3.80'	2.88	8.63
Monel Collar	59.05'	3.25	8.00
Drill Collar	86.10'	2.88	8.00
X-Over	3.55'	2.81	8.00
Drill Collar	260.52'	2.50	6.50
X-Over	3.60'	2.50	6.38
Drill Pipe	549.15'	2.94	6.50
Total Length:	1015.90		


Bit Info


[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	10:00	4.00	Drilling	<p>DRILLED 12.25" VERTICAL SECTION F/ 2,365' T/ 2,725' - 360'</p> <p>- AROP: 90 FPH - WOB: 15 - 25 KLBS - STRING RPM: 60 - 100 - MOTOR RPM: 136 - FLOW: 850 GPM - DIFF: 200 - 400 PSI - ON-BTM PSI: 3,450 PSI - OFF-BTM PSI: 3,200 PSI - ON-BTM TRQ: 5.5 - 8.5 - OFF-BTM TRQ: 3.0 - 3.5 - M/W: IN - 10.0 / 27 - M/W OUT - 9.9+ / 26</p> <p>SURVEY AT: 2,329', INC - 4.3°, AZM - 58.2°, TVD - 2,327.94'</p> <p>- NOTE: HAD TO RECYCLE THE PUMPS A FEW TIMES TO GET SURVEYS. MWD STOPPED PUMPING UP SURVEYS AT 2,424' +/-</p> <p>- FORMATION DRILLED: YATES FORMATION</p>
10:00	14:45	4.75	Drilling	<p>DRILLED 12.25" VERTICAL SECTION F/ 2,725' T/ 3,093' - 368'</p> <p>- AROP: 78 FPH - WOB: 15 - 25 KLBS - STRING RPM: 40 - 120 - MOTOR RPM: 136 - FLOW: 850 GPM - DIFF: 225 - 350 PSI - ON-BTM PSI: 3,675 PSI - OFF-BTM PSI: 3,300 PSI - ON-BTM TRQ: 6.0 - 8.5 - OFF-BTM TRQ: 3.0 - 3.5 - M/W: IN - 10.0 / 26 - M/W OUT - 10.0 / 26</p> <p>- NOTE: NO SURVEY'S, MWD STOPPED WORKING.</p> <p>- FORMATION DRILLED: YATES AND SEVEN RIVER FORMATIONS</p> <p>- NOTE: CONDUCTED A DRILLING BOP DRILL WITH DAYLIGHT CREW.</p>
14:45	15:15	0.50	Planned	PERFORMED RIG AND TOP DRIVE SERVICE.
15:15	18:00	2.75	Drilling	<p>DRILLED 12.25" VERTICAL SECTION F/ 3,093' T/ 3,286' - 193'</p> <p>- AROP: 71 FPH - WOB: 20 - 30 KLBS - STRING RPM: 40 - 65 - MOTOR RPM: 134 - FLOW: 840 GPM - DIFF: 250 - 400 PSI - ON-BTM PSI: 3,825 PSI - OFF-BTM PSI: 3,350 PSI - ON-BTM TRQ: 6.0 - 8.5 - OFF-BTM TRQ: 3.0 - 3.5 - M/W: IN - 10.0 / 26 - M/W OUT - 10.0 / 26</p> <p>SURVEY AT: 3,094', INC - 4.6°, AZM - 60.8°, TVD - 3,090.53'</p> <p>- FORMATION DRILLED: SEVEN RIVER AND SALT SECTION FORMATIONS</p>
18:00	22:00	4.00	Drilling	<p>DRILLED 12.25" VERTICAL SECTION F/ 3,286' T/ 3,551' - 265'</p> <p>- AROP: 67 FPH - WOB: 20 - 35 KLBS - STRING RPM: 40 - 100 - MOTOR RPM: 132 - FLOW: 825 GPM - DIFF: 300 - 450 PSI - ON-BTM PSI: 3,725 PSI - OFF-BTM PSI: 3,350 PSI - ON-BTM TRQ: 6.5 - 8.5 - OFF-BTM TRQ: 2.0 - 2.5 - M/W: IN - 10.0 / 27 - M/W OUT - 10.0 / 27</p> <p>- NOTE: NO SURVEY'S, MWD STOPPED WORKING AGAIN.</p> <p>- FORMATION DRILLED: SALT SECTIONS</p>

				DRILLED 12.25" VERTICAL SECTION F/ 3,551' T/ 3,757' - 206' - AROP: 64 FPH - WOB: 20 - 35 KLBS - STRING RPM: 40 - 80 - MOTOR RPM: 132 - FLOW: 825 GPM - DIFF: 250 - 500 PSI - ON-BTM PSI: 3,700 PSI - OFF-BTM PSI: 3,475 PSI - ON-BTM TRQ: 7.5 - 9.5 - OFF-BTM TRQ: 2.0 - 2.5 - M/W: IN - 10.1 / 27 - M/W OUT - 10.1 / 27 - NOTE: NO SURVEY'S, MWD STOPPED WORKING. - FORMATION DRILLED: SALT SECTIONS
22:00	01:15	3.25	Drilling	
01:15	06:00	4.75	UnPlanned	WHILE DRILLING, TRACTION MOTOR B ON PUMP #2 BURNED OUT LOOSING THE PUMP. SCAN ORDERED A REPLACEMENT AND IT WAS SHIPPED FROM THE BIG SPRINGS YARD. WHILE WAITING FORM REPLACEMENT MOTOR, THE CREW RIGGED DOWN AND UNBOLTED THE OLD TRACTION MOTOR. - NOTE: RACKED A STAND BACK AND CONTINALLY WORKED THE DRILL STRING 90' WITH 410 GPM AND 20 RPM.
Total Hours:		24		
24 Hour Activity Summary:				
DRILLED AHEAD IN THE VERTICAL SECTION, LOST TRACTION MOTOR ON #2 PUMP - WAITING ON NEW MOTOR				
24 Hour Plan Forward:				
DRILL AHEAD IN THE VERTICAL SECTION WATCHING FOR FORMATION CHANGES				
Safety				
Last BOP Test	08/22/2016	Last BOP Drill	08/24/2016	Last Function Test
8/22/2016		8/22/2016		8/22/2016
Diesel Used		3,481		Diesel Recvd
				Diesel on Loc
				1,553

	Daily Cost Report		Well Name:	RK-UTL 3031B-17-1H
			Report Date:	08/25/2016
			Daily Cost	\$29,040
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	SCAN RIG 14 K A DAY (583.33 A HR)	\$14,000	\$77,125
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	A DAY FOR MWD IN SURFACE SECTION	\$1,100	\$1,100
830.060	Bits, Tools, Stabalizers			\$3,500
830.065	Fuel, Power			\$25,263
830.070	Equipment Rental		\$1,687	\$6,056
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$7,883	\$15,079
830.080	Mud Logging			
830.090	Core Analysis			
830.095	Openhole Logging			
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor			\$13,469
830.160	Fishing Services			
830.165	Drill Water			\$36,300
830.175	Supervision		\$3,800	\$11,400
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs		\$570	\$1,690
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$29,040	\$395,459
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$29,040	\$462,628
WellEz Information Management Ver4.21.14bg				

	Daily Cost Report		Well Name:	RK-UTL 3031B-17-1H
			Report Date:	08/26/2016
			Daily Cost	\$57,078
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	SCAN RIG 14 K A DAY (583.33 A HR)	\$14,000	\$91,125
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	A DAY FOR MWD IN SURFACE SECTION	\$1,100	\$2,200
830.060	Bits, Tools, Stabalizers			\$3,500
830.065	Fuel, Power		\$12,601	\$37,863
830.070	Equipment Rental		\$6,668	\$12,724
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$17,109	\$32,188
830.080	Mud Logging		\$1,800	\$1,800
830.090	Core Analysis			
830.095	Openhole Logging			
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor			\$13,469
830.160	Fishing Services			
830.165	Drill Water			\$36,300
830.175	Supervision		\$3,800	\$15,200
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$1,690
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$57,078	\$452,537
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$57,078	\$519,706
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 08/27/2016**API**

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	8
Location		Supervisor 2		DFS	4
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	976	Daily Cost	\$50,811.88
Depth (MD)	5,776	TVD at Bit	5,776	Cum. Cost	\$573,985.04
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		930'	

Mud Properties

Type	MMO
Weight	8.9
FV	45
PV	10
YP	40
LCM (ppb)	
Chlorides	100
% Solids	4.19
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	38
Max RPM	120
Max Torque	12.5
Max Pull	185
Bkgrnd Gas	
Max Gas	
Cnx Gas	
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	1.00'	2.00	12.25
Motor	29.15'	2.75	8.00
Shock Sub	11.48'	2.75	8.00
Stabilizer	8.50'	2.75	8.25
Sub	3.80'	2.88	8.63
Monel Collar	59.05'	3.25	8.00
Drill Collar	86.10'	2.88	8.00
X-Over	3.55'	2.81	8.00
Drill Collar	260.52'	2.50	6.50
X-Over	3.60'	2.50	6.38
Drill Pipe	549.15'	2.94	6.50
Total Length:	1015.90		


Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	07:00	1.00	Planned	FINISHED DISPLACING THE WELL BORE WITH MMO MUD, CLOSED IN THE PIT SYSTEM AND MADE A CONNECTION, DRILLED 12.25" VERTICAL SECTION F/ 4,800' T/ 4,978' - 178'
				<p>- AROP: 45 FPH - WOB: 20 - 38 KLBS</p> <p>- STRING RPM: 30 - 70 - MOTOR RPM: 120 - 132</p> <p>- FLOW: 750 - 825 GPM - DIFF: 250 - 550 PSI</p> <p>- ON-BTM PSI: 3,150 PSI - OFF-BTM PSI: 2,825 PSI</p> <p>- ON-BTM TRQ: 8.5 - 10.5 - OFF-BTM TRQ: 2.5 - 3.0</p> <p>- M/W: IN - 8.9 / 35 - M/W OUT - 8.9 / 37</p> <p>- NOTE: NO SURVEY'S, MWD STOPPED WORKING.</p> <p>- FORMATION DRILLED: CASTILE AND LAMAR FORMATIONS.</p> <p>- NOTE: THE LAMAR FORMATION CAME IN AT 4,937'</p> <p>- NOTE: STARTED MIXING LCM AT 5,000' - 5 FINE CAL., 5 MED CAL. AND 2 MICA EVER HOUR.</p>
07:00	11:00	4.00	Drilling	
				<p>WHILE DRILLING AHEAD THE DERRICK HAND WAS OVER BY THE SHAKERS AND HIS PERSONAL H2S MONITOR WENT OFF. HE INFORMED THE DRILLER, DRILLER PICKED UP AND SPACED OUT. THE LOCATION MUSTERED UP AND TOOK A HEAD COUNT. THE TOOL PUSHER AND DSM SWEEPED THE LOCATION WITH THE GAS DETECTORS AND FOUND H2S READINGS AT THE SHAKER. READINGS WERE SHOWING 20 TP 50 PPM AND SEEN A SPIKE OF 150 PPM. CALLS WHERE MADE AND THE DECISION WAS TO SHUT THE WELL IN, MIX UP 50 BBL SWEEP WITH LIME AT 15 PH LEVEL AND BRING THE ACTIVE SYSTYEM UP TO 12 PH. ONCE THE SWEEP WAS BUILT WE LINED UP THROUGH THE CHOKE AND STARTED PUMPING THE SWEEP. WE HAD SAFETY ALERT SHOW UP AND MONITORED THE SHAKERS. ONCE THE H2S READINGS WHERE BELOW THE 10 PPM HE CLEARED THE LOCATION AND GAVE THE ALL CLEAR. WE THEN OPENED THE WELL BACK UP AND CONTIUNED DRILLING AHEAD.</p> <p>- NOTE: THE SPRINT H2S MONITORS NEVER SHOWED ANY H2S AT ANY TIME.</p>
11:00	14:30	3.50	UnPlanned	
				<p>DRILLED 12.25" VERTICAL SECTION F/ 4,978' T/ 5,181' - 203'</p> <p>- AROP: 68 FPH - WOB: 20 - 35 KLBS</p> <p>- STRING RPM: 55 - 80 - MOTOR RPM: 120 - 132</p> <p>- FLOW: 750 - 800 GPM - DIFF: 200 - 450 PSI</p> <p>- ON-BTM PSI: 3,675 PSI - OFF-BTM PSI: 3,500 PSI</p> <p>- ON-BTM TRQ: 8.5 - 11.0 - OFF-BTM TRQ: 2.5 - 3.0</p> <p>- M/W: IN - 9.1 / 41 - PH: 11 - M/W OUT - 9.1 / 38 - PH: 12</p> <p>- NOTE: NO SURVEY'S, MWD STOPPED WORKING.</p> <p>- FORMATION DRILLED: LAMAR AND BELL CANYON FORMATIONS.</p> <p>- NOTE: THE BELL CANYON FORMATION CAME IN AT 5,028'</p>
14:30	17:30	3.00	Drilling	
				<p>WHILE DRILLING AHEAD THE DERRICK HAND WAS WORKING ON UNPLUGGING THE 10" CUTTINGS LINE TO THE PIT. HE ENDED UP CHURNING UP THE CUTTINGS IN THE LINE AND SETTING HIS H2S MONITOR OFF. HE REPORTED IT TO THE DRILLER, DRILLER PICKED UP, SPACED OUT AND MUSTERED UP. TOOL PUSHER, DSM AND SAFETY H2S REP SWEEPED THE LOCATION AND FOUND THE H2S READINGS IN THE CUTTING TROUGH. FINISHED CLEANING OUT AND JETTING THE LINE RESNIFFED THE AREA AND CLEARED THE ALARM.</p>
17:30	18:30	1.00	UnPlanned	

18:30	22:30	4.00	Drilling	<div>DRILLED 12.25" VERTICAL SECTION F/ 5,181' T/ 5,556' - 375'</div> <div>- AROP: 94 FPH - STRING RPM: 60 -9 0 - FLOW: 750 - 825 GPM - ON-BTM PSI: 3,975 PSI - ON-BTM TRQ: 8.5 - 11.5 - M/W: IN - 9.1 / 40 - PH: 11</div> <div>- WOB: 20 - 25 KLBS - MOTOR RPM: 120 - 132 - DIFF: 225 - 500 PSI - OFF-BTM PSI: 3,725 PSI - OFF-BTM TRQ: 2.0 - 3.0 - M/W OUT - 9.1 / 38 - PH: 11</div> <div>- NOTE: NO SURVEY'S, MWD STOPPED WORKING.</div> <div>- FORMATION DRILLED: BELL CANYON FORMATION.</div> <div>- NOTE: THE WILD CAT AUTO DRILLER STRIPPED THE GEAR ON DRIVE MOTOR AT 5,203'. DRILLER HAD TO DRILL BY HAND WHILE WAITING FOR PARTS TO SHOW UP.</div>
22:30	01:00	2.50	Drilling	<div>DRILLED 12.25" VERTICAL SECTION F/ 5,556' T/ 5,728' - 172'</div> <div>- AROP: 69 FPH - STRING RPM: 40 - 80 - FLOW: 750 - 825 GPM - ON-BTM PSI: 4,000 PSI - ON-BTM TRQ: 6.5 - 11.5 - M/W: IN - 9.2 / 55 - PH: 11</div> <div>- WOB: 15 - 30 KLBS - MOTOR RPM: 120 - 132 - DIFF: 250 - 500 PSI - OFF-BTM PSI: 3,600 PSI - OFF-BTM TRQ: 2.0 - 3.0 - M/W OUT - 9.2 / 48 - PH: 11</div> <div>- NOTE: NO SURVEY'S, MWD STOPPED WORKING.</div> <div>- FORMATION DRILLED: BELL CANYON FORMATION.</div>
01:00	01:30	0.50	Planned	<div>PERFORMED RIG SERVICE AND TOP DRIVE SERVICE</div> <div>- NOTE: DERRICK HAND WAS MAKING HIS CHECKES ON MUD PUMPS AND FOUND THE PONY ROD IN #2 PUMP IN #3 POD WAS BROKE AT THE HEAD.</div>
01:30	05:00	3.50	UnPlanned	<div>DISASSEMBLED #2 PUMP, REPLACED THE PONY ROD AND SEALS ON POD #3, PUT THE PUMP BACK TOGHTHER AND TESTED.</div> <div>- NOTE: ALL THE PARTS AND SEALS WHERE ON LOCATION.</div> <div>- NOTE: CONTINALLY WORKED THE DRILL STRING 90' WITH 425 GPM AND 20 RPM.</div>
05:00	06:00	1.00	Planned	<div>DRILLED 12.25" VERTICAL SECTION F/ 5,728' T/ 5,776' - 48'</div> <div>- AROP: 48 FPH - STRING RPM: 45 - 65 - FLOW: 830 GPM - ON-BTM PSI: 4,125 PSI - ON-BTM TRQ: 6.5 - 12.5 - M/W: IN - 9.4 / 48 - PH: 11</div> <div>- WOB: 20 - 30 KLBS - MOTOR RPM: 132 - DIFF: 200 - 350 PSI - OFF-BTM PSI: 3,750 PSI - OFF-BTM TRQ: 2.5 - 4.0 - M/W OUT - 9.4 / 48 - PH: 11</div> <div>- NOTE: NO SURVEY'S, MWD STOPPED WORKING.</div> <div>- FORMATION DRILLED: BELL CANYON FORMATION.</div>
Total Hours:		24		
24 Hour Activity Summary:				
DRILLED AHEAD, DEALT WITH H2S, CHANGED PONY ROD IN #2 PUMP AND DRILLED AHEAD.				
24 Hour Plan Forward:				
DRILL AHEAD IN THE VERTICAL SECTION				
Safety				
Fuel				
Last BOP Test	08/22/2016	Last BOP Drill	08/26/2016	Last Function Test 8/22/2016
Diesel Used	2,223	Diesel Recvd	6,825	Diesel on Loc 10,852

<div></div> <div>Daily Cost Report</div>		Well Name: <u>RK-UTL 3031B-17-1H</u>		
		Report Date: <u>08/27/2016</u>		
		Daily Cost <u>\$50,812</u>		
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	SCAN RIG 14 K A DAY (583.33 A HR)	\$11,958	\$103,083
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	A DAY FOR MWD IN SURFACE SECTION	\$1,100	\$3,300
830.060	Bits, Tools, Stabalizers			\$3,500
830.065	Fuel, Power			\$37,863
830.070	Equipment Rental		\$1,437	\$17,628
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$27,918	\$60,106
830.080	Mud Logging		\$1,800	\$3,600
830.090	Core Analysis			
830.095	Openhole Logging			
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor			\$13,469
830.160	Fishing Services			
830.165	Drill Water			\$36,300
830.175	Supervision		\$3,800	\$19,000
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs		\$2,799	\$4,489
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$50,812	\$506,816
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$50,812	\$573,985
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 08/28/2016**API**

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	9
Location		Supervisor 2		DFS	5
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	1,515	Daily Cost	\$35,197.14
Depth (MD)	7,291	TVD at Bit	7,291	Cum. Cost	\$609,182.18
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		930'	

Mud Properties

Type	MMO
Weight	9.4
FV	77
PV	7
YP	24
LCM (ppb)	0.5
Chlorides	78000
% Solids	3.47
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	38
Max RPM	120
Max Torque	13.5
Max Pull	200
Bkgrnd Gas	
Max Gas	
Cnx Gas	
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	1.00'	2.00	12.25
Motor	29.15'	2.75	8.00
Shock Sub	11.48'	2.75	8.00
Stabilizer	8.50'	2.75	8.25
Sub	3.80'	2.88	8.63
Monel Collar	59.05'	3.25	8.00
Drill Collar	86.10'	2.88	8.00
X-Over	3.55'	2.81	8.00
Drill Collar	260.52'	2.50	6.50
X-Over	3.60'	2.50	6.38
Drill Pipe	549.15'	2.94	6.50
Total Length:	1015.90		


Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)


From	To	Hours	P / U	Summary
06:00	10:00	4.00	Drilling	<p>DRILLED 12.25" VERTICAL SECTION F/ 5,776' T/ 6,112' - 336'</p> <p>- AROP: 84 FPH - WOB: 15 - 35 KLBS - STRING RPM: 40 - 75 - MOTOR RPM: 132 - FLOW: 830 GPM - DIFF: 150 - 500 PSI - ON-BTM PSI: 4,150 PSI - OFF-BTM PSI: 3,900 PSI - ON-BTM TRQ: 8.5 - 13.0 - OFF-BTM TRQ: 3.0 - 4.0 - M/W: IN - 9.6 / 42 - PH: 11 - M/W OUT - 9.6 / 41 - PH: 11</p> <p>- NOTE: NO SURVEY'S, MWD STOPPED WORKING.</p> <p>- FORMATION DRILLED: BELL CANYON AND CHERRY CANYON FORMATIONS.</p> <p>- NOTE: CHERRY CANYON FORMATION CAME IN AT 5,925' MD</p>
10:00	14:00	4.00	Drilling	<p>DRILLED 12.25" VERTICAL SECTION F/ 6,112' T/ 6,411' - 299'</p> <p>- AROP: 75 FPH - WOB: 15 - 32 KLBS - STRING RPM: 40 - 110 - MOTOR RPM: 132 - FLOW: 820 GPM - DIFF: 150 - 425 PSI - ON-BTM PSI: 4,050 PSI - OFF-BTM PSI: 3,850 PSI - ON-BTM TRQ: 8.5 - 12.5 - OFF-BTM TRQ: 3.0 - 4.0 - M/W: IN - 8.9 / 56 - PH: 11 - M/W OUT - 9.6 / 44 - PH: 11</p> <p>- NOTE: NO SURVEY'S, MWD STOPPED WORKING.</p> <p>- FORMATION DRILLED: CHERRY CANYON FORMATION.</p>
14:00	14:30	0.50	Planned	PERFORMED RIG, DRAW WORK AND TOP DRIVE SERVICE.
14:30	18:30	4.00	Drilling	<p>DRILLED 12.25" VERTICAL SECTION F/ 6,411' T/ 6,699' - 288'</p> <p>- AROP: 72 FPH - WOB: 25 - 35 KLBS - STRING RPM: 60 - 115 - MOTOR RPM: 132 - FLOW: 820 GPM - DIFF: 200 - 450 PSI - ON-BTM PSI: 4,275 PSI - OFF-BTM PSI: 4,050 PSI - ON-BTM TRQ: 8.0 - 13.0 - OFF-BTM TRQ: 3.0 - 4.0 - M/W: IN - 9.4 / 77 - PH: 12 - M/W OUT - 9.6 / 46 - PH: 11</p> <p>- NOTE: NO SURVEY'S, MWD STOPPED WORKING.</p> <p>- FORMATION DRILLED: CHERRY CANYON FORMATION.</p>
18:30	22:30	4.00	Drilling	<p>DRILLED 12.25" VERTICAL SECTION F/ 6,699' T/ 6,959' - 260'</p> <p>- AROP: 65 FPH - WOB: 20 - 35 KLBS - STRING RPM: 75 - 120 - MOTOR RPM: 132 - FLOW: 820 GPM - DIFF: 150 - 350 PSI - ON-BTM PSI: 4,200 PSI - OFF-BTM PSI: 4,050 PSI - ON-BTM TRQ: 8.5 - 13.5 - OFF-BTM TRQ: 3.0 - 4.5 - M/W: IN - 9.3+ / 77 - PH: 12 - M/W OUT - 9.2+ / 46 - PH: 11</p> <p>- NOTE: NO SURVEY'S, MWD STOPPED WORKING.</p> <p>- FORMATION DRILLED: CHERRY CANYON FORMATION.</p>


[illegible]

	Daily Cost Report		Well Name:	RK-UTL 3031B-17-1H
			Report Date:	08/28/2016
			Daily Cost	\$35,197
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	SCAN RIG 14 K A DAY (583.33 A HR)	\$14,000	\$117,083
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	A DAY FOR MWD IN SURFACE SECTION	\$1,100	\$4,400
830.060	Bits, Tools, Stabalizers			\$3,500
830.065	Fuel, Power			\$37,863
830.070	Equipment Rental		\$1,447	\$19,075
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$13,050	\$73,156
830.080	Mud Logging		\$1,800	\$5,400
830.090	Core Analysis			
830.095	Openhole Logging			
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor			\$13,469
830.160	Fishing Services			
830.165	Drill Water			\$36,300
830.175	Supervision		\$3,800	\$22,800
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$4,489
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$35,197	\$542,013
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$35,197	\$609,182
WellEz Information Management Ver4.21.14bg				

From	To	Hours	P / U	Summary
06:00	10:00	4.00	Drilling	<p>DRILLED 12.25" VERTICAL SECTION F/ 7,291' T/ 7,416' - 125'</p> <p>- AROP: 31 FPH - WOB: 25 - 40 KLBS - STRING RPM: 30 - 60 - MOTOR RPM: 112 - 131 - FLOW: 700 - 820 GPM - DIFF: 150 - 475 PSI - ON-BTM PSI: 4,075 PSI - OFF-BTM PSI: 3,000 PSI - ON-BTM TRQ: 8.5 - 11.5 - OFF-BTM TRQ: 3.5 - 5.0 - M/W: IN - 9.2+ / 41 - PH: 10 - M/W OUT - 9.5 / 42 - PH: 10</p> <p>- NOTE: NO SURVEY'S, MWD STOPPED WORKING.</p> <p>- FORMATION DRILLED: BRUSHY CANYON FORMATION.</p>
10:00	12:00	2.00	Drilling	<p>DRILLED 12.25" VERTICAL SECTION F/ 7,416' T/ 7,448' - 32'</p> <p>- AROP: 16 FPH - WOB: 20 - 40 KLBS - STRING RPM: 30 - 60 - MOTOR RPM: 104 - 128 - FLOW: 650 - 800 GPM - DIFF: 250 - 450 PSI - ON-BTM PSI: 3,350 PSI - OFF-BTM PSI: 2,950 PSI - ON-BTM TRQ: 8.0 - 10.5 - OFF-BTM TRQ: 3.5 - 5.0 - M/W: IN - 9.4 / 50 - PH: 11 - M/W OUT - 9.4 / 42 - PH: 11</p> <p>- NOTE: NO SURVEY'S, MWD STOPPED WORKING.</p> <p>- FORMATION DRILLED: BRUSHY CANYON FORMATION.</p>
12:00	13:00	1.00	Planned	<p>CIRCULATED AND MOVED THE PIPE WHILE BUILDING A PILL AND FILLING TRIP TANKS. FLOW CHECKED - WELL STATIC AND PUMPED A PILL.</p>
13:00	15:15	2.25	Planned	<p>TRIPPED OUT OF THE HOLE WITH 4.5" DRILL PIPE FROM 7,448' TO 2,525'</p> <p>MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 32.0 BBLS - ACTUAL FILL: 28 BBLS</p> <p>- AVERAGE TRIP SPEED: 2,175 FPH</p> <p>- HOLE CONDITIONS: GOOD, NO OVER PULL SEEN.</p> <p>NOTE: PULLED ROTATING HEAD AT 2,525', CONDUCTED FLOW CHECK - WELL STATIC AND SWITCHED OVER TO 5" HANDLING EQUIPMENT</p>
15:15	16:00	0.75	Planned	<p>TRIPPED OUT OF THE HOLE WITH 5" DRILL PIPE FROM 2,525' TO 1,015' - BHA</p> <p>MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 14.1 BBLS - ACTUAL FILL: 15 BBLS</p> <p>- AVERAGE TRIP SPEED: 2,025' FPH</p> <p>- HOLE CONDITIONS: GOOD, NO OVER PULL SEEN</p>

16:00	18:00	2.00	Planned	<div>HELD PJSM WITH RIG CREW ON HANDLING AND CHANGING OUT BHA'S</div> <div>- STOOD BACK 6 STANDS OF 5" HWDP, 3 STANDS OF 6.5" DRILL COLLARS AND 1 STAND OF 8" DRILL COLLARS</div> <div>- LAID DOWN UBHO, 2 MONEL D.C.'S, STAB AND SHOCK SUB.</div> <div>- PICKED UP MOTOR, BROKE THE BIT OFF AND LAID MOTOR DOWN.</div> <div>MONITOR HOLE ON TRIP TANK:</div> <div>- CALCULATED FILL: 30.9 BBLS</div> <div>- ACTUAL FILL: 29 BBLS</div> <div>NOTE: FUNCTION TESTED BLIND RAMS.</div>
18:00	20:00	2.00	Planned	<div>HELD PJSM WITH RIG CREW ON PICKING UP NEW BHA.</div> <div>PICKING UP #2 12.25" VERTICAL BHA AS FOLLOWS:</div> <div>- BIT (SMITH) SDSI616 MEPX WITH 6X13'S</div> <div>- MOTOR (PREDATOR 7/8, 4.0, 0.16 RPG)</div> <div>- SHOCK SUB</div> <div>- 12" STAB</div> <div>- 1 STAND OF 8" D.C.'S</div> <div>- X-O</div> <div>- 3 STANDS OF 6 1/2" DRILL COLLARS</div> <div>- X-O</div> <div>- 6 STANDS OF 5" HWDP</div>
20:00	23:00	3.00	Planned	<div>TRIPPED IN THE HOLE WITH 5" AND 4.5" DRILL PIPE F/ 953' T/ 7,355' - 6,402'</div> <div>AVERAGE TRIP SPEED: 2,125' FPH</div> <div>MOMITORING DISPLACEMENT ON TRIP TANKS</div> <div>- CALCULATED DISPLACMENT: 132.6</div> <div>- ACTUAL DISPLACMENT: 135</div> <div>- FILL PIPE EVERY 30 STANDS.</div> <div>NOTE: INSTALLED THE ROTATING RUBBER AND CHANGE OVER TO 4.5" HANDLING TOOLS AT 2,525'</div> <div>NOTE: CONDUCTED A TRIP BOP DRILL WITH NIGHT CREW.</div>
23:00	23:30	0.50	Planned	<div>WASHED AND REAMED THE LAST STAND DOWN F/ 7,355' T/ 7,448'</div> <div>CIRCULATED BOTTOMS UP TO CATCH THE HEAVY MUD.</div>
23:30	03:30	4.00	Drilling	<div>DRILLED 12.25" VERTICAL SECTION F/ 7,448' T/ 7,591' - 143'</div> <div>- AROP: 36 FPH</div> <div>- STRING RPM: 50 - 120</div> <div>- FLOW: 700 GPM</div> <div>- ON-BTM PSI: 3,150 PSI</div> <div>- ON-BTM TRQ: 6.0 - 11.0</div> <div>- M/W: IN - 9.4+ / 40 - PH: 11</div> <div>- WOB: 20 - 38 KLBS</div> <div>- MOTOR RPM: 112</div> <div>- DIFF: 200 - 400 PSI</div> <div>- OFF-BTM PSI: 2,825 PSI</div> <div>- OFF-BTM TRQ: 3.5 - 5.0</div> <div>- M/W OUT - 9.4+ / 41 - PH: 11</div> <div>- FORMATION DRILLED: BRUSHY CANYON FORMATION.</div>
03:30	06:00	2.50	Drilling	<div>DRILLED 12.25" VERTICAL SECTION F/ 7,591' T/ 7,666' - 75'</div> <div>- AROP: 30 FPH</div> <div>- STRING RPM: 65 - 85</div> <div>- FLOW: 700 GPM</div> <div>- ON-BTM PSI: 3,150 PSI</div> <div>- ON-BTM TRQ: 6.5 - 9.5</div> <div>- M/W: IN - 9.2 / 65 - PH: 11</div> <div>- WOB: 30 - 38 KLBS</div> <div>- MOTOR RPM: 112</div> <div>- DIFF: 150 - 350 PSI</div> <div>- OFF-BTM PSI: 2,900 PSI</div> <div>- OFF-BTM TRQ: 3.5 - 5.0</div> <div>- M/W OUT - 9.4 / 46 - PH: 11</div> <div>- FORMATION DRILLED: BRUSHY CANYON FORMATION.</div>
Total Hours:		24		
24 Hour Activity Summary:				
DRILLED TO 7,448', CIRCULATED, P.O.O.H., CHANGED BHA, T.I.H.				
24 Hour Plan Forward:				
DRILL AHEAD IN THE VERTICAL SECTION				
Safety				
Last BOP Test	08/22/2016	Last BOP Drill	08/28/2016	Last Function Test
8/28/2016		Diesel Used		2,372
Diesel Recvd		7,200		Diesel on Loc
				12,077

