

EP WELLS DAILY OPERATIONS REPORT

Report 1

04/26/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1406H
Wellbore	UNIVERSITY 19 PW UNIT 1406H
WBS No/API No	30264949 / 4230133213

Event Summary

Event Type	Drilling only	Event Start Date	04/26/2017	Days on Location	0.75
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date		Days Since Spud	0.00
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS JOHNSON	Measured Depth(ft)	146.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	146.00
Other Supervisor	TANNER MANUEL / YU LIU	24 Hr Progress(ft)	146.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,793.00 / 2,767.00	Hole size(in)	30.000
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,921.00ft
Actual cost to date/AFE	17,198/2,664,436.41	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.01	LOT/FIT EMW(ppg)	
Daily Cost	17,198	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	10/12/2016	196	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 453							

Operations Summary

24 Hour Summary
RIG MOVE. LOWER SUBS & DERRICK. DRESS OUT DERRICK. 23 LOADS, 10 TRUCKS, 2 CRANES. 60% RIGGED DOWN, 50% MOVED, 10% RIGGED UP.
Update Since Report Time
WAITING ON DAYLIGHTS
24 Hour Forecast
CONTINUE RIGGING DOWN. START RIGGING UP ON UNIVERSITY 19 PW UNIT 1406H

EP WELLS DAILY OPERATIONS REPORT

Report 1

04/26/2017

Well UNIVERSITY 19 PW UNIT 1406H
Wellbore UNIVERSITY 19 PW UNIT 1406H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
6:00	3.00	RIGM	RIT		146.00	0		R/D FLOOR. REMOVE FLOW LINE, FLOOR STAIRS. R/D CATWALK. PREP TO LOWER SUB. R/D MUD TANKS & PUMP HOUSE.
9:00	1.00	RIGM	RIT		146.00	0		LOCK OFF TOP DRIVE & UNPIN BLOCK & HANG OFF. R/D VENT LINES TO GAS BUSTER. UNSPOOL DRAW WORKS.
10:00	0.50	RIGM	RIT		146.00	0		DEEPWELL ON SITE. PJSM W/ DEEPWELL & RIG CREW.
10:30	3.50	RIGM	RIT		146.00	0		MOVE CATWALK. INSTALL T/D CRADLE. L/D GAS BUSTER. SPLIT MUD TANKS. EMPTY RIG FUEL.
14:00	4.00	RIGM	RIT		146.00	0		PJSM TO LOWER SUBS. LOWER SUBS. UNSPOOL WINCHES. POWER DOWN RIG. L/O PUMPS, ACCUMULATOR, GENS, DRIVE HOUSE. BLEED MAST RAISING CYLINDERS & PIN.
18:00	0.50	RIGM	RIT		146.00	0		REMOVE BOP HANDLER.
18:30	1.00	RIGM	RIT		146.00	0		PJSM TO LOWER DERRICK. LOWER DERRICK.
19:30	2.50	RIGM	RIT		146.00	0		LOWER TRANS TANK SHED TOP & L/O. DRESS DERRICK TO SPLIT.
22:00	2.00	RIGM	RIT		146.00	0		WAITING ON DAYLIGHTS. RIG WASH UNTIL MIDNIGHT.
Total	18.00							

EP WELLS DAILY OPERATIONS REPORT

Report 2

04/27/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1406H
Wellbore	UNIVERSITY 19 PW UNIT 1406H
WBS No/API No	30264949 / 4230133213

Event Summary

Event Type	Drilling only	Event Start Date	04/26/2017	Days on Location	1.75
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date		Days Since Spud	0.00
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS JOHNSON	Measured Depth(ft)	146.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	146.00
Other Supervisor	ASHLEY HRIVNAK	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,793.00 / 2,767.00	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	9.50/39.58	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,921.00ft
Actual cost to date/AFE	45,134/2,664,436.41	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.02	LOT/FIT EMW(ppg)	
Daily Cost	30,873	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	10/12/2016	197	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HOURS - 321							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	1

Operations Summary

24 Hour Summary
85% MOVED. 55% R/U. HAULED 30 LOADS W/ 9 TRUCKS.
Update Since Report Time
WAITING ON DAYLIGHT.
24 Hour Forecast
RAISE DERRICK AND SUBSTRUCTURE. MOVE CAMP AND DRILL PIPE.

EP WELLS DAILY OPERATIONS REPORT

Report 2

04/27/2017

Well UNIVERSITY 19 PW UNIT 1406H
Wellbore UNIVERSITY 19 PW UNIT 1406H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.50	RIGM	RIT		146.00	1		NPT-WAITING ON DAYLIGHT.
6:30	0.50	RIGM	SSD		146.00	0		HAZARD HUNT W/ TRUCKING COMPANY.
7:00	0.50	RIGM	RIT		146.00	0		SAFETY MEETING. REVIEW SIMOPS AND APPLICABLE CTAS.
7:30	3.50	RIGM	RIT		146.00	0		R/D MAST W/ CRANES. PREP SUBS AND DRAWWORKS FOR REMOVAL. SPOT MATTING ON NEW LOCATION.
11:00	2.00	RIGM	RIT		146.00	0		REMOVE DRAWWORKS, FLOOR BUILDINGS, AND CENTER STEEL.
13:00	3.00	RIGM	RIT		146.00	0		SPOT MUD TANKS, MUD PUMPS, AND ACCUMULATOR.
16:00	2.00	RIGM	RIT		146.00	0		SPOT DRIVE HOUSE AND GENERATORS. R/U PUMPS, TANKS, GENERATORS, AND DRIVE HOUSE. SPOT SUBS AND CENTER STEEL.
18:00	3.00	RIGM	RIT		146.00	0		SPOT DRAWWORKS AND ODS TOOL HOUSE. SET MAST ON FLOOR AND CROWN STAND. PINNED DERRICK. INSTALL MONKEY BOARD. SET DOG HOUSE.
21:00	3.00	RIGM	RIT		146.00	1		NPT-WAITING ON DAYLIGHT.
Total	24.00							

