



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #102HB

Report Date: 6/16/2017
Report #: 14.0, DFS: 12.48
Time Log DFS: 12.48
Depth Progress: 175.00

API/UWI No. 42461405920000	Surface Legal Location A-U47; SEC. 11; BLK. 4 CCSD&RGNG RR CO	Well License/Permit No. 826301	State/Province TEXAS
Original Spud/Spud Rig Date 6/3/2017 18:30	Rig Release Date	KB to GL (ft) 25.00	KB-Casing Flange Distance (ft)
Original Spud/Spud Rig Date 6/3/2017	Weather WINDY/CLEAR	Temperature (°F) 80.0	Road Condition GOOD
Current Status/OART WAIT ON BAKER FISHING TOOLS @ REPORT TIME.	Hole Condition GOOD		
24 Hour Forecast P/U AND TIH WITH BAKER FISHING TOOLS. RETRIEVE BIT BLADE PIECE. PULL OUT HOLE AND L/D FISHING TOOLS. P/U DIRECTIONAL ASSEMBLY AND TIH. BUILD 8 1/2" PRODUCTION CURVE AND SURVEY.			

Short Report
BUILD CURVE AN SURVEY F/ 7957' TO 8060'. PULL 3 STANDS TO SHOE AND CHANGE OUT DAMAGED SAVER SUB, TIH, BUILD CURVE AND SURVEY F/ 8060' TO 8132'. CIRCULATE AND PUMP SLUG, POOH DUE TO LACK OF BUILD RATES. LAY DOWN DIRECTIONAL TOOLS. 8 1/2" SECURITY BIT MISSING PIECE OF CUTTER. CALL AND WAIT ON BAKER FISHING TOOLS.

Mud Volumes

Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
1,784.2	-125.0	-0.1	1,172.0	91.1	216.0	612.2

Time Log

Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
06:00	11:00	5.00	22PHCD, Prod Hole Curve Drill	DR	b	O	BUILD CURVE AND SURVEY F/ 7957' TO 8060'. AVG ROP: 20.6 FT/HR
11:00	11:30	0.50	22PHCD, Prod Hole Curve Drill	SV	f	O	PUMP SURVEY AND BREAK TIGHT CONNECTION. NOTE: DAMAGE SAVER SUB WHEN BREAKING TIGHT CONNECTION.
11:30	12:30	1.00	22PHCD, Prod Hole Curve Drill	DT	c	O	PULL 3 STANDS INTO CASING TO CHANGE OUT SAVER SUB.
12:30	14:00	1.50	22PHCD, Prod Hole Curve Drill	DT	c	O	CHANGE OUT DAMAGED SAVER SUB.
14:00	14:30	0.50	22PHCD, Prod Hole Curve Drill	DT	c	O	TIH TO BOTTOM. WASH AND REAM TIGHT SPOT @ 7793'.
14:30	19:30	5.00	22PHCD, Prod Hole Curve Drill	DR	b	O	BUILD CURVE AND SURVEY F/ 8060' TO 8132'. AVG ROP: 14.4 FT/HR. NOTE: PUMP WALL-NUT PLUG SWEEP.
19:30	20:00	0.50	22PHCD, Prod Hole Curve Drill	TR	p	O	CIRCULATE BOTTOMS UP AND BUILD SLUG. PUMP SLUG.
20:00	02:00	6.00	22PHCD, Prod Hole Curve Drill	TR	p	O	POOH DUE TO LACK TO BUILD RATES.
02:00	03:00	1.00	22PHCD, Prod Hole Curve Drill	TR	p	O	DRAIN MOTOR, BREAK BIT AND LAY DOWN DIRECTION TOOLS. 8 1/2" SECURITY BIT MISSING 2"X4" PIECE OF ONE THE BLADES.
03:00	06:00	3.00	22PHCD, Prod Hole Curve Drill	TR	q	O	NOTIFY DALLAS OFFICE OF SITUATION. CALL BAKER FISHING TOOLS FOR EQUIPMENT AND HAND. WAIT ON BAKER FISHING TOOLS AND HAND TO ARRIVE ON LOCATION. ESTIMATED ETA 10:00 AM.