	Daily Cost Report		Well Name:	RK-UTL 3031B-17-1H
			Report Date:	08/29/2016
			Daily Cost	\$80,158
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	SCAN RIG 14 K A DAY (583.33 A HR)	\$14,000	\$131,083
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	A DAY FOR MWD IN SURFACE SECTION	\$1,100	\$5,500
830.060	Bits, Tools, Stabalizers		\$11,500	\$15,000
830.065	Fuel, Power		\$12,610	\$50,473
830.070	Equipment Rental		\$12,627	\$33,247
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$22,722	\$95,878
830.080	Mud Logging		\$1,800	\$7,200
830.090	Core Analysis			
830.095	Openhole Logging			
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor			\$13,469
830.160	Fishing Services			
830.165	Drill Water			\$36,300
830.175	Supervision		\$3,800	\$26,600
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$4,489
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$80,158	\$623,716
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$80,158	\$690,885
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H
Report Date 08/30/2016
API

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	11
Location		Supervisor 2		DFS	7
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLOOK.COM	AFE	
KB		Daily Footage	493	Daily Cost	\$26,407.10
Depth (MD)	8,159	TVD at Bit	8,159	Cum. Cost	\$717,292.34
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		930'	

Mud Properties

Type	MMO
Weight	9.4
FV	44
PV	5
YP	22
LCM (ppb)	0.25
Chlorides	68000
% Solids	4.5
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	45
Max RPM	100
Max Torque	11.5
Max Pull	210
Bkgrnd Gas	
Max Gas	
Cnx Gas	
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	1.00'	2.00	12.25
Motor	29.13'	2.75	8.00
Shock Sub	12.25'	2.75	8.00
Stabilizer	7.93'	2.75	8.25
Drill Collar	86.10'	2.88	8.00
X-Over	3.55'	2.81	8.00
Drill Collar	260.52'	2.50	6.50
X-Over	3.60'	2.50	6.38
Drill Pipe	549.15'	2.94	6.50
Total Length:	953.23		

Bit Info


Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
1	17.5	Smith	506		22, 22, 22	100'	929'	829'			----I-X--TD
2	12.25	SMITH	STING BLADE	JM2300	6X12	972'	7,448'	6,476'	96.0	67.0	2-7-BT-S-I-X-CR-ROP
3	12.25	SMITH	SDSI 616 MEPX	JM1328	6X12	7,448'		711'	26.5	27.0	-----

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	10:00	4.00	Drilling	DRILLED 12.25" VERTICAL SECTION F/ 7,666' T/ 7,761' - 95' - AROP: 24 FPH - STRING RPM: 35 - 60 - FLOW: 700 - 750 GPM - ON-BTM PSI: 3,475 PSI - ON-BTM TRQ: 6.0 - 10.0 - M/W: IN - 9.4+ / 42 - PH: 11 - WOB: 25 - 40 KLBS - MOTOR RPM: 112 - 120 - DIFF: 200 - 300 PSI - OFF-BTM PSI: 3,375 PSI - OFF-BTM TRQ: 3.5 - 5.0 - M/W OUT - 9.4+ / 44 - PH: 11 - FORMATION DRILLED: BRUSHY CANYON FORMATION.
10:00	13:30	3.50	Drilling	DRILLED 12.25" VERTICAL SECTION F/ 7,761' T/ 7,857' - 96' - AROP: 28 FPH - STRING RPM: 50 - 60 - FLOW: 750 GPM - ON-BTM PSI: 3,450 PSI - ON-BTM TRQ: 6.5 - 11.0 - M/W: IN - 9.4 / 42 - PH: 11 - WOB: 25 - 43 KLBS - MOTOR RPM: 120 - DIFF: 150 - 350 PSI - OFF-BTM PSI: 3,225 PSI - OFF-BTM TRQ: 3.5 - 5.0 - M/W OUT - 9.4 / 44 - PH: 11 - FORMATION DRILLED: BRUSHY CANYON FORMATION. NOTE: CONDUCTED DRILLING BOP DRILL WITH RIG CREW - HELD FLOW PADDLE UP AND IT TOOK DRILLER 2 MIN. 45 SEC. TIME TO REACT.
13:30	14:00	0.50	Planned	PERFORMED RIG AND TOP DRIVE SERVICE. NOTE: TOOK SLOW PUMP RATES ON BOTH PUMPS.
14:00	18:00	4.00	Drilling	DRILLED 12.25" VERTICAL SECTION F/ 7,857' T/ 7,966' - 109' - AROP: 28 FPH - STRING RPM: 45 - 60 - FLOW: 750 GPM - ON-BTM PSI: 3,650 PSI - ON-BTM TRQ: 7.0 - 11.0 - M/W: IN - 9.4 / 42 - PH: 11 - WOB: 30 - 45 KLBS - MOTOR RPM: 120 - DIFF: 100 - 350 PSI - OFF-BTM PSI: 3,425 PSI - OFF-BTM TRQ: 3.5 - 5.0 - M/W OUT - 9.4 / 43 - PH: 11 - FORMATION DRILLED: BRUSHY CANYON FORMATION.
18:00	22:00	4.00	Drilling	DRILLED 12.25" VERTICAL SECTION F/ 7,966' T/ 8,048' - 101' - AROP: 25 FPH - STRING RPM: 45 - 80 - FLOW: 650 - 750 GPM - ON-BTM PSI: 3,500 PSI - ON-BTM TRQ: 7.5 - 9.5 - M/W: IN - 9.4 / 75 - PH: 11 - WOB: 25 - 45 KLBS - MOTOR RPM: 104 - 120 - DIFF: 150 - 300 PSI - OFF-BTM PSI: 3,350 PSI - OFF-BTM TRQ: 3.5 - 5.0 - M/W OUT - 9.4 / 41 - PH: 11 - FORMATION DRILLED: BRUSHY CANYON FORMATION.
22:00	00:30	2.50	Drilling	DRILLED 12.25" VERTICAL SECTION F/ 8,048' T/ 8,117' - 69' - AROP: 28 FPH - STRING RPM: 45 - 80 - FLOW: 650 - 800 GPM - ON-BTM PSI: 3,650 PSI - ON-BTM TRQ: 7.0 - 9.5 - M/W: IN - 9.4 / 53 - PH: 10.5 - WOB: 30 - 45 KLBS - MOTOR RPM: 104 - 128 - DIFF: 100 - 300 PSI - OFF-BTM PSI: 3,425 PSI - OFF-BTM TRQ: 3.5 - 5.5 - M/W OUT - 9.4 / 43 - PH: 11 - FORMATION DRILLED: BRUSHY CANYON FORMATION.

				WHILE DRILLING AHEAD THE TOP DRIVE STOPPED ROTATING. SCAN CALLED ELECTRICIAN OUT TO TROUBLE SHOOT THE PROBLEM, THEY FOUND THAT THE 19 PIN PLUG ON THE SERVICE LOOP HOOKED TO THE TOP DRIVE LOST CONNECTION. REPLACED THE PLUG, CLEANED CONNECTIONS AND REST THE BREAKER IN THE VFD HOUSE AND TOP DRIVE STARTED ROTATING.
00:30	04:00	3.50	UnPlanned	NOTE: WHILE WORKING ON THE TOP DRIVE THE DRILL WORKED THE STRING 60' WITH 400 GPM.
04:00	06:00	2.00	Drilling	DRILLED 12.25" VERTICAL SECTION F/ 8,117' T/ 8,159' - 42' - AROP: 21 FPH - STRING RPM: 45 - 80 - FLOW: 750 - 800 GPM - ON-BTM PSI: 3,675 PSI - ON-BTM TRQ: 6.0 - 9.5 - M/W: IN - 9.4 / 45 - PH: 11 - WOB: 25 - 45 KLBS - MOTOR RPM: 120 - 128 - DIFF: 100 - 250 PSI - OFF-BTM PSI: 3,450 PSI - OFF-BTM TRQ: 3.5 - 5.0 - M/W OUT - 9.4 / 42 - PH: 11 - FORMATION DRILLED: BRUSHY CANYON FORMATION.

	Daily Cost Report		Well Name:	RK-UTL 3031B-17-1H
			Report Date:	08/30/2016
			Daily Cost	\$26,407
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H) Down 3.5 Hr.	\$11,958	\$143,042
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey			\$5,500
830.060	Bits, Tools, Stabalizers			\$15,000
830.065	Fuel, Power			\$50,473
830.070	Equipment Rental		\$1,577	\$34,824
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$6,564	\$102,442
830.080	Mud Logging		\$1,800	\$9,000
830.090	Core Analysis			
830.095	Openhole Logging			
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor		\$708	\$14,176
830.160	Fishing Services			
830.165	Drill Water			\$36,300
830.175	Supervision		\$3,800	\$30,400
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$4,489
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$26,407	\$650,124
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$26,407	\$717,292
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name

RK-UTL 3031B-17-1H

Report Date

08/31/2016

API

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	12
Location		Supervisor 2		DFS	8
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLOOK.COM	AFE	
KB		Daily Footage	201	Daily Cost	\$53,995.14
Depth (MD)	8,360	TVD at Bit	8,360	Cum. Cost	\$771,287.48
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		930'	

Mud Properties

Type	MMO
Weight	9.45
FV	46
PV	4
YP	19
LCM (ppb)	0.25
Chlorides	74000
% Solids	4.14
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi
8,300'	1.70°	327.20°

BHA

Component	Length	ID	OD
Drill Bit	1.00'	2.00	8.75
Motor	35.18'	2.75	7.00
Shock Sub	11.50'	2.50	6.38
Stabilizer	6.32'	2.56	6.56
Sub	3.67'	2.88	6.63
Monel Collar	27.96'	2.88	6.50
Monel Collar	28.29'	2.88	6.50
Drill Collar	260.52'	2.50	6.50
X-Over	3.60'	2.50	6.38
Drill Pipe	737.83'	2.94	6.50
Total Length:	1115.87		


Bit Info

Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
1	17.5	Smith	506		22, 22, 22	100'	929'	829'			----I-X--TD
2	12.25	SMITH	STING BLADE	JM2300	6X12	972'	7,448'	6,476'	96.0	67.0	2-7-BT-S-I-X-CR-ROP
3	12.25	SMITH	SDSI 616 MEPX	JM1328	6X12	7,448'	8,220'	772'	29.8	26.0	2-4-BT-SH-I-X-CT-ROP
4	8.75	SMITH	Z713	JM0172	7X12	8,220'		135'	6.0	23.0	-----

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
				DRILLED 12.25" VERTICAL SECTION F/ 8,159' T/ 8,170' - 11'
				- AROP: 22 FPH - WOB: 35 - 40 KLBS - STRING RPM: 60 - 70 - MOTOR RPM: 128 - FLOW: 800 GPM - DIFF: 150 - 275 PSI - ON-BTM PSI: 3,875 PSI - OFF-BTM PSI: 3,625 PSI - ON-BTM TRQ: 6.0 - 9.5 - OFF-BTM TRQ: 2.5 - 4.0 - M/W: IN - 9.4+ / 42 - PH: 11 - M/W OUT - 9.4+ / 43 - PH: 11
06:00	06:30	0.50	Drilling	- FORMATION DRILLED: BRUSHY CANYON FORMATION.
06:30	07:00	0.50	Planned	PERFORMED RIG AND TOP DRIVE SERVICE
				DRILLED 12.25" VERTICAL SECTION F/ 8,170' T/ 8,220' - 50'
				- AROP: 18 FPH - WOB: 35 - 40 KLBS - STRING RPM: 60 - 70 - MOTOR RPM: 112 - 128 - FLOW: 700 - 750 GPM - DIFF: 150 - 275 PSI - ON-BTM PSI: 3,475 PSI - OFF-BTM PSI: 3,300 PSI - ON-BTM TRQ: 7.0 - 9.5 - OFF-BTM TRQ: 2.5 - 4.0 - M/W: IN - 9.3 / 43 - PH: 11 - M/W OUT - 9.4+ / 42 - PH: 11
07:00	09:45	2.75	Drilling	- FORMATION DRILLED: BRUSHY CANYON FORMATION.
09:45	10:15	0.50	Planned	CIRCULATED AND MOVED THE PIPE WHILE BUILDING A PILL AND FILLING TRIP TANKS. FLOW CHECKED - WELL STATIC AND PUMPED A PILL.
				TRIPPED OUT OF THE HOLE WITH 4.5" DRILL PIPE FROM 8,120' TO 2,525'
				MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 36.3 BBLS - ACTUAL FILL: 31 BBLS
				- AVERAGE TRIP SPEED: 2,025 FPH
				- HOLE CONDITIONS: GOOD, NO OVER PULL SEEN.
10:15	13:00	2.75	Planned	NOTE: PULLED ROTATING HEAD AT 2,525', CONDUCTED FLOW CHECK - WELL STATIC AND SWITCHED OVER TO 5" HANDLING EQUIPMENT
				TRIPPED OUT OF THE HOLE WITH 5" DRILL PIPE FROM 2,525' TO 953' - BHA
				MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 14.1 BBLS - ACTUAL FILL: 16 BBLS
				- AVERAGE TRIP SPEED: 3,150' FPH
13:00	13:30	0.50	Planned	- HOLE CONDITIONS: GOOD, NO OVER PULL SEEN
				HELD PJSM WITH RIG CREW ON HANDLING AND CHANGING OUT BHA'S
				- STOOD BACK 6 STANDS OF 5" HWD, 3 STANDS OF 6.5" DRILL COLLARS AND 1 STAND OF 8" DRILL COLLARS - PICKED UP STAB, SHOCK SUB AND MOTOR, CHECKED THE BIT - BIT WAS NOT DBR. DRAINED MOTOR, BROKE THE BIT OFF AND LAID DOWN MOTOR, SHOCK SUB AND STAB. - RAN THE STAND OF 8" DRILL COLLARS BACK IN THE HOLE AND LAID THEM DOWN.
				MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 30.9 BBLS - ACTUAL FILL: 32 BBLS
13:30	16:30	3.00	Planned	NOTE: FUNCTION TESTED BLIND RAMS.

16:30	20:00	3.50	Planned	<p>HELD PJSM WITH RIG CREW ON PICKING UP NEW BHA.</p> <p>PICKING UP 8.75" VERTICAL BHA #3 AS FOLLOWS:</p> <p>- 8.75" BIT (SMITH) Z713 WITH 7X12'S</p> <p>- 7" MOTOR (HUNTING 7/8, 3.5, 0.15 RPG)</p> <p>- SHOCK SUB</p> <p>- 8.5" STAB</p> <p>- UBHO SUB</p> <p>- 2 - MONELS</p> <p>- 3 STANDS OF 6 1/2" DRILL COLLARS</p> <p>- X-O</p> <p>- 8 STANDS OF 5" HWDP</p> <p>NOTE: SURFACE TESTED MWD TOOLS - TESTED GOOD</p> <p>NOTE: PICKED UP 6 MORE JOINTS OF 5" HWDP FOR A TOTAL OF 8 STANDS.</p>
20:00	23:30	3.50	Planned	<p>TRIPPED IN THE HOLE WITH 5" AND 4.5" DRILL PIPE F/ 1,115' T/ 8,130' - 7,015'</p> <p>AVERAGE TRIP SPEED: 2,350' FPH</p> <p>MOMITORING DISPLACEMENT ON TRIP TANKS</p> <p>- CALCULATED DISPLACMENT: 118.7 BBLs.</p> <p>- ACTUAL DISPLACMENT: 110 BBLs.</p> <p>- FILL PIPE EVERY 30 STANDS.</p> <p>NOTE: CHECKED MWD TOOL EVRY TIME WE FILL PIPE TO MAKE SURE IT WAS STILL PULSING.</p> <p>NOTE: INSTALLED THE ROTATING RUBBER AND CHANGE OVER TO 4.5" HANDLING TOOLS AT 2,525'</p> <p>NOTE: CONDUCTED A TRIP BOP DRILL WITH NIGHT CREW.</p>
23:30	00:00	0.50	Planned	<p>WASHED AND REAMED THE LAST STAND DOWN F/ 8,130' T/ 8,220'</p> <p>CIRCULATED BOTTOMS UP TO CATCH THE HEAVY MUD.</p>
00:00	03:00	3.00	Drilling	<p>DRILLED 12.25" VERTICAL SECTION F/ 8,220' T/ 8,289' - 69'</p> <p>- AROP: 23 FPH</p> <p>- STRING RPM: 50 - 65</p> <p>- FLOW: 600 GPM</p> <p>- ON-BTM PSI: 2,800 PSI</p> <p>- ON-BTM TRQ: 5.0 - 6.5</p> <p>- M/W: IN - 9.2 / 70 - PH: 11</p> <p>- WOB: 15 - 25 KLBS</p> <p>- MOTOR RPM: 112 - 128</p> <p>- DIFF: 150 - 350 PSI</p> <p>- OFF-BTM PSI: 2,625 PSI</p> <p>- OFF-BTM TRQ: 2.0 - 3.5</p> <p>- M/W OUT - 9.4 / 42 - PH: 11</p> <p>- FORMATION DRILLED: BRUSHY CANYON FORMATION.</p>
03:00	06:00	3.00	Drilling	<p>DRILLED 12.25" VERTICAL SECTION F/ 8,289' T/ 8,360' - 71'</p> <p>- AROP: 24 FPH</p> <p>- STRING RPM: 65</p> <p>- FLOW: 600 GPM</p> <p>- ON-BTM PSI: 2,900 PSI</p> <p>- ON-BTM TRQ: 5.5 - 7.0</p> <p>- M/W: IN - 9.4+ / 46 - PH: 11</p> <p>- WOB: 20 - 25 KLBS</p> <p>- MOTOR RPM: 90</p> <p>- DIFF: 150 - 250 PSI</p> <p>- OFF-BTM PSI: 2,725 PSI</p> <p>- OFF-BTM TRQ: 2.0 - 3.5</p> <p>- M/W OUT - 9.4+ / 42 - PH: 11</p> <p>SURVEY AT: 8,225', INC - 1.7°, AZM - 327.2°, TVD - 8,223.79'</p> <p>- FORMATION DRILLED: BRUSHY CANYON FORMATION.</p>
Total Hours:		24		
24 Hour Activity Summary:				
DRILLED AHEAD TO 8,220' P.O.O.H., CHANGED TO 8.75" BHA, T.I.H. AND DRILLED THE 8.75" VERTICAL SECTION				
24 Hour Plan Forward:				
DRILL AHEAD IN THE VERTICAL SECTION				
Safety				
Fuel				
Last BOP Test	08/22/2016	Last BOP Drill	08/30/2016	Last Function Test
				8/28/2016
Diesel Used		1,946	Diesel Recvd	
			Diesel on Loc	
			7,765	

		Daily Cost Report			Well Name:	RK-UTL 3031B-17-1H
					Report Date:	08/31/2016
					Daily Cost	\$53,995
Intangible Costs						
Code	Description	Comments	Daily	Cum		
830.010	Permits, Licenses, ect			\$3,500		
830.020	Staking & Surveying			\$3,000		
830.030	Road, Locations			\$60,500		
830.035	Mobilization/Demobilization			\$100,000		
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$157,042		
830.050	Mouse/Rathole/Conduct Pipe			\$12,000		
830.055	Directional Drilling & Survey		\$1,100	\$6,600		
830.060	Bits, Tools, Stabalizers		\$11,500	\$26,500		
830.065	Fuel, Power			\$50,473		
830.070	Equipment Rental		\$6,752	\$41,576		
830.071	Hot Shot Trucking			\$3,763		
830.075	Mud & Chemicals		\$14,888	\$117,330		
830.080	Mud Logging		\$1,800	\$10,800		
830.090	Core Analysis					
830.095	Openhole Logging					
830.100	Cement Services			\$18,864		
830.110	Casing Crew & Equipment			\$2,852		
830.120	Contract Labor			\$14,176		
830.160	Fishing Services					
830.165	Drill Water			\$36,300		
830.175	Supervision		\$3,800	\$34,200		
830.185	Insurance					
830.190	Legal					
830.195	P&A/TA Costs		\$155	\$4,644		
840.100	Cement Services (4-1/2" Liner)					
Total Intangible			\$53,995	\$704,119		
Tangible Costs						
Code	Description	Comments	Daily	Cum		
850.010	Conductor Casing - 13-3/8"			\$17,169		
850.015	Surface Casing - 9-5/8"					
850.120	Intermediate Casing - 7"					
850.145	Wellhead Equipment			\$50,000		
850.150	Float equipment, Centralizers & DVT					
850.275	Tangible Contingency					
860.030	Production Casing - 4-1/2"					
860.035	Liner Hanger - 4-1/2"					
Total Tangible				\$67,169		
Total Costs			\$53,995	\$771,287		
WellEz Information Management Ver4.21.14bg						



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/01/2016

API

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	13
Location		Supervisor 2	DENNY HOWARD	DFS	9
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	636	Daily Cost	\$45,540.90
Depth (MD)	8,996	TVD at Bit	8,996	Cum. Cost	\$821,628.38
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		930'	

Mud Properties

Type	MMO
Weight	9.4
FV	46
PV	8
YP	16
LCM (ppb)	0.25
Chlorides	85000
% Solids	3.46
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi
8,886'	2.20°	356.40°

Drilling Parameters

Max WOB	35
Max RPM	65
Max Torque	9474
Max Pull	230
Bkgrnd Gas	225
Max Gas	300
Cnx Gas	300
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	1.00'	2.00	8.75
Motor	35.18'	2.75	7.00
Shock Sub	11.50'	2.50	6.38
Stabilizer	6.32'	2.56	6.56
Sub	3.67'	2.88	6.63
Monel Collar	27.96'	2.88	6.50
Monel Collar	28.29'	2.88	6.50
Drill Collar	260.52'	2.50	6.50
X-Over	3.60'	2.50	6.38
Drill Pipe	737.83'	2.94	6.50
Total Length:	1115.87		


Bit Info


Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
1	17.5	Smith	506		22, 22, 22	100'	929'	829'			----I-X-TD
2	12.25	SMITH	STING BLADE	JM2300	6X12	972'	7,448'	6,476'	96.0	67.0	2-7-BT-S-I-X-CR-ROP
3	12.25	SMITH	SDSI 616 MEPX	JM1328	6X12	7,448'	8,220'	772'	29.8	26.0	2-4-BT-SH-I-X-CT-ROP
4	8.75	SMITH	Z713	JM0172	7X12	8,220'		771'	29.5	26.0	-----

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	10:00	4.00	Drilling	<p>DRILLED 8.75" VERTICAL SECTION F/ 8,360' T/ 8,467' - 107'</p> <p>- AROP: 27 FPH - WOB: 20 - 30 KLBS - STRING RPM: 55 - 70 - MOTOR RPM: 82 - 90 - FLOW: 550 - 600 GPM - DIFF: 150 - 250 PSI - ON-BTM PSI: 2,550 PSI - OFF-BTM PSI: 2,275 PSI - ON-BTM TRQ: 5.5 - 7.0 - OFF-BTM TRQ: 2.0 - 3.5 - M/W: IN - 9.4+ / 45 - PH: 10 - M/W OUT - 9.4+ / 43 - PH: 10 - BBG GAS: 100 - CONNECTION GAS: 115</p> <p>SURVEY AT: 8,320', INC - 1.6°, AZM - 338.20°, TVD - 8,318.75'</p> <p>- FORMATION DRILLED: BRUSHY CANYON FORMATION.</p> <p>NOTE: HAD TO RE-LOG FROM 8,301 TO 8,355'</p>
10:00	13:30	3.50	Drilling	<p>DRILLED 8.75" VERTICAL SECTION F/ 8,467' T/ 8,584' - 117'</p> <p>- AROP: 33 FPH - WOB: 20 - 32 KLBS - STRING RPM: 35 - 75 - MOTOR RPM: 82 - FLOW: 550 GPM - DIFF: 200 - 350 PSI - ON-BTM PSI: 2,600 PSI - OFF-BTM PSI: 2,450 PSI - ON-BTM TRQ: 5.5 - 7.5 - OFF-BTM TRQ: 2.5 - 3.5 - M/W: IN - 9.4+ / 44 - PH: 10 - M/W OUT - 9.4+ / 43 - PH: 10 - BBG GAS: 225 - CONNECTION GAS: 300</p> <p>SURVEY AT: 8,509', INC - 1.8°, AZM - 346.40°, TVD - 8,507.67'</p> <p>- FORMATION DRILLED: BRUSHY CANYON AND 1ST BONE SPRING LIME FORMATIONS.</p> <p>NOTE: 1ST BONE SPRINGS LIME FORMATION CAME IN AT 8,511'</p>
13:30	14:00	0.50	Planned	<p>PERFORMED RIG AND TOP DRIVE SERVICE.</p> <p>NOTE: GOT SPR'S FROM PUMPS #1 AND #2.</p>
14:00	18:00	4.00	Drilling	<p>DRILLED 8.75" VERTICAL SECTION F/ 8,584' T/ 8,740' - 156'</p> <p>- AROP: 39 FPH - WOB: 20 - 32 KLBS - STRING RPM: 35 - 75 - MOTOR RPM: 82 - FLOW: 550 GPM - DIFF: 150 - 350 PSI - ON-BTM PSI: 2,575 PSI - OFF-BTM PSI: 2,350 PSI - ON-BTM TRQ: 5.5 - 7.5 - OFF-BTM TRQ: 2.5 - 3.5 - M/W: IN - 9.4+ / 44 - PH: 10 - M/W OUT - 9.4+ / 43 - PH: 10 - BBG GAS: 225 - CONNECTION GAS: 300</p> <p>SURVEY AT: 8,665', INC - 1.8°, AZM - 346.40°, TVD - 8,738.67'</p> <p>- FORMATION DRILLED: 1ST BONE SPRING LIME FORMATION.</p> <p>NOTE: SAMPLE AT 8,690' SHOWS 70% LS AND 30% SH</p>

				DRILLED 8.75" VERTICAL SECTION F/ 8,740' T/ 8,856' - 116'
				- AROP: 30 FPH - STRING RPM: 35 - 75 - FLOW: 550 GPM - ON-BTM PSI: 2,650 PSI - ON-BTM TRQ: 5.5 - 7.0 - M/W: IN - 9.5 / 47 - PH: 10 - BBG GAS: 125
				- WOB: 20 - 35 KLBS - MOTOR RPM: 82 - DIFF: 100 - 300 PSI - OFF-BTM PSI: 2,425 PSI - OFF-BTM TRQ: 2.5 - 3.5 - M/W OUT - 9.4+ / 42 - PH: 10 - CONNECTION GAS: 263
				SURVEY AT: 8,698', INC - 1.7°, AZM - 339.30°, TVD - 8,696.67'
				- FORMATION DRILLED: 1ST BONE SPRING LIME FORMATION.
				NOTE: SAMPLE AT 8,840' SHOWS 75% LS, 15% SH AND 10% CHRT
18:00	22:00	4.00	Drilling	
				DRILLED 8.75" VERTICAL SECTION F/ 8,856' T/ 8,927' - 71'
				- AROP: 18 FPH - STRING RPM: 35 - 75 - FLOW: 550 GPM - ON-BTM PSI: 2,650 PSI - ON-BTM TRQ: 5.5 - 7.0 - M/W: IN - 9.5 / 47 - PH: 10 - BBG GAS: 125
				- WOB: 20 - 35 KLBS - MOTOR RPM: 82 - DIFF: 100 - 300 PSI - OFF-BTM PSI: 2,425 PSI - OFF-BTM TRQ: 2.5 - 3.5 - M/W OUT - 9.4+ / 42 - PH: 10 - CONNECTION GAS: 263
				SURVEY AT: 8,792', INC - 2.2°, AZM - 352.8°, TVD - 8,790.53'
				- FORMATION DRILLED: 1ST BONE SPRING LIME FORMATION.
				NOTE: SAMPLE AT 8,840' SHOWS 75% LS, 15% SH AND 10% CHRT
22:00	02:00	4.00	Drilling	
				DRILLED 8.75" VERTICAL SECTION F/ 8,927' T/ 8,996' - 73'
				- AROP: 18 FPH - STRING RPM: 35 - 75 - FLOW: 550 - 600 GPM - ON-BTM PSI: 2,675 PSI - ON-BTM TRQ: 7.5 - 10.0 - M/W: IN - 9.5 / 56 - PH: 10.5 - BBG GAS: 75
				- WOB: 20 - 30 KLBS - MOTOR RPM: 82 - 90 - DIFF: 150 - 350 PSI - OFF-BTM PSI: 2,450 PSI - OFF-BTM TRQ: 3.0 - 4.5 - M/W OUT - 9.4+ / 48 - PH: 10 - CONNECTION GAS: 125
				SURVEY AT: 8,886', INC - 2.2°, AZM - 356.4 °, TVD - 8,884.46'
				- FORMATION DRILLED: 1ST BONE SPRING LIME FORMATION.
				NOTE: SAMPLE AT 8,960' SHOWS 80% LS, 5% SH AND 15% CHRT
02:00	06:00	4.00	Drilling	
Total Hours:	24			
24 Hour Activity Summary:				
DRILL AHEAD IN THE VERTICAL SECTION				
24 Hour Plan Forward:				
DRILL AHEAD IN THE VERTICAL SECTION				
Safety			Fuel	
Last BOP Test	08/22/2016	Last BOP Drill	08/31/2016	Last Function Test
Diesel Used	2,213	Diesel Recvd	7,200	Diesel on Loc

