



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #104HB

Report Date: 8/6/2017
 Report #: 28.0, DFS: 17.29
 Time Log DFS: 17.29
 Depth Progress: 0.00

API/UWI No. 42461405810000		Surface Legal Location A-U47; SEC. 11; BLK 4; UL SURVEY		Well License/Permit No. 824982		State/Province TEXAS	
Original Spud/Spud Rig Date 7/19/2017 23:00		Rig Release Date		KB to GL (ft) 25.00		KB-Casing Flange Distance (ft)	
Original Spud/Spud Rig Date 7/19/2017		Weather CLEAR		Temperature (°F) 76.0		Road Condition GOOD	
Original Spud/Spud Rig Date 7/19/2017		Weather CLEAR		Temperature (°F) 76.0		Hole Condition GOOD	
Current Status/OART WAIT ON SCHLUMBERGER CEMENT AND CREW @ REPORT TIME.				24 Hour Forecast WAIT ON CEMENT. CEMENT PRODUCTION CASING. WAIT ON CEMENT AND CLEAN PITS. BREAK STACK, SET CASING SLIPS AND CUT CASING. NIPPLE DOWN STACK, DRESS CASING CUT AND SET PACKOFF. RIG DOWN AND MAKE READY FOR RIG MOVE.			

Short Report
 CONTINUE TO P/U AND RUN 5 1/2" 20# P-110 GCN ERW SEAH F/ 10359' TO 19219'. R/D BYRD CASING EQUIPMENT. CIRCULATE 1.5 CASING CAPACITIES. WAIT ON SCHLUMBERGER CEMENT AND CREW. 2 LOADS OF CEMENT ARRIVED ON LOCATION BEFORE REPORT TIME.

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
2,075.9	0.4	-332.2	824.0	332.6	0.0	1,251.9

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
06:00	13:45	7.75	24PHC, Prod Hole Csg	CS	b	O	CONTINUE TO P/U AND RUN 5-1/2" 20# P-110 GCN ERW SEAH PRODUCTION CASING FROM 10359' TO 19219'. NOTABLE DEPTHS AND ACCESSORIES AS FOLLOWS: - 6-1/2" REAMER SHOE @ 19,219' - 1 JOINT OF 5-1/2" CASING - 5 1/2" FLOAT COLLAR @ 19,170.4' - 20 FT 5-1/2" PUP JOINT - 5-1/2" LANDING COLLAR @ 19,148.3" - 5-1/2" LANDING COLLAR @ 19,146.1" - 1 JOINT OF 5-1/2" CASING - 10 FT 5-1/2" PUP JOINT - 6-1/2" BAKER FRAC POINT ALPHA SLEEVE @ 19,086.8' - 10 FT 5-1/2" PUP JOINT - 6-1/2" BAKER FRAC POINT ALPHA SLEEVE @ 19,073.0' - 20 FT 5-1/2" PUP JOINT - 74 JOINTS OF 5-1/2" CASING - 20 FT 5-1/2" MARKER JOINT "A" @ 15,710.6' - 77 JOINTS OF 5-1/2" CASING - 20 FT 5-1/2" MARKER JOINT "B" @ 12,302.8' - 102 JOINTS OF 5-1/2" CASING - 20 FT 5-1/2" MARKER JOINT "C" @ 7,686.5' - 171 JOINTS OF 5-1/2" CASING TO SURFACE. (TOTAL 5-1/2" CASING RAN: 426 JOINTS). NOTE: HOLE BEGAN GIVING DISPLACEMENT DURING CASING RUN. INSTALL 5-1/2" X 7-1/4" X 8" SOLID BODY CENTRALIZERS EVERY JOINT ON THE LATERAL AND CURVE TO INSIDE 9-5/8" CASING, 5-1/2" X 8" CENTEK BOWSPRING CENTRALIZERS EVERY OTHER JOINT INSIDE THE 9-5/8" CASING TO 3864.8' NOTE: CONTACTED SCHLUMBERGER AT 10:30 AND WAS INFORMED ETA FOR CREWS AND CEMENT ON LOCATION BETWEEN MIDNIGHT AND 6:00 AM NOTE: INSPECT DRILL PIPE ON LOCATION (INSPECTION STARTED ON 8/3/2017).
13:45	14:15	0.50	24PHC, Prod Hole Csg	CS	a	O	R/D CASING EQUIPMENT BUT CRT RIGGED UP.
14:15	15:45	1.50	24PHC, Prod Hole Csg	Cl	g	O	CIRCULATE 1.5 CASING CAPACITIES @ 7.5 BPM. NOTE: CONTACTED SCHLUMBERGER AT 14:30 TO LET THEM KNOW CASING WAS ON BOTTOM. ETA FOR CREW AND CEMENT BETWEEN 4:00 - 8:00 AM SUNDAY MORNING.