Mud Checks

Time 17:00	Type INVERMUL	Depth (ftKB) 8,090.0	Density (kg/m³) (lb/g... 9.70	Funnel Viscosity (s/qt) 77	PV Calc (cP) 15.0	YP Calc (lb/100ft²) 16.007
Gel 10 sec (kPa) (lb... 13.005	Gell 10 min (kPa) (l... 19.008	Gel 30 min (kPa) (lb... 23.009	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 10.0
MBT (lb/bbl)	Percent Oil (%) 61.0	Percent Water (%) 29.0	Chlorides (kg/m³) (... 40,000.000	Calcium (kg/m³) (m... 25,000.000	Potassium (mg/L)	Electric Stab (V) 790.0

A/E Number DD.17.30779.CAP.DRL	A/E+Supp Amt (Cost) 2,177,000.00
Day Total (Cost) 54,884	Cum To Date (Cost) 1,212,880
Mud Field Est (Cost) 9,623	Cum Mud Field Est (Co... 56,787
Start Depth (ftKB) 7,957.0	End Depth (ftKB) 8,132.0
Planned Formation WOLFCAMP B	Planned TMD (ftKB) 19,216.0
Last Casing String Intermediate Casing, 7,787.0ftKB	

Daily Contacts

Job Contact	Mobile
BRIAN ALLEMAN, Engineer	214-978-8000
DAVID LANKFORD, Foreman	281-220-5828
KEVIN GOTTE, Consultant	281-220-5828
TRAVIS PERSCHE, Rig Clerk/Logistics	281-220-5829

Personnel Log

Head Count	23.0
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Rigs

HELMERICH & PAYNE DRILLING, 3	
Contractor HELMERICH & PAYNE DRILLING	Rig Number 394
Rig Supervisor JARED CARPENTER, Toolpusher	Phone Mobile 918-936-7394

1, Gardner-Denver, PZ-11

Pump Number 1	Pwr (hp) 1,300.0	Rod Diameter...
Liner Size (in) 5	Stroke (in) 11.00	Vol/Stk OR (b... 0.067
P (psi) 2,599.0	Slow Spd No	Strokes (s... Eff (%) 103 95

2, Gardner-Denver, PZ-11

Pump Number 2	Pwr (hp) 1,300.0	Rod Diameter...
Liner Size (in) 5	Stroke (in) 11.00	Vol/Stk OR (b... 0.067
P (psi) 2,599.0	Slow Spd No	Strokes (s... Eff (%) 102 95

Mud Additive Amounts

Mud Additive Description	Field Est (Cost/unit)	Consumed
12 HR MUD ENGINEER	700.00	1.0
BAROID (BULK)	205.00	37.77
CALCIUM CHL 95 -98%	17.10	12.0
DRILTREAT	97.02	7.0
LIME	6.00	15.0
WALNUT PLUG MED	13.75	15.0

Job Supplies

Supply Item Description DIESEL FOR OBM	Unit Label Gal
Total Received 8,884.6	Total Consumed 953.0
On Loc 7,931.6	
Supply Item Description DRILLING CUTTINGS	Unit Label Cu. Yds
Total Received 15.0	Total Consumed 15.0
On Loc 0.0	
Supply Item Description DRILLING WATER	Unit Label Bbl
Total Received 346.0	Total Consumed 346.0
On Loc 0.0	



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Mud Checks

Time 05:00	Type INVERMUL	Depth (ftKB) 8,132.0	Density (kg/m³) (lb/gal) 9.50	Funnel Viscosity (s/qt) 65	PV Calc (cP) 15.0	YP Calc (lb/100ft²) 15.006
Gel 10 sec (kPa) (lb/100ft²) 12.005	Gel 10 min (kPa) (lb/100ft²) 18.007	Gel 30 min (kPa) (lb/100ft²) 22.009	Filtrate (mL/30min) 40,000.000	Filter Cake (1/32") 23,000.000	pH	Solids (%) 10.0
MBT (lb/bbl) 63.0	Percent Oil (%) 27.0	Percent Water (%) 27.0	Chlorides (kg/m³) (...) 40,000.000	Calcium (kg/m³) (...) 23,000.000	Potassium (mg/L)	Electric Stab (V)

Mud Volumes

Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Addition	Water	10.0	
Hole	Hole	612.2	
Tank	Reserve	837.0	
Loss	SURFACE EQUIPMENT	216.0	
Tank	TOTAL CIRC		
Tank	INVERMUL	335.0	
Addition	CHEMICALS	81.1	
Loss	MISC. OTHER		

Drill Strings

BHA #4, Curve

Bit Run 1	Drill Bit 8 1/2in, MMD55DM, 12897412	IADC Bit Dull 4-7-BT-S-X-2-LT-BHA	TFA (incl Noz) (in²) 1.86
Nozzles (1/32") 22/22/22/22/22	BHA Length (ft) 12,129.63	String Wt (1000lbf) 22.7	Bit ROP (ft/hr)