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
04/27/2017 00:00	SHELL	Wait On Daylight	146.00	RIT	N		6.50	6.50		OPEN
Description: WAIT ON DAYLIGHT DURING RIG MOVE						Title: WAIT ON DAYLIGHT				
04/27/2017 21:00	SHELL	Wait On Daylight	146.00	RIT	N		0.00	0.00		OPEN
Description: WAIT ON DAYLIGHT DURING RIG MOVE						Title: WAIT ON DAYLIGHT				
Total							6.50	6.50		

EP WELLS DAILY OPERATIONS REPORT

Report 3

04/28/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1406H
Wellbore	UNIVERSITY 19 PW UNIT 1406H
WBS No/API No	30264949 / 4230133213

Event Summary

Event Type	Drilling only	Event Start Date	04/26/2017	Days on Location	2.75
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date		Days Since Spud	0.00
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS JOHNSON	Measured Depth(ft)	146.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	146.00
Other Supervisor	ASHLEY HRIVNAK	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,793.00 / 2,767.00	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	9.00/37.50	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,921.00ft
Actual cost to date/AFE	116,235/2,664,436.41	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.04	LOT/FIT EMW(ppg)	
Daily Cost	70,678	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	10/12/2016	198	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HOURS: 315							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	2

Operations Summary

24 Hour Summary
RIG MOVE. 100% R/D. 100% MOVED. 95% R/U.
Update Since Report Time
WAITING ON DAYLIGHT.
24 Hour Forecast
FINISH R/U. ACCEPT RIG. N/U CONDUCTOR. P/U BHA. SPUD WELL.

EP WELLS DAILY OPERATIONS REPORT

Report 3

04/28/2017

Well UNIVERSITY 19 PW UNIT 1406H
Wellbore UNIVERSITY 19 PW UNIT 1406H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	7.00	RIGM	RIT		146.00	1		NPT-WAITING ON DAYLIGHT.
7:00	0.50	RIGM	SSD		146.00	0		CONDUCT HAZARD HUNT W/ TRUCKING COMPANY AND STALLION.
7:30	2.50	RIGM	RGU		146.00	0		PREP DERRICK W/ CRANES TO RAISE. DRESS DERRICK. RAISE FUEL TANK. INSTALL GROUND RODS FOR DRIVE HOUSE. SPOT DIESEL HPU. WELDER ONSITE TO MAKE MODIFICATIONS TO SHAKERS AND TRANSFER TANK.
10:00	1.50	RIGM	SSD		146.00	0		DROPS INSPECTION OF MAST. SPOT MATTING FOR PAD. SPOT CREW TRAILERS.
11:30	1.50	RIGM	RGU		146.00	0		PJSM TO RAISE MAST. CONTINUE SPOTTING CAMPS AND RAISE MAST.
13:00	3.00	RIGM	RGU		146.00	0		PREP TO RAISE SUBS. SPOT SUIT CASES. H/U LINES. SET EQUIPMENT BASKETS. STAND UP GAS BUSTER.
16:00	2.00	RIGM	RGU		146.00	0		RAISE SUBS. INSTALL SHAKER MANIFOLD AND VENT LINES.
18:00	2.50	RIGM	RGU		146.00	0		INSTALL WALKING FEET. REMOVE TOP DRIVE SHIPPING CRADLE. H/U POWER T/ RIG FLOOR.
20:30	1.50	RIGM	RGU		146.00	0		SPOOL UP WINCHES ON RIG FLOOR. TAKE OWNERSHIP OF TOOLS AT CONSOLE AND FUNCTION. INSTALL WALKING FEET ON CATWALK AND TRANSFER TANK.
22:00	2.00	RIGM	RGU		146.00	1		NPT-WAITING ON DAYLIGHT.
Total	24.00							

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
04/28/2017 22:00	SHELL	Wait On Daylight	146.00	RGU	N		0.00	0.00		OPEN
Description: WAIT ON DAYLIGHT BEFORE CONTINUING RIG MOVE						Title: WAIT ON DAYLIGHT				
							Total	0.00	0.00	

EP WELLS DAILY OPERATIONS REPORT

Report 4

04/29/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1406H
Wellbore	UNIVERSITY 19 PW UNIT 1406H
WBS No/API No	30264949 / 4230133213

Event Summary

Event Type	Drilling only	Event Start Date	04/26/2017	Days on Location	3.75
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date		Days Since Spud	0.00
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS JOHNSON	Measured Depth(ft)	146.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	146.00
Other Supervisor	ASHLEY HRIVNAK	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,793.00 / 2,767.00	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,921.00ft
Actual cost to date/AFE	163,397/2,664,436.41	Current MW / BH EMW(ppg)	8.40/
Actual divided by AFE	0.06	LOT/FIT EMW(ppg)	
Daily Cost	47,161	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	10/12/2016	199	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HOURS: 299							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	3

Operations Summary

24 Hour Summary
WAITED ON DAYLIGHT. SPOOLED UP DRAWWORKS. UNHUNG BLOCKS. FINISHED RIGGING UP WALKING SYSTEM. WALKED TO WELL CENTER. INSTALLED FLOW LINE. INSTALLED TRANSFER HOSES, SHAKER TANK STAIRS, ODS STAIRS, AND STAND PIPE. H/U SUIT CASES. COMPLETED PRE SPUD INSPECTION. ACCEPTED RIG AT 18:00. C/O LINERS T/ 6". UNLOADED DIRECTIONAL TOOLS. FILLED TANKS W/ FRESH WATER. INSTALLED PVC LINES. SET CUTTINGS BIN FOR DESANDER / DESILTER. R/U H2S EQUIPMENT. BUILT SPUD MUD. INSTALLED DUAL SOLENOID VALVES ON TOP DRIVE FOR DOLLY EXTEND. FINISHED PRE SPUD ITEMS. DRESSED 5" HANDLING TOOLS AND COLLAR SLIPS.
Update Since Report Time
CONDUCTED DROPS INSPECTION. FINISHED C/O LINERS. SECURED HANDRAILS. GREASED TOP DRIVE. DRESSED OUT SHAKERS. BOLTED DOWN FLOWLINE. H/U TRANSFER LINES.
24 Hour Forecast
N/U CONDUCTOR. C/O SAVER SUB. P/U BHA. SPUD WELL. DRILL AHEAD.