	Daily Cost Report		Well Name:	RK-UTL 3031B-17-1H
			Report Date:	09/01/2016
			Daily Cost	\$45,541
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$171,042
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey		\$1,100	\$7,700
830.060	Bits, Tools, Stabalizers			\$26,500
830.065	Fuel, Power		\$13,493	\$63,966
830.070	Equipment Rental		\$3,099	\$49,475
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$8,249	\$125,579
830.080	Mud Logging		\$1,800	\$12,600
830.090	Core Analysis			
830.095	Openhole Logging			
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor			\$14,176
830.160	Fishing Services			
830.165	Drill Water			\$36,300
830.175	Supervision		\$3,800	\$38,000
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$4,644
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$45,541	\$754,460
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$45,541	\$821,628
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name

RK-UTL 3031B-17-1H

Report Date

09/02/2016

API

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	14
Location		Supervisor 2		DFS	10
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLOOK.COM	AFE	
KB		Daily Footage	384	Daily Cost	\$55,666.72
Depth (MD)	9,380	TVD at Bit	9,380	Cum. Cost	\$877,895.10
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		930'	

Mud Properties

Type	MMO
Weight	9.5
FV	48
PV	8
YP	19
LCM (ppb)	0.5
Chlorides	85000
% Solids	4.19
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi
9,170'	1.70°	15.40°

Drilling Parameters

Max WOB	30
Max RPM	50
Max Torque	9.5
Max Pull	230
Bkgrnd Gas	125
Max Gas	909
Cnx Gas	176
Trip Gas	1115

BHA

Component	Length	ID	OD
Drill Bit	1.00'	2.00	8.75
Motor	35.18'	2.75	7.00
Shock Sub	11.50'	2.50	6.38
Stabilizer	6.32'	2.56	6.56
Sub	3.67'	2.88	6.63
Monel Collar	27.96'	2.88	6.50
Monel Collar	28.29'	2.88	6.50
Drill Collar	260.52'	2.50	6.50
X-Over	3.60'	2.50	6.38
Drill Pipe	737.83'	2.94	6.50
Total Length:	1115.87		

Bit Info

Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
1	17.5	Smith	506		22, 22, 22	100'	929'	829'			----I-X--TD
2	12.25	SMITH	STING BLADE	JM2300	6X12	972'	7,448'	6,476'	96.0	67.0	2-7-BT-S-I-X-CR-ROP
3	12.25	SMITH	SDSI 616 MEPX	JM1328	6X12	7,448'	8,220'	772'	29.8	26.0	2-4-BT-SH-I-X-CT-ROP
4	8.75	SMITH	Z713	JM0172	7X12	8,220'	9,018'	798'	31.0	26.0	2-2-CT-A-I-X-WT-ROP

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	07:30	1.50	Drilling	DRILLED 8.75" VERTICAL SECTION F/ 8,996' T/ 9,018' - 22' - AROP: 15 FPH - STRING RPM: 35 - 75 - FLOW: 550 GPM - ON-BTM PSI: 2,725 PSI - ON-BTM TRQ: 6.5 - 10.0 - M/W: IN - 9.5 / 82 - PH: 11 - BBG GAS: 100 - WOB: 20 - 25 KLBS - MOTOR RPM: 82 - DIFF: 100 - 300 PSI - OFF-BTM PSI: 2,475 PSI - OFF-BTM TRQ: 3.0 - 4.5 - M/W OUT - 9.4+ / 52 - PH: 10.5 - CONNECTION GAS: 140 SURVEY AT: 8,886", INC - 2.2°, AZM - 356.4 °, TVD - 8,884.46' - FORMATION DRILLED: 1ST BONE SPRING LIME FORMATION. NOTE: SAMPLE AT 8,990' SHOWS 70% LS, 20% SH AND 10% CHRT
07:30	08:15	0.75	Planned	CIRCULATED AND MOVED THE PIPE WHILE BUILDING A PILL AND FILLING TRIP TANKS. FLOW CHECKED - WELL STATIC AND PUMPED A PILL.
08:15	10:45	2.50	Planned	TRIPPED OUT OF THE HOLE WITH 4.5" DRILL PIPE FROM 9,018' TO 2,625' MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 42.2 BBLS - ACTUAL FILL: 39 BBLS - AVERAGE TRIP SPEED: 2,600 FPH - HOLE CONDITIONS: GOOD, NO OVER PULL SEEN. NOTE: PULLED ROTATING HEAD AT 2,525', CONDUCTED FLOW CHECK - WELL STATIC AND SWITCHED OVER TO 5" HANDLING EQUIPMENT
10:45	11:15	0.50	UnPlanned	HAD TO REPLACE THE CLAMP HYD. LINE TO THE ST-80
11:15	11:45	0.50	Planned	TRIPPED OUT OF THE HOLE WITH 5" DRILL PIPE FROM 2,625' TO 1,115' - BHA MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 14.1 BBLS - ACTUAL FILL: 17 BBLS - AVERAGE TRIP SPEED: 3,025' FPH - HOLE CONDITIONS: GOOD, NO OVER PULL SEEN
11:45	13:45	2.00	Planned	HELD PJSM WITH RIG CREW ON HANDLING AND CHANGING OUT BHA'S - STOOD BACK 6 STANDS OF 5" HWDP AN3 STANDS OF 6.5" DRILL COLLARS - PICKED UP TO TOP MONEL, BROKE IT OFF, PULLED MWD TOOL AND LAID THE MONEL DOWN. PICKED UP LOWER MONEL, STAB, SHOCK SUB AND MOTOR, DRAINED AND CHECK THE MOTOR - MOTOR TESTED GOOD AND BROKE THE BIT OFF. MADE UP NEW BIT, INSTALLED MWD TOOL, PICKED UP TOP MONEL. MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 23.5 BBLS - ACTUAL FILL: 26 BBLS NOTE: FUNCTION TESTED BLIND RAMS.
13:45	14:30	0.75	UnPlanned	TOP DRIVE LINK TILT BLEW A HYD. LINE. REPLACED HYD. LINE AND CHANGED OUT ACTUATOR ON THE IBOP.
14:30	15:00	0.50	Planned	FINISHED TRIPPING IN THE HOLE WITH BHA F/ 114' T/ 1,115' MOMITORING DISPLACEMENT ON TRIP TANKS - CALCULATED DISPLACEMENT: 24 BBLS. - ACTUAL DISPLACEMENT: 27 BBLS.

				TRIPPED IN THE HOLE WITH 5" AND 4.5" DRILL PIPE F/ 1,115' T/ 8,953' - 7,838' AVERAGE TRIP SPEED: 2,615' FPH MOMITORING DISPLACEMENT ON TRIP TANKS - CALCULATED DISPLACEMENT: 118.7 BBLS. - ACTUAL DISPLACEMENT: 110 BBLS. - FILL PIPE EVERY 30 STANDS. NOTE: CHECKED MWD TOOL EVRY TIME WE FILL PIPE TO MAKE SURE IT WAS STILL PULSING. NOTE: INSTALLED THE ROTATING RUBBER AND CHANGE OVER TO 4.5" HANDLING TOOLS AT 2,525' NOTE: CONDUCTED A TRIP BOP DRILL WITH NIGHT CREW.
15:00	18:00	3.00	Planned	
18:00	18:30	0.50	Planned	WASHED AND REAMED THE LAST 60' DOWN F/ 8,960' T/ 9,020' CIRCULATED TO CATCH THE HEAVY MUD.
18:30	22:30	4.00	Drilling	DRILLED 8.75" VERTICAL SECTION F/ 9,020' T/ 9,153' - 133' - AROP: 34 FPH - STRING RPM: 30 - 55 - FLOW: 600 - 650 GPM - ON-BTM PSI: 3,750 PSI - ON-BTM TRQ: 5.0 - 8.0 - M/W: IN - 9.5+ / 55 - PH: 10.5 - BBG GAS: 225 - WOB: 25 - 35 KLBS - MOTOR RPM: 90 - 97 - DIFF: 100 - 250 PSI - OFF-BTM PSI: 3,475 PSI - OFF-BTM TRQ: 2.0 - 3.5 - M/W OUT - 9.4+ / 52 - PH: 10.5 - CONNECTION GAS: 350 SURVEY AT: 8,981', INC - 1.9°, AZM - 1.6 °, TVD - 8,979.40' - FORMATION DRILLED: 1ST BONE SPRING LIME FORMATION. NOTE: SAMPLE AT 9,080' SHOWS 60% LS AND 40% SH
22:30	02:30	4.00	Drilling	DRILLED 8.75" VERTICAL SECTION F/ 9,153' T/ 9,291' - 138' - AROP: 35 FPH - STRING RPM: 40 - 60 - FLOW: 650 GPM - ON-BTM PSI: 3,825 PSI - ON-BTM TRQ: 6.5 - 9.0 - M/W: IN - 9.5 / 46 - PH: 11 - BBG GAS: 100 - WOB: 30 - 40 KLBS - MOTOR RPM: 97 - DIFF: 100 - 300 PSI - OFF-BTM PSI: 3,525 PSI - OFF-BTM TRQ: 2.5 - 3.5 - M/W OUT - 9.4 / 42 - PH: 10.5 - CONNECTION GAS: 250 SURVEY AT: 9,076', INC - 2.0°, AZM - 2.0 °, TVD - 9,074.35' - FORMATION DRILLED: 1ST BONE SPRING LIME FORMATION. NOTE: SAMPLE AT 9,230' SHOWS 40% LS, 50% SH AND 10% CHRT
02:30	06:00	3.50	Drilling	DRILLED 8.75" VERTICAL SECTION F/ 9,291' T/ 9,380' - 89' - AROP: 26 FPH - STRING RPM: 40 - 50 - FLOW: 650 GPM - ON-BTM PSI: 3,650 PSI - ON-BTM TRQ: 6.0 - 8.5 - M/W: IN - 9.5 / 48 - PH: 11.5 - BBG GAS: 125 - WOB: 25 - 38 KLBS - MOTOR RPM: 97 - DIFF: 100 - 375 PSI - OFF-BTM PSI: 3,500 PSI - OFF-BTM TRQ: 2.5 - 3.5 - M/W OUT - 9.4+ / 43 - PH: 11.0 - CONNECTION GAS: 175 SURVEY AT: 9,170', INC - 1.7°, AZM - 15.4 °, TVD - 9,168.30' - FORMATION DRILLED: 1ST BONE SPRING LIME FORMATION. NOTE: SAMPLE AT 9,290' SHOWS 65% LS, 20% SH AND 15% CHRT
Total Hours:		24		
24 Hour Activity Summary:				
DRILLED AHEAD, T.O.O.H., CHANGED BHA, T.I.H. AND CONTIUNED DRILLING AHEAD.				
24 Hour Plan Forward:				
DRILL AHEAD IN THE VERTICAL SECTION				
Safety				
Last BOP Test	08/22/2016	Last BOP Drill	09/01/2016	Last Function Test
9/1/2016		Diesel Used		1,996
Diesel Recvd		Diesel on Loc		10,756

	Daily Cost Report		Well Name:	<u>RK-UTL 3031B-17-1H</u>
			Report Date:	<u>09/02/2016</u>
			Daily Cost	<u>\$55,667</u>
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$185,042
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey			\$7,700
830.060	Bits, Tools, Stabalizers		\$9,500	\$36,000
830.065	Fuel, Power		\$1,502	\$65,468
830.070	Equipment Rental		\$7,177	\$57,252
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$17,887	\$143,466
830.080	Mud Logging		\$1,800	\$14,400
830.090	Core Analysis			
830.095	Openhole Logging			
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor			\$14,176
830.160	Fishing Services			
830.165	Drill Water			\$36,300
830.175	Supervision		\$3,800	\$41,800
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$4,644
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$55,667	\$810,726
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$55,667	\$877,895
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/03/2016

API

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	15
Location		Supervisor 2		DFS	11
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	893	Daily Cost	\$50,218.04
Depth (MD)	10,273	TVD at Bit	10,273	Cum. Cost	\$928,113.14
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		930'	

Mud Properties

Type	MMO
Weight	9.5
FV	42
PV	9
YP	15
LCM (ppb)	0.5
Chlorides	82000
% Solids	4.19
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi
10,113'	4.13°	218.90°

Drilling Parameters

Max WOB	40
Max RPM	50
Max Torque	10.5
Max Pull	245
Bkgrnd Gas	250
Max Gas	925
Cnx Gas	650
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	1.00'	2.00	8.75
Motor	35.18'	2.75	7.00
Shock Sub	11.50'	2.50	6.38
Stabilizer	6.32'	2.56	6.56
Sub	3.67'	2.88	6.63
Monel Collar	27.96'	2.88	6.50
Monel Collar	28.29'	2.88	6.50
Drill Collar	260.52'	2.50	6.50
X-Over	3.60'	2.50	6.38
Drill Pipe	737.83'	2.94	6.50
Total Length:	1115.87		

Bit Info

Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
1	17.5	Smith	506		22, 22, 22	100'	929'	829'			----I-X-TD
2	12.25	SMITH	STING BLADE	JM2300	6X12	972'	7,448'	6,476'	96.0	67.0	2-7-BT-S-I-X-CR-ROP
3	12.25	SMITH	SDSI 616 MEPX	JM1328	6X12	7,448'	8,220'	772'	29.8	26.0	2-4-BT-SH-I-X-CT-ROP
4	8.75	SMITH	Z713	JM0172	7X12	8,220'	9,018'	798'	31.0	26.0	2-2-CT-A-I-X-WT-ROP

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	10:00	4.00	Drilling	<p>DRILLED 8.75" VERTICAL SECTION F/ 9,380' T/ 9,520' - 140'</p> <ul style="list-style-type: none"> - AROP: 35 FPH - STRING RPM: 30 - 60 - FLOW: 650 GPM - ON-BTM PSI: 3,750 PSI - ON-BTM TRQ: 7.0 - 9.5 - M/W: IN - 9.5 / 40 - PH: 11.0 - BBG GAS: 125 - WOB: 25 - 38 KLBS - MOTOR RPM: 97 - DIFF: 100 - 375 PSI - OFF-BTM PSI: 3,550 PSI - OFF-BTM TRQ: 2.5 - 3.5 - M/W OUT - 9.5 / 40 - PH: 11.0 - CONNECTION GAS: 350 <p>SURVEY AT: 9,265', INC - 1.9°, AZM - 32.4 °, TVD - 9,263.25'</p> <p>- FORMATION DRILLED: 1ST BONE SPRING LIME AND BONE SPRINGS SAND FORMATION.</p> <p>NOTE: THE BONE SPRING SAND FORMATION CAME IN AT 9,400'</p> <p>NOTE: SAMPLE AT 9,470' SHOWS 90% LS AND 10% SH</p>
10:00	12:45	2.75	Drilling	<p>DRILLED 8.75" VERTICAL SECTION F/ 9,520' T/ 9,624' - 104'</p> <ul style="list-style-type: none"> - AROP: 38 FPH - STRING RPM: 30 - 50 - FLOW: 650 GPM - ON-BTM PSI: 3,950 PSI - ON-BTM TRQ: 7.5 - 10.5 - M/W: IN - 9.6 / 42 - PH: 11.0 - BBG GAS: 225 - WOB: 30 - 35 KLBS - MOTOR RPM: 97 - DIFF: 150 - 325 PSI - OFF-BTM PSI: 3,725 PSI - OFF-BTM TRQ: 3.5 - 4.5 - M/W OUT - 9.5+ / 42 - PH: 11.0 - CONNECTION GAS: 300 <p>SURVEY AT: 9,453', INC - 1.5°, AZM - 38.9 °, TVD - 9,451.15'</p> <p>- FORMATION DRILLED: 1ST BONE SPRINGS SAND FORMATION.</p> <p>NOTE: SAMPLE AT 9,560' SHOWS 60% LS AND 40% SH</p>
12:45	13:15	0.50	Planned	PERFORMED RIG, TOP DRIVE AND DRAW WORK SERVICE.
13:15	17:15	4.00	Drilling	<p>DRILLED 8.75" VERTICAL SECTION F/ 9,624' T/ 9,801' - 177'</p> <ul style="list-style-type: none"> - AROP: 44 FPH - STRING RPM: 35 - 50 - FLOW: 650 GPM - ON-BTM PSI: 4,000 PSI - ON-BTM TRQ: 7.0 - 9.5 - M/W: IN - 9.4 / 47 - PH: 10.0 - BBG GAS: 225 - WOB: 30 - 38 KLBS - MOTOR RPM: 97 - DIFF: 150 - 500 PSI - OFF-BTM PSI: 3,700 PSI - OFF-BTM TRQ: 3.0 - 4.5 - M/W OUT - 9.5 / 42 - PH: 10.0 - CONNECTION GAS: 300 <p>SURVEY AT: 9,641', INC - 0.5°, AZM - 126.62 °, TVD - 9,639.13'</p> <p>- FORMATION DRILLED: 1ST BONE SPRINGS SAND FORMATION.</p> <p>NOTE: SAMPLE AT 9,710' SHOWS 25% LS AND 75% SH</p>

<div></div> <div>Daily Cost Report</div>		Well Name: <u>RK-UTL 3031B-17-1H</u>		
		Report Date: <u>09/03/2016</u>		
		Daily Cost <u>\$50,218</u>		
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$199,042
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey			\$7,700
830.060	Bits, Tools, Stabalizers			\$36,000
830.065	Fuel, Power		\$11,920	\$77,388
830.070	Equipment Rental		\$1,737	\$58,989
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$16,961	\$160,427
830.080	Mud Logging		\$1,800	\$16,200
830.090	Core Analysis			
830.095	Openhole Logging			
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor			\$14,176
830.160	Fishing Services			
830.165	Drill Water			\$36,300
830.175	Supervision		\$3,800	\$45,600
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$4,644
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$50,218	\$860,944
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$50,218	\$928,113
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/04/2016

API

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	16
Location		Supervisor 2		DFS	12
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	327	Daily Cost	\$65,703.20
Depth (MD)	10,600	TVD at Bit	10,600	Cum. Cost	\$996,016.34
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		930'	

Mud Properties

Type	MMO
Weight	9.55
FV	51
PV	10
YP	15
LCM (ppb)	0.5
Chlorides	83000
% Solids	4.29
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi
10,488'	4.60°	239.40°

Drilling Parameters

Max WOB	45
Max RPM	60
Max Torque	10.5
Max Pull	250
Bkgrnd Gas	1262
Max Gas	1873
Cnx Gas	1400
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	1.00'	2.00	8.75
Motor	35.20'	2.75	7.00
Shock Sub	11.50'	2.50	6.38
Stabilizer	6.32'	2.56	6.56
Sub	3.67'	2.88	6.63
Monel Collar	27.96'	2.88	6.50
Monel Collar	28.29'	2.88	6.50
Drill Collar	260.52'	2.50	6.50
X-Over	3.60'	2.50	6.38
Drill Pipe	737.83'	2.94	6.50
Total Length:	1115.89		

Bit Info

Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
1	17.5	Smith	506		22, 22, 22	100'	929'	829'			----I-X-TD
2	12.25	SMITH	STING BLADE	JM2300	6X12	972'	7,448'	6,476'	96.0	67.0	2-7-BT-S-I-X-CR-ROP
3	12.25	SMITH	SDSI 616 MEPX	JM1328	6X12	7,448'	8,220'	772'	29.8	26.0	2-4-BT-SH-I-X-CT-ROP
4	8.75	SMITH	Z713	JM0172	7X12	8,220'	9,018'	798'	31.0	26.0	2-2-CT-A-I-X-WT-ROP

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
				<p>DRILLED 8.75" VERTICAL SECTION F/ 10,273' T/ 10,376' - 103'</p> <p>- AROP: 41 FPH - WOB: 30 - 35 KLBS - STRING RPM: 45 - 50 - MOTOR RPM: 97 - FLOW: 650 GPM - DIFF: 125 - 275 PSI - ON-BTM PSI: 3,725 PSI - OFF-BTM PSI: 3,550 PSI - ON-BTM TRQ: 8.0 - 10.5 - OFF-BTM TRQ: 4.0 - 5.5 - M/W: IN - 9.3+ / 41 - PH: 11.0 - M/W OUT - 9.3+ / 43 - PH: 11.0 - BBG GAS: 625 - CONNECTION GAS: 675</p> <p>SURVEY AT: 10,207', INC - 5.1°, AZM - 223.2 °, TVD - 10,204.61'</p> <p>- FORMATION DRILLED: 2ND BONE SPRINGS LM AND 2ND BONE SPRINGS SAND FORMATIONS.</p> <p>NOTE: THE 2ND BONE SPRINGS SAND TOP CAME IN AT 10,336'</p> <p>NOTE: SAMPLE AT 10,310' SHOWS 90% LS AND 10% SH</p>
06:00	08:30	2.50	Drilling	
08:30	09:00	0.50	Planned	PERFORMED RIG SERVICE - HAD TO TIGHTEN THE GOOSE NECK ON THE STAND PIPE IN THE DERRICK.
				<p>DRILLED 8.75" VERTICAL SECTION F/ 10,376' T/ 10,505' - 129'</p> <p>- AROP: 32 FPH - WOB: 30 - 35 KLBS - STRING RPM: 45 - 65 - MOTOR RPM: 97 - FLOW: 650 GPM - DIFF: 100 - 300 PSI - ON-BTM PSI: 3,900 PSI - OFF-BTM PSI: 3,650 PSI - ON-BTM TRQ: 8.5 - 10.0 - OFF-BTM TRQ: 4.5 - 6.0 - M/W: IN - 9.4+ / 41 - PH: 10.5 - M/W OUT - 9.5 / 43 - PH: 10.5 - BBG GAS: 675 - CONNECTION GAS: 935</p> <p>SURVEY AT: 10,394', INC - 4.7°, AZM - 228.6 °, TVD - 10,390.91'</p> <p>- FORMATION DRILLED: 2ND BONE SPRING SD AND 3RD BONE SPRING LM FORMATIONS.</p> <p>NOTE: THE 3RD BONE SPRING LM TOP CAME IN AT 10,412'</p> <p>NOTE: SAMPLE AT 10,430' SHOWS 75% LS, 20% SH AND 5% DOL</p>
09:00	13:00	4.00	Drilling	
				<p>DRILLED 8.75" VERTICAL SECTION F/ 10,505' T/ 10,576' - 71'</p> <p>- AROP: 18 FPH - WOB: 30 - 45 KLBS - STRING RPM: 30 - 60 - MOTOR RPM: 97 - FLOW: 650 GPM - DIFF: 100 - 425 PSI - ON-BTM PSI: 3,925 PSI - OFF-BTM PSI: 3,675 PSI - ON-BTM TRQ: 7.5 - 9.5 - OFF-BTM TRQ: 4.0 - 5.0 - M/W: IN - 9.4+ / 48 - PH: 10.5 - M/W OUT - 9.4 / 45 - PH: 10.5 - BBG GAS: 475 - CONNECTION GAS: 650</p> <p>SURVEY AT: 10,488', INC - 4.6°, AZM - 239.4 °, TVD - 10,484.61'</p> <p>- FORMATION DRILLED: 3RD BONE SPRING LM FORMATIONS.</p> <p>NOTE: SAMPLE AT 10,550' SHOWS 80% LS, 10% SH AND 10% DOL</p>
13:00	17:00	4.00	Drilling	

				<div>DRILLED 8.75" VERTICAL SECTION F/ 10,576' T/ 10,600' - 24'</div> <div>- AROP: 10 FPH - STRING RPM: 30 - 60 - FLOW: 600 - 650 GPM - ON-BTM PSI: 3,350 PSI - ON-BTM TRQ: 6.0 - 8.0 - M/W: IN - 9.5 / 43 - PH: 10.5 - BBG GAS: 525</div> <div>- WOB: 35 - 45 KLBS - MOTOR RPM: 90 - 97 - DIFF: 100 - 325 PSI - OFF-BTM PSI: 3,225 PSI - OFF-BTM TRQ: 2.0 - 3.0 - M/W OUT - 9.4+ / 40 - PH: 10.5 - CONNECTION GAS: 675</div> <div>- FORMATION DRILLED: 3RD BONE SPRING LM FORMATIONS.</div> <div>NOTE: SAMPLE AT 10,580' SHOWS 80% LS, 10% SH AND 10% DOL</div>
17:00	19:30	2.50	Drilling	
19:30	20:00	0.50	Planned	CIRCULATED AND MOVED THE PIPE WHILE BUILDING A PILL AND FILLING TRIP TANKS. FLOW CHECKED - WELL STATIC AND PUMPED A PILL.
20:00	21:30	1.50	Planned	<div>TRIPPED OUT OF THE HOLE WITH 4.5" DRILL PIPE FROM 10,600' TO 8,350'</div> <div>MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 14.6 BBLS - ACTUAL FILL: 12 BBLS</div> <div>- AVERAGE TRIP SPEED: 2,250 FPH</div> <div>- HOLE CONDITIONS: GOOD, NO OVER PULL SEEN.</div>
21:30	22:30	1.00	Planned	<div>CIRCULATED WHILE MOVING THE DRILL STRING WITH 400 GPM AND 20 RPM, FLOW CHECK - WELL STATC, SET UP AND DROPPED THE GYRO TOOL AND LET IT TIME OUT THEN PUMPED A PILL.</div> <div>NOTE: GYRO SET UP FOR TRUE NORTH AND ON NAD 83. GYRO WILL TAKE SHOTS EVERY 100'</div>
22:30	01:00	2.50	Planned	<div>TRIPPED OUT OF THE HOLE WITH 4.5" DRILL PIPE FROM 8,350' TO 2,625'</div> <div>MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 37.2 BBLS - ACTUAL FILL: 35 BBLS</div> <div>- AVERAGE TRIP SPEED: 2,300' FPH</div> <div>- HOLE CONDITIONS: GOOD, NO OVER PULL SEEN.</div> <div>NOTE: PULLED ROTATING HEAD AT 2,625', CONDUCTED FLOW CHECK - WELL STATIC AND SWITCHED OVER TO 5" HANDLING EQUIPMENT</div>
01:00	01:30	0.50	Planned	<div>TRIPPED OUT OF THE HOLE WITH 5" DRILL PIPE FROM 2,625' TO 1,115' - BHA</div> <div>MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 14.1 BBLS - ACTUAL FILL: 17 BBLS</div> <div>- AVERAGE TRIP SPEED: 3,025' FPH</div> <div>- HOLE CONDITIONS: GOOD, NO OVER PULL SEEN</div>
01:30	04:30	3.00	Planned	<div>HELD PJSM WITH RIG CREW ON HANDLING AND CHANGING OUT BHA'S</div> <div>- STOOD BACK 8 STANDS OF 5" HWDP AND STANDS OF 6.5" DRILL COLLARS - PULLED THE GYRO FROM TOP OF MONELS, PICKED UP TO TOP MONEL, BROKE IT OFF, PULLED MWD TOOL AND LAID THE MONEL DOWN. PICKED UP LOWER MONEL, STAB, SHOCK SUB AND MOTOR - MOTOR SELF DRAINED AND HAD A LITTLE BEARING PLAY. BROKE THE BIT OFF AND FOUND IT DBR. LAID DOWN MOTOR AND BIT. PICKED UP AND MADE UP NEW MOTOR AND ROLLER CONE BIT, INSTALLED MWD TOOL, PICKED UP TOP MONEL.</div> <div>MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 23.5 BBLS - ACTUAL FILL: 26 BBLS</div> <div>NOTE: FUNCTION TESTED BLIND RAMS.</div>
04:30	05:30	1.00	Planned	<div>TRIPPED IN THE HOLE WITH BHA F/ 114' T/ 1,150'</div> <div>MOMITORING DISPLACEMENT ON TRIP TANKS - CALCULATED DISPLACEMENT: 24 BBLS. - ACTUAL DISPLACEMENT: 27 BBLS.</div> <div>NOTE: MADE UP CROSS OVER UP FROM TOP DRIVE TO 5" DP. AND TESTED MWD TOOLS - TESTED GOOD</div>
05:30	06:00	0.50	Planned	HUNG THE BLOCKS AND STARTED TO SLIP AND CUT DRILLING LINE.
Total Hours:		24		
24 Hour Activity Summary:				
DRILLED TO 10,600', P.O.O.H. TO 8,350', DROPPED GYRO, P.O.O.H., CHANGED BHA, T.I.H. TO CASING SHOE, SLIPPED AND CUT				
24 Hour Plan Forward:				
DRILL AHEAD TO KOP, CIRC., DROP GYRO, P.O.O.H., MAKE UP CURVE BHA AND T.I.H.				
Safety				
Last BOP Test	08/22/2016	Last BOP Drill	09/03/2016	Last Function Test
09/03/2016		09/03/2016		09/03/2016
Diesel Used		1.856		Diesel Recvd
Diesel on Loc		13.397		

	Daily Cost Report		Well Name:	<u>RK-UTL 3031B-17-1H</u>
			Report Date:	<u>09/04/2016</u>
			Daily Cost	<u>\$65,703</u>
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$213,042
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey		\$1,100	\$11,000
830.060	Bits, Tools, Stabalizers		\$9,500	\$45,500
830.065	Fuel, Power			\$77,388
830.070	Equipment Rental		\$10,492	\$69,481
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$21,761	\$182,189
830.080	Mud Logging		\$1,800	\$18,000
830.090	Core Analysis			
830.095	Openhole Logging		\$3,250	\$3,250
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor			\$14,176
830.160	Fishing Services			
830.165	Drill Water			\$36,300
830.175	Supervision		\$3,800	\$49,400
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$4,644
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$65,703	\$928,848
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$65,703	\$996,016
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/05/2016

API

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	17
Location		Supervisor 2		DFS	13
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	175	Daily Cost	\$29,616.52
Depth (MD)	10,775	TVD at Bit	10,775	Cum. Cost	\$1,056,878.92
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		930'	

Mud Properties

Type	MMO
Weight	9.6
FV	46
PV	11
YP	15
LCM (ppb)	0.25
Chlorides	104000
% Solids	3.25
Daily Losses	
Total Losses	0

Last Survey

Depth	Inc	Azi
10,677'	4.20°	245.60°

Drilling Parameters

Max WOB	50
Max RPM	135
Max Torque	10.5
Max Pull	255
Bkgrnd Gas	650
Max Gas	1320
Cnx Gas	1250
Trip Gas	6025

BHA

Component	Length	ID	OD
Drill Bit	1.00'	2.00	8.75
Motor	35.20'	2.75	7.00
Shock Sub	11.50'	2.50	6.38
Stabilizer	6.32'	2.56	6.56
Sub	3.67'	2.88	6.63
Monel Collar	27.96'	2.88	6.50
Monel Collar	28.29'	2.88	6.50
Drill Collar	260.52'	2.50	6.50
X-Over	3.60'	2.50	6.38
Drill Pipe	737.83'	2.94	6.50
Total Length:	1115.89		