Mud Motors

Motor Bend 2.00 FIXED	Bit to Bend 4.06	Rotor Nozzle Diameter (in)
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Drill String Components

Item Des	Manual/Tally Jts	OD (in)	ID (in)	Len (ft)	Top Thread
HWDP	21	5	3.00	664.93	IF
Drill Pipe	306	5	4.28	9,638.80	IF
Agitator		6 7/8	2.44	23.43	IF
Drill Pipe	54	5	4.28	1,702.49	IF
Drill Collar - Non Mag		6 1/2	3.25	30.02	IF
Non-Mag Hangoff Sub		6 1/2	3.25	5.46	IF
Drill Collar - Non Mag		6 1/2	3.25	29.67	IF
Mud Motor - Bent Housing		6 1/2	2.50	33.83	IF

Drilling Parameters

Wellbore UNIVERSITY 3-35 #102HB	Start Depth (ftKB) 7,957.0	End Depth (ftKB) 7,960.0	Cum Depth (ft) 157.00	Drilling Time (hr) 0.12	Cum Drill Time (hr) 4.62	Interval ROP (ft/hr) 25.0	Flow Rate (gpm) 546
WOB (1000lbf) 6	Rotary RPM (rpm) 0	SPP (psi) 2,534.0	Drill Str Wt (1000lbf) 188	PU Str Wt (1000lbf) 212	SO Str Wt (1000lbf) 203	Drilling Torque 0.0	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...

Hydraulic Calculations

Bit Hydraulic Power (hp) 23.9	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 94.4	Bit Pressure Drop (psi) 75.1	% P @ bit (%) 3
Max Casing AV (ft/min) 434.6	Max Open Hole AV (ft/min) 124.1	Min Casing AV (ft/min) 97.9	Min Open Hole AV (ft/min) 107.0	ECD End (lb/gal) 9.46

Error

Wellbore UNIVERSITY 3-35 #102HB	Start Depth (ftKB) 7,960.0	End Depth (ftKB) 7,964.0	Cum Depth (ft) 161.00	Drilling Time (hr) 0.30	Cum Drill Time (hr) 4.92	Interval ROP (ft/hr) 13.3	Flow Rate (gpm) 546
WOB (1000lbf) 6	Rotary RPM (rpm) 30	SPP (psi) 2,518.0	Drill Str Wt (1000lbf) 195	PU Str Wt (1000lbf) 212	SO Str Wt (1000lbf) 203	Drilling Torque 1.7	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...

Hydraulic Calculations

Bit Hydraulic Power (hp) 23.9	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 94.4	Bit Pressure Drop (psi) 75.1	% P @ bit (%) 3
Max Casing AV (ft/min) 434.6	Max Open Hole AV (ft/min) 124.1	Min Casing AV (ft/min) 97.9	Min Open Hole AV (ft/min) 107.0	ECD End (lb/gal) 9.46

Error

Job Supplies

Supply Item Description DRILLING WATER	Unit Label Bbl
Total Received 9,718.0	Total Consumed 9,718.0
On Loc 0.0	
Supply Item Description FUEL	Unit Label Gal
Total Received 30,833.5	Total Consumed 18,541.5
On Loc 12,292.0	
Supply Item Description LIQUID DRILLING WASTE	Unit Label Bbl
Total Received 290.0	Total Consumed 290.0
On Loc 0.0	
Supply Item Description POTABLE WATER	Unit Label Gal
Total Received 13,300.0	Total Consumed 13,300.0
On Loc 0.0	
Supply Item Description SEWAGE	Unit Label Gal
Total Received 18,400.0	Total Consumed 18,400.0
On Loc 0.0	
Supply Item Description THREAD PROTECTORS	Unit Label Box
Total Received 0.0	Total Consumed 0.0
On Loc 0.0	
Supply Item Description TRASH/GENERAL WASTE	Unit Label Ea
Total Received 0.0	Total Consumed 0.0
On Loc 0.0	

Safety Checks

Time	Type	Safety Topic
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Wellbores

Wellbore Name	
UNIVERSITY 3-35 #102HB	
Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	7,914.0



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Well Name: UNIVERSITY 3-35 #102HB

Drilling Parameters

Wellbore UNIVERSITY 3-35 #102HB	Start Depth (ftKB) 7,964.0	End Depth (ftKB) 8,006.0	Cum Depth (ft) 203.00	Drilling Time (hr) 2.40	Cum Drill Time (hr) 7.32	Interval ROP (ft/hr) 17.5	Flow Rate (gpm) 546
WOB (1000lbf) 14	Rotary RPM (rpm) 0	SPP (psi) 2,533.0	Drill Str Wt (1000... 193	PU Str Wt (1000lbf) 208	SO Str Wt (1000lbf) 202	Drilling Torque 0.0	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...