EP WELLS DAILY OPERATIONS REPORT

Report 4

04/29/2017

Well UNIVERSITY 19 PW UNIT 1406H
Wellbore UNIVERSITY 19 PW UNIT 1406H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.00	RIGM	NOA		146.00	0		WAITING ON DAYLIGHT.
6:00	4.50	RIGM	RGU		146.00	0		SPOOL UP DRAWWORKS. UNHANG BLOCKS.
10:30	1.00	RIGM	RGU		146.00	0		FINISH RIGGING UP WALKING SYSTEM AND PREPARE TO WALK TO WELL CENTER.
11:30	0.50	RIGM	RGU		146.00	0		WALK TO WELL CENTER.
12:00	6.00	RIGM	RGU		146.00	0		INSTALL FLOW LINE. INSTALL TRANSFER HOSES, SHAKER TANK STAIRS, ODS STAIRS, AND STAND PIPE. H/U SUIT CASES. COMPLETE PRE SPUD INSPECTION. ACCEPT RIG AT 18:00.
18:00	4.00	RIGM	RGU		146.00	0		C/O LINERS T/ 6". UNLOAD DIRECTIONAL TOOLS. FILL TANKS W/ FRESH WATER. INSTALL PVC LINES. SET CUTTINGS BIN FOR DESANDER / DESILTER. R/U H2S EQUIPMENT.
22:00	2.00	RIGM	RGU		146.00	0		BUILD SPUD MUD. INSTALL DUAL SOLENOID VALVES ON TOP DRIVE FOR DOLLY EXTEND. FINISH PRE SPUD ITEMS. DRESS 5" HANDLING TOOLS AND COLLAR SLIPS.
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
-22.00	0.00	0.00	-22.00	0.00	0.00	0.00		PTW MWD+HDGM_2016

Fluid Details

Mud type	Spud Mud	Oil/Water (%)	0.00/99.00	pH/Pm (cc)	7.00/0.00
MD (ft)	146.00	TS/HGS/LGS (%)	0.70//	Pf/Mf (cc)	0.00/0.20
Mud Density (ppg)	8.40	Sand (%)	0.00	Ca+ (ppm)	
Vis (s/qt)	28.00			Cl- (ppm)	1400
PV/YP (cp/lbf/100ft²)	1.00/3.000	MBT (lbm/bbl)			
Gels 10 s/m (lbf/100ft²)	1.000/1.000	LCM (lbm/bbl)			
API/HTHP WL (cc/30min)	100.0/	ECD (ppg)	8.400	R600/300 (°)	
FC/HTHP FC (32nd")	1.0/	H2S (gas unit)		R200/100 (°)	
		KCl (%)		R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

Remarks

DIESEL ON LOCATION: 7127 GAL
DIESEL DELIVERED: 7524 GAL
DIESEL USED: 397 GAL
LNG USED: 0 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 5

04/30/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1406H
Wellbore	UNIVERSITY 19 PW UNIT 1406H
WBS No/API No	30264949 / 4230133213

Event Summary

Event Type	Drilling only	Event Start Date	04/26/2017	Days on Location	4.75
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	04/30/2017	Days Since Spud	0.40
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS JOHNSON	Measured Depth(ft)	1,209.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	1,204.83
Other Supervisor	ASHLEY HRIVNAK	24 Hr Progress(ft)	1,063.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,793.00 / 2,767.00	Hole size(in)	12.250
THF Datum			
Daily NPT(hr/%)	1.00/4.17	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,943.00ft
Actual cost to date/AFE	228,263/2,664,436.41	Current MW / BH EMW(ppg)	8.40/
Actual divided by AFE	0.09	LOT/FIT EMW(ppg)	
Daily Cost	64,866	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	10/12/2016	200	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HOURS: 289							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	4
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test				

Operations Summary

24 Hour Summary
FINISHED R/U. P/U CONDUCTOR. C/O SAVER SUB. INSTALLED MOUSE HOLE. M/U BHA AND BIT. DRILLED F/ 146' T/ 1,030'.
Update Since Report Time
DRILLING AHEAD. CURRENTLY AT 2,268' (04:00).
24 Hour Forecast
DRILL AHEAD TO SECTION TD AT 4,943' +/- . PERFORM CLEAN UP CYCLES. POOH.