Bit Info

Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
1	17.5	Smith	506		22, 22, 22	100'	929'	829'			----I-X-TD
2	12.25	SMITH	STING BLADE	JM2300	6X12	972'	7,448'	6,476'	96.0	67.0	2-7-BT-S-I-X-CR-ROP
3	12.25	SMITH	SDSI 616 MEPX	JM1328	6X12	7,448'	8,220'	772'	29.8	26.0	2-4-BT-SH-I-X-CT-ROP
4	8.75	SMITH	Z713	JM0172	7X12	8,220'	9,018'	798'	31.0	26.0	2-2-CT-A-I-X-WT-ROP

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	11:00	5.00	Planned	<p>TRIPPED IN THE HOLE WITH 5" AND 4.5" DRILL PIPE F/ 1,150' T/ 10,540' - 9,357'</p> <p>MONITORING DISPLACEMENT ON TRIP TANKS - CALCULATED DISPLACEMENT: 184 BBLS. - ACTUAL DISPLACEMENT: 191 BBLS.</p> <p>AVERAGE TRIP SPEED: 1,875' FPH</p> <p>- FILL PIPE EVERY 30 STANDS.</p> <p>NOTE: CHECKED MWD TOOL EVERY TIME WE FILL PIPE TO MAKE SURE IT WAS STILL PULSING.</p> <p>NOTE: INSTALLED THE ROTATING RUBBER AND CHANGE OVER TO 4.5" HANDLING TOOLS AT 2,625'</p> <p>NOTE: CONDUCTED A TRIP BOP DRILL WITH NIGHT CREW.</p>
11:00	11:45	0.75	Planned	<p>WASHED AND REAMED THE LAST 60' DOWN F/ 10,540' T/ 10,600'</p> <p>CIRCULATED TO CATCH THE HEAVY MUD.</p>
11:45	16:00	4.25	Drilling	<p>DRILLED 8.75" VERTICAL SECTION F/ 10,600' T/ 10,645' - 45'</p> <p>- AROP: 11 FPH - STRING RPM: 110 - 125 - FLOW: 550 - 600 GPM - ON-BTM PSI: 4,150 PSI - ON-BTM TRQ: 9.0 - 10.5 - M/W: IN - 9.6+ / 40 - PH: 10.5 - BBG GAS: 625</p> <p>- WOB: 25 - 35 KLBS - MOTOR RPM: 83 - 90 - DIFF: 50 - 250 PSI - OFF-BTM PSI: 3,925 PSI - OFF-BTM TRQ: 4.0 - 5.0 - M/W OUT - 9.6+ / 39 - PH: 10.5 - CONNECTION GAS: 0</p> <p>SURVEY AT: 10,488', INC - 4.6°, AZM - 239.4°, TVD - 10,484.61'</p> <p>- FORMATION DRILLED: 3RD BONE SPRING LM FORMATIONS.</p> <p>NOTE: SAMPLE AT 10,610' SHOWS 60% LS, 20% SH AND 20% DOL</p>
16:00	17:15	1.25	Drilling	<p>DRILLED 8.75" VERTICAL SECTION F/ 10,645' T/ 10,659' - 14'</p> <p>- AROP: 12 FPH - STRING RPM: 125 - 135 - FLOW: 575 - 600 GPM - ON-BTM PSI: 4,200 PSI - ON-BTM TRQ: 9.5 - 10.5 - M/W: IN - 9.6+ / 50 - PH: 11.0 - BBG GAS: 625</p> <p>- WOB: 35 - 40 KLBS - MOTOR RPM: 83 - 90 - DIFF: 50 - 200 PSI - OFF-BTM PSI: 4,125 PSI - OFF-BTM TRQ: 4.0 - 5.0 - M/W OUT - 9.6+ / 42 - PH: 10.5 - CONNECTION GAS: 0</p> <p>- FORMATION DRILLED: 3RD BONE SPRING LM FORMATIONS.</p> <p>NOTE: SAMPLE AT 10,640' SHOWS 65% LS AND 20% DOL</p>
17:15	19:00	1.75	UnPlanned	<p>DURING A CONNECTION DRILLER KICK THE PUMPS ON AND FOUND A SWAB BLOWN IN #2 PUMP. WENT TO SHUT THE #2 PUMP IN AND FOUND THE 4" ISOLATION VALVE WAS WASHED. WE RACKED THE STAND BACK AND WORKED THE PIPE EVERY 5 MIN. WHILE REPAIRING THE 4" ISOLATION VALVE AND CHANGING OUT THE SWAB.</p>



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/06/2016**API**

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	18
Location		Supervisor 2		DFS	14
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	519	Daily Cost	\$32,245.47
Depth (MD)	11,294	TVD at Bit	11,294	Cum. Cost	\$1,089,124.39
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		930'	

Mud Properties

Type	MMO
Weight	9.8
FV	48
PV	13
YP	11
LCM (ppb)	0.25
Chlorides	88000
% Solids	4.04
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi
11,174'	24.40°	244.70°

Drilling Parameters

Max WOB	30
Max RPM	30
Max Torque	8.5
Max Pull	255
Bkgrnd Gas	1625
Max Gas	2230
Cnx Gas	1975
Trip Gas	2815

BHA

Component	Length	ID	OD
Drill Bit	1.00'	2.00	8.75
Motor	29.29'	2.75	6.78
Monel Collar	10.67'	2.08	6.36
Sub	3.67'	2.88	6.63
Monel Collar	27.96'	2.81	6.50
Monel Collar	28.29'	2.88	6.50
Sub	3.60'	2.75	6.50
Drill Pipe	941.34'	4.00	5.00
Drill Pipe	737.83'	3.00	5.00
Total Length:	1783.65		

Bit Info


Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
1	17.5	Smith	506		22, 22, 22	100'	929'	829'			---I-X-TD
2	12.25	SMITH	STING BLADE	JM2300	6X12	972'	7,448'	6,476'	96.0	67.0	2-7-BT-S-I-X-CR-ROP
3	12.25	SMITH	SDSI 616 MEPX	JM1328	6X12	7,448'	8,220'	772'	29.8	26.0	2-4-BT-SH-I-X-CT-ROP
4	8.75	SMITH	Z713	JM0172	7X12	8,220'	9,018'	798'	31.0	26.0	2-2-CT-A-I-X-WT-ROP


Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	07:00	1.00	Planned	<p>TRIPPED OUT OF THE HOLE WITH 4.5" DRILL PIPE FROM 4,548' TO 2,625'</p> <p>MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 12.4 BBLS - ACTUAL FILL: 14 BBLS</p> <p>- AVERAGE TRIP SPEED: 1,925' FPH</p> <p>- HOLE CONDITIONS: GOOD, NO OVER PULL SEEN.</p> <p>NOTE: PULLED ROTATING HEAD AT 2,625', CONDUCTED FLOW CHECK - WELL STATIC AND SWITCHED OVER TO 5" HANDLING EQUIPMENT</p>
07:00	07:30	0.50	Planned	<p>TRIPPED OUT OF THE HOLE WITH 5" DRILL PIPE FROM 2,625' TO 1,115' - BHA</p> <p>MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 14.1 BBLS - ACTUAL FILL: 15 BBLS</p> <p>- AVERAGE TRIP SPEED: 3,025' FPH</p> <p>- HOLE CONDITIONS: GOOD, NO OVER PULL SEEN</p>
07:30	10:00	2.50	Planned	<p>HELD PJSM WITH RIG CREW ON HANDLING AND CHANGING OUT BHA'S</p> <p>- STOOD BACK 8 STANDS OF 5" HWDP AND LAID DOWN 9 JOINTS OF 6.5" DRILL COLLARS, MONEL - PULLED MWD TOOL AND LAID THE LOWER MONEL, STAB, SHOCK SUB AND MOTOR DOWN.</p> <p>MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 23.5 BBLS - ACTUAL FILL: 26 BBLS</p> <p>NOTE: FUNCTION TESTED BLIND RAMS.</p>
10:00	11:30	1.50	Planned	<p>PICKED UP AND MADE UP CURVE BHA AS FOLLOWS:</p> <p>- BIT (SMITH SDI 613, 6x18 = 1.491 TFA) - MOTOR (WRT 4/5, 8.3, 1.04 RPG, 2.12, BIT TO BEND 4.48') - NM PONY DRILL COLLAR - UBHO - 2 NMDC'S - X-O</p> <p>NOTE: SCRIBED AND INSTALLED MWD, SURFACE TESTED MWD TOOL - TESTED GOOD. PICKED UP AND MADE UP THE BIT.</p>

[illegible]

24 Hour Plan Forward:											
FINISH P.O.O.H., CHANGE BHA'S, T.I.H., START TO BUILD CURVE											
Safety						Fuel					
Last BOP Test	08/22/2016	Last BOP Drill	09/05/2016	Last Function Test	9/5/2016	Diesel Used	1,592	Diesel Recvd		Diesel on Loc	9,463

	Daily Cost Report		Well Name:	<u>RK-UTL 3031B-17-1H</u>
			Report Date:	<u>09/06/2016</u>
			Daily Cost	<u>\$32,245</u>
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$12,833	\$238,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey		\$1,100	\$13,200
830.060	Bits, Tools, Stabalizers	Tri Cone Bit	\$9,500	\$55,000
830.065	Fuel, Power			\$77,388
830.070	Equipment Rental		\$1,777	\$73,155
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$1,435	\$191,810
830.080	Mud Logging		\$1,800	\$21,600
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor			\$44,453
830.160	Fishing Services			
830.165	Drill Water			\$36,300
830.175	Supervision		\$3,800	\$57,000
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$5,613
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$32,245	\$1,021,956
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$32,245	\$1,089,124
WellEz Information Management Ver4.21.14bg				

<div></div> <div>Daily Cost Report</div>		Well Name: <u>RK-UTL 3031B-17-1H</u>		
		Report Date: <u>09/07/2016</u>		
		Daily Cost <u>\$38,781</u>		
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$252,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	Curve Tools and MWD Tools	\$7,000	\$24,496
830.060	Bits, Tools, Stabalizers			\$55,000
830.065	Fuel, Power			\$77,388
830.070	Equipment Rental		\$1,777	\$87,102
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$5,544	\$197,354
830.080	Mud Logging		\$1,800	\$23,400
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor		\$3,385	\$47,839
830.160	Fishing Services			
830.165	Drill Water			\$36,300
830.175	Supervision		\$3,800	\$60,800
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs	Pipe Dope	\$1,475	\$7,088
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$38,781	\$1,077,203
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$38,781	\$1,144,371
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/08/2016

API

Field	Phantom Wolfcamp	Supervisor	Jaime Castillo	Report No.	20
Location		Supervisor 2	Gilbert Terrazas	DFS	16
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	231	Daily Cost	\$52,698.00
Depth (MD)	12,331	TVD at Bit	11,586	Cum. Cost	\$1,197,069.38
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		956'	

Mud Properties

Type	MMO
Weight	9.9
FV	50
PV	12
YP	19
LCM (ppb)	
Chlorides	99000
% Solids	2.6
Daily Losses	
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	30
Max RPM	30
Max Torque	12000
Max Pull	
Bkgrnd Gas	4237
Max Gas	7117
Cnx Gas	6526
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	1.00'	2.00	8.75
Motor	29.29'	2.75	6.78
Monel Collar	10.67'	2.08	6.36
Sub	3.67'	2.88	6.63
Monel Collar	27.96'	2.81	6.50
Monel Collar	28.29'	2.88	6.50
Sub	3.60'	2.75	6.50
Drill Pipe	941.34'	4.00	5.00
Drill Pipe	737.83'	3.00	5.00
Total Length:	1783.65		

Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

[illegible]

Total Hours:		24		
24 Hour Activity Summary:				
Drilled T/12,331", Circulate sweep around, P.O.O.H, Lay down 5" drill pipe, B/O bit and lay down BHA,R/U casing crew,				
24 Hour Plan Forward:				
P.O.O.H, Run casing, Cement casing				
Safety				Fuel
Last BOP Test	08/22/2016	Last BOP Drill	09/06/2016	Last Function Test 9/8/2016
				Diesel Used 1,900 Diesel Recvd 7,200 Diesel on Loc 14,763

<div></div> <div>Daily Cost Report</div>		Well Name: <u>RK-UTL 3031B-17-1H</u>		
		Report Date: <u>09/08/2016</u>		
		Daily Cost <u>\$52,698</u>		
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$266,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	Curve Tools and MWD Tools	\$7,000	\$31,496
830.060	Bits, Tools, Stabalizers			\$55,000
830.065	Fuel, Power		\$11,950	\$89,338
830.070	Equipment Rental		\$4,752	\$91,854
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals			\$197,354
830.080	Mud Logging		\$1,800	\$25,200
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor	Jaimes welding Superintendent connex	\$9,396	\$57,235
830.160	Fishing Services			
830.165	Drill Water			\$36,300
830.175	Supervision		\$3,800	\$64,600
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$7,088
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$52,698	\$1,129,901
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$52,698	\$1,197,069
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/09/2016

API

Field	Phantom Wolfcamp	Supervisor	Jaime Castillo	Report No.	21
Location		Supervisor 2	Gilbert Terrazas	DFS	17
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage		Daily Cost	\$52,199.97
Depth (MD)	12,331	TVD at Bit	11,586	Cum. Cost	\$1,249,269.35
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	MMO
Weight	9.8
FV	46
PV	9
YP	21
LCM (ppb)	
Chlorides	99000
% Solids	6.1
Daily Losses	
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	30
Max RPM	30
Max Torque	
Max Pull	
Bkgrnd Gas	
Max Gas	
Cnx Gas	
Trip Gas	

BHA

Component	Length	ID	OD
Total Length:			

Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	20:30	14.50	Planned	PJSM Running casing Run 7" 32# P-110 LTC as follows: Weld on Float Shoe 18' casing joint Float Collar Shoe track 21.6' 390 joints Fill pipe on the fly and every 3,000' Circulate @ 6,800' Run speed 160fpm-250fpm ECD 10.1-10.4 Wash F/11,800' T/12,150' Changed out liners on both pumps of line to 4.75"
20:30	23:30	3.00	Planned	Circulate and Condition 1.5 bottoms up 22,500stks @ 8bpm Pump psi 350 Rig down casing Equipment Conduct PJSM with Compass Cementing
23:30	06:00	6.50	Planned	Rig up Compass cementing and cementing as follows CEMENT AS FOLLOWS TEST LINES T/ 7,000 PSI PUMP 40 BBLS OF H2O SPACER PUMP 2729 SKS (1823bbbs) OF LEAD CEMENT @ 11 PPG 3.75 YLD, 22.4 GAL/SK PUMP 170 SKS OF TAIL CEMENT @ 15.6 PPG, 1.18, YLD, 5.22 GAL/SK
Total Hours:		24		

24 Hour Activity Summary:


Ran casing T/11,850', Wash to Bottom @ 12,331', Circulate Bottoms up, R/U cementing equipment, Cement

24 Hour Plan Forward:

install slips, Nipple Down, Clean tanks, Weld on Charger pumps, Nipple up, test, make up Lateral BHA, TIH, Drill out

Safety

Last BOP Test	08/22/2016	Last BOP Drill	09/06/2016	Last Function Test	9/8/2016	Diesel Used	935	Diesel Recvd		Diesel on Loc	13,828
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<div></div> <div>Daily Cost Report</div>		Well Name: <u>RK-UTL 3031B-17-1H</u>		
		Report Date: <u>09/09/2016</u>		
		Daily Cost <u>\$52,200</u>		
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$280,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey			\$31,496
830.060	Bits, Tools, Stabalizers	2 -8.75 bits	\$19,000	\$74,000
830.065	Fuel, Power			\$89,338
830.070	Equipment Rental		\$12,857	\$104,711
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$68	\$197,422
830.080	Mud Logging		\$1,800	\$27,000
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$18,864
830.110	Casing Crew & Equipment			\$2,852
830.120	Contract Labor		\$675	\$57,910
830.160	Fishing Services			
830.165	Drill Water			\$36,300
830.175	Supervision		\$3,800	\$68,400
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$7,088
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$52,200	\$1,182,101
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$50,000
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$67,169
Total Costs			\$52,200	\$1,249,269
WellEz Information Management Ver4.21.14bg				

<div></div> <div>Daily Cost Report</div>		Well Name: <u>RK-UTL 3031B-17-1H</u>		
		Report Date: <u>09/10/2016</u>		
		Daily Cost <u>\$319,397</u>		
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$294,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey			\$31,496
830.060	Bits, Tools, Stabalizers			\$74,000
830.065	Fuel, Power			\$89,338
830.070	Equipment Rental		\$1,632	\$106,343
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$1,923	\$199,345
830.080	Mud Logging		\$1,800	\$28,800
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services	7" cement	\$108,723	\$127,587
830.110	Casing Crew & Equipment	7" casing run	\$174,467	\$177,318
830.120	Contract Labor	Mans test, N/U N/D, Gleez clean tanks \$910	\$7,863	\$65,773
830.160	Fishing Services			
830.165	Drill Water		\$910	\$37,210
830.175	Supervision		\$3,800	\$72,200
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$7,088
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$315,117	\$1,497,218
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment		\$4,280	\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible			\$4,280	\$71,449
Total Costs			\$319,397	\$1,568,667
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/11/2016

API

Field	Phantom Wolfcamp	Supervisor	Jaime Castillo	Report No.	23
Location		Supervisor 2		DFS	19
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage		Daily Cost	\$59,274.70
Depth (MD)	12,331	TVD at Bit	11,586	Cum. Cost	\$1,627,941.27
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	MMO
Weight	10.5
FV	32
PV	6
YP	9
LCM (ppb)	
Chlorides	83000
% Solids	8.89
Daily Losses	
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	
Max RPM	
Max Torque	
Max Pull	
Bkgrnd Gas	
Max Gas	
Cnx Gas	
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.21'		4.87
Sub	5.31'	2.62	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Shock Sub	16.88'	2.50	4.76
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.13'		4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.27		

Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
				PICKED UP 4" DP. F/ 5,200' T/ 6,175
06:00	07:30	1.50	Planned	NOTE: HELD PJSMTG
07:30	12:30	5.00	Planned	CHANGE OUT ELEVATORS, MOVE 63 JTS OF 4.5 HWDP TO RACK AND STRAP, P/U 4.5 HWDP AND RACK BACK
12:30	14:00	1.50	Planned	PICK UP BHA ORBIT, UBHO SUB, NMDC, IBS, NON MAG STAB TO THE POINT OF TEST
14:00	16:30	2.50	UnPlanned	FINISH RIGGING UP CHARGING PUMPS FOR MUD PUMPS , PRIME AND COAT NEW SUCTION LINES MUD TANKS RIG UP NEW TRIP TANK LINE FROM POSSUM BELLY, FIX FILL UP HOSE ON THE BELL NIPPLE
16:30	17:30	1.00	Planned	TRANSFER MUD TO PRE MIX, LET CIRCULATE THROUGH PRE MIX, TRANSFER TO MUD TANKS OVER SHAKERS, RIG UP TRANSFER LINES BEHIND MUD TANKS, INSTALL VALVE AT TRIP TANK FOR POSSUM BELLY
17:30	18:00	0.50	Planned	INSTALL MWD TOO, SCREW INTO PUMP IN SUB AND BEGIN TESTING RSS
18:00	20:30	2.50	Planned	TEST ORBIT TOOLS, PICK UP MOTOR AND BIT MAKE UP SAME
20:30	23:30	3.00	Planned	TRIP IN HOLE F/146 T/6,327' FILLING PIPE EVERY 30 STANDS TRIP SPEED 450FPM
23:30	02:00	2.50	Planned	PFSM TEST VBR ADN PIPE RAMS 250 LOWS 5000 HIGH ANNULAR 250 LOW 3500 HIGH 5MINS A EACH
02:00	05:00	3.00	Planned	TRIP IN HOLE F/6327' T/12083 FILLING PIPE EVERY 30 STANDS TRIP SPEED 450FPM
05:00	06:00	1.00	Planned	TAG CEMENT DRILL CEMENT F/12,150' T/12,315' RPM 15 WOB 10 SPM 85 GPM 225 TORQUE 4K TAG FLOAT COLLAR @ 12,315'
Total Hours:		24		

24 Hour Activity Summary:


PICKED UP PIPE, WELDED IN CHARGE PUMPS, MADE UP LATERAL BHA, TIH, TESTED RAMS, DRILL SHOE TRACK

24 Hour Plan Forward:

DRILL OUT, DRILL LATERAL SECTION

Safety					Fuel						
Last BOP Test	09/11/2016	Last BOP Drill	09/06/2016	Last Function Test	9/11/2016	Diesel Used	2,500	Diesel Recvd		Diesel on Loc	10,572

From	To	Hours	P / U	Summary
				DRILLED CEMENT, PLUG, FLOAT SHOE F/ 12,315' T/ 12,331'
06:00	07:00	1.00	Planned	NOTE: SHOE @ 12,317'
07:00	11:00	4.00	Drilling	DRILLED 6" LATERAL F/ 12,331' T/ 12,523' - 192' - AROP: 48.0 FPH - WOB: 10-12 KLBS - STRING RPM: 50 - MOTOR RPM: 125 - FLOW: 240 GPM - DIFF: 400 - 600 PSI - ON-BTM PSI: 2850PSI - OFF-BTM PSI: 2260 PSI - ON-BTM TRQ: 12 - 13 - OFF-BTM TRQ: 7.0 - 8.0 - M/W: IN - 10.4 / 33 - M/W OUT - 10.3 / 33 - BBG: 598 UNITS - CONN GAS: 3233 UNITS SURVEY AT: 12,489', INC - 91.86, AZM - 254.82°, TVD - 11,577.0 - 38.0 ABOVE AND 48.0' RIGHT OF TARGET LINE LAST SAMPLE AT 12,450' SHOWED 50% SHALE, 50% LIME ST
11:00	16:00	5.00	Drilling	DRILLED 6" LATERAL F/ 12,523' T/ 12,897' - 374' - AROP: 74.8 FPH - WOB: 10-12 KLBS - STRING RPM: 70 - MOTOR RPM: 125 - FLOW: 240 GPM - DIFF: 400 - 600 PSI - ON-BTM PSI: 2850PSI - OFF-BTM PSI: 2260 PSI - ON-BTM TRQ: 11 - 12 - OFF-BTM TRQ: 7.0 - 8.0 - M/W: IN - 10.4 / 33 - M/W OUT - 10.3 / 33 - BBG: 653 UNITS - CONN GAS: 2700 UNITS MD: 12860' / INC: 90.62° / AZ: 253.23° / TVD: 11572.73' / VS: 1432.29' / N-S: 383.77° S / E-W: 1381.05' W / DLS: 1.58' / TEMP: 155.2° / HIGH-LOW: 39A' / LEFT-RIGHT: 56R LAST SAMPLE AT 12,450' SHOWED 50% SHALE, 50% LIME ST
16:00	16:30	0.50	Planned	SERVICE RIG / TOP DRIVE & SWIVEL PACKING
16:30	20:00	3.50	Drilling	DRILLED 6" LATERAL F/ 12,897 TO 13,080' - 183' - AROP: 45.75 FPH - WOB: 12-15 KLBS - STRING RPM: 80 - MOTOR RPM: 135 - FLOW: 240 GPM - DIFF: 400 - 600 PSI - ON-BTM PSI: 2850PSI - OFF-BTM PSI: 2260 PSI - ON-BTM TRQ: 9 - 11 - OFF-BTM TRQ: 7.0 - 8.0 - M/W: IN - 10.2 / 33 - M/W OUT - 10.2 / 33 - BBG: 555 UNITS - CONN GAS: 2700 UNITS MD: 13046' / INC: 90.78° / AZ: 251.31° / TVD: 11570.53' / VS: 1618.27' / N-S: 439.94° S / E-W: 1558.34' W / DLS: 1.36' / TEMP: 159.0° / HIGH-LOW: 40A' / LEFT-RIGHT: 57R LAST SAMPLE AT 12,450' SHOWED 30% SHALE, 70% LIME ST

<div></div> <div>Daily Cost Report</div>		Well Name: <u>RK-UTL 3031B-17-1H</u>		
		Report Date: <u>09/12/2016</u>		
		Daily Cost <u>\$56,230</u>		
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$322,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey		\$17,200	\$86,696
830.060	Bits, Tools, Stabalizers			\$74,000
830.065	Fuel, Power		\$11,656	\$100,994
830.070	Equipment Rental		\$1,632	\$109,607
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$2,392	\$201,779
830.080	Mud Logging	COST ADJUST	\$5,550	\$36,150
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$65,773
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$79,800
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$7,338
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$56,230	\$1,455,973
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$56,230	\$1,527,421
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/13/2016

API

Field	Phantom Wolfcamp	Supervisor	BILLY LALONDE	Report No.	25
Location		Supervisor 2	PAUL STERNADEL	DFS	21
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	1,320	Daily Cost	\$44,673.41
Depth (MD)	15,180	TVD at Bit	11,571	Cum. Cost	\$1,572,094.73
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	10.4
FV	36
PV	11
YP	15
LCM (ppb)	
Chlorides	77000
% Solids	7.92
Daily Losses	
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	28000
Max RPM	90
Max Torque	11150
Max Pull	240000
Bkgnd Gas	4250
Max Gas	5443
Cnx Gas	4675
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.21'		4.87
Sub	5.31'	2.62	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Shock Sub	16.88'	2.50	4.76
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.13'		4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.27		


Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
				<p>DRILLED 6" LATERAL F/ 13,860' TO 14,210'- 350'</p> <p>- AROP: 46.66 FPH - WOB: 18-25 KLBS - STRING RPM: 90 - MOTOR RPM: 145 - FLOW: 240 GPM - DIFF: 500 - 800 PSI - ON-BTM PSI: 3150PSI - OFF-BTM PSI: 2641 PSI - ON-BTM TRQ: 9 - 12 - OFF-BTM TRQ: 5.0 - 7.0 - M/W: IN - 10.4 / 39 - M/W OUT - 10.4 / 37 - BBG: 697 UNITS - CONN GAS: 1936 UNITS</p> <p>SURVEY AT: 14,087', INC - 89.88 , AZM - 251.52°, TVD - 11565.91' 33.0 ABOVE AND 36.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 14,100' SHOWED 40% SHALE, 60% LIME ST NOTE: HAND DRILLING DUE TO AUTO DRILLER GOING DOWN</p>
06:00	13:30	7.50	Drilling	
13:30	14:00	0.50	Planned	PERFORMED RIG SERVICE
				<p>DRILLED 6" LATERAL F/ 14,210' TO 14,404'- 194'</p> <p>- AROP: 48.5 FPH - WOB: 18-25 KLBS - STRING RPM: 90 - MOTOR RPM: 145 - FLOW: 240 GPM - DIFF: 500 - 800 PSI - ON-BTM PSI: 3400PSI - OFF-BTM PSI: 2900 PSI - ON-BTM TRQ: 9 - 12 - OFF-BTM TRQ: 5.0 - 7.0 - M/W: IN - 10.4 / 39 - M/W OUT - 10.4 / 37 - BBG: 697 UNITS - CONN GAS: 1936 UNITS</p> <p>SURVEY AT: 14,275', INC - 90.23 , AZM - 251.03°, TVD - 11565.32' 33.0 ABOVE AND 36.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 14,300' SHOWED 30% SHALE, 70% LIME ST NOTE: HAND DRILLING DUE TO AUTO DRILLER GOING DOWN</p>
14:00	18:00	4.00	Drilling	
18:00	18:30	0.50	Planned	REPLACED CRAWLER WHEEL AND GEAR ASSEMBLY FOR AUTO DRILLER
				<p>DRILLED 6" LATERAL F/ 14,404' TO 14,750'- 346'</p> <p>- AROP: 62.9 FPH - WOB: 18-25 KLBS - STRING RPM: 90 - MOTOR RPM: 145 - FLOW: 250 GPM - DIFF: 500 - 800 PSI - ON-BTM PSI: 3500 PSI - OFF-BTM PSI: 3100 PSI - ON-BTM TRQ: 9 - 12 - OFF-BTM TRQ: 5.0 - 7.0 - M/W: IN - 10.4 / 41 - M/W OUT - 10.4 / 39 - BBG: 4200 UNITS - CONN GAS: 4660 UNITS</p> <p>Survey @ □ MD: □14654 □/ INC: □89.81 □/ AZ: □250.4 / TVD: □11567.67 26.0 ABOVE AND 24.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 14,600' SHOWED 30% SHALE, 70% LIME ST</p>
18:30	00:00	5.50	Drilling	

				DRILLED 6" LATERAL F/ 14,750' TO 15,180'- 430'
				- AROP: 71.6 FPH - STRING RPM: 90 - FLOW: 240 GPM - ON-BTM PSI: 3680 PSI - ON-BTM TRQ: 9 - 12 - M/W: IN - 10.4 / 42 - BBG: 4800 UNITS
				- WOB: 18-25 KLBS - MOTOR RPM: 145 - DIFF: 500 - 800 PSI - OFF-BTM PSI: 3100 PSI - OFF-BTM TRQ: 5.0 - 7.0 - M/W OUT - 10.4 / 42 - CONN GAS: 5332 UNITS
				Survey @ MD: 15030 / INC: 89.42 / AZ: 252.36 / TVD: 11569.53 20.0 ABOVE AND 17.0' RIGHT OF TARGET LINE
				LAST SAMPLE AT 15,000' SHOWED 40% SHALE, 60% LIME ST
00:00	06:00	6.00	Drilling	

<div></div> <div>Daily Cost Report</div>		Well Name: <u>RK-UTL 3031B-17-1H</u>		
		Report Date: <u>09/13/2016</u>		
		Daily Cost <u>\$44,673</u>		
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$336,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey		\$17,200	\$103,896
830.060	Bits, Tools, Stabalizers			\$74,000
830.065	Fuel, Power			\$100,994
830.070	Equipment Rental		\$4,182	\$113,789
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals		\$3,641	\$205,421
830.080	Mud Logging		\$1,850	\$38,000
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$65,773
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$83,600
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$7,338
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$44,673	\$1,500,646
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$44,673	\$1,572,095
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/14/2016**API**

Field	Phantom Wolfcamp	Supervisor	BILLY LALONDE	Report No.	26
Location		Supervisor 2	PAUL STERNADEL	DFS	22
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	664	Daily Cost	\$37,482.00
Depth (MD)	15,844	TVD at Bit	11,566	Cum. Cost	\$1,609,576.73
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	10.6
FV	49
PV	16
YP	33
LCM (ppb)	
Chlorides	77000
% Solids	7.92
Daily Losses	
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	30000
Max RPM	115
Max Torque	18000
Max Pull	220
Bkgrnd Gas	3282
Max Gas	5750
Cnx Gas	5750
Trip Gas	

BHA


Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.21'		4.87
Sub	5.31'	2.62	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Shock Sub	16.88'	2.50	4.76
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.13'		4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.27		

Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	10:30	4.50	Drilling	<p>DRILLED 6" LATERAL F/ 15,180' to 15,400' - 220'</p> <p>- AROP: 48.8 FPH - WOB: 12-22 KLBS - STRING RPM: 20 - 100 - MOTOR RPM: 215 - FLOW: 250 GPM - DIFF: 500 - 700 PSI - ON-BTM PSI: 3850 PSI - OFF-BTM PSI: 3100 PSI - ON-BTM TRQ: 10 - 12 - OFF-BTM TRQ: 5.0 - 7.0 - M/W: IN - 10.4 / 42 - M/W OUT - 10.4 / 42 - BBG: 5025 UNITS - CONN GAS: 5705 UNITS</p> <p>survey - MD: 15408 / INC: 89.84 / AZ: 253.02 / TVD: 11569.26 17.0 ABOVE AND 20.0' RIGHT OF TARGET LINE</p> <p>pumped 2 40 bbl high vis sweeps</p> <p>LAST SAMPLE AT 15,200' SHOWED 90% SHALE, 10% LIME ST</p>
10:30	14:00	3.50	Drilling	<p>DRILLED 6" LATERAL F/ 15,400' to 15,595' - 195'</p> <p>- AROP: 43.3 FPH - WOB: 12-22 KLBS - STRING RPM: 20 - 115 - MOTOR RPM: 245 - FLOW: 250 GPM - DIFF: 500 - 650 PSI - ON-BTM PSI: 4150 PSI - OFF-BTM PSI: 3550 PSI - ON-BTM TRQ: 10 - 12 - OFF-BTM TRQ: 5.0 - 7.0 - M/W: IN - 10.6 / 48 - M/W OUT - 10.6 / 428 - BBG: 3282 UNITS - CONN GAS: 5668 UNITS</p> <p>Survey @ MD: 15597 / INC: 90.34 / AZ: 252.86 / TVD: 11569.46 14.0 ABOVE AND 22.0' RIGHT OF TARGET LINE</p> <p>PUMPED 2 40 BBL HIGH VIS SWEEPS TO CLEAN HOLE</p> <p>LAST SAMPLE AT 15,595' SHOWED 50% SHALE, 50% LIME ST</p>
14:00	18:00	4.00	Drilling	<p>DRILLED 6" LATERAL F/ 15,595' TO 15,832' - 237'</p> <p>- AROP: 59.25 FPH - WOB: 20 - 30 KLBS - STRING RPM: 20 - 110 - MOTOR RPM: 245 - FLOW: 250 GPM - DIFF: 500 - 700 PSI - ON-BTM PSI: 4400 PSI - OFF-BTM PSI: 3700 PSI - ON-BTM TRQ: 10 - 12 - OFF-BTM TRQ: 5.0 - 7.0 - M/W: IN - 10.6 / 48 - M/W OUT - 10.6 / 428 - BBG: 3700 UNITS - CONN GAS: 5350 UNITS</p> <p>Survey @ MD: 15691 / INC: 91.20 / AZ: 253.65 / TVD: 11568.20 14.0 ABOVE AND 22.0' RIGHT OF TARGET LINE</p> <p>PUMPED 1 40 BBL HIGH VIS SWEEP TO CLEAN HOLE</p> <p>LAST SAMPLE AT 15,595' SHOWED 70% SHALE, 30% LIME ST</p>

	Daily Cost Report		Well Name:	RK-UTL 3031B-17-1H
			Report Date:	09/14/2016
			Daily Cost	\$37,482
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$350,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey		\$16,200	\$120,096
830.060	Bits, Tools, Stabalizers			\$74,000
830.065	Fuel, Power			\$100,994
830.070	Equipment Rental		\$1,632	\$115,421
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals			\$205,421
830.080	Mud Logging		\$1,850	\$39,850
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$65,773
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$87,400
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$7,338
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$37,482	\$1,538,128
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$37,482	\$1,609,577
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/15/2016

API

Field	Phantom Wolfcamp	Supervisor	BILLY LALONDE	Report No.	27
Location		Supervisor 2	PAUL STERNADEL	DFS	23
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	193	Daily Cost	\$45,921.00
Depth (MD)	16,037	TVD at Bit	11,566	Cum. Cost	\$1,655,497.73
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	10.8
FV	55
PV	16
YP	34
LCM (ppb)	
Chlorides	77000
% Solids	7.92
Daily Losses	
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	25000
Max RPM	81
Max Torque	9985
Max Pull	220
Bkgrnd Gas	1090
Max Gas	5650
Cnx Gas	3355
Trip Gas	3558

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.58'		4.81
Sub	5.31'	2.62	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Shock Sub	16.88'	2.50	4.76
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.13'		4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.64		

Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	08:00	2.00	UnPlanned	TRIPPED OUT OF THE HOLE F/ 2,200' TO BHA' MONITOR HOLE ON TRIP TANK: HOLE IS TAKING PROPER FILL - AVERAGE TRIP SPEED: 1,000' FPH - HOLE CONDITIONS: GOOD, NO OVER PULL SEEN
08:00	09:00	1.00	UnPlanned	HELD PRE JOB MEETING WITH DIRECTIONAL CREW AND RIG CREW, LAY DOWN BHA & BIT
09:00	11:30	2.50	UnPlanned	HELD PRE JOB MEETING WITH CREWS ON PICKING UP NEW BHA PICK UP NEW BHA & BIT SURFACE TEST MOTOR & MWD
11:30	16:00	4.50	UnPlanned	HELD SAFETY MEETING WITH CREW ON TRIPPING, TRIP IN HOLE F/ BHA TO 10,829' AVERAGE TRIP SPEED: 2,360' FPH SECURE WELL FILLING PIPE EVERY 30 STANDS
16:00	17:30	1.50	UnPlanned	HELD SAFETY STAND DOWN WITH EVERYONE ON LOCATION WELL WAS MONITORED ON TRIP TANK
17:30	19:30	2.00	UnPlanned	SAFETY MEETING WITH CREW ON SLIP AND CUTTING OF DRILLING LINE, SLIP AND CUT DRILLING LINE MONITORED WELL ON TRIP TANK
19:30	20:00	0.50	UnPlanned	SAFETY MEETING, INSTALL ROTATING HEAD ASSY, CALIBRATE BLOCK HEIGHT
20:00	22:00	2.00	UnPlanned	HELD SAFETY MEETING WITH CREW ON TRIPPING, TRIP IN HOLE F/ 10,829' TO 12,665' AVERAGE TRIP SPEED: 918' FPH FILL PIPE & TEST MWD FILLING PIPE EVERY 30 STANDS
22:00	23:30	1.50	UnPlanned	CONTINUE TRIP IN HOLE F/ 12,665' TO 15,305' AVERAGE TRIP SPEED: 2,638' FPH FILLING PIPE EVERY 30 STANDS
23:30	01:00	1.50	UnPlanned	FILL PIPE, ATTEMPT TO GET A SURVEY, PRESSURE SPIKED TO 4,540 PSI, WORKED DRILL STRING, PRESSURE CAME DOWN, RAISE GPM TO 180 TO 190, PRESSURE WENT TO 4,250 WORKING DRILL STRING EASING PRESSURE DOWN, BROUGHT GPM BACK ON TO 230, PRESSURE WENT TO 5,600 PSI KEPT WORKING DRILL STRING TO EASE THE PRESSURE AND CLEAN WELL BORE, BOTTOMS UP FLOW METER WAS FROM 0 TO 95% GOING THROUGH GAS BUSTER WELL CLEANED UP AND GAS OUT OF ANNULUS.
01:00	01:30	0.50	UnPlanned	CONTINUE TRIP IN HOLE F/ 15,305' TO 15,819' AVERAGE TRIP SPEED: 1,028 ' FPH
01:30	02:30	1.00	UnPlanned	ESTABLISH CIRC FLOW RATES, PUMP UP MWD SURVEY DOWN LINK RSS TOOL & RELOG LAST 25' @ 150 FT/HR PUMP SWEEP SO TO BE GOING AROUND BIT WHEN TAG UP FAN BOTTOM TO CLEAN ANY BROKEN CUTTERS OUT FROM LAST RUN

				DRILLED 6" LATERAL F/ 15,844 TO 16,037'- 193'
				- AROP: 55.14 FPH - WOB: 20 - 35 KLBS - STRING RPM: 80 TO 90 - MOTOR RPM: 212 - FLOW: 231 GPM - DIFF: 500 TO 700 PSI - ON-BTM PSI: 4900 PSI - OFF-BTM PSI: 4357 PSI - ON-BTM TRQ: 7500 - 8500 - OFF-BTM TRQ: 5800 - M/W: IN - 10.7 / 57 - M/W OUT - 10.7 / 53 - BBG: 1167 UNITS - CONN GAS: 3355 UNITS - TRIP GAS: 3558 UNITS
				Survey @ MD: 15879 / INC: 90.21 / AZ: 252.29 / TVD: 11567.14 13.0 ABOVE AND 24.0' RIGHT OF TARGET LINE
				PUMPED 1 - 25 BBL HIGH VIS SWEEPS TO CLEAN HOLE
				LAST SAMPLE AT 15,900' SHOWED 75% SHALE, 25% LIME ST
				RAISING MUD WT TO 11# PPG SLOW
02:30	06:00	3.50	Drilling	
Total Hours:		24		
24 Hour Activity Summary:				
TOH, LDBHA, PICK UP NEW BHA, TEST DIR TOOLS, TIH, SAFETY STAND DOWN, SLIP CUT DRLG LINE, TIH, DRILL 6" LATERAL				
24 Hour Plan Forward:				
TIH, DRILL 6" LATERAL TO PLANNED TARGET				
Safety				Fuel
Last BOP Test	09/11/2016	Last BOP Drill	09/06/2016	Last Function Test 9/14/2016
Diesel Used		788	Diesel Recvd	Diesel on Loc 11,650

	Daily Cost Report		Well Name:	<u>RK-UTL 3031B-17-1H</u>
			Report Date:	<u>09/15/2016</u>
			Daily Cost	<u>\$45,921</u>
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$364,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey		\$16,200	\$136,296
830.060	Bits, Tools, Stabalizers		\$6,000	\$80,000
830.065	Fuel, Power			\$100,994
830.070	Equipment Rental		\$1,632	\$117,053
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals			\$205,421
830.080	Mud Logging		\$1,850	\$41,700
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor	DRIFT, CLEAN, VISUAL INSPECT & TALLY 4.5" LIN	\$2,439	\$68,212
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$91,200
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$7,338
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$45,921	\$1,584,049
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$45,921	\$1,655,498
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/16/2016**API**

Field	Phantom Wolfcamp	Supervisor	BILLY LALONDE	Report No.	28
Location		Supervisor 2	PAUL STERNADEL	DFS	24
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	1,033	Daily Cost	\$37,482.00
Depth (MD)	17,070	TVD at Bit	11,567	Cum. Cost	\$1,709,243.00
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	11.5
FV	55
PV	16
YP	34
LCM (ppb)	
Chlorides	77000
% Solids	7.92
Daily Losses	
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	25000
Max RPM	100.00
Max Torque	11865
Max Pull	225000
Bkgrnd Gas	3648
Max Gas	5797
Cnx Gas	5797
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.58'		4.81
Sub	5.31'	2.62	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Shock Sub	16.88'	2.50	4.76
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.13'		4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.64		


Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	12:00	6.00	Drilling	<p>DRILLED 6" LATERAL F/ 16,037' TO 16,386' - 349'</p> <p>- AROP: 58.16 FPH - WOB: 20 - 25 KLBS - STRING RPM: 80 TO 100 - MOTOR RPM: 212 - FLOW: 231 GPM - DIFF: 500 TO 700 PSI - ON-BTM PSI: 5100 PSI - OFF-BTM PSI: 4857 PSI - ON-BTM TRQ: 7500 - 8500 - OFF-BTM TRQ: 5-7 - M/W: IN - 11.0 / 57 - M/W OUT - 11.0 / 53 - BBG: 792 UNITS - CONN GAS: 3355 UNITS</p> <p>Survey @ MD: 16350' / INC: 90.23' / AZ: 252.46 / TVD: 11566.63 9.0 ABOVE AND 26.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 16,300' SHOWED 90% SHALE, 10% LIME ST</p>
12:00	15:00	3.00	Drilling	<p>DRILLED 6" LATERAL F/ 16,386' TO 16,571' - 185'</p> <p>- AROP: 61.66 FPH - WOB: 15 - 25 KLBS - STRING RPM: 80 TO 100 - MOTOR RPM: 212 - FLOW: 250 GPM - DIFF: 500 TO 700 PSI - ON-BTM PSI: 5100 PSI - OFF-BTM PSI: 4857 PSI - ON-BTM TRQ: 7 - 8 - OFF-BTM TRQ: 5-7 - M/W: IN - 11.0 / 57 - M/W OUT - 11.0 / 53 - BBG: 792 UNITS - CONN GAS: 3355 UNITS</p> <p>Survey @ MD: 16538' / INC: 90.19' / AZ: 252.56 / TVD: 11565.94 8.0 ABOVE AND 26.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 16,500' SHOWED 65% SHALE, 35% LIME ST</p>
15:00	15:30	0.50	Planned	PERFORMED RIG SERVICE
15:30	18:00	2.50	Drilling	<p>DRILLED 6" LATERAL F/ 16,571' TO 16,667' - 96'</p> <p>- AROP: 38.4 FPH - WOB: 18 - 20 KLBS - STRING RPM: 80 TO 100 - MOTOR RPM: 125 - FLOW: 250 GPM - DIFF: 500 TO 700 PSI - ON-BTM PSI: 5400 PSI - OFF-BTM PSI: 4700 PSI - ON-BTM TRQ: 8 - 10 - OFF-BTM TRQ: 5-7 - M/W: IN - 11.0 / 59 - M/W OUT - 10.9 / 57 - BBG: 3648 UNITS - CONN GAS: 5797 UNITS</p> <p>Survey @ MD: 16633' / INC: 90.25' / AZ: 252.24 / TVD: 11565.58 9.0 ABOVE AND 27.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 16,500' SHOWED 65% SHALE, 35% LIME ST</p>
18:00	22:00	4.00	Drilling	<p>DRILLED 6" LATERAL F/ 16,667' TO 16,815' - 148'</p> <p>- AROP: 37 FPH - WOB: 18 - 20 KLBS - STRING RPM: 80 TO 100 - MOTOR RPM: 125 - FLOW: 250 GPM - DIFF: 500 TO 700 PSI - ON-BTM PSI: 5400 PSI - OFF-BTM PSI: 4700 PSI - ON-BTM TRQ: 8 - 10 - OFF-BTM TRQ: 5-7 - M/W: IN - 11.4 / 58 - M/W OUT - 11.3 / 57 - BBG: 2569 UNITS - CONN GAS: 3285 UNITS</p> <p>Survey @ MD: 16823' / INC: 88.91' / AZ: 252.31' / TVD: 11565.78 9.0 ABOVE AND 27.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 16,500' SHOWED 50% SHALE, 50% LIME ST</p>

				DRILLED 6" LATERAL F/ 16,815 - TO 16,960; - 145' - AROP: 36.25 FPH - STRING RPM: 80 TO 100 - FLOW: 230 GPM - ON-BTM PSI: 5066 PSI - ON-BTM TRQ: 8 - 10 - M/W: IN - 11.4 / 58 - BBG: 2620 UNITS - WOB: 18 - 22 KLBS - MOTOR RPM: 115 - DIFF: 500 TO 700 PSI - OFF-BTM PSI: 4450 PSI - OFF-BTM TRQ: 5-7 - M/W OUT - 11.3 / 57 - CONN GAS: 6255 UNITS Survey @ MD:16917 / INC:89.37 / AZ:252.94 / TVD:11567.19 8.0 ABOVE AND 28.0' RIGHT OF TARGET LINE LAST SAMPLE AT 16,900' SHOWED 90% SHALE, 10% LIME ST AT 16,919' ENCOUNTERED A TORQUE AND DIFF SPIKE, TQ F/ 10,491 TO 15,350, DIFF F/ 680 TO 1062, PUMP F/ 5183 TO 5593
22:00	02:00	4.00	Drilling	
				DRILLED 6" LATERAL F/ 16,960 - 17,070 - 110' - AROP: 27.5 FPH - STRING RPM: 80 TO 100 - FLOW: 250 GPM - ON-BTM PSI: 5450 PSI - ON-BTM TRQ: 8 - 10 - M/W: IN - 11.5 / 55 - BBG: 2119 UNITS - WOB: 20 - 25 KLBS - MOTOR RPM: 125 - DIFF: 300 TO 500 PSI - OFF-BTM PSI: 5050 PSI - OFF-BTM TRQ: 5-7 - M/W OUT - 11.5 / 60 - CONN GAS: 2700 UNITS Survey @ MD:16917 / INC:89.37 / AZ:252.94 / TVD:11567.19 8.0 ABOVE AND 28.0' RIGHT OF TARGET LINE LAST SAMPLE AT 16,900' SHOWED 90% SHALE, 10% LIME ST HAVING TO PICK UP AND RESTART DRLG FREQUENTLY FORMATION SEEMS TO BE FRACTURED AND RATTY, CAUSING TQ, DIFF & PSI SPIKES
02:00	06:00	4.00	Drilling	

<div></div> <div>Daily Cost Report</div>		Well Name: <u>RK-UTL 3031B-17-1H</u>		
		Report Date: <u>09/16/2016</u>		
		Daily Cost <u>\$37,482</u>		
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$378,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey		\$16,200	\$152,496
830.060	Bits, Tools, Stabalizers			\$80,000
830.065	Fuel, Power			\$100,994
830.070	Equipment Rental		\$1,632	\$119,160
830.071	Hot Shot Trucking			\$3,763
830.075	Mud & Chemicals			\$213,910
830.080	Mud Logging		\$1,850	\$43,550
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$75,511
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$95,000
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$7,338
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$37,482	\$1,637,794
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$37,482	\$1,709,243
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/17/2016

API

Field	Phantom Wolfcamp	Supervisor	BILLY LALONDE	Report No.	29
Location		Supervisor 2	PAUL STERNADEL	DFS	25
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	855	Daily Cost	\$38,390.20
Depth (MD)	17,925	TVD at Bit	11,567	Cum. Cost	\$1,748,958.20
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	11.4
FV	45
PV	17
YP	23
LCM (ppb)	
Chlorides	115000
% Solids	7.92
Daily Losses	150
Total Losses	150

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	25000
Max RPM	100.00
Max Torque	11950
Max Pull	265
Bkgrnd Gas	1850
Max Gas	5980
Cnx Gas	5550
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.58'		4.81
Sub	5.31'	2.62	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Shock Sub	16.88'	2.50	4.76
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.13'		4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.64		

Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	12:00	6.00	Drilling	<p>DRILLED 6" LATERAL F/ 17,070 - 17,280 - 210'</p> <ul style="list-style-type: none"> - AROP: 35.0 FPH - STRING RPM: 80 TO 100 - FLOW: 250 GPM - ON-BTM PSI: 5120 PSI - ON-BTM TRQ: 9 - 10 - M/W: IN - 11.6 / 45 - BBG: 2912 UNITS - WOB: 20 - 25 KLBS - MOTOR RPM: 125 - DIFF: 400 TO 600 PSI - OFF-BTM PSI: 4750 PSI - OFF-BTM TRQ: 5-7 - M/W OUT - 11.5 / 51 - CONN GAS: 4852 UNITS <p>Survey @ MD: 17294 / INC: 90.19 / AZ: 252.84 / TVD: 11570.62 4.0 ABOVE AND 31.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 17,200' SHOWED 65% SHALE, 35% LIME ST</p>
12:00	16:30	4.50	Drilling	<p>DRILLED 6" LATERAL F/ 17,280 - 17,515 - 235'</p> <ul style="list-style-type: none"> - AROP: 52.22 FPH - STRING RPM: 80 TO 100 - FLOW: 230-250 GPM - ON-BTM PSI: 5136 PSI - ON-BTM TRQ: 9 - 10 - M/W: IN - 11.6 / 45 - BBG: 2912 UNITS - WOB: 15 - 25 KLBS - MOTOR RPM: 125 - DIFF: 400 TO 600 PSI - OFF-BTM PSI: 4762 PSI - OFF-BTM TRQ: 5-7 - M/W OUT - 11.5 / 51 - CONN GAS: 4852 UNITS <p>Survey @ MD: 17389 / INC: 90.82 / AZ: 252.73 / TVD: 11569.74 5.0 ABOVE AND 32.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 17,400' SHOWED 15% SHALE, 85% LIME ST</p>
16:30	17:00	0.50	Planned	PERFORMED RIG SERVICE
17:00	21:00	4.00	Drilling	<p>DRILLED 6" LATERAL F/ 17,515 - 17,700 - 185'</p> <ul style="list-style-type: none"> - AROP: 46.25 FPH - STRING RPM: 80 TO 100 - FLOW: 230-250 GPM - ON-BTM PSI: 4550 PSI - ON-BTM TRQ: 9 - 10 - M/W: IN - 11.4 / 43 - BBG: 3434 UNITS - WOB: 15 - 20 KLBS - MOTOR RPM: 125 - DIFF: 400 TO 600 PSI - OFF-BTM PSI: 4050 PSI - OFF-BTM TRQ: 5-7 - M/W OUT - 11.3 / 45 - CONN GAS: 5425 UNITS <p>Survey @ MD: 17673 / INC: 89.44 / AZ: 253.18 / TVD: 11568.18 7.0 ABOVE AND 34.0' RIGHT OF TARGET LINE</p> <p>START LOOSING 30 TO 40 BPH @ 17,500, MIXING LCM ON THE FLY RUNNING 20 BPH BW</p> <p>LAST SAMPLE AT 17,700' SHOWED 30% SHALE, 70% LIME ST</p>

[illegible]

	Daily Cost Report		Well Name:	<u>RK-UTL 3031B-17-1H</u>
			Report Date:	<u>09/17/2016</u>
			Daily Cost	<u>\$38,390</u>
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$392,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey		\$16,200	\$168,696
830.060	Bits, Tools, Stabalizers			\$80,000
830.065	Fuel, Power			\$100,994
830.070	Equipment Rental		\$1,632	\$122,117
830.071	Hot Shot Trucking	DELIVER SETTING TOOL, CEMENT HEAD & JEWEL	\$908	\$4,671
830.075	Mud & Chemicals			\$213,910
830.080	Mud Logging		\$1,850	\$45,400
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$75,511
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$98,800
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$7,338
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$38,390	\$1,677,510
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$38,390	\$1,748,958
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/18/2016

API

Field	Phantom Wolfcamp	Supervisor	BILLY LALONDE	Report No.	30
Location		Supervisor 2	PAUL STERNADEL	DFS	26
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	5	Daily Cost	\$72,745.00
Depth (MD)	17,930	TVD at Bit	11,567	Cum. Cost	\$1,821,703.20
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	11.5
FV	42
PV	17
YP	20
LCM (ppb)	
Chlorides	92000
% Solids	8.07
Daily Losses	
Total Losses	150

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	
Max RPM	
Max Torque	
Max Pull	
Bkgrnd Gas	
Max Gas	
Cnx Gas	
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.58'		4.81
Sub	5.31'	2.62	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Shock Sub			
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.39'		4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	127.02		

Bit Info

[illegible]


Activity Summary (6:00am - 6:00am)

[illegible]

Total Hours:		24									
24 Hour Activity Summary:											
DRILL 6" LATERAL TO 17,930', TRIP OUT, LD BHA, PICK UP NEW BHA, TEST, TIH											
24 Hour Plan Forward:											
TIH,DOWN LINK RSS TOOL, DRLG 6" LATERAL											
Safety				Fuel							
Last BOP Test	09/11/2016	Last BOP Drill	09/06/2016	Last Function Test	9/17/2016	Diesel Used		Diesel Recvd		Diesel on Loc	8,438

<div></div> <div>Daily Cost Report</div>		Well Name: <u>RK-UTL 3031B-17-1H</u>		
		Report Date: <u>09/18/2016</u>		
		Daily Cost <u>\$72,745</u>		
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$406,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	PICKED UP NEW MOTOR & RSS TOOL	\$35,650	\$204,346
830.060	Bits, Tools, Stabalizers			\$80,000
830.065	Fuel, Power			\$100,994
830.070	Equipment Rental		\$1,632	\$123,749
830.071	Hot Shot Trucking			\$4,671
830.075	Mud & Chemicals		\$15,813	\$229,723
830.080	Mud Logging		\$1,850	\$47,250
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$75,511
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$102,600
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$7,338
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$72,745	\$1,750,255
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$72,745	\$1,821,703
WellEz Information Management Ver4.21.14bg				

				DRILLED 6" LATERAL F/ 18,217 TO 18,353'- 136 FT - AROP: 45.3' FPH - STRING RPM: 55 TO 70 - FLOW: 230-250 GPM - ON-BTM PSI: 4490 PSI - ON-BTM TRQ: 8 - 10 - M/W: IN - 11.8 / 40 - BBG: 301 UNITS - WOB: 15 - 19 KLBS - MOTOR RPM: 125 - DIFF: 350 TO 650 PSI - OFF-BTM PSI: 4068 PSI - OFF-BTM TRQ: 5-7 - M/W OUT - 11.7 / 40 - CONN GAS - 1553 UNITS Survey @ MD: 18130' / INC: 90.80' / AZ: 253.01 / TVD: 11562.61' 7.0 ABOVE AND 39.0' RIGHT OF TARGET LINE LAST SAMPLE AT 18,300' SHOWED 70% SHALE, 30% LIME ST ***NO PULSES FROM MWD TOOLS, FLAT LINED, WORKED TO REGAIN COMMUNICATION WITHOUT SUCCESS DECISION WAS MADE TO TRIP OUT F/ MWD							
00:00	03:00	3.00	Drilling								
03:00	03:30	0.50	UnPlanned	DOWN LINK RSS TOOL TO NEUTRAL FILL TRIP TANK CIRC OUT NUT PLUG SWEEP WHILE WORKING DRILL STRING							
03:30	06:00	2.50	UnPlanned	CHECK FLOW TRIPPED OUT OF THE HOLE F/ 18,353' TO 15,500' -MONITOR HOLE ON TRIP TANK: HOLE IS TAKING PROPER FILL - AVERAGE TRIP SPEED: 80' FPM IN LATERAL - HOLE CONDITIONS: GOOD, NO OVER PULL SEEN							
Total Hours:		24									
24 Hour Activity Summary:											
WORK ON TOP DRIVE COUNTER BALANCE, TRIP IN HOLE, WASH & REAM TO BOTTOM, DRLG 6" LATERAL TO 18,353'											
24 Hour Plan Forward:											
DRLG 6" LATERAL TO PLAN TARGET OF 22,196 +/-, TOH F/ MWD FAILURE											
Safety				Fuel							
Last BOP Test	09/11/2016	Last BOP Drill	09/06/2016	Last Function Test	9/17/2016	Diesel Used	951	Diesel Recvd		Diesel on Loc	6,382

	Daily Cost Report		Well Name:	<u>RK-UTL 3031B-17-1H</u>
			Report Date:	<u>09/19/2016</u>
			Daily Cost	<u>\$57,692</u>
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$420,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	PICKED UP NEW MOTOR & RSS TOOL	\$17,650	\$221,996
830.060	Bits, Tools, Stabalizers			\$80,000
830.065	Fuel, Power			\$100,994
830.070	Equipment Rental		\$1,632	\$125,381
830.071	Hot Shot Trucking			\$4,671
830.075	Mud & Chemicals		\$18,760	\$248,483
830.080	Mud Logging		\$1,850	\$49,100
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$75,511
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$106,400
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$7,338
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$57,692	\$1,807,947
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$57,692	\$1,879,395
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/20/2016

API

Field	Phantom Wolfcamp	Supervisor	BILLY LALONDE	Report No.	32
Location		Supervisor 2	PAUL STERNADEL	DFS	28
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage		Daily Cost	\$44,932.00
Depth (MD)	18,353	TVD at Bit	11,562	Cum. Cost	\$1,953,712.51
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	11.6
FV	44
PV	16
YP	18
LCM (ppb)	
Chlorides	92000
% Solids	9.47
Daily Losses	0
Total Losses	150

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	
Max RPM	
Max Torque	
Max Pull	
Bkgrnd Gas	
Max Gas	
Cnx Gas	
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.58'		4.81
Sub	5.31'	2.62	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Shock Sub			
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.39'		4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	127.02		

Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	08:00	2.00	UnPlanned	TRIPPED OUT OF THE HOLE F/ 16,250' T/ 13,120' MONITOR HOLE ON TRIP TANK: HOLE IS TAKING PROPER FILL - AVERAGE TRIP SPEED: 1,565' FPH - HOLE CONDITIONS: GOOD, NO OVER PULL SEEN
08:00	08:30	0.50	UnPlanned	PULL ROT. HEAD NOTE: HELD SCOPE MEETING PRIOR TO PULLING HEAD PERFORMED FLOW CHECK NO FLOW
08:30	14:00	5.50	UnPlanned	TRIPPED OUT OF THE HOLE F/ 13,120' T/ BHA MONITOR HOLE ON TRIP TANK: HOLE IS TAKING PROPER FILL - AVERAGE TRIP SPEED: 1,565' FPH - HOLE CONDITIONS: GOOD, NO OVER PULL SEEN NOTE: PERFORMED FLOW CHECK @ 12,015 NO FLOW
14:00	15:00	1.00	UnPlanned	LAY DOWN BHA / BREAK BIT OFF / PULL RESTICTOR OUT OF RSS CHANGE OUT MWD
15:00	16:00	1.00	UnPlanned	SURFACE TEST MWD AND RSS GOOD TEST
16:00	17:00	1.00	UnPlanned	INSTALL RISTRICTOR/ MAKE UP BIT/ AND TOMAX
17:00	22:00	5.00	UnPlanned	TRIPPED IN THE HOLE F/ BHA T/10,085 MONITOR HOLE ON TRIP TANK: HOLE IS DISPLACING PROPERLY - HOLE CONDITIONS: GOOD, NO OVER PULL SEEN
22:00	23:30	1.50	UnPlanned	CUT AND SLIP 100 FOOT OF DRILLING LINE= 13 WRAPS NOTE: RESET C.O.M. AND RECALIBRATE BLOCK HEIGHT
23:30	00:00	0.50	UnPlanned	PERFORMED RIG SERVICE & ADJUST DRUM BRAKES
00:00	00:30	0.50	UnPlanned	TRIPPED IN THE HOLE F/ 10,085' T/10,919' MONITOR HOLE ON TRIP TANK: HOLE IS DISPLACING PROPERLY - HOLE CONDITIONS: GOOD,
00:30	01:00	0.50	UnPlanned	INSTALL ROT. HEAD NOTE: HELD SCOPE MEETING PRIOR TO PULLING HEAD PERFORMED FLOW CHECK NO FLOW
01:00	02:00	1.00	UnPlanned	TRIPPED IN THE HOLE F/ 10,919' T/12,600' MONITOR HOLE ON TRIP TANK: HOLE IS DISPLACING PROPERLY - HOLE CONDITIONS: GOOD, TIH @ 80 FPM
02:00	02:30	0.50	UnPlanned	FILL PIPE & TEST MWD TOOL OUT SIDE OF CSG @ 12,600' (GOOD TEST)