AFE Number DD.17.30781.CAP.DRL	AFE+Supp Amt (Cost) 2,331,000.00
Day Total (Cost) 269,926	Cum To Date (Cost) 2,017,885
Mud Field Est (Cost) 700	Cum Mud Field Est (Co... 96,540
Start Depth (ftKB) 19,219.0	End Depth (ftKB) 19,219.0
Planned Formation WOLFCAMP B	Planned TMD (ftKB) 19,337.0
Last Casing String Production Casing, 19,219.0ftKB	

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

Personnel Log	
Head Count	22.0

Rigs	
HELMERICH & PAYNE DRILLING, 3	
Contractor HELMERICH & PAYNE DRILLING	Rig Number 394
Rig Supervisor THOMAS PENDERGRASS, Toolpusher	Phone Mobile

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...	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

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...	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Mud Additive Description	Field Est (Cost/unit)	Consumed
12 HR MUD ENGINEER	700.00	1.0

Job Supplies		
Supply Item Description DIESEL FOR OBM	Unit Label Gal	
Total Received 49,969.0	Total Consumed 42,374.0	On Loc 7,595.0

Supply Item Description DRILLING CUTTINGS	Unit Label Cu. Yds	
Total Received 465.0	Total Consumed 465.0	On Loc 0.0

Supply Item Description DRILLING WATER	Unit Label Bbl	
Total Received 5,994.6	Total Consumed 5,994.6	On Loc 0.0

Supply Item Description FUEL	Unit Label Gal	
Total Received 52,682.0	Total Consumed 32,388.0	On Loc 8,496.0
Supply Item Description LIQUID DRILLING WASTE	Unit Label Bbl	
Total Received 460.0	Total Consumed 460.0	On Loc 0.0



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 Depth Progress: 0.00

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
15:45	06:00	14.25	24PHC, Prod Hole Csg	TR	q	S	<p>WAIT ON SCHLUMBERGER CEMENT AND CREW. CONTINUE TO CIRCULATE WITH CRT @ 3 BPM.</p> <p>NOTE: CLEAN AND ORGANIZE RIG FLOOR. PUMP OUT CELLAR AND CLEAN CELLAR AREA. CHANGE LINERS ON PUMPS AND PULL MOUSE HOLE. CLEAN AND ORGANIZE AROUND LOCATION.</p> <p>NOTE: SPOKE WITH SCHLUMBERGER @ 00:00. WAS GIVEN AN ETA OF 3:00 - 5:00 AM FOR CEMENT TRUCKS.</p> <p>FIRST LOAD OF TAIL CEMENT ARRIVED ON LOCATION @ 4:30 AM.</p>

Mud Checks						
Time	Type	Depth (ftKB)	Density (kg/m³) (lb/g...	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
05:00	INVERMUL	19,219.0	9.20	59	14.0	12.005
Gel 10 sec (kPa) (lb...	Gell 10 min (kPa) (l...	Gel 30 min (kPa) (lb...	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
12.005	16.007	21.009				10.9
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (kg/m³) (...	Calcium (kg/m³) (m...	Potassium (mg/L)	Electric Stab (V)
	70.0	19.1	40,000.000	22,000.000		600.0

Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Hole	ANNULUS	825.7	
Hole	PIPE CAP	426.2	
Hole	TOTAL HOLE	1,251.9	
Tank	ACTIVE PITS	444.0	
Hole	TOTAL CIRC.	1,695.9	
Tank	RESERVE	380.0	
Addition	BASE	0.0	
Addition	DRILL WATER	332.6	
Addition	BARITE	0.0	
Addition	CHEMICALS	0.0	
Loss	SCE	0.0	
Loss	DOWNHOLE	0.0	
Loss	MISC OTHER	0.0	

Drill Strings			
BHA #<stringno>, <des>			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		BHA Length (ft)	String Wt (1000lbf)
Drill String Components			
Item Des	Manual/Tally Jts	OD (in)	ID (in)
Drilling Parameters			
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)

Drilling Parameters						
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque
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)

Hydraulic Calculations				
Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	% P @ bit (%)
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min)	ECD End (lb/gal)
Error				

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Job Supplies		
Supply Item Description	Unit Label	Gal
POTABLE WATER		
Total Received	Total Consumed	On Loc
37,600.0	37,600.0	0.0
SEWAGE		
Total Received	Total Consumed	On Loc
27,900.0	27,900.0	0.0
THREAD PROTECTORS		
Total Received	Total Consumed	On Loc
1.0	1.0	0.0
TRASH/GENERAL WASTE		
Total Received	Total Consumed	On Loc
2.0	2.0	0.0

Safety Checks		
Time	Type	Safety Topic
17:30	Pre-Tour	R/D EQUIPMENT
05:30	Pre-Tour	HOUSE KEEPING

Wellbores	
Wellbore Name	
UNIVERSITY 3-35 #104HB	
Kick Offs & Key Depths	
Type	Top Depth (ftKB)



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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)
Action Taken						

Interval Lessons

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

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

Leak Off and Formation Integrity Tests

Run Date	OD (in)	Set Depth (ft...)	Set Depth (T...)	Comment	MACP Press...
7/20/2017	13 3/8	1,461.0	1,460.8	TEST ON CHART: GOOD TEST	500.0

Test Date	Test Type	Fluid Density (lb/gal)	EMW (lb/gal)
7/21/2017	Casing Test	8.30	14.80

Run Date	OD (in)	Set Depth (ft...)	Set Depth (T...)	Comment	MACP Press...
7/24/2017	9 5/8	5,058.0	4,973.3	TEST ON CHART: GOOD TEST	1,500.0

Test Date	Test Type	Fluid Density (lb/gal)	EMW (lb/gal)
7/25/2017	Casing Test	9.90	15.71

Run Date	OD (in)	Set Depth (ft...)	Set Depth (T...)	Comment	MACP Press...
7/24/2017	9 5/8	5,058.0	4,973.3	TEST ON CHART: GOOD TEST	96.0

Test Date	Test Type	Fluid Density (lb/gal)	EMW (lb/gal)
7/26/2017	F.I.T.	9.90	10.27

Survey Data

MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #104HB

Report Date: 8/7/2017
 Report #: 29.0, DFS: 18.29
 Time Log DFS: 18.29
 Depth Progress: 0.00

API/UWI No. 42461405810000		Surface Legal Location A-U47; SEC. 11; BLK 4; UL SURVEY		Well License/Permit No. 824982		State/Province TEXAS	
Original Spud/Spud Rig Date 7/19/2017 23:00		Rig Release Date		KB to GL (ft) 25.00		KB-Casing Flange Distance (ft)	
Original Spud/Spud Rig Date 7/19/2017		Weather 76		Temperature (°F)		Road Condition GOOD	
Original Spud/Spud Rig Date 7/19/2017		Weather 76		Temperature (°F)		Hole Condition GOOD	
Current Status/OART WAIT ON CEMENT @ REPORT TIME				24 Hour Forecast CONTINUE TO WOC. BREAK BOP STACK AND SET CASING SLIPS. CUT CASING AND REMOVE JOINT. NIPPLE DOWN STACK, INSTALL AND TEST PACK OFF. INSTALL NIGHT CAP ON WELL. PREPARE RIG FOR RELEASE.			