EP WELLS DAILY OPERATIONS REPORT

Report 5

04/30/2017

Well UNIVERSITY 19 PW UNIT 1406H
Wellbore UNIVERSITY 19 PW UNIT 1406H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	RIGM	RGU		146.00	0		CONT. C/O MUD PUMP LINERS T/ 6". DRESS SHAKERS. INSTALL TRANSFER LINES. COMPLETE DROPS INSPECTION ON TOP DRIVE AND MONKEY BOARD.
2:00	3.00	RIGM	RGU		146.00	0		BOLT DOWN CLAMPS ON FLOW LINE AT THE SHAKERS. DRESS SHAKERS W/ 170 SCREENS. R/U PUMPS AND HOSES TO FILL UP RIG WATER TANK. FINISH R/U WATER LINES IN SUB STRUCTURE TO FLOW LINE. R/U TONGS ON WEIGHTS.
5:00	1.00	RIGM	RGU		146.00	0		P/U CONDUCTOR. CONTACTED CARLA OPERATOR #9 ABOUT SPUD, CASING, AND CEMENT JOB
6:00	5.50	RIGM	RGU		146.00	0		FINISH R/U CONDUCTOR. C/O SAVER SUB F/ 4" XH T/ 4.5" IF. FILL AND TEST MUD LINES TO 1,500 PSI. FILL TRANSFER TANK AND TEST 6" LINES TO MUD TANKS. INSTALL MOUSE HOLE.
11:30	2.00	SRF1	BHA		146.00	0		M/U DIRECTIONAL TOOLS AND BIT (BHA #1 BIT: BAKER HUGHES SN# 7163430 TYPE: T606FX).
13:30	0.50	SRF1	SVC		146.00	0		RIG SERVICE - 8" DC SLIPS AND WASH PIPE
14:00	0.50	SRF1	SVC		146.00	1		NPT: 8" DC SLIPS AND WASH PIPE.
14:30	2.50	SRF1	DRL		336.00	0		ROTATE DRILL 140' - T/ 336' (196' @ 78.4 FT/HR) RPM SURFACE 20 MOTOR 152 BIT 172 WOB 25 K SPP 720 PSI GPM 600 TORQUE ON BTM 12 K TORQUE OFF BTM 2 K P/U 76 K S/O 75 K ROT 75 K MUD 9 PPG MOTOR REV: .253 GAS: 0 UNITS FLARE: NONE
17:00	0.50	SRF1	DRL		484.00	0		ROTATE DRILL F/ 336' - T/ 484' (148' @ 296 FT/HR) RPM SURFACE 85 MOTOR 227 BIT 312 WOB 15 K SPP 1900 PSI GPM 896 TORQUE ON BTM 12 K TORQUE OFF BTM 2 K P/U 76 K S/O 75 K ROT 75 K MUD 9 PPG MOTOR REV: .253 GAS: 0 UNITS FLARE: NONE
17:30	0.50	SRF1	DRL		524.00	0		SLIDE DRILL F/ 484' - T/ 524' (40' @ 80 FT/HR) RPM MOTOR 227 BIT 227 WOB 25 K SPP 2300 PSI GPM 896 P/U 105 K S/O 98 K MUD 9 PPG MOTOR REV: .253 GAS: 0 UNITS FLARE: NONE
18:00	3.50	SRF1	DRL		855.00	0		ROTATE DRILL F/ 524' - T/ 855' (331' @ 94.6 FT/HR) RPM SURFACE 85 MOTOR 226 BIT 311 WOB 38 K SPP 3400 PSI GPM 894 TORQUE ON BTM 18 K TORQUE OFF BTM 5 K P/U 126 K S/O 122 K ROT 124 K MUD 9 PPG MOTOR REV: .253 GAS: 0 UNITS FLARE: NONE
21:30	0.50	SRF1	SVC		855.00	0		RIG SERVICE - C/O SAVER SUB AND RETORQUE AND TIGHTEN COMPRESSION CLAMP.
22:00	0.50	SRF1	SVC		855.00	1		NPT: C/O SAVER SUB AND RETORQUE AND TIGHTEN COMPRESSION CLAMP.
22:30	1.50	SRF1	DRL		1,209.00	0		ROTATE DRILL F/ 855' - T/ 1,209' (354' @ 236 FT/HR) RPM SURFACE 85 MOTOR 226 BIT 311 WOB 38 K SPP 3400 PSI GPM 894 TORQUE ON BTM 18 K TORQUE OFF BTM 5 K

EP WELLS DAILY OPERATIONS REPORT

Report 5

04/30/2017

Well UNIVERSITY 19 PW UNIT 1406H
Wellbore UNIVERSITY 19 PW UNIT 1406H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								P/U 126 K S/O 122 K ROT 124 K MUD 9 PPG MOTOR REV: .253 GAS: 0 UNITS FLARE: NONE
Total	24.00							

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
04/30/2017 14:00	PRECISION DRILLING COMPANY LP	Rig/Work Unit Misc	146.00	SVC	EN	DrillCollar Slips/Elevator/Clamp	0.50	0.50		OPEN
Description: TOOK LONGER THAN EXPECTED TO GET 8" DRILL COLLAR SLIPS READY. WASHED PIPE WHILE WAITING						Title: REPAIR 8" DRILL COLLAR SLIPS				
04/30/2017 22:00	PRECISION DRILLING COMPANY LP	Rig/Work Unit Misc	855.00	SVC	EN	Top Drive/Power Swivel	0.50	0.50		OPEN
Description: C/O SAVER SUB AND RETORQUE AND TIGHTEN COMPRESSION CLAMP.						Title: CHANGE SAVER SUB				
Total							1.00	1.00		

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
664.00	6.09	333.83	663.36	16.93	-11.91	-19.59	1.95	PTW MWD+HDGM_2016
850.00	6.63	330.51	848.22	35.13	-21.55	-39.77	0.35	PTW MWD+HDGM_2016
850.00	6.63	330.51	848.22	35.20	-21.66	-39.87	0.35	PTW MWD+HDGM_2016
1,034.00	6.66	324.91	1,030.98	53.11	-32.91	-60.21	0.35	PTW MWD+HDGM_2016
1,034.00	6.66	324.91	1,030.98	53.18	-33.02	-60.31	0.35	PTW MWD+HDGM_2016

Fluid Details

Mud type	Spud Mud	Oil/Water (%)	0.00/99.20	pH/Pm (cc)	7.00/0.00
MD (ft)	1,030.00	TS/HGS/LGS (%)	0.50//	Pf/Mf (cc)	0.00/0.20
Mud Density (ppg)	8.40	Sand (%)	0.00	Ca+ (ppm)	
Vis (s/qt)	28.00			Cl- (ppm)	1340
PV/YP (cp/lbf/100ft²)	1.00/3.000	MBT (lbm/bbl)			
Gels 10 s/m (lbf/100ft²)	1.000/1.000	LCM (lbm/bbl)			
API/HTHP WL (cc/30min)	100.0/	ECD (ppg)	8.400	R600/300 (°)	
FC/HTHP FC (32nd")	1.0/	H2S (gas unit)		R200/100 (°)	
		KCl (%)		R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

Bit Details

Bit no.	Size (in)	Manufacturer	Model no.	Class	IADC code	Serial no.	Size (32nd")	MD in (ft)	MD out (ft)	IADC Dull Grade
1		BAKER OIL TOOL	T606FX			7163430	6x15	146.00		-----