Hydraulic Calculations

Bit Hydraulic Power (hp) 23.9	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 94.4	Bit Pressure Drop (psi) 75.1	% P @ bit (%) 3
Max Casing AV (ft/min) 434.6	Max Open Hole AV (ft/min) 124.1	Min Casing AV (ft/min) 97.9	Min Open Hole AV (ft/min) 107.0	ECD End (lb/gal) 9.46

Error

Wellbore UNIVERSITY 3-35 #102HB	Start Depth (ftKB) 8,006.0	End Depth (ftKB) 8,010.0	Cum Depth (ft) 207.00	Drilling Time (hr) 0.17	Cum Drill Time (hr) 7.49	Interval ROP (ft/hr) 23.5	Flow Rate (gpm) 546
WOB (1000lbf) 41	Rotary RPM (rpm) 25	SPP (psi) 2,668.0	Drill Str Wt (1000... 183	PU Str Wt (1000lbf) 208	SO Str Wt (1000lbf) 197	Drilling Torque 6.5	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...

Hydraulic Calculations

Bit Hydraulic Power (hp) 23.9	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 94.4	Bit Pressure Drop (psi) 75.1	% P @ bit (%) 3
Max Casing AV (ft/min) 434.6	Max Open Hole AV (ft/min) 124.1	Min Casing AV (ft/min) 97.9	Min Open Hole AV (ft/min) 107.0	ECD End (lb/gal) 9.46

Error

Wellbore UNIVERSITY 3-35 #102HB	Start Depth (ftKB) 8,010.0	End Depth (ftKB) 8,058.0	Cum Depth (ft) 255.00	Drilling Time (hr) 2.00	Cum Drill Time (hr) 9.49	Interval ROP (ft/hr) 24.0	Flow Rate (gpm) 546
WOB (1000lbf) 11	Rotary RPM (rpm) 0	SPP (psi) 2,600.0	Drill Str Wt (1000... 186	PU Str Wt (1000lbf) 206	SO Str Wt (1000lbf) 197	Drilling Torque 0.0	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...

Hydraulic Calculations

Bit Hydraulic Power (hp) 23.9	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 94.4	Bit Pressure Drop (psi) 75.1	% P @ bit (%) 3
Max Casing AV (ft/min) 434.6	Max Open Hole AV (ft/min) 124.1	Min Casing AV (ft/min) 97.9	Min Open Hole AV (ft/min) 107.0	ECD End (lb/gal) 9.46

Error

Wellbore UNIVERSITY 3-35 #102HB	Start Depth (ftKB) 8,058.0	End Depth (ftKB) 8,060.0	Cum Depth (ft) 257.00	Drilling Time (hr) 0.65	Cum Drill Time (hr) 10.14	Interval ROP (ft/hr) 3.1	Flow Rate (gpm) 546
WOB (1000lbf) 13	Rotary RPM (rpm) 0	SPP (psi) 2,689.0	Drill Str Wt (1000... 188	PU Str Wt (1000lbf) 210	SO Str Wt (1000lbf) 190	Drilling Torque 0.0	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...

Hydraulic Calculations

Bit Hydraulic Power (hp) 23.9	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 94.4	Bit Pressure Drop (psi) 75.1	% P @ bit (%) 3
Max Casing AV (ft/min) 434.6	Max Open Hole AV (ft/min) 124.1	Min Casing AV (ft/min) 97.9	Min Open Hole AV (ft/min) 107.0	ECD End (lb/gal) 9.46

Error

Wellbore UNIVERSITY 3-35 #102HB	Start Depth (ftKB) 8,060.0	End Depth (ftKB) 8,068.0	Cum Depth (ft) 265.00	Drilling Time (hr) 1.20	Cum Drill Time (hr) 11.34	Interval ROP (ft/hr) 6.7	Flow Rate (gpm) 546
WOB (1000lbf) 30	Rotary RPM (rpm) 0	SPP (psi) 2,831.0	Drill Str Wt (1000... 172	PU Str Wt (1000lbf) 207	SO Str Wt (1000lbf) 180	Drilling Torque 0.0	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...