Short Report
 CONTINUE TO WAIT ON SCHLUMBERGER CEMENT. ALL CEMENT, CREW AND LAB TESTS READY TO PUMP @ 18:15. R/U SCHLUMBERGER IRON TO CEMENT HEAD. CEMENT 5 1/2" PRODUCTION CASING. R/D CEMENT EQUIPMENT. SHUT ANNULAR AND WAIT ON CEMENT. TRANSFER MUD AND CLEAN PITS.

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
426.2	-1,649.7	-2,075.9	0.0	426.2	0.0	426.2

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
06:00	18:15	12.25	24PHC, Prod Hole Csg	TR	q	S	CONTINUE TO WAIT ON SCHLUMBERGER CEMENT TO ARRIVE ON LOCATION. CONTINUE TO CIRCULATE @ 3 BPM. 2 TRUCKS ARRIVED @ 10:30. CEMENTING CREW AND PUMP TRUCK ON LOCATION @ 14:30. RIG DOWN CRT AND RIG UP CEMENTING HEAD. ALL CEMENT ON LOCATION @ 17:00. WAIT ON LAB TEST RESULTS. GIVEN OK TO PUMP CEMENT @ 18:15. TOTAL OF 26.50 HOURS OF NPT SPENT WAITING ON SCHLUMBERGER CEMENT TO ARRIVE ON LOCATION. NOTE: PREPARE RIG FOR SKID AND ORGANIZE AREA FOR RIG MOVE. R/D PRE-MIX TANK. MOVE CHEMICALS TO NEXT LOCATION.
18:15	18:45	0.50	24PHC, Prod Hole Csg	CE	d	O	RIG UP SCHLUMBERGER CEMENTING IRON TO CEMENT HEAD

AFE Number DD.17.30781.CAP.DRL	AFE+Supp Amt (Cost) 2,331,000.00
Day Total (Cost) 121,649	Cum To Date (Cost) 2,139,534
Mud Field Est (Cost) 700	Cum Mud Field Est (Co... 97,240
Start Depth (ftKB) 19,219.0	End Depth (ftKB) 19,219.0
Planned Formation WOLFCAMP B	Planned TMD (ftKB) 19,337.0
Last Casing String Production Casing, 19,219.0ftKB	

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

Personnel Log	
Head Count	27.0

Rigs	
HELMERICH & PAYNE DRILLING, 3	
Contractor HELMERICH & PAYNE DRILLING	Rig Number 394
Rig Supervisor THOMAS PENDERGRASS, Toolpusher	Phone Mobile

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...	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

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...	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Mud Additive Description	Field Est (Cost/unit)	Consumed
12 HR MUD ENGINEER	700.00	1.0

Job Supplies		
Supply Item Description	Unit Label	
DIESEL FOR OBM	Gal	
Total Received	Total Consumed	On Loc
49,969.0	42,374.0	7,595.0
Supply Item Description	Unit Label	
DRILLING CUTTINGS	Cu. Yds	
Total Received	Total Consumed	On Loc
465.0	465.0	0.0
Supply Item Description	Unit Label	
DRILLING WATER	Bbl	
Total Received	Total Consumed	On Loc
5,994.6	5,994.6	0.0
Supply Item Description	Unit Label	
FUEL	Gal	
Total Received	Total Consumed	On Loc
52,682.0	32,388.0	8,496.0
Supply Item Description	Unit Label	
LIQUID DRILLING WASTE	Bbl	
Total Received	Total Consumed	On Loc
460.0	460.0	0.0



