



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #101HB

Report Date: 7/6/2017
 Report #: 8.0, DFS: 6.96
 Time Log DFS: 6.96
 Depth Progress: 0.00

API/UWI No. 42461406090000		Surface Legal Location A-U47; SEC. 11; BLK 4; UNIVERSITY LAND		Well License/Permit No. 826701		State/Province TEXAS	
Original Spud/Spud Rig Date 6/29/2017 07:00		Rig Release Date		KB to GL (ft) 25.00		KB-Casing Flange Distance (ft)	
Original Spud/Spud Rig Date		Weather OVERCAST/LIGHTENING IN DISTANCE		Temperature (°F) 72.0		Road Condition GOOD	
						Hole Condition GOOD	
Current Status/OART CIRCULATE BOTTOMS UP @ REPORT TIME				24 Hour Forecast CONTINUE TO CIRCULATE BOTTOMS UP. PUMP SECOND STAGE CEMENT. L/D LANDING JOINT, CLEAN OUT BOP AND INSTALL PACKOFF. TEST PACKOFF AND INSTALL WEAR BUSHING. LAY OUT AND P/U DRILL OUT ASSEMBLY. TIH, TEST CASING AND DRILL OUT FLOAT EQUIPMENT AND CEMENT. DRILL 10' OF NEW HOLE AND PERFORM A F.I.T..			

Short Report
 CONTINUE TO RUN 9 5/8" CASING TO 7818'. LAND CASING AND R/D CASING EQUIPMENT. R/U CIRCULATING SWAGE AND CIRCULATE. CIRCULATE WHILE WAITING ON LABS. SCHLUMBERGER PUMP TRUCK COMPUTER SHORTED OUT, CIRCULATE HOLE WHILE WAITING ON SECOND PUMP TRUCK. R/U SCHLUMBERGER CEMENT HEAD AND IRON. CIRCULATE WHILE MIXING FIRST STAGE CEMENT. PUMP FIRST STAGE CEMENT JOB. DROP DV BOMB, OPEN DV TOOL AND CIRCULATE BOTTOMS UP @ REPORT TIME.

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
1,665.2	-2,661.7	-2,754.9	1,182.0	200.5	107.3	483.2

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
06:00	13:00	7.00	12IHC, Int Hole Csg	CS	b	O	CONTINUE RUNNING 9-5/8" SEAH-80HC BTC INTERMEDIATE CSG FROM 2752' TO 7818'. P/U 9-5/8" LANDING JOINT AND LAND CASING @ 7818'. LANDED CASING IN WELLHEAD. NOTE: LOSE PIPE DISPLACEMENT @ 5677'. NOTABLE DEPTHS & ACCESSORIES: - 9-5/8" ECCENTRIC NOSE DOWN JET FLOAT SHOE @ 7818' - 9-5/8" FLOAT COLLAR, WITH BAFFLE PLATE @ 7725.8' - TAM CONTINGENCY BAFFLE PLATE @ 5019.3' - TAM PACKER @ 5002' - 9-5/8" SUMMIT DV TOOL @ 5,016.5' TOTAL CENTRALIZERS (32) 11" x 8" STRAIGHT BLADE SOLID BODY CENTRALIZERS. TOTAL 9-5/8" 40# H-80HC BTC INTERMEDIATE CASING RAN-184 JOINTS. MAKE UP TORQUE 8,000 FT/LBS TO TRIANGLE
13:00	13:15	0.25	12IHC, Int Hole Csg	CS	a	O	R/D CASING RUNNING EQUIPMENT.
13:15	13:30	0.25	12IHC, Int Hole Csg	Cl	g	O	R/U SCHLUMBERGER CIRCULATING SWAGE
13:30	15:30	2.00	12IHC, Int Hole Csg	Cl	g	O	FILL PIPE AND BREAK CIRCULATION. CIRCULATE 1.5 CASING CAPACITY. NOTE: REGAINED FULL RETURNS WHILE CIRCULATING.
15:30	17:00	1.50	12IHC, Int Hole Csg	TR	q	O	CONTINUE CIRCULATING WHILE WAITING ON SCHLUMBERGER CEMENT LAB TESTS FOR TAIL SLURRY.
17:00	23:15	6.25	12IHC, Int Hole Csg	TR	o	O	SCHLUMBERGER PUMP TRUCK COMPUTER SHORTED OUT. CIRCULATE HOLE WHILE WAITING ON SECOND PUMP TRUCK.
23:15	23:45	0.50	12IHC, Int Hole Csg	CE	d	O	R/U SCHLUMBERGER CEMENT HEAD AND HARD LINES.
23:45	00:30	0.75	12IHC, Int Hole Csg	TR	q	O	CIRCULATE WITH RIG PUMPS WHILE MIXING CEMENT.