				TRIPPED IN THE HOLE F/ 12,600' T/17,136'
				MONITOR HOLE ON TRIP TANK: HOLE IS DISPLACING PROPERLY
02:30	06:00	3.50	UnPlanned	- HOLE CONDITIONS: GOOD, TIH @ 80 FPM
Total Hours:		24		
24 Hour Activity Summary:				
TOOH, CHANGE OUT MWD, TIH				
24 Hour Plan Forward:				
FINISH TIH , DRLG TO A TD OF 22,196+-				
Safety				Fuel
Last BOP Test	09/11/2016	Last BOP Drill	09/19/2016	Last Function Test 9/19/2016
Diesel Used		928	Diesel Recvd	
Diesel on Loc		5,454		

	Daily Cost Report		Well Name:	RK-UTL 3031B-17-1H
			Report Date:	09/20/2016
			Daily Cost	\$44,932
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$434,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	PICKED UP NEW MWD	\$17,650	\$239,646
830.060	Bits, Tools, Stabalizers		\$6,000	\$98,000
830.065	Fuel, Power			\$100,994
830.070	Equipment Rental		\$1,632	\$127,013
830.071	Hot Shot Trucking			\$4,671
830.075	Mud & Chemicals			\$263,753
830.080	Mud Logging		\$1,850	\$50,950
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$76,812
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$110,200
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$8,152
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$44,932	\$1,882,264
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$44,932	\$1,953,713
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/21/2016

API

Field	Phantom Wolfcamp	Supervisor	BILLY LALONDE	Report No.	33
Location		Supervisor 2		DFS	29
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	646	Daily Cost	\$51,752.24
Depth (MD)	18,999	TVD at Bit	11,556	Cum. Cost	\$2,011,364.41
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	11.8
FV	40
PV	18
YP	18
LCM (ppb)	
Chlorides	112000
% Solids	4.75
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	20
Max RPM	80
Max Torque	13
Max Pull	245
Bkgrnd Gas	325
Max Gas	2500
Cnx Gas	2175
Trip Gas	4800

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.54'		4.81
Sub	5.31'	2.62	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Sub	16.85'	2.50	4.74
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.39'		4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.83		

Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
				TRIPPED IN THE HOLE F/ 17,136' T/18,023'
06:00	07:00	1.00	UnPlanned	MONITOR HOLE ON TRIP TANK: HOLE IS DISPLACING PROPERLY - HOLE CONDITIONS: GOOD, TIH @ 80 FPM
07:00	08:30	1.50	UnPlanned	RELOG GAMMA F/ 18,023' T/ 18,100' @ 100 FPM
				TRIPPED IN THE HOLE F/ 18,100' T/18,353'
08:30	09:30	1.00	UnPlanned	MONITOR HOLE ON TRIP TANK: HOLE IS DISPLACING PROPERLY - HOLE CONDITIONS: GOOD, TIH @ 80 FPM DOWN LINK RSS TO INC. AND AZI HOLD ON LAST STAND
09:30	14:30	5.00	Drilling	DRILLED 6" LATERAL F/ 18,353' TO 18,557'- 204 FT - AROP: 40.8' FPH - WOB: 15 - 19 KLBS - STRING RPM: 55 TO 70 - MOTOR RPM: 130 - FLOW: 230-250 GPM - DIFF: 350 TO 650 PSI - ON-BTM PSI: 4526 PSI - OFF-BTM PSI: 4117 PSI - ON-BTM TRQ: 9 - 11 - OFF-BTM TRQ: 4-6 - M/W: IN - 11.8 / 40 - M/W OUT - 11.8 / 40 - BBG: 926 UNITS - CONN GAS - 1553 UNITS Survey @ MD: 18,432' / INC: 90.39 / AZ: 250.2 / TVD: 11559.00 15.0 ABOVE AND 36.0' RIGHT OF TARGET LINE LAST SAMPLE AT 18,400' SHOWED 20% SHALE, 80% LIME ST
14:30	15:30	1.00	Planned	PERFORMED RIG SERVICE
15:30	18:00	2.50	Drilling	DRILLED 6" LATERAL F/ 18,557' TO 18,655'- 98 FT - AROP: 49' FPH - WOB: 15 - 19 KLBS - STRING RPM: 55 TO 70 - MOTOR RPM: 130 - FLOW: 230-250 GPM - DIFF: 350 TO 650 PSI - ON-BTM PSI: 4390 PSI - OFF-BTM PSI: 3658 PSI - ON-BTM TRQ: 12 - 14 - OFF-BTM TRQ: 4-6 - M/W: IN - 11.8 / 40 - M/W OUT - 11.8 / 40 - BBG: 926 UNITS - CONN GAS - 1553 UNITS Survey @ MD: 18,620' / INC: 90.96 / AZ: 250.63 / TVD: 11557.61 15.0 ABOVE AND 36.0' RIGHT OF TARGET LINE LAST SAMPLE AT 18,400' SHOWED 20% SHALE, 80% LIME ST
18:00	22:00	4.00	Drilling	DRILLED 6" LATERAL F/ 18,655' TO 18,776'- 121 FT - AROP: 30.25' FPH - WOB: 15 - 19 KLBS - STRING RPM: 55 TO 70 - MOTOR RPM: 130 - FLOW: 230-250 GPM - DIFF: 350 TO 650 PSI - ON-BTM PSI: 4177 PSI - OFF-BTM PSI: 3658 PSI - ON-BTM TRQ: 10 - 12 - OFF-BTM TRQ: 4-6 - M/W: IN - 11.8 / 40 - M/W OUT - 11.8 / 40 - BBG: 511 UNITS - CONN GAS - 4052 UNITS Survey @ MD: 18,714' / INC: 91.13 / AZ: 250.38 / TVD: 11555.90 19.0 ABOVE AND 27.0' RIGHT OF TARGET LINE LAST SAMPLE AT 18,700' SHOWED 60% SHALE, 40% LIME ST

22:00	23:00	1.00	UnPlanned	REPLACE OIL RING IN STANP PIPE - AROP: 35' FPH - STRING RPM: 55 TO 70 - FLOW: 230-250 GPM - ON-BTM PSI: 4177 PSI - ON-BTM TRQ: 10 - 12 - M/W: IN - 11.8 / 40 - BBG: 511 UNITS Survey @ MD: 18,714' / INC: 91.13 / AZ: 250.38 / TVD: 11555.90 19.0 ABOVE AND 27.0' RIGHT OF TARGET LINE LAST SAMPLE AT 18,700' SHOWED 60% SHALE, 40% LIME ST
23:00	00:00	1.00	Drilling	
				DRILLED 6" LATERAL F/ 18,811' TO 18,999'- 188 FT - AROP: 31' FPH - STRING RPM: 60 TO 80 - FLOW: 230-250 GPM - ON-BTM PSI: 4150 PSI - ON-BTM TRQ: 12.0 - 13.0 - M/W: IN - 11.6 / 41 - BBG: 1,500 UNITS SURVEY AT 18,902' MD, INC: 90.62°, AZM: 250.42° TVD AT 11,553.51' 21.0 ABOVE AND 21.0' RIGHT OF TARGET LINE LAST SAMPLE AT 18,800' SHOWED 70% SHALE, 30% LIME ST
00:00	06:00	6.00	Drilling	



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/22/2016

API

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	34
Location		Supervisor 2		DFS	30
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	501	Daily Cost	\$72,748.99
Depth (MD)	19,500	TVD at Bit	11,547	Cum. Cost	\$2,084,113.40
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	11.8
FV	43
PV	17
YP	19
LCM (ppb)	
Chlorides	109000
% Solids	4.83
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	22
Max RPM	115
Max Torque	16.5
Max Pull	277
Bkgrnd Gas	778
Max Gas	3758
Cnx Gas	3726
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.54'		4.81
Sub	5.31'	2.62	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Sub	16.85'	2.50	4.74
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.39'		4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.83		


Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	10:00	4.00	Drilling	<p>DRILLED 6" LATERAL F/ 18,999' TO 19,139'- 140 FT</p> <ul style="list-style-type: none"> - AROP: 35' FPH - STRING RPM: 90 - 115 RPM - FLOW: 240 - 250 GPM - ON-BTM PSI: 3,850 PSI - ON-BTM TRQ: 12.0 - 15.0 - M/W: IN - 11.4 / 36 - BBG: 1,950 UNITS - WOB: 15 - 20 KLBS - MOTOR RPM: 125 - 130 - DIFF: 250 TO 525 PSI - OFF-BTM PSI: 3,300 PSI - OFF-BTM TRQ: 7.5 - 9.0 - M/W OUT - 11.1+ / 34 - CONN GAS - 2,300 UNITS <p>- SURVEY AT 19,195' MD, INC: 90.27°, AZM: 250.35°, TVD AT 11,550.65' □</p> <p>- 24.0' ABOVE AND 13.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 19,100' SHOWED 70% SHALE, 30% LIME ST</p>
10:00	12:00	2.00	Drilling	<p>DRILLED 6" LATERAL F/ 19,139' TO 19,218'- 79 FT</p> <ul style="list-style-type: none"> - AROP: 40' FPH - STRING RPM: 85 - 100 RPM - FLOW: 250 GPM - ON-BTM PSI: 4,150 PSI - ON-BTM TRQ: 11.0 - 16.0 - M/W: IN - 11.6 / 39 - BBG: 2,150 UNITS - WOB: 15 - 20 KLBS - MOTOR RPM: 130 - DIFF: 300 - 700 PSI - OFF-BTM PSI: 3,850 PSI - OFF-BTM TRQ: 8.0 - 9.0 - M/W OUT - 11.4 / 37 - CONN GAS - 2,750 UNITS <p>LAST SAMPLE AT 19,100' SHOWED 70% SHALE, 30% LIME ST</p>
12:00	12:30	0.50	Planned	PERFORMED RIG AND TOP DRIVE SERVICE
12:30	16:15	3.75	Drilling	<p>DRILLED 6" LATERAL F/ 19,218' TO 19,309'- 91 FT</p> <ul style="list-style-type: none"> - AROP: 25' FPH - STRING RPM: 80 - 120 RPM - FLOW: 230 - 250 GPM - ON-BTM PSI: 4,125 PSI - ON-BTM TRQ: 12.0 - 16.0 - M/W: IN - 11.8+ / 42 - BBG: 1,175 UNITS - WOB: 10 - 20 KLBS - MOTOR RPM: 120 - 130 - DIFF: 450 - 800 PSI - OFF-BTM PSI: 3,750 PSI - OFF-BTM TRQ: 8.0 - 9.0 - M/W OUT - 11.5 / 37 - CONN GAS - 2,625 UNITS <p>LAST SAMPLE AT 19,200' SHOWED 70% SHALE, 30% LIME ST</p>
16:15	20:45	4.50	Planned	<p>WHILE DRILLING IN THE LATERAL SECTION THE DRILLING GOT RATTY, TORQUE STARTED TO GET HIGH AND HAD A HARD TIME GETTING WEIGHT TO THE BIT. CALLS WHERE MADE AND THE DECISION WAS MADE TO PERFORM A CLEAN UP CYCLE.</p> <p>- WORKED THE DRILL STRING 90' WHILE ROTATING AT 115 RPM.</p> <p>- BUILT AND PUMPED 2 HIGH VIS SWEEPS WHILE WORKING THE DRILL STRING.</p> <p>NOTE: BEFORE THE CLEAN UP CYCLE THE OFF BOTTOM TORQUE WAS 8,300 TO 8,500, P/U WAS 275, S/O WAS 180 AND ROT WAS 230.</p> <p>AFTER THE CLEAN UP CYCLE THE OFF BOTTOM TORQUE WAS 7,800 TO 8,100, P/U WAS 274, S/O WAS 191 AND ROT WAS 226.</p>

				<div>- AROP: 28' FPH - STRING RPM: 85 - 100 RPM - FLOW: 240 - 250 GPM - ON-BTM PSI: 4,650 PSI - ON-BTM TRQ: 13.0 - 17.0 - M/W: IN - 12.2 / 42 - BBG: 1,775 UNITS</div> <div>- WOB: 15 - 20 KLBS - MOTOR RPM: 125 - 130 - DIFF: 250 - 400 PSI - OFF-BTM PSI: 4,350 PSI - OFF-BTM TRQ: 9.0 - 10.0 - M/W OUT - 12.1 / 45 - CONN GAS - 2,075 UNITS</div> <div>- SURVEY AT 19,372' MD, INC: 91.31°, AZM: 252.91°, TVD AT 11,548.42'□ - 26.0' ABOVE AND 12.0' RIGHT OF TARGET LINE</div> <div>LAST SAMPLE AT 19,400' SHOWED 50% SHALE, 50% LIME ST</div>
20:45	02:00	5.25	Drilling	
				<div>DRILLED 6" LATERAL F/ 19,398' TO 19,500'- 102 FT</div> <div>- AROP: 25' FPH - STRING RPM: 75 - 100 RPM - FLOW: 240 - 250 GPM - ON-BTM PSI: 4,850 PSI - ON-BTM TRQ: 12.0 - 15.0 - M/W: IN - 12.2+ / 42 - BBG: 525 UNITS</div> <div>- WOB: 15 - 18 KLBS - MOTOR RPM: 125 - 130 - DIFF: 250 - 450 PSI - OFF-BTM PSI: 4,525 PSI - OFF-BTM TRQ: 9.5 - 10.0 - M/W OUT - 12.1 / 45 - CONN GAS - 725 UNITS</div> <div>- SURVEY AT 19,466' MD, INC: 90.49°, AZM: 252.50°, TVD AT 11,546.95'□ - 28.0' ABOVE AND 13.0' RIGHT OF TARGET LINE</div> <div>LAST SAMPLE AT 19,400' SHOWED 50% SHALE, 50% LIME ST</div>
02:00	06:00	4.00	Drilling	

	Daily Cost Report		Well Name:	RK-UTL 3031B-17-1H
			Report Date:	09/22/2016
			Daily Cost	\$72,749
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$462,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	PICKED UP NEW MWD	\$17,650	\$274,946
830.060	Bits, Tools, Stabalizers			\$84,648
830.065	Fuel, Power			\$112,686
830.070	Equipment Rental		\$9,691	\$138,811
830.071	Hot Shot Trucking			\$4,671
830.075	Mud & Chemicals		\$25,758	\$289,511
830.080	Mud Logging		\$1,850	\$54,650
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$87,078
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$117,800
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$17,791
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$72,749	\$2,012,665
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$72,749	\$2,084,113
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/23/2016**API**

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	35
Location		Supervisor 2		DFS	31
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	407	Daily Cost	\$56,259.00
Depth (MD)	19,907	TVD at Bit	11,543	Cum. Cost	\$2,141,844.90
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	12
FV	46
PV	25
YP	18
LCM (ppb)	0.2
Chlorides	110000
% Solids	3.26
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi
19,844'	90.52°	252.53°

Drilling Parameters

Max WOB	25
Max RPM	115
Max Torque	18.5
Max Pull	280
Bkgrnd Gas	385
Max Gas	2846
Cnx Gas	2798
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.54'		4.81
Sub	5.31'	2.62	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Sub	16.85'	2.50	4.74
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.39'		4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.83		

Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	10:00	4.00	Drilling	<p>DRILLED 6" LATERAL F/ 19,500' TO 19,610' - 110 FT</p> <p>- AROP: 28' FPH - WOB: 15 - 20 KLBS - STRING RPM: 100 - 115 RPM - MOTOR RPM: 130 - FLOW: 250 GPM - DIFF: 200 - 400 PSI - ON-BTM PSI: 4,950 PSI - OFF-BTM PSI: 4,500 PSI - ON-BTM TRQ: 14.0 - 16.0 - OFF-BTM TRQ: 9.5 - 10.0 - M/W: IN - 12.2+ / 46 - M/W OUT - 12.1+ / 47 - BBG: 700 UNITS - CONN GAS - 1375 UNITS</p> <p>- SURVEY AT 19,561' MD, INC: 90.54°, AZM: 252.34°, TVD AT 11,546.09' □ - 29.0' ABOVE AND 13.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 19,500' SHOWED 50% SHALE, 50% LIME ST</p> <p>NOTE: HAD TO CYCLE THE PUMPS 3 TIMES TO GET A SURVEY ON THE CONNECTION AT 19,595'</p>
10:00	12:00	2.00	Drilling	<p>DRILLED 6" LATERAL F/ 19,610' TO 19,688' - 78 FT</p> <p>- AROP: 39' FPH - WOB: 15 - 20 KLBS - STRING RPM: 115 RPM - MOTOR RPM: 130 - FLOW: 250 GPM - DIFF: 200 - 400 PSI - ON-BTM PSI: 4,950 PSI - OFF-BTM PSI: 4,625 PSI - ON-BTM TRQ: 15.0 - 18.5 - OFF-BTM TRQ: 10.0 - 11.0 - M/W: IN - 12.1+ / 45 - M/W OUT - 12.2 / 44 - BBG: 850 UNITS - CONN GAS - 1050 UNITS</p> <p>LAST SAMPLE AT 19,600' SHOWED 30% SHALE, 70% LIME ST</p> <p>NOTE: HAD TO CYCLE THE PUMPS 2 TIMES TO GET A SURVEY ON THE CONNECTION AT 19,690'</p>
12:00	12:30	0.50	Planned	RIG AND TOP DRIVE SERVICE
12:30	16:30	4.00	Drilling	<p>DRILLED 6" LATERAL F/ 19,688' TO 19,797' - 109 FT</p> <p>- AROP: 31' FPH - WOB: 10 - 22 KLBS - STRING RPM: 105 - 115 RPM - MOTOR RPM: 130 - FLOW: 250 GPM - DIFF: 200 - 350 PSI - ON-BTM PSI: 5,025 PSI - OFF-BTM PSI: 4,750 PSI - ON-BTM TRQ: 12.0 - 18.5 - OFF-BTM TRQ: 9.5 - 10.5 - M/W: IN - 12.1 / 44 - M/W OUT - 12.0 / 48 - BBG: 850 UNITS - CONN GAS - 1950 UNITS</p> <p>- SURVEY AT 19,750' MD, INC: 90.67°, AZM: 252.44°, TVD AT 11,543.05' □ - 29.0' ABOVE AND 13.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 19,700' SHOWED 70% SHALE, 30% LIME ST</p>

16:30	20:30	4.00	Drilling	<div>DRILLED 6" LATERAL F/ 19,797' TO 19,891' - 94 FT</div> <div>- AROP: 27' FPH - STRING RPM: 115 RPM - FLOW: 250 GPM - ON-BTM PSI: 4,850 PSI - ON-BTM TRQ: 13.5 - 17.5 - M/W: IN - 12.1+ / 40 - BBG: 750 UNITS</div> <div>- WOB: 10 - 25 KLBS - MOTOR RPM: 130 - DIFF: 200 - 550 PSI - OFF-BTM PSI: 4,600 PSI - OFF-BTM TRQ: 8.5 - 9.5 - M/W OUT - 11.9+ / 41 - CONN GAS - 2800 UNITS</div> <div>- SURVEY AT 19,844' MD, INC: 90.52°, AZM: 252.53°, TVD AT 11,542.60'□ - 32.0' ABOVE AND 14.0' RIGHT OF TARGET LINE</div> <div>LAST SAMPLE AT 19,800' SHOWED 90% SHALE, 10% LIME ST</div>
20:30	22:00	1.50	Drilling	<div>DRILLED 6" LATERAL F/ 19,891' TO 19,907' - 16 FT</div> <div>- AROP: 11' FPH - STRING RPM: 100 - 115 RPM - FLOW: 250 GPM - ON-BTM PSI: 4,675 PSI - ON-BTM TRQ: 14.0 - 17.5 - M/W: IN - 12.1+ / 40 - BBG: 350 UNITS</div> <div>- WOB: 10 - 25 KLBS - MOTOR RPM: 130 - DIFF: 150 - 450 PSI - OFF-BTM PSI: 4,450 PSI - OFF-BTM TRQ: 9.0 - 10.5 - M/W OUT - 12.0 / 41 - CONN GAS - 2850 UNITS</div> <div>LAST SAMPLE AT 19,800' SHOWED 90% SHALE, 10% LIME ST</div>
22:00	23:00	1.00	Planned	<div>FINISHED CIRCULATING A LUBE SWEEP OUT OF THE HOLE WHILE WORKING THE DRILL STRING AND PREPARING TO P.O.O.H. DUE LOW ROP.</div> <div>- WHILE CIRCULATING WE DOWN LINKED THE RSS TOOL, BUILT A DRY JOB, FILLED TRIP TANKS AND PREPARED FLOOR TO TRIP. ONCE THE SWEEP WAS OUT OF THE HOLE, FLOW CHECKED - WELL WAS STATIC, PUMPED DRY JOB.</div>
23:00	05:00	6.00	Planned	<div>TRIPPED OUT OF THE HOLE WITH 4.5" DRILL PIPE F/ 19,907' T/ 12,317' - 7" CASING SHOE</div> <div>MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 49.3 BBLS - ACTUAL FILL: 44 BBLS</div> <div>- AVERAGE TRIP SPEED: 1,265' FPH</div> <div>- HOLE CONDITIONS: GOOD, NO OVER PULL SEEN</div> <div>NOTE: PULLED ROTATING HEAD AND PERFORMED A FLOW CHECK AT 12,300' - WELL STATIC</div> <div>NOTE: HAD PROBLEMS ON SOME OF THE 4.5" DS-40 DRILL PIPE GETTING STUCK IN THE ELEVATORS. HAD TO SCREW INTO A FEW STANDS AND PULL THEM OUT OF THE HOLE THAT WAY.</div>
05:00	06:00	1.00	Planned	<div>TRIPPED OUT OF THE HOLE WITH 4.5" HWDP, 4.5" DRILL PIPE AND 4" DRILL PIPE F/ 12,317' T/ 10,344'</div> <div>MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 22.7 BBLS - ACTUAL FILL: 19 BBLS</div> <div>- AVERAGE TRIP SPEED: 1,975' FPH</div> <div>- HOLE CONDITIONS: GOOD, NO PROBLEMS IN CASING.</div> <div>NOTE: PERFORMED A TRIP BOP DRILL WITH NIGHT CREW.</div>
Total Hours:		24		
24 Hour Activity Summary:				
DRILLED AHEAD TO 19,907' ROP FELL OFF, CIRCULATED, STARTED TO T.O.O.H.				
24 Hour Plan Forward:				
DRILL AHEAD IN THE LATERAL SECTION				
Safety				
Last BOP Test	09/11/2016	Last BOP Drill	09/22/2016	Last Function Test 9/20/2016
Fuel		Diesel Used	2,381	Diesel Recvd
		Diesel on Loc	7,715	

	Daily Cost Report		Well Name:	<u>RK-UTL 3031B-17-1H</u>
			Report Date:	<u>09/23/2016</u>
			Daily Cost	<u>\$56,259</u>
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$476,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	PICKED UP NEW MWD	\$17,650	\$292,596
830.060	Bits, Tools, Stabalizers			\$84,648
830.065	Fuel, Power			\$112,686
830.070	Equipment Rental		\$1,657	\$140,468
830.071	Hot Shot Trucking			\$4,671
830.075	Mud & Chemicals		\$15,332	\$304,843
830.080	Mud Logging		\$1,850	\$56,500
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$88,550
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$121,600
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs		\$1,970	\$19,761
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$56,259	\$2,070,396
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$56,259	\$2,141,845
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/24/2016**API**

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	36
Location		Supervisor 2		DFS	32
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	349	Daily Cost	\$58,717.23
Depth (MD)	20,256	TVD at Bit	11,540	Cum. Cost	\$2,200,562.13
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	12.1
FV	44
PV	20
YP	22
LCM (ppb)	0.2
Chlorides	110000
% Solids	2.54
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi
20,127'	90.43°	252.84°

Drilling Parameters

Max WOB	25
Max RPM	115
Max Torque	16.5
Max Pull	288
Bkgrnd Gas	498
Max Gas	2336
Cnx Gas	1754
Trip Gas	1465

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.54'		4.81
Sub	5.31'	2.63	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Sub	16.85'	2.50	4.74
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.13'	1.25	4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.57		

Bit Info

Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
10	6	SMITH	MDI613	JK4694	13,13,12	17,930'	18,353'	423'	9.0	47.0	CT-SH-IN GAUGE-X-NA-MV
11	6	SMITH	MDI611	JK5396	13,13,12	18,353'	19,907'	1,554'	53.0	29.0	5-8-RO-S-1/16-X-BT-RDP
12	6	SMITH	MDI611	4740	3X13'S	19,907'		349'	6.3	56.0	----- -----

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	09:45	3.75	Planned	<p>TRIPPED OUT OF THE HOLE WITH 4.5" DRILL PIPE AND 4" DRILL PIPE F/ 10,344' T/ 147'</p> <p>MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 58.3 BBLS - ACTUAL FILL: 55 BBLS</p> <p>- AVERAGE TRIP SPEED: 2,725' FPH</p> <p>- HOLE CONDITIONS: GOOD, NO PROBLEMS IN CASING.</p> <p>NOTE: PULLED ROTATING HEAD AT 6,175' AND FLOW CHECKED - WELL STATIC</p>
09:45	12:00	2.25	Planned	<p>HELD PJSM WITH RIG CREW ON HANDLING BHA.</p> <p>WORKED BHA AS FOLLOWS:</p> <p>- PICKED UP TO FILLTER SUB LOOKED GOOD, PULLED MWD TOOL. WE PULLED THE SLEAVE OUT OF THE UBHO AND FOUND NO PROBLEM, PICKED UP TO THE TOMAX AND FOUND NO VISUAL DAMAGE OR OIL LEAKING, PICKED AND BROKE BIT OFF, CHECKED MOTOR AND THE RSS - MOTOR SELF DRAINED AND THE RSS HAD NO VISUAL DAMAGE, NO SEALS SHOWING AND PADS WHERE TIGHT.</p> <p>- PICKED UP NEW MOTOR AND BIT, MADE UP DRILLING ASSEMBLY, INSTALLED MWD TOOLS AND TESTED - TESTED GOOD.</p> <p>- NOTE: FUNCTION TESTED BLIND RAMS WHILE OUT OF THE HOLE.</p>
12:00	16:00	4.00	Planned	<p>TRIPPED IN THE HOLE WITH 4" DRILL PIPE, 4.5" DRILL PIPE AND 4.5" HWDP F/ 147' - T/ 10,727' - KOP</p> <p>MONITOR DISPLACEMENTS ON TRIP TANK: - CALCULATED DIS.: 184.3 BBLS - ACTUAL DIS.: 187 BBLS</p> <p>- AVERAGE TRIP SPEED: 2,650 FPH</p> <p>- FILL PIPE AND CHECK MWD TOOLS EVERY 30 STANDS.</p> <p>- HOLE CONDITIONS: CASED HOLE.</p> <p>- INSTALLED ROTATING HEAD AT 10,672'</p>
16:00	17:30	1.50	Planned	<p>HUNG THE BLOCKS OFF AND SLIPPED AND CUT 64' OF DRILLING LINE.</p> <p>NOTE: RESET AND TESTED THE CROWN-O-MATIC</p>
17:30	23:15	5.75	Planned	<p>TRIPPED IN THE HOLE WITH 4.5" DRILL PIPE AND 4.5" HWDP F/ 10,727' - T/ 19,875'</p> <p>MONITOR DISPLACEMENTS ON TRIP TANK: - CALCULATED DIS.: 179.3 BBLS - ACTUAL DIS.: 184 BBLS</p> <p>- AVERAGE TRIP SPEED: 1,830 FPH</p> <p>- FILL PIPE AND CHECK MWD TOOL EVERY 30 STANDS.</p> <p>- HOLE CONDITIONS: NO HOLE PROBLEMS NOTICED WHILE TRIPPING IN OPEN HOLE.</p> <p>NOTE: HAD TO RELOG FROM 19,590' TO 19,670'</p>
23:15	23:45	0.50	Planned	FILLED THE PIPE, UP LINKED THE RSS TOOL, WASHED AND REAMED F/ 19,875' - T/ 19,907'

				<div>DRILLED 6" LATERAL F/ 19,907' - T/ 20,066' - 159 FT</div> <div><div><div>- AROP: 58' FPH</div><div>- STRING RPM: 100 - 105 RPM</div><div>- FLOW: 235 - 250 GPM</div><div>- ON-BTM PSI: 4,850 PSI</div><div>- ON-BTM TRQ: 11.0 - 14.0</div><div>- M/W: IN - 11.8+ / 40</div><div>- BBG: 1075 UNITS</div></div><div><div>- WOB: 10 - 20 KLBS</div><div>- MOTOR RPM: 122 - 130</div><div>- DIFF: 200 - 600 PSI</div><div>- OFF-BTM PSI: 4,450 PSI</div><div>- OFF-BTM TRQ: 8.5 - 9.5</div><div>- M/W OUT - 11.8 / 42</div><div>- CONN GAS - 2325 UNITS</div></div></div> <div>- SURVEY AT 19,938' MD, INC: 91.11°, AZM: 253.05°, TVD AT 11,541.32'□</div> <div>- 33.0' ABOVE AND 15.0' RIGHT OF TARGET LINE</div> <div>LAST SAMPLE AT 20,000' SHOWED 70% SHALE, 30% LIME ST</div>
23:45	03:00	3.25	Drilling	
				<div>DRILLED 6" LATERAL F/ 20,066' - T/ 20,256' - 190 FT</div> <div><div><div>- AROP: 76' FPH</div><div>- STRING RPM: 100 RPM</div><div>- FLOW: 235 GPM</div><div>- ON-BTM PSI: 5000 PSI</div><div>- ON-BTM TRQ: 14.0 - 16.5</div><div>- M/W: IN - 12.0+ / 40</div><div>- BBG: 950 UNITS</div></div><div><div>- WOB: 15 - 20 KLBS</div><div>- MOTOR RPM: 122</div><div>- DIFF: 300 - 600 PSI</div><div>- OFF-BTM PSI: 4,300 PSI</div><div>- OFF-BTM TRQ: 9.5 - 10.5</div><div>- M/W OUT - 11.9+ / 42</div><div>- CONN GAS - 2080 UNITS</div></div></div> <div>- SURVEY AT 20,127' MD, INC: 90.43°, AZM: 252.84°, TVD AT 11,539.65'□</div> <div>- 35.0' ABOVE AND 16.0' RIGHT OF TARGET LINE</div> <div>LAST SAMPLE AT 20,100' SHOWED 70% SHALE, 30% LIME ST</div>
03:00	06:00	3.00	Drilling	