Hydraulic Calculations

Bit Hydraulic Power (hp) 23.9	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 94.4	Bit Pressure Drop (psi) 75.1	% P @ bit (%) 3
Max Casing AV (ft/min) 434.6	Max Open Hole AV (ft/min) 124.1	Min Casing AV (ft/min) 97.9	Min Open Hole AV (ft/min) 107.0	ECD End (lb/gal) 9.46

Error



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Report Date: 6/16/2017
Report #: 14.0, DFS: 12.48
Time Log DFS: 12.48
Depth Progress: 175.00

Well Name: UNIVERSITY 3-35 #102HB

Drilling Parameters

Wellbore UNIVERSITY 3-35 #102HB	Start Depth (ftKB) 8,068.0	End Depth (ftKB) 8,071.0	Cum Depth (ft) 268.00	Drilling Time (hr) 0.27	Cum Drill Time (hr) 11.61	Interval ROP (ft/hr) 11.1	Flow Rate (gpm) 546
WOB (1000lbf) 20	Rotary RPM (rpm) 30	SPP (psi) 2,769.0	Drill Str Wt (1000... 184	PU Str Wt (1000lbf) 209	SO Str Wt (1000lbf) 193	Drilling Torque 5.4	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...

Hydraulic Calculations

Bit Hydraulic Power (hp) 23.9	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 94.4	Bit Pressure Drop (psi) 75.1	% P @ bit (%) 3
Max Casing AV (ft/min) 434.6	Max Open Hole AV (ft/min) 124.1	Min Casing AV (ft/min) 97.9	Min Open Hole AV (ft/min) 107.0	ECD End (lb/gal) 9.46

Error

Wellbore UNIVERSITY 3-35 #102HB	Start Depth (ftKB) 8,071.0	End Depth (ftKB) 8,132.0	Cum Depth (ft) 329.00	Drilling Time (hr) 2.88	Cum Drill Time (hr) 14.49	Interval ROP (ft/hr) 21.2	Flow Rate (gpm) 546
WOB (1000lbf) 16	Rotary RPM (rpm) 0	SPP (psi) 2,605.0	Drill Str Wt (1000... 181	PU Str Wt (1000lbf) 210	SO Str Wt (1000lbf) 196	Drilling Torque 0.0	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...

Hydraulic Calculations

Bit Hydraulic Power (hp) 25.0	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 94.4	Bit Pressure Drop (psi) 78.4	% P @ bit (%) 3
Max Casing AV (ft/min) 434.6	Max Open Hole AV (ft/min) 124.1	Min Casing AV (ft/min) 97.9	Min Open Hole AV (ft/min) 107.0	ECD End (lb/gal) 9.87

Error

Kicks

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
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Kill Notes

Lost Circulation

Start Date 6/3/2017 20:30	Top Depth (ftKB) 192.0	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date
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Interval Problems

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
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Action Taken

Interval Lessons

Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..	Est Time Saving (hr)
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Comment

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity
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Leak Off and Formation Integrity Tests

Run Date 6/4/2017	OD (in) 13 3/8	Set Depth (ft... 684.0	Set Depth (T... 684.0	Comment	MACP Press... 500.0
Test Date 6/8/2017	Test Type Casing Test	Fluid Density (lb/gal) 9.10	EMW (lb/gal) 23.17		
Run Date 6/12/2017	OD (in) 9 5/8	Set Depth (ft... 7,787.0	Set Depth (T... 7,781.9	Comment 9 5/8" INTERMEDIATE CASING TEST ABOVE DV TOOL.	MACP Press... 1,500.0
Test Date 6/13/2017	Test Type Casing Test	Fluid Density (lb/gal) 8.80	EMW (lb/gal)		
Run Date 6/12/2017	OD (in) 9 5/8	Set Depth (ft... 7,787.0	Set Depth (T... 7,781.9	Comment 9 5/8" INTERMEDIATE CASING TEST ABOVE SHOE TRACK.	MACP Press... 1,500.0
Test Date 6/13/2017	Test Type Casing Test	Fluid Density (lb/gal) 8.80	EMW (lb/gal)		
Run Date 6/12/2017	OD (in) 9 5/8	Set Depth (ft... 7,787.0	Set Depth (T... 7,781.9	Comment PERFORM F.I.T. AS FOLLOWS: MW USED WBM @ 8.6 PPG. PUMPED 12.5 BBLS @ .5 BPM. PRESSURE UP TO 975 PSI 11.0 PPG EMW. HELD FOR 5 MINUTES.	MACP Press... 986.0
Test Date 6/13/2017	Test Type F.I.T.	Fluid Density (lb/gal) 8.60	EMW (lb/gal) 11.03		