Bit Operations

MD (ft)	WOB Min/Max (kip)	Current RPM (rpm)	Flow rate (gpm)	SPP (psi)	P bit (psi)	% @ Bit	HHP (hp)	Hours (hr)	Footage (ft)	ROP (ft/hr)	Hours cum (hr)	Footage cum. (ft)	ROP cum. (ft/hr)
336.00	25.0/25.0	20	600.0	720.00	259.77	36.08	90.92	2.50	190.00	76.0	2.50	190.00	76.0
484.00	15.0/15.0	85	896.0	1,900.00	579.29	30.49	302.78	0.50	148.00	296.0	3.00	338.00	112.7
524.00	25.0/25.0	0	896.0	2,300.00	579.29	25.19	302.78	0.50	40.00	80.0	3.50	378.00	108.0
855.00	38.0/38.0	85	894.0	3,400.00	576.71	16.96	300.75	3.50	331.00	94.6	7.00	709.00	101.3
1,209.00	38.0/38.0	85	894.0	3,400.00	576.71	16.96	300.75	1.50	354.00	236.0	8.50	1,063.00	125.1

EP WELLS DAILY OPERATIONS REPORT

Report 5

04/30/2017

Well UNIVERSITY 19 PW UNIT 1406H
Wellbore UNIVERSITY 19 PW UNIT 1406H

Drillstring Components									
Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
HWDP	12	368.97	5.000		2.875	4 1/2 IF			RIG
4 1/2 XH Pin x 4 1/2 IF Box	1	3.45	5.000			4 1/2 IF			RIG
DRILL COLLAR	18	533.24	6.500		2.875	4 1/2 XH			RIG
6 5/8 REG Pin x 4 1/2 XH Box	1	3.33	7.690		2.810	4 1/2 XH			DR5868
SCREEN SUB	1	2.67	7.875		3.250	6 5/8 REG			DR22548
STABILIZER	1	7.99	8.062		2.875	6 5/8 REG			DR32990
SLICK COLLAR NONMAG 8In. 6 5/8 REG. PIN X BOX 3.25In. ID	1	29.11	7.938		2.938	6 5/8 REG			NESNM800117
STABILIZER	1	6.17	7.875		2.875	6 5/8 REG			DR11567
800 GAP SUB ASSY COMPLETE VELOCITY	1	3.57	8.000		5.250	6 5/8 REG			VG800031PTS
800 CENTRALIZER COLLAR ASSY VELOCITY	1	8.47	8.000		0.050	6 5/8 FH			VC8000025
800 LANDING SUB ASSY VELOCITY	1	3.81	8.000		4.850	6 5/8 FH			VL800020
650 CROSSOVER SUB VELOCITY	1	1.55	8.000		3.250	6 5/8 REG			VX800022
PONY SLICK COLLAR NONMAG 8In. 6 5/8 REG PIN x BOX SN:	1	15.20	8.000		2.875	6 5/8 REG			NESPC800135
SHOCK SUB	1	11.31	7.937			6 5/8 REG			SD900443
STABILIZER	1	6.03	8.000		2.875	6 5/8 REG			DR9736
8" PHX 4/5 5.3 Stg. ABH @ 1.50° SN: 24X-775478-PTS RPG 0.253	1	29.23	8.000			6 5/8 REG			24X-775478-PTS
BIT #1 RUN #1 12.25" BAKER T606FX SN: 7163430 6X15	1	1.23	12.250			6 5/8 REG			7163430

Drillstring Details							
Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
04/30/2017 14:30				1	1,035.33		DRILL 12.25" SURFACE SECTION
MD (ft)	SW Up (kip)	SW Down (kip)	SW Rotn (kip)	Drag (kip)	Tq On Btm (ft-lbf)	Tq Off Btm (ft-lbf)	Footage (ft)
336.00	76.0	75.00	75.00	1.00	12,000.0	2,000.0	190.00
484.00	76.0	75.00	75.00	1.00	12,000.0	2,000.0	148.00
524.00	105.0	98.00	0.00	105.00	0.0	0.0	40.00
855.00	126.0	122.00	124.00	2.00	18,000.0	5,000.0	331.00
1,209.00	126.0	122.00	124.00	2.00	18,000.0	5,000.0	354.00

Remarks

DIESEL ON LOCATION: 13,954 GAL
DIESEL DELIVERED: 7,000 GAL
DIESEL USED: 173 GAL
LNG USED: 0 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 6

05/01/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1406H
Wellbore	UNIVERSITY 19 PW UNIT 1406H
WBS No/API No	30264949 / 4230133213

Event Summary

Event Type	Drilling only	Event Start Date	04/26/2017	Days on Location	5.75
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	04/30/2017	Days Since Spud	1.40
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS JOHNSON	Measured Depth(ft)	4,936.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	4,915.94
Other Supervisor	TANNER MANUEL	24 Hr Progress(ft)	3,727.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,793.00 / 2,767.00	Hole size(in)	12.250
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,943.00ft
Actual cost to date/AFE	273,751/2,664,436.41	Current MW / BH EMW(ppg)	9.70/
Actual divided by AFE	0.10	LOT/FIT EMW(ppg)	
Daily Cost	45,489	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	10/12/2016	201	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 278							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	5

Operations Summary

24 Hour Summary
ROTATE & SLIDE F/ 1209' - T/ 4936'. TD SURFACE SECTION @ 2230 HRS. PUMP SWEEP. 45% CALCULATED WASHOUT (3300 STKS OVER CALCULATED)
Update Since Report Time
POOH. L/D BHA.
24 Hour Forecast
RUN 9-5/8" CASING. SKID & SPUD UNIVERSITY 19 I 0909H. PERFORM OFFLINE CEMENT JOB ON 1406H WELL.