	Daily Cost Report		Well Name:	RK-UTL 3031B-17-1H
			Report Date:	09/24/2016
			Daily Cost	\$58,717
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$490,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	PICKED UP NEW MWD	\$17,650	\$310,246
830.060	Bits, Tools, Stabalizers	6" Bit - Ser.# JK5396	\$6,000	\$90,648
830.065	Fuel, Power			\$112,686
830.070	Equipment Rental		\$12,247	\$152,715
830.071	Hot Shot Trucking			\$4,671
830.075	Mud & Chemicals		\$2,845	\$307,688
830.080	Mud Logging		\$1,850	\$58,350
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$88,550
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$125,400
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs		\$325	\$20,086
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$58,717	\$2,129,114
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$58,717	\$2,200,562
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/25/2016**API**

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	37
Location		Supervisor 2		DFS	33
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	765	Daily Cost	\$46,478.11
Depth (MD)	21,021	TVD at Bit	11,532	Cum. Cost	\$2,248,490.24
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	12.3
FV	42
PV	20
YP	21
LCM (ppb)	
Chlorides	135000
% Solids	1.86
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi
20,978'	90.36°	252.67°

Drilling Parameters

Max WOB	20
Max RPM	115
Max Torque	18.5
Max Pull	285
Bkgrnd Gas	1013
Max Gas	2738
Cnx Gas	2735
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.54'		4.81
Sub	5.31'	2.63	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Sub	16.85'	2.50	4.74
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.13'	1.25	4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.57		

Bit Info

[illegible]

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	09:00	3.00	Drilling	<p>DRILLED 6" LATERAL F/ 20,256' - T/ 20,419' - 163 FT</p> <p>- AROP: 65' FPH - WOB: 10 - 20 KLBS - STRING RPM: 100 - 115RPM - MOTOR RPM: 125 - FLOW: 240 GPM - DIFF: 350 - 600 PSI - ON-BTM PSI: 5025 PSI - OFF-BTM PSI: 4,325 PSI - ON-BTM TRQ: 14.0 - 17.0 - OFF-BTM TRQ: 9.5 - 11.5 - M/W: IN - 12.2 / 41 - M/W OUT - 12.2 / 42 - BBG: 1125 UNITS - CONN GAS - 2425 UNITS</p> <p>- SURVEY AT 20,316' MD, INC: 90.41°, AZM: 252.37°, TVD AT 11,539.03' □ - 36.0' ABOVE AND 16.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 20,300' SHOWED 80% SHALE, 20% LIME ST</p>
09:00	12:00	3.00	Drilling	<p>DRILLED 6" LATERAL F/ 20,419' - T/ 20,539' - 120 FT</p> <p>- AROP: 48' FPH - WOB: 15 - 20 KLBS - STRING RPM: 95 - 115RPM - MOTOR RPM: 125 - FLOW: 240 GPM - DIFF: 300 - 650 PSI - ON-BTM PSI: 5,100 PSI - OFF-BTM PSI: 4,350 PSI - ON-BTM TRQ: 13.0 - 16.5 - OFF-BTM TRQ: 9.0 - 11.5 - M/W: IN - 12.2 / 41 - M/W OUT - 12.1+ / 42 - BBG: 830 UNITS - CONN GAS - 2150 UNITS</p> <p>- SURVEY AT 20,410' MD, INC: 90.27°, AZM: 252.49°, TVD AT 11,538.45' □ - 36.0' ABOVE AND 16.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 20,400' SHOWED 70% SHALE, 30% LIME ST</p>
12:00	12:45	0.75	Planned	RIG SERVICE - CHANGED OUT DRILLER'S SIDE TUGGER LINE SHIVE IN THE DERRICK .
12:45	17:00	4.25	Drilling	<p>DRILLED 6" LATERAL F/ 20,539' - T/ 20,738' - 199 FT</p> <p>- AROP: 53' FPH - WOB: 10 - 18 KLBS - STRING RPM: 115 RPM - MOTOR RPM: 120 - 125 - FLOW: 230 - 240 GPM - DIFF: 150 - 750 PSI - ON-BTM PSI: 4,925 PSI - OFF-BTM PSI: 4,175 PSI - ON-BTM TRQ: 14.0 - 18.0 - OFF-BTM TRQ: 9.0 - 10.5 - M/W: IN - 12.2+ / 42 - M/W OUT - 12.2 / 40 - BBG: 900 UNITS - CONN GAS - 2400 UNITS</p> <p>- SURVEY AT 20,694' MD, INC: 90.56°, AZM: 252.72°, TVD AT 11,534.00' □ - 39.0' ABOVE AND 18.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 20,600' SHOWED 85% SHALE, 15% LIME ST</p> <p>NOTE: PERFORMED A DRILLING BOP DRILL WITH DAYLIGHT RIG CREW.</p>

				DRILLED 6" LATERAL F/ 20,738' - T/ 20,918' - 180 FT - AROP: 51' FPH - STRING RPM: 115 RPM - FLOW: 240 GPM - ON-BTM PSI: 4,875 PSI - ON-BTM TRQ: 13.0 - 17.5 - M/W: IN - 12.2+ / 41 - BBG: 1025 UNITS - WOB: 12 - 18 KLBS - MOTOR RPM: 125 - DIFF: 250 - 700 PSI - OFF-BTM PSI: 4,175 PSI - OFF-BTM TRQ: 9.5 - 10.5 - M/W OUT - 12.3 / 42 - CONN GAS - 2735 UNITS - SURVEY AT 20,884' MD, INC: 90.58°, AZM: 252.58°, TVD AT 11,533.05'□ - 42.0' ABOVE AND 19.0' RIGHT OF TARGET LINE LAST SAMPLE AT 20,800' SHOWED 80% SHALE, 20% LIME ST NOTE: HAD TO CYCLE THE PUMPS 2 TIMES AT 20,823' AND 2 TIMES AT 20,918 FOR SURVEYS.
17:00	21:00	4.00	Drilling	
				DRILLED 6" LATERAL F/ 20,918' - T/ 21,021' - 103 FT - AROP: 25' FPH - STRING RPM: 100 - 115 RPM - FLOW: 240 GPM - ON-BTM PSI: 4,675 PSI - ON-BTM TRQ: 12.5 - 16.5 - M/W: IN - 12.2+ / 41 - BBG: 900 UNITS - WOB: 12 - 22 KLBS - MOTOR RPM: 125 - DIFF: 250 - 500 PSI - OFF-BTM PSI: 4,450 PSI - OFF-BTM TRQ: 9.5 - 10.5 - M/W OUT - 12.3 / 42 - CONN GAS - 2725 UNITS - SURVEY AT 20,978' MD, INC: 90.36°, AZM: 252.67°, TVD AT 11,532.26'□ - 40.0' ABOVE AND 20.0' RIGHT OF TARGET LINE LAST SAMPLE AT 21,000' SHOWED 80% SHALE, 20% LIME ST
21:00	01:30	4.50	Drilling	
				WHILE DRILLING AHEAD AT 20,997' THE TORQUE AND DIFF. PRESSURE DROPPED OFF. WENT FROM 35 TO 50 FPH DOWN TO 15 TO 20 FPH. TRIED TO RESTART A FEW TIMES WITH DIFFRENT PARAMETERS WITH NO RESULTS. DRILLED AHEAD TO SEE IF THE GAMMA CHANGED BUT IT DID'NT, DRILLING SAMPLES SHOW 80% SHALE AND 20% LS. CALLS WHERE MADE AND THE DECISION WAS MADE TO P.O.O.H. - FINISHED CIRCULATING A LUBE SWEEP OUT OF THE HOLE WHILE WORKING THE DRILL STRING AND PREPARING TO P.O.O.H. - WHILE CIRCULATING WE DOWN LINKED THE RSS TOOL, BUILT A DRY JOB, FILLED TRIP TANKS AND PREPARED FLOOR TO TRIP. ONCE THE SWEEP WAS OUT OF THE HOLE, FLOW CHECKED - WELL WAS STATIC, PUMPED DRY JOB.
01:30	03:00	1.50	UnPlanned	
				TRIPPED OUT OF THE HOLE WITH 4.5" DRILL PIPE AND 4.5" HWDP F/ 21,021' T/ 14,770' MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 40.6 BBLS - ACTUAL FILL: 34 BBLS - AVERAGE TRIP SPEED: 2,075' FPH - HOLE CONDITIONS: GOOD, NO OVER PULL SEEN
03:00	06:00	3.00	UnPlanned	
Total Hours:		24		
24 Hour Activity Summary: DRILLED AHEAD IN THE LATERAL SECTION, HAD A DTF, CIRCULATED AND STARTED P.O.O.H.				
24 Hour Plan Forward: DRILL AHEAD IN THE LATERAL SECTION				
Safety				
Last BOP Test		09/11/2016	Last BOP Drill	09/24/2016
Last Function Test		9/23/2016	Fuel	
Diesel Used		1,742	Diesel Recvd	
Diesel on Loc		5,035		

	Daily Cost Report		Well Name:	RK-UTL 3031B-17-1H
			Report Date:	09/25/2016
			Daily Cost	\$46,478
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$504,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	PICKED UP NEW MWD	\$17,650	\$329,346
830.060	Bits, Tools, Stabalizers			\$90,648
830.065	Fuel, Power			\$112,686
830.070	Equipment Rental		\$1,677	\$154,392
830.071	Hot Shot Trucking			\$4,671
830.075	Mud & Chemicals		\$7,501	\$315,189
830.080	Mud Logging		\$1,850	\$60,200
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$88,550
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$129,200
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$20,086
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$46,478	\$2,177,042
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$46,478	\$2,248,490
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/26/2016

API

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	38
Location		Supervisor 2		DFS	34
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	22	Daily Cost	\$82,636.43
Depth (MD)	21,043	TVD at Bit	11,532	Cum. Cost	\$2,331,126.67
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	12.2
FV	42
PV	23
YP	19
LCM (ppb)	0.1
Chlorides	115000
% Solids	3.67
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	20
Max RPM	115
Max Torque	13.5
Max Pull	285
Bkgrnd Gas	1013
Max Gas	2738
Cnx Gas	2735
Trip Gas	1925

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.25'		4.81
Sub	5.31'	2.63	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Sub	16.85'	2.50	4.74
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.13'	1.25	4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.28		

Bit Info

Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
10	6	SMITH	MDI613	JK4694	13,13,12	17,930'	18,353'	423'	9.0	47.0	CT-SH-IN GAUGE-X-NA-MV
11	6	SMITH	MDI611	JK5396	13,13,12	18,353'	19,907'	1,554'	53.0	29.0	5-8-RO-S-1/16-X-BT-ROP
12	6	SMITH	MDI611	4740	3X13'S	19,907'	21,021'	1,114'	25.0	45.0	2-8-LT-S-1-X-BT-PR
13	6	SMITH	MDI611	JK7491	3X13'S	21,021'		22'	1.0	22.0	-----

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	11:30	5.50	UnPlanned	<p>TRIPPED OUT OF THE HOLE WITH 4.5" DRILL PIPE, 4.5" HWDP AND 4" DRILL PIPE F/ 14,770' - T/ 147'</p> <p>MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 100.7BBLS - ACTUAL FILL: 94 BBLS</p> <p>- AVERAGE TRIP SPEED: 2,650' FPH</p> <p>- HOLE CONDITIONS: GOOD, NO PROBLEMS OPEN HOLE OR IN CASING.</p> <p>NOTE: PULLED ROTATING HEAD AT 10,925' AND FLOW CHECKED - WELL STATIC</p>
11:30	14:15	2.75	UnPlanned	<p>HELD PJSM WITH RIG CREW ON HANDLING BHA.</p> <p>WORKED BHA AS FOLLOWS:</p> <p>- PICKED UP TO FILTER SUB LOOKED GOOD, PULLED MWD TOOL, PICKED UP TO THE TOMAX AND FOUND NO VISUAL DAMAGE OR OIL LEAKING FROM IT, PICKED AND BROKE BIT OFF, CHECKED MOTOR AND THE RSS - MOTOR LOOKED GOOD AND FELT TIGHT BUT SELF DRAINED AND THE RSS HAD NO VISUAL DAMAGE, NO SEALS SHOWING BUT HAD 1 PAD PUSHED OUT.</p> <p>- PICKED UP NEW MOTOR, RSS AND BIT, MADE UP DRILLING ASSEMBLY, INSTALLED MWD TOOLS AND TESTED - TESTED GOOD.</p> <p>- NOTE: FUNCTION TESTED BLIND RAMS WHILE OUT OF THE HOLE.</p>
14:15	18:15	4.00	UnPlanned	<p>TRIPPED IN THE HOLE WITH 4" DRILL PIPE, 4.5" DRILL PIPE AND 4.5" HWDP F/ 147' - T/ 10,775'</p> <p>MONITOR DISPLACEMENTS ON TRIP TANK: - CALCULATED DISPLACEMENT: 184.3 BBLS - ACTUAL DISPLACEMENT: 187 BBLS</p> <p>- AVERAGE TRIP SPEED: 2,630 FPH</p> <p>- FILL PIPE AND CHECK MWD TOOLS EVERY 30 STANDS.</p> <p>- HOLE CONDITIONS: GOOD THROUGH THE CASED HOLE.</p> <p>- INSTALLED ROTATING HEAD AT 10,658'</p>
18:15	19:45	1.50	UnPlanned	HUNG THE BLOCKS OFF AND SLIPPED AND CUT 61' OF DRILLING LINE.
19:45	20:15	0.50	UnPlanned	NOTE: RESET AND TESTED THE CROWN-O-MATIC
20:15	05:00	8.75	UnPlanned	<p>PERFORMED RIG AND TOP DRIVE SERVICE</p> <p>TRIPPED IN THE HOLE WITH 4.5" DRILL PIPE AND 4.5" HWDP F/ 10,775' - T/ 20,989'</p> <p>MONITOR DISPLACEMENTS ON TRIP TANK: - CALCULATED DISPLACEMENT: 176.5 BBLS - ACTUAL DISPLACEMENT: 183 BBLS</p> <p>- AVERAGE TRIP SPEED: 1,550 FPH</p> <p>- FILL PIPE AND CHECK MWD TOOLS EVERY 30 STANDS.</p> <p>- HOLE CONDITIONS: GOOD THROUGH THE CASED HOLE AND HAD TO REAM TO GET BACK TO BOTTOM - REAM FROM 17,423' TO 17,518' - 95', FROM 19,030' TO 19,124' - 94' AND FROM 20,759' TO 21,021' - 262' BOTTOM</p> <p>NOTE: FILLED PIPE AND PUMPED UP A SURVEY AT 12,615' - HAD TO REPROGRAM MWD TOOL TO OBTAIN A SURVEY.</p>

				UP LINKED THE RSS TOOL AND DRILLED 6" LATERAL F/ 21,021' - T/ 21,043' - 22 FT
				- AROP: 22' FPH - STRING RPM: 115 RPM - FLOW: 240 GPM - ON-BTM PSI: 5,225 PSI - ON-BTM TRQ: 13.5 - 14.5 - M/W: IN - 12.2 / 41 - BBG: 500 UNITS
				- WOB: 10 - 15 KLBS - MOTOR RPM: 125 - DIFF: 250 - 450 PSI - OFF-BTM PSI: 4,950 PSI - OFF-BTM TRQ: 9.5 - 10.5 - M/W OUT - 12.2 / 42 - CONN GAS - 1925 UNITS
				- SURVEY AT 20,978' MD, INC: 90.36°, AZM: 252.67°, TVD AT 11,532.26'□ - 40.0' ABOVE AND 20.0' RIGHT OF TARGET LINE
				LAST SAMPLE AT 21,000' SHOWED 80% SHALE, 20% LIME ST
05:00	06:00	1.00	Drilling	
	</			

	Daily Cost Report		Well Name:	RK-UTL 3031B-17-1H
			Report Date:	09/26/2016
			Daily Cost	\$82,636
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$518,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	PICKED UP NEW MWD	\$37,150	\$366,496
830.060	Bits, Tools, Stabalizers		\$6,000	\$96,648
830.065	Fuel, Power		\$11,980	\$124,665
830.070	Equipment Rental		\$1,677	\$156,069
830.071	Hot Shot Trucking			\$4,671
830.075	Mud & Chemicals		\$6,180	\$321,369
830.080	Mud Logging		\$1,850	\$62,050
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$88,550
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$133,000
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$20,086
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$82,636	\$2,259,678
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$82,636	\$2,331,127
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/27/2016**API**

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	39
Location		Supervisor 2		DFS	35
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	250	Daily Cost	\$63,984.75
Depth (MD)	21,293	TVD at Bit	11,532	Cum. Cost	\$2,384,541.42
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	12.6
FV	40
PV	20
YP	22
LCM (ppb)	
Chlorides	123000
% Solids	3.42
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi
21,167'	90.03°	251.85°

Drilling Parameters

Max WOB	20
Max RPM	140
Max Torque	18.5
Max Pull	285
Bkgrnd Gas	1138
Max Gas	2649
Cnx Gas	1259
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.25'		4.81
Sub	5.31'	2.63	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Sub	16.85'	2.50	4.74
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.13'	1.25	4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.28		


Bit Info

Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
10	6	SMITH	MDI613	JK4694	13,13,12	17,930'	18,353'	423'	9.0	47.0	CT-SH-IN GAUGE-X-NA-MV
11	6	SMITH	MDI611	JK5396	13,13,12	18,353'	19,907'	1,554'	53.0	29.0	5-8-RO-S-1/16-X-BT-ROP
12	6	SMITH	MDI611	4740	3X13'S	19,907'	21,021'	1,114'	25.0	45.0	2-8-LT-S-1/8-X-BT-PR
13	6	SMITH	MDI611	JK7491	3X13'S	21,021'	21,293'	272'	8.0	34.0	1-8-RO-S--X-NR-ROP

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	11:00	5.00	Drilling	<p>DRILLED 6" LATERAL F/ 21,043' - T/ 21,275' - 232 FT</p> <p>- AROP: 51' FPH - STRING RPM: 115 RPM - FLOW: 240 - 250 GPM - ON-BTM PSI: 5,150 PSI - ON-BTM TRQ: 13.5 - 16.5 - M/W: IN - 12.6 / 40 - BBG: 875 UNITS</p> <p>- WOB: 15 - 20 KLBS - MOTOR RPM: 125 - 130 - DIFF: 250 - 600 PSI - OFF-BTM PSI: 4,600 PSI - OFF-BTM TRQ: 10.0 - 11.0 - M/W OUT - 12.4 / 43 - CONN GAS - 2100 UNITS</p> <p>- SURVEY AT 21,167' MD, INC: 90.03°, AZM: 251.85°, TVD AT 11,529.86' □ - 45.0' ABOVE AND 20.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 21,200' SHOWED 60% SHALE, 40% LIME ST</p>
11:00	12:15	1.25	UnPlanned	<p>WHILE DRILLING AHEAD, THE # 1PUMP WASHED A VALVE AND SEAT AT 21,201', SWITCHED TO #2 PUMP WHILE WORKING ON #1 PUMP, AT 21,275' THEY WASHED A SUCTION VALVE ON #2 PUMP WHILE THE #1 PUMP WAS STILL TORE DOWN.</p> <p>NOTE: MOVED THE DRILL STRING WHILE WORKING ON THE PUMPS.</p>
12:15	14:15	2.00	Drilling	<p>DRILLED 6" LATERAL F/ 21,275' - T/ 21,293' - 18 FT</p> <p>- AROP: 9' FPH - STRING RPM: 100 - 115 RPM - FLOW: 240 - 250 GPM - ON-BTM PSI: 5,450 PSI - ON-BTM TRQ: 12.0 - 18.5 - M/W: IN - 12.5 / 40 - BBG: 925 UNITS</p> <p>- WOB: 15 - 20 KLBS - MOTOR RPM: 125 - 130 - DIFF: 200 - 500 PSI - OFF-BTM PSI: 5,000 PSI - OFF-BTM TRQ: 9.0 - 11.0 - M/W OUT - 12.3+ / 42 - CONN GAS - 2650 UNITS</p> <p>- SURVEY AT 21,167' MD, INC: 90.03°, AZM: 251.85°, TVD AT 11,529.86' □ - 45.0' ABOVE AND 20.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 21,200' SHOWED 60% SHALE, 40% LIME ST</p>
14:15	17:00	2.75	UnPlanned	<p>WHILE DRILLING AHEAD AT 21,293' HAD A LITTLE TORQUE SPIKE. WENT FROM 40 TO 50 FPH DOWN TO 10 TO 20 FPH. TRIED TO RESTART A FEW TIMES WITH DIFFRENT PARAMETERS WITH NO RESULTS. DRILLED AHEAD TO SEE IF THE GAMMA CHANGED BUT IT DID'NT, DRILLING SAMPLES SHOW 70% SHALE AND 30% LS. CALLS WHERE MADE AND THE DECISION WAS MADE TO P.O.O.H.</p> <p>- FINISHED CIRCULATING A LUBE SWEEP OUT OF THE HOLE WHILE WORKING THE DRILL STRING AND PREPARING TO P.O.O.H.</p> <p>- WHILE CIRCULATING WE DOWN LINKED THE RSS TOOL, BUILT A DRY JOB, FILLED TRIP TANKS AND PREPARED FLOOR TO TRIP. ONCE THE SWEEP WAS OUT OF THE HOLE, FLOW CHECKED - WELL WAS STATIC, PUMPED DRY JOB.</p>
17:00	01:30	8.50	UnPlanned	<p>TRIPPED OUT OF THE HOLE WITH 4.5" DRILL PIPE AND 4.5" HWD F/ 21,293' T/ 146'</p> <p>MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 140.1 BBLS - ACTUAL FILL: 135 BBLS</p> <p>- AVERAGE TRIP SPEED: 2,475' FPH</p> <p>- HOLE CONDITIONS: GOOD - HAD TO WORK A TIGHT SPOT FROM 20,193' TO 20,160'. NO PROBLEMS IN THE CASED HOLE SECTION.</p> <p>NOTE: PULLED ROTATING HEAD AT 11,325', FLOW CHECKED - WELL STATIC.</p>

01:30	03:30	2.00	UnPlanned	<div>HELD PJSM WITH RIG CREW ON HANDLING BHA.</div> <div>WORKED BHA AS FOLLOWS:</div> <div>- PICKED UP TO FILLTER SUB LOOKED GOOD, PICKED UP TO THE TOMAX AND FOUND NO VISUAL DAMAGE OR OIL LEAKING FROM IT, PICKED UP AND BROKE BIT OFF, CHECKED MOTOR AND THE RSS - MOTOR LOOKED GOOD AND FELT TIGHT AND THE RSS HAD NO VISUAL DAMAGE, NO SEALS SHOWING, PADS WHERE TIGHT AND PINS IN GOOD SHAPE.</div> <div>- PICKED UP AND MADE NEW BIT AND TESTED TOOLS - TESTED GOOD.</div> <div>- NOTE: FUNCTION TESTED BLIND RAMS WHILE OUT OF THE HOLE.</div>
03:30	06:00	2.50	UnPlanned	<div>TRIPPED IN THE HOLE WITH 4" DRILL PIPE, 4.5" DRILL PIPE AND 4.5" HWDP F/ 146' - T/ 7,620'</div> <div>MONITOR DISPLACEMENTS ON TRIP TANK:</div> <div>- CALCULATED DISPLACEMENT: 122.4 BBLS</div> <div>- ACTUAL DISPLACEMENT: 130 BBLS</div> <div>- AVERAGE TRIP SPEED: 3,000 FPH</div> <div>- FILL PIPE AND CHECK MWD TOOLS EVERY 30 STANDS.</div> <div>- HOLE CONDITIONS: GOOD THROUGH THE CASED HOLE.</div>
Total Hours:		24		
24 Hour Activity Summary:				
DRILLED TO 21,293' - LOW ROP, CIRCULATED, P.O.O.H., CHANGED BITS AND STARTED T.I.H.				
24 Hour Plan Forward:				
DRILL AHEAD IN THE LATERAL SECTION TO TD				
Safety				
Last BOP Test	09/11/2016	Last BOP Drill	09/26/2016	Last Function Test 9/25/2016
Fuel				
Diesel Used	1,195	Diesel Recvd		Diesel on Loc 10,006

		Daily Cost Report			Well Name:	RK-UTL 3031B-17-1H
					Report Date:	09/27/2016
					Daily Cost	\$63,985
Intangible Costs						
Code	Description	Comments	Daily	Cum		
830.010	Permits, Licenses, ect			\$3,500		
830.020	Staking & Surveying			\$3,000		
830.030	Road, Locations			\$60,500		
830.035	Mobilization/Demobilization			\$100,000		
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$532,708		
830.050	Mouse/Rathole/Conduct Pipe			\$12,000		
830.055	Directional Drilling & Survey	PICKED UP NEW MWD	\$37,150	\$403,646		
830.060	Bits, Tools, Stabalizers			\$96,648		
830.065	Fuel, Power			\$124,665		
830.070	Equipment Rental		\$1,677	\$147,176		
830.071	Hot Shot Trucking			\$4,671		
830.075	Mud & Chemicals		\$4,303	\$325,672		
830.080	Mud Logging		\$1,850	\$63,900		
830.090	Core Analysis					
830.095	Openhole Logging			\$3,250		
830.100	Cement Services			\$127,587		
830.110	Casing Crew & Equipment			\$20,318		
830.120	Contract Labor			\$88,550		
830.160	Fishing Services					
830.165	Drill Water			\$37,210		
830.175	Supervision		\$3,800	\$136,800		
830.185	Insurance					
830.190	Legal					
830.195	P&A/TA Costs		\$1,205	\$21,291		
840.100	Cement Services (4-1/2" Liner)					
Total Intangible			\$63,985	\$2,313,093		
Tangible Costs						
Code	Description	Comments	Daily	Cum		
850.010	Conductor Casing - 13-3/8"			\$17,169		
850.015	Surface Casing - 9-5/8"					
850.120	Intermediate Casing - 7"					
850.145	Wellhead Equipment			\$54,280		
850.150	Float equipment, Centralizers & DVT					
850.275	Tangible Contingency					
860.030	Production Casing - 4-1/2"					
860.035	Liner Hanger - 4-1/2"					
Total Tangible				\$71,449		
Total Costs			\$63,985	\$2,384,541		
WellEz Information Management Ver4.21.14bg						



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/28/2016

API

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	40
Location		Supervisor 2		DFS	36
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	475	Daily Cost	\$63,815.79
Depth (MD)	21,768	TVD at Bit	11,530	Cum. Cost	\$2,454,357.21
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	12.6
FV	42
PV	20
YP	21
LCM (ppb)	
Chlorides	110000
% Solids	2.86
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi
21,734'	89.78°	252.45°

Drilling Parameters

Max WOB	20
Max RPM	100
Max Torque	18.5
Max Pull	288
Bkgrnd Gas	729
Max Gas	2977
Cnx Gas	934
Trip Gas	3761

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.25'		4.81
Sub	5.31'	2.63	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Sub	16.85'	2.50	4.74
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.13'	1.25	4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.28		

Bit Info

Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
10	6	SMITH	MDI613	JK4694	13,13,12	17,930'	18,353'	423'	9.0	47.0	CT-SH-IN GAUGE-X-NA-MV
11	6	SMITH	MDI611	JK5396	13,13,12	18,353'	19,907'	1,554'	53.0	29.0	5-8-RO-S-1/16-X-BT-ROP
12	6	SMITH	MDI611	4740	3X13'S	19,907'	21,021'	1,114'	25.0	45.0	2-8-LT-S-1/8-X-BT-PR
13	6	SMITH	MDI611	JK7491	3X13'S	21,021'	21,293'	272'	8.0	34.0	1-8-RO-S--X-NR-ROP

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
				<p>TRIPPED IN THE HOLE WITH 4.5" DRILL PIPE AND 4.5" HWDP F/ 7,620' - T/ 21,258'</p> <p>MONITOR DISPLACEMENTS ON TRIP TANK: - CALCULATED DISPLACEMENT: 267.3 BBLS - ACTUAL DISPLACEMENT: 273 BBLS</p> <p>- AVERAGE TRIP SPEED: 2,475 FPH</p> <p>- FILLED PIPE AND CHECKED MWD TOOLS EVERY 30 STANDS.</p> <p>- INSTALLED ROTATING HEAD AT 10,088'</p> <p>- HOLE CONDITIONS: GOOD THROUGH THE CASED HOLE AND THROUGH THE OPEN HOLE SECTION</p> <p>NOTE: FILLED PIPE AND PUMPED UP A SURVEY AT 12,616' - GOOD SURVEY.</p>
06:00	11:45	5.75	UnPlanned	
11:45	12:00	0.25	UnPlanned	FILLED PIPE, SYNCED UP MWD TOOLS AND WASHED FROM 21,258' TO 21,293'
				<p>DRILLED A FEW FEET WITH THE RSS IN THE NEUTRAL POSITION THEN UP LINKED THE RSS TOOL AND DRILLED 6" LATERAL F/ 21,293' - T/ 21,389' - 96 FT</p> <p>- AROP: 25' FPH - STRING RPM: 75 - 100 RPM - FLOW: 235 - 240 GPM - ON-BTM PSI: 5,600 PSI - ON-BTM TRQ: 13.0 - 14.5 - M/W: IN - 12.5 / 42 - BBG: 550 UNITS</p> <p>- WOB: 10 - 18 KLBS - MOTOR RPM: 122 - 125 - DIFF: 250 - 550 PSI - OFF-BTM PSI: 5,000 PSI - OFF-BTM TRQ: 9.0 - 10.5 - M/W OUT - 12.6 / 42 - CONN GAS - 1250 UNITS</p> <p>- SURVEY AT 21,356' MD, INC: 90.30°, AZM: 252.08°, TVD AT 11,529.09' □ - 45.0' ABOVE AND 20.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 21,000' SHOWED 80% SHALE, 20% LIME ST</p>
12:00	16:45	4.75	Drilling	
16:45	17:15	0.50	Planned	PERFORMED RIG AND TOP DRIVE SERVICE.
				<p>DRILLED 6" LATERAL F/ 21,389' - T/ 21,539' - 150 FT</p> <p>- AROP: 43' FPH - STRING RPM: 75 - 100 RPM - FLOW: 245 - 250 GPM - ON-BTM PSI: 5,650 PSI - ON-BTM TRQ: 14.5 - 16.0 - M/W: IN - 12.4 / 40 - BBG: 1450 UNITS</p> <p>- WOB: 12 - 18 KLBS - MOTOR RPM: 128 - 130 - DIFF: 275 - 550 PSI - OFF-BTM PSI: 5,200 PSI - OFF-BTM TRQ: 10.5 - 11.5 - M/W OUT - 12.4+ / 40 - CONN GAS - 2375 UNITS</p> <p>- SURVEY AT 21,451' MD, INC: 89.64°, AZM: 252.06°, TVD AT 11,529.14' □ - 45.0' ABOVE AND 20.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 21,400' SHOWED 90% SHALE, 10% LIME ST</p>
17:15	21:15	4.00	Drilling	