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Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
18:45	23:30	4.75	24PHC, Prod Hole Csg	CE	a	O	<p>HELD PJSM WITH HOC - H&P - BAKER AND SLB CEMENTERS ON PRODUCTION CEMENT JOB.</p> <p>PERFORM CEMENT JOB FOR PRODUCTION CASING AS FOLLOWS:</p> <p>SWAPPED TO SCHLUMBERGER CEMENT LINES PRESSURE TESTED 4000 PSI HIGH: TEST GOOD,</p> <p>- SPACER: MIX & PUMP 60 BBL'S OF MUD PUSH EXPRESS SPACER @ 10 PPG.</p> <p>- LEAD SLURRY: MIX & PUMP 187 BBL'S (378 SK'S) OF TXI LIGHTWEIGHT BLEND CEMENT @ 11.5 PPG, YIELD 2.29 FT3/SK, MIX WATER 13.10 GAL/SK</p> <p>- TAIL SLURRY: MIX & PUMP 581 BBL'S (2125 SK'S) OF D909 CEMENT @ 13.20 PPG, YIELD 1.56 FT3/SK, MIX WATER 7.59 GAL/SK</p> <p>- FLUSH LINES WITH 2 BBL'S OF 20% ACETIC ACID TO RESERVE PIT TO MAKE SURE THE LINE IS FILLED UP WITH ACID.</p> <p>- DROP DART PLUG AND PUMP 10 BBL OF 20% ACETIC ACID. FOLLOWED BY 10 BBL'S OF FRESHWATER. FOLLOWED BY 405 BBL'S OF KCL BRINE WATER.</p> <p>- TOTAL DISPLACEMENT PUMPED 425 BBL. FIELD CALCULATED TOP OF CEMENT @ 3500'.</p> <p>- BUMP PLUG AT 23:28 HRS . PRESSURE UP TO 3200 PSI (500 PSI OVER CIRCULATING PSI) AND HOLD FOR 5 MINUTES. BLEED BACK 4.5 BBL. FLOAT EQUIPMENT HELD.</p> <p>GOOD RETURNS DURING CEMENT JOB.</p> <p>FULL RETURNS NOT OBSERVED DURING DISPLACEMENT DUE TO LOSS OF MUD WHEN TRANSFERRING BACK TO TANK FARM. +/- 375 BBL'S LOSS TO DOWN HOLE. CALCULATED OBM LEFT IN HOLE WITH FULL RETURNS WOULD BE 115 BBL'S DUE TO TOP OF SPACER @ 2200'.</p>

Job Supplies		
Supply Item Description		Unit Label
POTABLE WATER		Gal
Total Received	Total Consumed	On Loc
37,600.0	37,600.0	0.0
Supply Item Description		Unit Label
SEWAGE		Gal
Total Received	Total Consumed	On Loc
27,900.0	27,900.0	0.0
Supply Item Description		Unit Label
THREAD PROTECTORS		Box
Total Received	Total Consumed	On Loc
1.0	1.0	0.0
Supply Item Description		Unit Label
TRASH/GENERAL WASTE		Box
Total Received	Total Consumed	On Loc
2.0	2.0	0.0
Safety Checks		
Time	Type	Safety Topic
16:30	Pre-Job	CEMENTING PRODUCTION CASING
17:30	Pre-Tour	THIRD PARTY EQUIPMENT
05:30	Pre-Tour	NIPPLE DOWN STACK
Wellbores		
Wellbore Name		
UNIVERSITY 3-35 #104HB		
Kick Offs & Key Depths		
Type		Top Depth (ftKB)