EP WELLS DAILY OPERATIONS REPORT

Report 6

05/01/2017

Well UNIVERSITY 19 PW UNIT 1406H
Wellbore UNIVERSITY 19 PW UNIT 1406H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	7.00	SRF1	DRL		3,086.00	0		ROTATE DRILL F/ 1209' - T/ 3086' (1877' @ 268 FT/HR) RPM SURFACE 85 MOTOR 226 BIT 311 WOB 35 K SPP 3900 PSI GPM 894 TORQUE ON BTM 18 K TORQUE OFF BTM 5 K P/U 152 K S/O 140 K ROT 146 K MUD 9.1 PPG MOTOR REV: .253 GAS: 0 UNITS FLARE: NONE
7:00	0.50	SRF1	DRL		3,111.00	0		SLIDE DRILL F/ 3086' - T/ 3111' (25' @ 50 FT/HR) RPM MOTOR 227 BIT 227 WOB 25 K SPP 4300 PSI GPM 896 P/U 152 K S/O 140 K MUD 9 PPG MOTOR REV: .253 GAS: 0 UNITS FLARE: NONE
7:30	4.00	SRF1	DRL		3,587.00	0		ROTATE DRILL F/ 3111' - T/ 3587' (476' @ 119 FT/HR) RPM SURFACE 85 MOTOR 226 BIT 311 WOB 35 K SPP 3900 PSI GPM 894 TORQUE ON BTM 18 K TORQUE OFF BTM 5 K P/U 152 K S/O 140 K ROT 146 K MUD 9.7 PPG MOTOR REV: .253 GAS: 0 UNITS FLARE: NONE
11:30	0.50	SRF1	SVC		3,587.00	0		RIG SERVICE: SERVICE TOP DRIVE
12:00	10.50	SRF1	DRL		4,936.00	0		ROTATE DRILL F/ 3587' - T/ 4936' (1349' @ 128.5 FT/HR) RPM SURFACE 85 MOTOR 202 BIT 287 WOB 35 K SPP 4200 PSI GPM 799 TORQUE ON BTM 18 K TORQUE OFF BTM 5 K P/U 152 K S/O 140 K ROT 146 K MUD 9.7 PPG MOTOR REV: .253 GAS: 0 UNITS FLARE: NONE TD SURFACE SECTION.
22:30	1.50	SRF1	CBU		4,936.00	0		FINAL SURVEY. PUMP 40 BBL SWEEP. CIRCULATE HOLE CLEAN. 10600 STKS SURFACE TO SURFACE = 3300 STKS OVER CALCULATED (45% WASHOUT)
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
4,148.00	3.00	330.42	4,129.17	305.67	-205.58	-351.09	0.64	PTW MWD+HDGM_2016
4,327.00	4.75	313.69	4,307.76	314.87	-213.25	-362.06	1.15	PTW MWD+HDGM_2016
4,505.00	3.14	328.31	4,485.33	324.11	-221.14	-373.15	1.06	PTW MWD+HDGM_2016
4,683.00	2.32	341.91	4,663.13	331.68	-224.82	-381.45	0.58	PTW MWD+HDGM_2016
4,841.00	2.21	353.19	4,821.01	337.74	-226.18	-387.65	0.29	PTW MWD+HDGM_2016

EP WELLS DAILY OPERATIONS REPORT

Report 6

05/01/2017

Well UNIVERSITY 19 PW UNIT 1406H
Wellbore UNIVERSITY 19 PW UNIT 1406H

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	0.00/90.80	pH/Pm (cc)	9.00/0.30
MD (ft)	3,900.00	TS/HGS/LGS (%)	0.70//	Pf/Mf (cc)	0.30/0.70
Mud Density (ppg)	9.70	Sand (%)	0.00	Ca+ (ppm)	
Vis (s/qt)	28.00			Cl- (ppm)	144,000
PV/YP (cp/lbf/100ft ²)	1.00/3.000	MBT (lbm/bbl)			
Gels 10 s/m (lb/100ft ²)	1.000/1.000	LCM (lbm/bbl)			
API/HTHP WL (cc/30min)	100.0/	ECD (ppg)	9.740	R600/300 (°)	
FC/HTHP FC (32nd")	1.0/	H2S (gas unit)		R200/100 (°)	
		KCl (%)		R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

Bit Details

Bit no.	Size (in)	Manufacturer	Model no.	Class	IADC code	Serial no.	Size (32nd")	MD in (ft)	MD out (ft)	IADC Dull Grade
1	12.250	BAKER OIL TOOL	T606FX			7163430	6x15	146.00		-----

Bit Operations

MD (ft)	WOB Min/Max (kip)	Current RPM (rpm)	Flow rate (gpm)	SPP (psi)	P bit (psi)	% @ Bit	HHP (hp)	Hours (hr)	Footage (ft)	ROP (ft/hr)	Hours cum (hr)	Footage cum. (ft)	ROP cum. (ft/hr)
3,086.00	35.0/35.0	85	894.0	3,900.00	665.96	17.08	347.30	7.00	1,877.00	268.1	15.50	2,940.00	189.7
3,111.00	25.0/25.0	0	896.0	4,300.00	668.95	15.56	349.64	0.50	25.00	50.0	16.00	2,965.00	185.3
3,587.00	35.0/35.0	85	894.0	3,900.00	665.96	17.08	347.30	4.00	476.00	119.0	20.00	3,441.00	172.1
4,936.00	35.0/35.0	85	799.0	4,200.00	531.95	12.67	247.93	10.50	1,349.00	128.5	30.50	4,790.00	157.0