				<div>DRILLED 6" LATERAL F/ 21,539' - T/ 21,671' - 132 FT</div> <div><div><div>- AROP: 38' FPH</div><div>- STRING RPM: 100 RPM</div><div>- FLOW: 250 GPM</div><div>- ON-BTM PSI: 5,650 PSI</div><div>- ON-BTM TRQ: 14.0 - 16.5</div><div>- M/W: IN - 12.5 / 41</div><div>- BBG: 425 UNITS</div></div><div><div>- WOB: 10 - 18 KLBS</div><div>- MOTOR RPM: 130</div><div>- DIFF: 200 - 500 PSI</div><div>- OFF-BTM PSI: 5,125 PSI</div><div>- OFF-BTM TRQ: 10.5 - 11.5</div><div>- M/W OUT - 12.4+ / 40</div><div>- CONN GAS - 750 UNITS</div></div></div> <div><div>- SURVEY AT 21,640' MD, INC: 89.66°, AZM: 252.33°, TVD AT 11,529.64'</div><div>- 45.0' ABOVE AND 19.0' RIGHT OF TARGET LINE</div></div> <div>LAST SAMPLE AT 21,600' SHOWED 50% SHALE, 50% LIME ST</div>
21:15	01:15	4.00	Drilling	
				<div>DRILLED 6" LATERAL F/ 21,671' - T/ 21,768' - 97 FT</div> <div><div><div>- AROP: 25' FPH</div><div>- STRING RPM: 75 - 110 RPM</div><div>- FLOW: 250 GPM</div><div>- ON-BTM PSI: 5,475 PSI</div><div>- ON-BTM TRQ: 14.0 - 18.0</div><div>- M/W: IN - 12.5 / 41</div><div>- BBG: 475 UNITS</div></div><div><div>- WOB: 15 - 18 KLBS</div><div>- MOTOR RPM: 130</div><div>- DIFF: 200 - 600 PSI</div><div>- OFF-BTM PSI: 4,900 PSI</div><div>- OFF-BTM TRQ: 11.0 - 12.0</div><div>- M/W OUT - 12.4 / 44</div><div>- CONN GAS - 800 UNITS</div></div></div> <div><div>- SURVEY AT 21,734' MD, INC: 89.78°, AZM: 252.45°, TVD AT 11,530.10'</div><div>- 45.0' ABOVE AND 19.0' RIGHT OF TARGET LINE</div></div> <div>LAST SAMPLE AT 21,700' SHOWED 40% SHALE, 50% LIME ST</div>
01:15	06:00	4.75	Drilling	

<div></div> <div>Daily Cost Report</div>		Well Name: <u>RK-UTL 3031B-17-1H</u>		
		Report Date: <u>09/28/2016</u>		
		Daily Cost <u>\$63,816</u>		
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$546,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	PICKED UP NEW MWD	\$37,150	\$440,796
830.060	Bits, Tools, Stabalizers			\$102,648
830.065	Fuel, Power			\$124,665
830.070	Equipment Rental		\$1,677	\$148,853
830.071	Hot Shot Trucking			\$4,671
830.075	Mud & Chemicals		\$4,751	\$330,423
830.080	Mud Logging		\$1,850	\$65,750
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor		\$588	\$89,139
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$140,600
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$21,291
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$63,816	\$2,382,909
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$63,816	\$2,454,357
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/29/2016**API**

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	41
Location		Supervisor 2		DFS	37
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage	474	Daily Cost	\$71,145.24
Depth (MD)	22,242	TVD at Bit	11,531	Cum. Cost	\$2,525,502.45
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	12.5
FV	43
PV	21
YP	24
LCM (ppb)	
Chlorides	110000
% Solids	1.61
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi
22,241'	90.60°	252.38°

Drilling Parameters

Max WOB	25
Max RPM	115
Max Torque	19
Max Pull	285
Bkgrnd Gas	760
Max Gas	1906
Cnx Gas	1615
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.25'		4.81
Sub	5.31'	2.63	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Sub	16.85'	2.50	4.74
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.13'	1.25	4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.28		

Bit Info

Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
10	6	SMITH	MDI613	JK4694	13,13,12	17,930'	18,353'	423'	9.0	47.0	CT-SH-IN GAUGE-X-NA-MV
11	6	SMITH	MDI611	JK5396	13,13,12	18,353'	19,907'	1,554'	53.0	29.0	5-8-RO-S-1/16-X-BT-ROP
12	6	SMITH	MDI611	4740	3X13'S	19,907'	21,021'	1,114'	25.0	45.0	2-8-LT-S-1/8-X-BT-PR
13	6	SMITH	MDI611	JK7491	3X13'S	21,021'	21,293'	272'	8.0	34.0	1-8-RO-S--X-NR-ROP

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	10:00	4.00	Drilling	<p>DRILLED 6" LATERAL F/ 21,768' - T/ 21,863' - 95 FT</p> <p>- AROP: 27' FPH - STRING RPM: 100 RPM - FLOW: 250 GPM - ON-BTM PSI: 5,325 PSI - ON-BTM TRQ: 14.0 - 18.0 - M/W: IN - 12.7 / 42 - BBG: 600 UNITS</p> <p>- WOB: 18 - 22 KLBS - MOTOR RPM: 130 - DIFF: 200 - 625 PSI - OFF-BTM PSI: 5,050 PSI - OFF-BTM TRQ: 10.5 - 12.0 - M/W OUT - 12.6 / 41 - CONN GAS - 1350 UNITS</p> <p>- SURVEY AT 21,829' MD, INC: 89.92°, AZM: 252.35°, TVD AT 11,530.30' □ - 44.0' ABOVE AND 19.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 21,800' SHOWED 40% SHALE, 60% LIME ST</p>
10:00	10:30	0.50	Planned	<p>PERFORMED RIG, DRAW WORKS AND TOP DRIVE SERVICE.</p> <p>NOTE: GOT SPR'S FROM BOTH PUMPS WHILE PERFORMING SERVICE.</p>
10:30	14:30	4.00	Drilling	<p>DRILLED 6" LATERAL F/ 21,863' - T/ 21,963' - 100 FT</p> <p>- AROP: 29' FPH - STRING RPM: 100 RPM - FLOW: 250 GPM - ON-BTM PSI: 5,650 PSI - ON-BTM TRQ: 15.0 - 18.5 - M/W: IN - 12.6+ / 42 - BBG: 460 UNITS</p> <p>- WOB: 15 - 23 KLBS - MOTOR RPM: 130 - DIFF: 200 - 625 PSI - OFF-BTM PSI: 5,075 PSI - OFF-BTM TRQ: 11.0 - 12.5 - M/W OUT - 12.6 / 41 - CONN GAS - 1450 UNITS</p> <p>- SURVEY AT 21,924' MD, INC: 90.27°, AZM: 252.40°, TVD AT 11,530.19' □ - 45.0' ABOVE AND 20.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 21,800' SHOWED 40% SHALE, 60% LIME ST</p>
14:30	18:30	4.00	Drilling	<p>DRILLED 6" LATERAL F/ 21,963' - T/ 22,055' - 92' FT</p> <p>- AROP: 23' FPH - STRING RPM: 100 RPM - FLOW: 250 GPM - ON-BTM PSI: 5,650 PSI - ON-BTM TRQ: 15.0 - 18.5 - M/W: IN - 12.6+ / 42 - BBG: 460 UNITS</p> <p>- WOB: 15 - 23 KLBS - MOTOR RPM: 130 - DIFF: 200 - 625 PSI - OFF-BTM PSI: 5,075 PSI - OFF-BTM TRQ: 11.0 - 12.5 - M/W OUT - 12.6 / 41 - CONN GAS - 1450 UNITS</p> <p>- SURVEY AT 21,924' MD, INC: 90.27°, AZM: 252.40°, TVD AT 11,530.19' □ - 45.0' ABOVE AND 20.0' RIGHT OF TARGET LINE</p> <p>LAST SAMPLE AT 22000' SHOWED 70% SHALE, 30% LIME ST</p>

[illegible]

	Daily Cost Report		Well Name:	RK-UTL 3031B-17-1H
			Report Date:	09/29/2016
			Daily Cost	\$71,145
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$560,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	PICKED UP NEW MWD	\$37,150	\$477,946
830.060	Bits, Tools, Stabalizers			\$102,648
830.065	Fuel, Power			\$124,665
830.070	Equipment Rental		\$1,677	\$150,530
830.071	Hot Shot Trucking			\$4,671
830.075	Mud & Chemicals		\$12,668	\$343,091
830.080	Mud Logging		\$1,850	\$67,600
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$89,139
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$144,400
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$21,291
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$71,145	\$2,454,054
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$71,145	\$2,525,502
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 09/30/2016**API**

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	42
Location		Supervisor 2		DFS	38
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage		Daily Cost	\$71,679.21
Depth (MD)	22,242	TVD at Bit	11,531	Cum. Cost	\$2,597,181.66
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	

Mud Properties

Type	CUT BRINE
Weight	12.5
FV	43
PV	23
YP	21
LCM (ppb)	
Chlorides	140000
% Solids	1.1
Daily Losses	0
Total Losses	0

Last Survey

Depth	Inc	Azi
22,207'	90.60°	252.38°

Drilling Parameters

Max WOB	
Max RPM	115
Max Torque	16.5
Max Pull	288
Bkgrnd Gas	
Max Gas	
Cnx Gas	
Trip Gas	

BHA

Component	Length	ID	OD
Drill Bit	0.70'		6.00
Steerable Assembly	14.25'		4.81
Sub	5.31'	2.63	4.82
Monel Collar	28.09'	2.75	4.76
Stabilizer	5.23'	2.38	4.83
Sub	1.17'	2.50	4.80
Monel Collar	28.30'	3.50	4.70
Sub	16.85'	2.50	4.74
Stabilizer	5.52'	2.25	4.81
Sub	5.98'	2.25	4.77
Motor	27.13'	1.25	4.72
Stabilizer	4.75'	2.25	4.78
Total Length:	143.28		

Bit Info

Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
10	6	SMITH	MDI613	JK4694	13,13,12	17,930'	18,353'	423'	9.0	47.0	CT-SH-IN GAUGE-X-NA-MV
11	6	SMITH	MDI611	JK5396	13,13,12	18,353'	19,907'	1,554'	53.0	29.0	5-8-RO-S-1/16-X-BT-ROP
12	6	SMITH	MDI611	4740	3X13'S	19,907'	21,021'	1,114'	25.0	45.0	2-8-LT-S-1/8-X-BT-PR
13	6	SMITH	MDI611	JK7491	3X13'S	21,021'	21,293'	272'	8.0	34.0	1-8-RO-S--X-NR-ROP

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	08:00	2.00	Planned	FINISHED CIRCULATING THE WEIGHTED (1PPG - 20BBL) SWEEP OUT OF THE HOLE WHILE WORKING THE DRILL STRING AT 115 PRM; FLOW CHECKED - WELL STATIC, PUMPED PILL AND DROPPED THE 2" RABBIT WITH THE SLICK LINE.
08:00	13:00	5.00	Planned	TRIPPED OUT OF THE HOLE WITH 4.5" DRILL PIPE AND 4.5" HWDP F/ 22,242' T/ 10,845' MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 97.0 BBLS - ACTUAL FILL: 91 BBLS - AVERAGE TRIP SPEED: 2,280' FPH - HOLE CONDITIONS: GOOD - WORK THROUGH A TIGHT SPOT AT 18,975' - 25K OVER PULL. NO PROBLEMS IN THE CASSED HOLE SECTION.
13:00	14:15	1.25	Planned	FLOW CHECKED - WELL WAS STATIC, HUNG THE BLOCKS, SLIPPED AND CUT 94' OF DRILLING LINE. RECALIBRATED AND RESET THE CROWN-O-MTIC. NOTE: MONITORED WELL ON TRIP TANK WHILE SLIPPING AND CUTTING DRILL LINE.
14:15	23:30	9.25	Planned	TRIPPED OUT OF THE HOLE LAYING DOWN 4.5" DRILL PIPE AND 4.0" DRILL PIPE F/ 10,845' T/ 147' - BHA' MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 177 BBLS - ACTUAL FILL: 175.5 BBLS - AVERAGE TRIP SPEED: 1300' FPH
23:30	00:30	1.00	Planned	BROKE DOWN AND LAID DOWN BHA
00:30	01:30	1.00	Planned	CLAEN RIG FLOOR, REMOVE 4.5" DP ELEVATOR, RIG UP FILL UP LINE FOR CASING, BRING CASING FLOAT SHOE, FLOAT COLLAR, ALPHA LAMING COLLAR, ALPHA SLEEVE TO RIG FLOOR,
01:30	02:30	1.00	Planned	HELD PJSM WITH RIG CREW AND CASING CREW. RIG UP CASING CREW, POWER TONGS, TORQ TURN. - TESTED CASING EQUIPMENT.
02:30	03:30	1.00	Planned	MAKE UP SHOE TRACK, RIG UP SWEG AND CHECK FLOATS - TESTED GOOD
03:30	06:00	2.50	Planned	RUN CASING F/SHOE TRACK T/2,532'
Total Hours:		24		

24 Hour Activity Summary:

FINISHED CIRCULATING, P.O.O.H. TO HWDP, LAID DOWN DP. AND BHA, RIGGED UP AND STARTED TO RUN LINER.

24 Hour Plan Forward:

FINISH CIRCULATING, P.O.O.H. TO HWDP, LAY DOWN DP., RIG UP AND RUN LINER.

Safety					Fuel						
Last BOP Test	09/11/2016	Last BOP Drill	09/29/2016	Last Function Test	9/27/2016	Diesel Used	951	Diesel Recvd		Diesel on Loc	5,182

	Daily Cost Report			
	Well Name: <u>RK-UTL 3031B-17-1H</u>			
	Report Date: <u>09/30/2016</u>			
	Daily Cost <u>\$71,679</u>			
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$574,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	PICKED UP NEW MWD	\$37,150	\$515,096
830.060	Bits, Tools, Stabalizers	LAST BIT - SER.# JK8157	\$6,000	\$108,648
830.065	Fuel, Power			\$124,665
830.070	Equipment Rental		\$1,677	\$152,207
830.071	Hot Shot Trucking			\$4,671
830.075	Mud & Chemicals		\$6,797	\$349,888
830.080	Mud Logging		\$1,850	\$69,450
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$127,587
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$89,139
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$148,200
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs		\$405	\$21,696
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$71,679	\$2,525,733
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$71,679	\$2,597,182
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 10/01/2016

API

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	43
Location		Supervisor 2	GILBERT TERRAZAS	DFS	39
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage		Daily Cost	\$122,444.38
Depth (MD)	22,242	TVD at Bit	11,531	Cum. Cost	\$2,719,626.04
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327'	
Production	4-1/2	13.5	HCP-110	GBCD - BTC	11,667'	22,227'	N/A

Mud Properties

Type	CUT BRINE
Weight	12.5
FV	43
PV	21
YP	18
LCM (ppb)	
Chlorides	118000
% Solids	1.19
Daily Losses	
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	
Max RPM	115
Max Torque	
Max Pull	277
Bkgrnd Gas	
Max Gas	
Cnx Gas	
Trip Gas	

BHA

Component	Length	ID	OD
Total Length:			

Bit Info

Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
10	6	SMITH	MDI613	JK4694	13,13,12	17,930'	18,353'	423'	9.0	47.0	CT-SH-IN GAUGE-X-NA-MV
11	6	SMITH	MDI611	JK5396	13,13,12	18,353'	19,907'	1,554'	53.0	29.0	5-8-RO-S-1/16-X-BT-ROP
12	6	SMITH	MDI611	4740	3X13'S	19,907'	21,021'	1,114'	25.0	45.0	2-8-LT-S-1/8-X-BT-PR
13	6	SMITH	MDI611	JK7491	3X13'S	21,021'	21,293'	272'	8.0	34.0	1-8-RO-S--X-NR-ROP

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	13:00	7.00	Planned	<p>PICKED UP AND RAN IN THE HOLE WITH 4.5", 13.5#, HCP-110, GBGD BTC LINER F/ 2,065' T/ 11,611' - 9,546'</p> <p>- FILLED LINER ON THE FLY AND BROKE CIRCULATION EVERY 3,000'</p> <p>MONITORED DISPLACEMENTS: - CALCULATED DISPLACEMENT: 188 BBLS - ACTUAL DISPLACEMENTS: 193 BBLS</p> <p>AVERAGE RUNNING SPEED: 1,350 FPH</p> <p>NOTE: TORQUE ON GBGD LINER IS 7,200 - DSM AND DRILLER VERIFIED.</p>
13:00	13:30	0.50	Planned	<p>FILLED PIPE AND BROKE CIRCULATION AT 11,611' AT 3 BBLS/MIN AT 263 PSI</p> <p>- PICK UP WEIGHT: 150K - SLACK OFF WEIGHT: 140K</p>
13:30	14:45	1.25	Planned	<p>PICKED UP LINER HANGER, ZXP PACKER AND 1 STAND OF HWDP, INSTALLED ROTATING HEAD AND RIGGED DOWN CASING RUNNING EQUIPMENT.</p> <p>- CHECKED ALL THE PINS AND SLIP ELEMENTS IN THE HANGER ASSEMBLY.</p> <p>- MONITORED THE WELL ON THE TRIP TANK WHILE RIGGING DOWN TOOLS - WELL STATIC.</p> <p>NOTE: ONCE THE HANGER WAS PICKED UP, PUMPED THROUGH THE HANGER ASSEMBLY AT 3 BBLS/MIN AT 400 PSI</p>
14:45	20:30	5.75	Planned	<p>CONTINUED TO T.I.H. WITH 4.5" HCP-110, 13.5# GBGD LINER WITH 4.5" HWDP AND 4.5" DRILL PIPE FROM 11,679' TO 22,224' AT 60 FPM IN CASED HOLE AND 85 TO 100 FPM IN OPEN HOLE</p> <p>- AVERAGED RUNNING SPEED WHILE RUNNING PIPE OUT OF THE DERRICK: 1,825 FPH</p> <p>- FILLED PIPE EVERY 30 STANDS</p> <p>MONITORED DISPLACEMENTS: - CALCULATED DISPLACEMENT: 206.6 BBLS - ACTUAL DISPLACEMENTS: 112 BBLS</p> <p>- PICK UP WEIGHT BEFORE HEADING INTO OPEN HOLE WAS 165K AND SLACK OFF WEIGHT WAS 155K</p>
20:30	22:30	2.00	Planned	<p>FILL PIPE AND BROKE CIRCULATION AT 2 BPM AND STAGED UP TO 6 BPM WITH 1,825 PSI. CIRCULATED BOTTOMS UP.</p> <p>- PICK UP WEIGHT: 272K - SLACK OFF WEIGHT: 158K</p> <p>NOTE: WHILE CIRCULATING WE WASHED DOWN TO 22,241' THEN PICKED BACK UP TO 22,224' - SETTING DEPTH</p> <p>NOTE: WHILE CIRCULATING BOTTOMS UP WE HELD PJSM WITH CEMENTERS, RIG CREW AND BAKER HAND.</p>
22:30	00:30	2.00	Planned	<p>STOPPED CIRCULATING, PICKED UP AND MADE UP CEMENT HEAD. DROPPED AND PUMPED 1.25" BALL DOWN AT 45 SPM TO 400 STKS AT 1,050 PSI, SLOWED PUMPS DOWN TO 35 SPM AT 657 PSI, CAUGHT PSI AT 641 STKS - 1,790 PSI, BROUGHT PRESSURE UP TO 2,182 PSI AND HELD, BLEED PSI OFF TO 680 PSI AND SLACKED OFF FROM 242K DOWN TO 95K - SET HANGER AND SHEAR BALL SEAT AT 940 PSI, PUMPED 4 BBLS OVER AND SHUT PUMPS DOWN. DROPPED AND PUMPED THE 1.5" BALL DOWN. PUMP 45 SPM TO 400 STKS AT 925 PSI, SLOWED PUMPS TO 35 SPM AT 450 PSI, CAUGHT PRESSURE AT 720 STKS - 780 PSI, SHEARED SEAT AT 1,215 PSI. PICKED UP TO 222K TO VERIFY LINER HANGER RELEASED. SLACKED BACK OFF TO 120K THEN SET DOWN 80K FOR CEMENT JOB.</p>

				<p>RIGGED UP CEMENT LINES TO HEAD AND TESTED SURFACE LINES TO 6,000 PSI - GOOD TEST.</p> <p>PUMPED CEMENT JOB AS FOLLOWS:</p> <p>PUMPED 200 BBLS OF 10.0 PPG BRINE, MIXED AND PUMPED 30 BBLS OF WEIGHTED SPACER - 12.5 PPG, MIXED AND PUMPED PRIMARY CEMENT- 785 SKS - 212.5 BBLS @ 13.7 PPG SLURRY. SHUT DOWN AND DROP PLUG, PUMPED 170 BBLS OF CLEAN H2O, PUMPED 15 BBL WEIGHTED SPACER AT 12.5 PPG AND PUMPED 112 BBLS OF CLEAN 10.0 PPG BRINE, SLOWED RATES TO 3 BP, BUMPED THE PLUG AT 2,500 PSI WITH 297 BBLS AWAY IN DISPLACEMENT, PRESSURED UP TO 3,200 PSI - 550 PSI OVER, HELD FOR 5 MIN. RELEASED PRESSURE, BLEED BACK 4 BBLS - FLOATS HELD.</p> <p>- HAD FULL RETURNS THROUGH OUT CEMENT JOB.</p> <p>- CALCULATED TOP OF CEMENT IS AT 11,050'</p>
00:30	04:45	4.25	Planned	
04:45	06:00	1.25	Planned	<p>SET THE PACKER, PICKED UP 30' AND UNSTUNG FROM LINER HANGER, SWAPPED OVER TO RIG PUMPS AND DISPLACED LINER TOP TO SURFACE WITH CLEAN 10 PPG BRINE. ONCE DONE CIRCULATING WE SPACED OUT, SHUT THE UPPER PIPE RAMS AND TESTED LINER TOP TO 2000 PSI FOR 5 MIN. - GOOD TEST.</p> <p>NOTE: GOT BACK 30 BBLS OF SPACER BACK TO SURFACE, NO CEMENT.</p>
Total Hours:		24		
24 Hour Activity Summary:				
PICKED UP LINER, RAN IN THE HOLE ON STANDS FROM DERRICK, CIRCULATED, SET LINER, CEMENTED, DISPLACED AND TEST PACKER.				
24 Hour Plan Forward:				
PICK UP AND MAKE UP LINER, RUN LINER IN THE HOLE WITH PIPE, CIRCULATE AND SET LINER AND CEMENT.				
Safety				Fuel
Last BOP Test	09/11/2016	Last BOP Drill	09/29/2016	Last Function Test 9/30/2016
		Diesel Used		941
		Diesel Recvd		
		Diesel on Loc		4,241

	Daily Cost Report		Well Name:	RK-UTL 3031B-17-1H
			Report Date:	10/01/2016
			Daily Cost	\$122,444
Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$588,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey	PICKED UP NEW MWD	\$37,150	\$552,246
830.060	Bits, Tools, Stabalizers			\$108,648
830.065	Fuel, Power			\$124,665
830.070	Equipment Rental		\$1,677	\$153,884
830.071	Hot Shot Trucking			\$4,671
830.075	Mud & Chemicals			\$349,888
830.080	Mud Logging			\$69,450
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services		\$56,825	\$184,411
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor		\$8,993	\$98,132
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$152,000
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$21,696
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$122,444	\$2,648,177
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"			
Total Tangible				\$71,449
Total Costs			\$122,444	\$2,719,626
WellEz Information Management Ver4.21.14bg				



Daily Drilling Report

Well Name RK-UTL 3031B-17-1H

Report Date 10/02/2016

API

Field	Phantom Wolfcamp	Supervisor	JERRED BAXTER	Report No.	44
Location		Supervisor 2	GILBERT TERRAZAS	DFS	40
County	Ward	Rig Phone	1-432-653-1264	Spud Date	08/23/2016
Rig Name	Star	Rig Email	JAGGEDPEAK ENERGY101@OUTLO	AFE	
KB		Daily Footage		Daily Cost	\$106,975.04
Depth (MD)	22,242	TVD at Bit	11,531	Cum. Cost	\$2,789,451.08
Estimated TD	22,000				

Casing Data

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		929'	
Intermediate	7	32.0	P-110	LTC		12,327"	
Production	4-1/2	13.5	HCP-110	GBCD - BTC	10,584'	22,234'	N/A

Mud Properties

Type	CUT BRINE
Weight	12.5
FV	43
PV	21
YP	18
LCM (ppb)	
Chlorides	118000
% Solids	1.19
Daily Losses	
Total Losses	0

Last Survey

Depth	Inc	Azi

Drilling Parameters

Max WOB	
Max RPM	0
Max Torque	
Max Pull	
Bkgrnd Gas	
Max Gas	
Cnx Gas	
Trip Gas	

BHA

Component	Length	ID	OD
Total Length:			

Bit Info

Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	Hrs	ROP	Grade
10	6	SMITH	MDI613	JK4694	13,13,12	17,930'	18,353'	423'	9.0	47.0	CT-SH-IN GAUGE-X-NA-MV
11	6	SMITH	MDI611	JK5396	13,13,12	18,353'	19,907'	1,554'	53.0	29.0	5-8-RO-S-1/16-X-BT-ROP
12	6	SMITH	MDI611	4740	3X13'S	19,907'	21,021'	1,114'	25.0	45.0	2-8-LT-S-1/8-X-BT-PR
13	6	SMITH	MDI611	JK7491	3X13'S	21,021'	21,293'	272'	8.0	34.0	1-8-RO-S--X-NR-ROP

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	07:30	1.50	Planned	RIGGED UP AND FLUSHED ALL SURFACE LINES AND PUMPS WITH CLEAN BRINE. RIGGED DOWN CEMENTING EQUIPMENT AND LAID DOWN CEMENT HEAD.
				TRIPPED OUT OF THE HOLE LAYING DOWN 4.5" DRILL PIPE AND 4.5" HWDP FROM 10,547' TO LINER RUNNING TOOLS MONITOR HOLE ON TRIP TANK: - CALCULATED FILL: 177 BBLS - ACTUAL FILL: 175.5 BBLS - AVERAGE LAY DOWN SPEED: 875' FPH NOTE: AT 1,925' TRIPPED THE 2 STANDS OF 4.5" DP. FROM THE DERRICK IN THE HOLE AND LAID THEM DOWN NOTE: MOVED ALL THE LATERAL MUD OVER TO THE TANK FARM AND STARTED CLEANING THE MUD TANKS.
07:30	19:30	12.00	Planned	LAI D DOWN LINER HANGER TOOLS AS PER BAKER HAND.
19:30	20:00	0.50	Planned	NOTE: CONTINUED TO CLEANING THE MUD TANKS.
20:00	21:00	1.00	Planned	PICKED UP BIT GUIDE PULLING ASSEMBLY, PULLED THE BIT GUIDE AND LAID DOWN THE ASSEMBLY. NOTE: CONTINUED TO CLEANING THE MUD TANKS.
21:00	03:00	6.00	Planned	HELD PJSM WITH RIG CREW AND NIPPLE DOWN CREW ON NIPPLING DOWN THE BOPE. REMOVED FLOW LINE, FILL UP LINES, AND TURN BUCKLES. PULLED THE PRUITT HEAD AND RISER. UNBOLTED THE KILL LINE AND CHOKE LINE FROM THE STACK. RIGGED DOWN BELLS AND ELEVATORS AND RIGGED UP PICK UP SLINGS. HOOKED UP SLINGS TO BOPE, UNBOLTED, LIFTED AND PLACED STACK ON THE BOPE TROLLEY. NOTE: FINISHED CLEANING THE MUD TANKS, PRE-MIX TANK, MAINIFOLDS AND HOSES.
03:00	04:00	1.00	Planned	INSTALLED THE NIGHT CAP AND TESTED TO 5,000 PSI FOR 5MIN. - TESTED GOOD.
04:00	06:00	2.00	Planned	NOTE: RIG WAS RELEASED FROM RK-UTL 3031B-17-1H AT 4:00 A.M. ON 10/02/2016 STARTED TO RIG DOWN AND PREP FOR THE RIG MOVE TO THE RK-UTL 3031A-17-1H WELL.
Total Hours:		24		


24 Hour Activity Summary:

FINISHED, LAYING DOWN PIPE, NIPPLED DOWN BOPE, INSTALLED NIGHT CAP, TETSED AND RELEASED THE RIG.

24 Hour Plan Forward:

RIG DOWN CEMENT HEAD, P.O.O.H. LAYING DOWN PIPE, NIPPLE DOWN BOPE'S, INSTALL DUST CAP RELEASE RIG.

Safety					Fuel						
Last BOP Test	09/11/2016	Last BOP Drill	10/01/2016	Last Function Test	10/1/2016	Diesel Used	825	Diesel Recvd		Diesel on Loc	3,416



Daily Cost Report

Well Name:

RK-UTL 3031B-17-1H

Report Date:

10/02/2016

Daily Cost

\$106,975

Intangible Costs				
Code	Description	Comments	Daily	Cum
830.010	Permits, Licenses, ect			\$3,500
830.020	Staking & Surveying			\$3,000
830.030	Road, Locations			\$60,500
830.035	Mobilization/Demobilization			\$100,000
830.040	Daywork Contract	14 K A Day (\$583.33 Per H)	\$14,000	\$602,708
830.050	Mouse/Rathole/Conduct Pipe			\$12,000
830.055	Directional Drilling & Survey			\$515,096
830.060	Bits, Tools, Stabalizers			\$108,648
830.065	Fuel, Power			\$124,665
830.070	Equipment Rental		\$1,677	\$155,561
830.071	Hot Shot Trucking			\$4,671
830.075	Mud & Chemicals			\$349,888
830.080	Mud Logging			\$69,450
830.090	Core Analysis			
830.095	Openhole Logging			\$3,250
830.100	Cement Services			\$184,411
830.110	Casing Crew & Equipment			\$20,318
830.120	Contract Labor			\$98,132
830.160	Fishing Services			
830.165	Drill Water			\$37,210
830.175	Supervision		\$3,800	\$155,800
830.185	Insurance			
830.190	Legal			
830.195	P&A/TA Costs			\$21,696
840.100	Cement Services (4-1/2" Liner)			
Total Intangible			\$19,477	\$2,630,504
Tangible Costs				
Code	Description	Comments	Daily	Cum
850.010	Conductor Casing - 13-3/8"			\$17,169
850.015	Surface Casing - 9-5/8"			
850.120	Intermediate Casing - 7"			
850.145	Wellhead Equipment			\$54,280
850.150	Float equipment, Centralizers & DVT			
850.275	Tangible Contingency			
860.030	Production Casing - 4-1/2"			
860.035	Liner Hanger - 4-1/2"		\$87,498	\$87,498
Total Tangible			\$87,498	\$158,947
Total Costs			\$106,975	\$2,789,451

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