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23:30	06:00	6.50	24PHC, Prod Hole Csg	CE	c	O	<p>WOC. (6.5 HOURS) RIG DOWN CEMENTERS AND EQUIPMENT.</p> <p>FLUSH THROUGH LINES, BOP STACK, CHOKE MANIFOLD AND BACK TO MUD PUMPS AND STAND PIPE.</p> <p>TRANSFER REMAINING MUD FROM MUD TANKS TO FRAC TANKS. BEGIN CLEANING PITS.</p> <p>CLOSE IN ANNULAR & MONITOR CASING PRESSURE ON CHOKE. R/D CEMENT HEAD, INSTALL CASING SWAGE AND CLOSE LOW TORQUE VALVE.</p> <p>4 BOLT FLOW LINE AND WORK ON PIPE WRANGLER. FLUSH MUD LINES WITH DIESEL, WATER AND AIR. CHANGE OUT SWIVEL PACKING.</p> <p>NOTE: ALL 5" DRILL PIPE AND 5" HWDP INSPECTED. INSPECTION SUMMARY OF 5" DRILL PIPE: 3 DAMAGED PIN SHOULDERS 2 DAMAGED BOX SHOULDERS 7 DAMAGED BOX THREADS 10 PIN DIM REJECT 10 BOX DIM REJECT TOTAL JOINTS SENDING IN: 29 JOINTS OF 5" DRILL PIPE. INSPECTION SUMMARY OF 5" HWDP: 2 DAMAGED PIN THREADS 1 DAMAGED BOX THREADS 1 DAMAGED BOX SHOULDER 1 WASHOUT TOTAL JOINTS SENDING IN: 4 JOINTS OF 5" HWDP</p>

Mud Checks						
Time	Type	Depth (ftKB)	Density (kg/m³) (lb/g...)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
05:00	Fresh Water	19,218.0	8.30	33	1.0	3.001
Gel 10 sec (kPa) (lb...)	Gell 10 min (kPa) (l...	Gel 30 min (kPa) (lb...	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
1.000	1.000	1.000	1.0	2	8.0	
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (kg/m³) (...)	Calcium (kg/m³) (m...	Potassium (mg/L)	Electric Stab (V)
		100.0	5,000.000			

Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Hole	TOTAL HOLE	426.2	
Addition	DRILL WATER	426.2	

Drill Strings			
BHA #<stringno>, <des>			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		BHA Length (ft)	String Wt (1000lbf)
Drill String Components			
Item Des	Manual/Tally Jts	OD (in)	ID (in)
Len (ft)	Top Thread		

Drilling Parameters							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	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)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	% P @ bit (%)
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min)	ECD End (lb/gal)
Error				

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



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Well Name: UNIVERSITY 3-35 #104HB

Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems

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

Action Taken

Interval Lessons

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

Comment

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

Leak Off and Formation Integrity Tests

Run Date	OD (in)	Set Depth (ft...)	Set Depth (T...)	Comment	MACP Press...
7/20/2017	13 3/8	1,461.0	1,460.8	TEST ON CHART: GOOD TEST	500.0
Test Date		Test Type		Fluid Density (lb/gal)	EMW (lb/gal)
7/21/2017		Casing Test		8.30	14.80
Run Date	OD (in)	Set Depth (ft...)	Set Depth (T...)	Comment	MACP Press...
7/24/2017	9 5/8	5,058.0	4,973.3	TEST ON CHART: GOOD TEST	1,500.0
Test Date		Test Type		Fluid Density (lb/gal)	EMW (lb/gal)
7/25/2017		Casing Test		9.90	15.71
Run Date	OD (in)	Set Depth (ft...)	Set Depth (T...)	Comment	MACP Press...
7/24/2017	9 5/8	5,058.0	4,973.3	TEST ON CHART: GOOD TEST	96.0
Test Date		Test Type		Fluid Density (lb/gal)	EMW (lb/gal)
7/26/2017		F.I.T.		9.90	10.27

Survey Data

MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)

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