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DRILL PIPE	124	3,900.67	5.000		4.276	4 1/2 IF			RIG
HWDP	12	368.97	5.000		2.875	4 1/2 IF			RIG
4 1/2 XH Pin x 4 1/2IF Box	1	3.45	5.000			4 1/2 IF			RIG
DRILL COLLAR	18	533.24	6.500		2.875	4 1/2 XH			RIG
6 5/8 REG Pin x 4 1/2 XH Box	1	3.33	7.690		2.810	4 1/2 XH			DR5868
SCREEN SUB	1	2.67	7.875		3.250	6 5/8 REG			DR22548
STABILIZER	1	7.99	8.062		2.875	6 5/8 REG			DR32990
SLICK COLLAR NONMAG 8In. 6 5/8 REG. PIN X BOX 3.25In. ID	1	29.11	7.938		2.938	6 5/8 REG			NESNM800117
STABILIZER	1	6.17	7.875		2.875	6 5/8 REG			DR11567
800 GAP SUB ASSY COMPLETE VELOCITY	1	3.57	8.000		5.250	6 5/8 REG			VG800031PTS
800 CENTRALIZER COLLAR ASSY VELOCITY	1	8.47	8.000		0.050	6 5/8 FH			VC8000025
800 LANDING SUB ASSY VELOCITY	1	3.81	8.000		4.850	6 5/8 FH			VL800020
650 CROSSOVER SUB VELOCITY	1	1.55	8.000		3.250	6 5/8 REG			VX800022
PONY SLICK COLLAR NONMAG 8In. 6 5/8 REG PIN x BOX SN:	1	15.20	8.000		2.875	6 5/8 REG			NESPC800135
SHOCK SUB	1	11.31	7.937			6 5/8 REG			SD900443
STABILIZER	1	6.03	8.000		2.875	6 5/8 REG			DR9736
8" PHX 4/5 5.3 Stg. ABH @ 1.50° SN: 24X-775478-PTS RPG 0.253	1	29.23	8.000			6 5/8 REG			24X-775478-PTS
BIT #1 RUN #1 12.25" BAKER T606FX SN: 7163430 6X15	1	1.23	12.250	12.250		6 5/8 REG			7163430

EP WELLS DAILY OPERATIONS REPORT

Report 6

05/01/2017

Well UNIVERSITY 19 PW UNIT 1406H
Wellbore UNIVERSITY 19 PW UNIT 1406H

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
04/30/2017 14:30				1	1,035.33		DRILL 12.25" SURFACE SECTION
MD (ft)	SW Up (kip)	SW Down (kip)	SW Rotn (kip)	Drag (kip)	Tq On Btm (ft-lbf)	Tq Off Btm (ft-lbf)	Footage (ft)
3,086.00	152.0	140.00	146.00	6.00	18,000.0	5,000.0	1,877.00
3,111.00	152.0	140.00	0.00	152.00	0.0	0.0	25.00
3,587.00	152.0	140.00	146.00	6.00	18,000.0	5,000.0	476.00
4,936.00	152.0	140.00	146.00	6.00	18,000.0	5,000.0	1,349.00

Remarks

DIESEL ON LOCATION: 11140 GAL
DIESEL DELIVERED: GAL
DIESEL USED: 2814 GAL
LNG USED: 0 GAL

NOTIFIED TRRC OF 9-5/8" CASING & CEMENT JOB: OPERATOR # 18 (JEWISHA)

EP WELLS DAILY OPERATIONS REPORT

Report 7

05/02/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1406H
Wellbore	UNIVERSITY 19 PW UNIT 1406H
WBS No/API No	30264949 / 4230133213

Event Summary

Event Type	Drilling only	Event Start Date	04/26/2017	Days on Location	6.75
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	04/30/2017	Days Since Spud	2.21
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS JOHNSON	Measured Depth(ft)	4,936.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	4,915.94
Other Supervisor	TANNER MANUEL	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,793.00 / 2,767.00	Hole size(in)	12.250
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,921.00ft
Actual cost to date/AFE	407,939/2,664,436.41	Current MW / BH EMW(ppg)	9.90/
Actual divided by AFE	0.15	LOT/FIT EMW(ppg)	
Daily Cost	107,967	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	10/12/2016	202	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 412							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	6

Operations Summary

24 Hour Summary
POOH F/ 4937' - T/ SURFACE. N/D CONDUCTOR PIPE. RUN 9-5/8" CASING. RELEASE RIG T/ UNIVERSITY 19 UNIT 0909H @ 1930 HRS.
Update Since Report Time
PERFORM OFFLINE CEMENT JOB. 350 BBL OF CEMENT TO SURFACE.
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 7

05/02/2017

Well UNIVERSITY 19 PW UNIT 1406H
Wellbore UNIVERSITY 19 PW UNIT 1406H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.50	SRF1	CBU		4,936.00	0		PUMP SLUG.
0:30	4.50	SRF1	TOH		4,936.00	0		POOH F/ 4936' - T/ BHA.
5:00	2.00	SRF1	TOH		4,936.00	0		RACK BACK BHA. L/D MOTOR & BIT (BIT #1 RUN #1 12.25" BAKER T606FX SN: 7163430 6X15) GRADE: 1-3-CT-S-X-I-NO-TD.
7:00	1.50	SRF1	RDP		4,936.00	0		N/D CONDUCTOR
8:30	0.50	SRF1	RIC		4,936.00	0		R/U CASING TOOLS
9:00	5.50	SRF1	CLR		4,936.00	0		PJSM W/ CREW & EXPRESS. RUN 9-5/8" CASING F/ SURFACE - T/3629'. 9-5/8" 40# J55 LTC CASING.
14:30	0.50	SRF1	CLR		4,936.00	0		H2S ALARM WENT OFF. MUSTERED. CHECK ALL AREAS (FALSE ALARM)
15:00	1.50	SRF1	CLR		4,936.00	0		RUN 9-5/8" CASING F/3629'. T/4894' 9-5/8" 40# J55 LTC CASING.
16:30	1.00	SRF1	CLR		4,936.00	0		FILL PIPE & M/U LANDING JT & WASH CASING F/ 4894' - T/ 4921'. INSTALL C CLAMP. CIRCULATE BTMS UP.
17:30	2.00	SRF1	RCC		4,936.00	0		BREAK OUT TOP DRIVE. UNSCREW LANDING JT. R/U CEMENT HEAD & CEMENT LINES. RELEASE RIG F/ UNIVERSITY 19 UNIT 1406H - T/ UNIVERSITY 0909H @ 1930 HRS.
19:30	0.00	SRF1	CEM		4,936.00	0		PERFORM OFFLINE CEMENT JOB. HELD PJSM WITH BAKER CEMENTERS. TEST LINES T/4500 PSI. PUMP 50 BBL FRESH WATER SPACER @ 3.5 BPM. PUMP LEAD CEMENT @ 7 BPM: 1021 BBLS, 3067 SKS OF 12.8# 35:65:4 PREMIUM CLASS C CEMENT. PUMP TAIL CEMENT @ 5.5 BPM: 118 BBLS, 500 SKS OF 14.8# PREMIUM CLASS C CEMENT. DROP PLUG AND START DISPLACEMENT. DISPLACE W/ 20 BBL OF FRESH WATER @ 5.5 BPM DISPLACE W/ 344 BBL OF 9.2# BRINE @ 7 BPM GOT 350 BBL OF CEMENT TO SURFACE. PUMP PLUG @ 364 BBLS OF DISPLACEMENT @ 00:15 TEST PLUG W/ 500 PSI OVER CIRC PRESSURE. HOLD FOR 5 MIN. FLOATS HELD. TEST CASING T/ 1500 PSI FOR 30 MIN. GOOD TEST. R/D BAKER CEMENTER HEAD & CEMENT LINES.
Total	19.50							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
4,148.00	3.00	330.42	4,129.17	305.67	-205.58	-351.09	0.64	PTW MWD+HDGM_2016
4,327.00	4.75	313.69	4,307.76	314.87	-213.25	-362.06	1.15	PTW MWD+HDGM_2016
4,505.00	3.14	328.31	4,485.33	324.11	-221.14	-373.15	1.06	PTW MWD+HDGM_2016
4,683.00	2.32	341.91	4,663.13	331.68	-224.82	-381.45	0.58	PTW MWD+HDGM_2016
4,841.00	2.21	353.19	4,821.01	337.74	-226.18	-387.65	0.29	PTW MWD+HDGM_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	0.00/89.30	pH/Pm (cc)	9.50/0.30
MD (ft)	4,936.00	TS/HGS/LGS (%)	0.70//	Pf/Mf (cc)	0.30/0.60
Mud Density (ppg)	9.90	Sand (%)	0.10	Ca+ (ppm)	
Vis (s/qt)	28.00			Cl- (ppm)	168,500
PV/YP (cp/lbf/100ft²)	1.00/3.000	MBT (lbm/bbl)			
Gels 10 s/m (lbf/100ft²)	1.000/1.000	LCM (lbm/bbl)			
API/HTHP WL (cc/30min)	100.0/	ECD (ppg)	9.900	R600/300 (°)	
FC/HTHP FC (32nd")	1.0/	H2S (gas unit)		R200/100 (°)	
		KCl (%)		R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

EP WELLS DAILY OPERATIONS REPORT

Report 7

05/02/2017

Well UNIVERSITY 19 PW UNIT 1406H
Wellbore UNIVERSITY 19 PW UNIT 1406H

Bit Details

Bit no.	Size (in)	Manufacturer	Model no.	Class	IADC code	Serial no.	Size (32nd")	MD in (ft)	MD out (ft)	IADC Dull Grade
1	12.250	BAKER OIL TOOL	T606FX			7163430	6x15	146.00	4,936.00	1-3-CT-S-X-I-NO-TD

Bit Operations

MD (ft)	WOB Min/Max (kip)	Current RPM (rpm)	Flow rate (gpm)	SPP (psi)	P bit (psi)	% @ Bit	HHP (hp)	Hours (hr)	Footage (ft)	ROP (ft/hr)	Hours cum (hr)	Footage cum. (ft)	ROP cum. (ft/hr)

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DRILL PIPE	124	3,900.67	5.000		4.276	4 1/2 IF			RIG
HWDP	12	368.97	5.000		2.875	4 1/2 IF			RIG
4 1/2 XH Pin x 4 1/2IF Box	1	3.45	5.000			4 1/2 IF			RIG
DRILL COLLAR	18	533.24	6.500		2.875	4 1/2 XH			RIG
6 5/8 REG Pin x 4 1/2 XH Box	1	3.33	7.690		2.810	4 1/2 XH			DR5868
SCREEN SUB	1	2.67	7.875		3.250	6 5/8 REG			DR22548
STABILIZER	1	7.99	8.062		2.875	6 5/8 REG			DR32990
SLICK COLLAR NONMAG 8In. 6 5/8 REG. PIN X BOX 3.25In. ID	1	29.11	7.938		2.938	6 5/8 REG			NESNM800117
STABILIZER	1	6.17	7.875		2.875	6 5/8 REG			DR11567
800 GAP SUB ASSY COMPLETE VELOCITY	1	3.57	8.000		5.250	6 5/8 REG			VG800031PTS
800 CENTRALIZER COLLAR ASSY VELOCITY	1	8.47	8.000		0.050	6 5/8 FH			VC8000025
800 LANDING SUB ASSY VELOCITY	1	3.81	8.000		4.850	6 5/8 FH			VL800020
650 CROSSOVER SUB VELOCITY	1	1.55	8.000		3.250	6 5/8 REG			VX800022
PONY SLICK COLLAR NONMAG 8In. 6 5/8 REG PIN x BOX SN:	1	15.20	8.000		2.875	6 5/8 REG			NESPC800135
SHOCK SUB	1	11.31	7.937			6 5/8 REG			SD900443
STABILIZER	1	6.03	8.000		2.875	6 5/8 REG			DR9736
8" PHX 4/5 5.3 Stg. ABH @ 1.50° SN: 24X-775478-PTS RPG 0.253	1	29.23	8.000			6 5/8 REG			24X-775478-PTS
BIT #1 RUN #1 12.25" BAKER T606FX SN: 7163430 6X15	1	1.23	12.250	12.250		6 5/8 REG			7163430

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
04/30/2017 14:30	05/02/2017 07:00	1	1,035.33		DRILL 12.25" SURFACE SECTION

Remarks

DIESEL ON LOCATION: 16737 GAL
DIESEL DELIVERED: 6516 GAL
DIESEL USED: 919 GAL
LNG USED: 0 GAL