AFE Number DD.17.30748.CAP.DRL	AFE+Supp Amt (Cost) 2,183,000.00
Day Total (Cost) 265,008	Cum To Date (Cost) 806,007
Mud Field Est (Cost) 906	Cum Mud Field Est (Co...) 20,878
Start Depth (ftKB) 7,838.0	End Depth (ftKB) 7,838.0
Planned Formation WOLFCAMP B	Planned TMD (ftKB) 19,360.0
Last Casing String Intermediate Casing, 7,818.0ftKB	

Daily Contacts	
Job Contact	Mobile
BRIAN ALLEMAN, Engineer	214-978-8000
CHRISTOPHER ABSHIRE, Foreman	281-220-5828
MARTY ARREZOLA, 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 JARED CARPENTER, Toolpusher	Phone Mobile 918-936-7394

1, Gardner-Denver, PZ-11			
Pump Number	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
1	1,300.0	11.00	0.091
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Gardner-Denver, PZ-11			
Pump Number	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
2	1,300.0	11.00	0.091
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
CAUSTIC SODA	29.40	7.0

Job Supplies		
Supply Item Description	Unit Label	
DIESEL FOR OBM	Gal	
Total Received	Total Consumed	On Loc
9,601.0	0.0	9,601.0
DRILLING CUTTINGS	Cu. Yds	
Total Received	Total Consumed	On Loc
0.0	0.0	0.0
DRILLING WATER	Bbl	
Total Received	Total Consumed	On Loc
0.0	0.0	0.0
DRILLING WATER	Bbl	
Total Received	Total Consumed	On Loc
0.0	0.0	0.0
FUEL	Gal	
Total Received	Total Consumed	On Loc
22,733.0	11,277.0	11,456.0



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Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
00:30	04:45	4.25	12IHC, Int Hole Csg	CE	a	O	<p>HOLD PJSM WITH SCHLUMBERGER, H&P AND HOC PERSONNEL ABOUT CEMENTING.</p> <p>TEST LINES TO 3500 PSI. TEST GOOD.</p> <p>STAGE 1:</p> <p>- MIX & PUMP 20 BBL OF 8.33 PPG VISCOSIFIER WATER SPACER. MIX & PUMP 40 BBL OF 10.0 PPG MUD PUSH EXPRESS SPACER.</p> <p>- LEAD SLURRY: MIX & PUMP 281 BBLs (628 SKS) OF CLASS C CEMENT @ 11.5 PPG, YIELD 2.51 FT³/SK, MIX FLUID 14.76 GAL/SK.</p> <p>- TAIL SLURRY: MIX & PUMP 40 BBLs (209 SKS) OF CLASS H CEMENT @ 16.4 PPG, YIELD 1.07 FT³/SK, MIX FLUID 4.38 GAL/SK.</p> <p>- DROP 1ST STAGE DART PLUG. DISPLACE CEMENT W/ 586 BBLs, 8.5 PPG WBM. BUMP PLUG TO 2000 PSI, 650 PSI OVER CIRCULATING PRESSURE. HELD PRESSURE FOR 5 MINS.</p> <p>PROCEDURE TO SET TAM PACKER:</p> <p>- INCREASE PRESSURE TO 2,000 PSI @ 2 BBL/MIN USED .5 BBL. PRESSURE HOLDING.</p> <p>- INCREASE PRESSURE TO 2,200 PSI @ 2 BBL/MIN USED .5 BBL. PRESSURE HOLDING.</p> <p>- INCREASE PRESSURE TO 2,400 PSI @ 2 BBL/MIN USED .5 BBL. PRESSURE HOLDING.</p> <p>- INCREASE PRESSURE TO 2,600 PSI @ 2 BBL/MIN USED .5 BBL. PRESSURE HOLDING.</p> <p>- INCREASE PRESSURE TO 2,800 PSI @ 2 BBL/MIN USED .5 BBL. PRESSURE HOLDING.</p> <p>- INCREASE PRESSURE TO 3,000 PSI @ 2 BBL/MIN USED .75 BBL. PRESSURE HOLDING</p> <p>- INCREASE PRESSURE TO 3,300 PSI @ 2 BBL/MIN USED .75 BBL. PRESSURE HOLDING</p> <p>- INCREASE PRESSURE TO 3,500 PSI @ 2 BBL/MIN USED .75 BBLs. PACKER OPENS AT 2750 PSI.</p> <p>- BLED OFF PRESSURE & GOT BACK 4.5 BBLs. FLOATS HELD. GOOD RETURNS DURING 1ST STAGE CEMENT JOB.</p>
04:45	05:15	0.50	12IHC, Int Hole Csg	CE	a	O	DROP DV TOOL OPENING DEVICE & LET SAME FREE FALL FOR 30 MINS. PRESSURE UP TO 835 PSI. PRESSURE FELL OFF TO 530 PSI. INDICATED THAT THE DV TOOL OPENED.
05:15	06:00	0.75	12IHC, Int Hole Csg	Cl	g	O	CIRCULATE BOTTOMS UP.

Job Supplies		
Supply Item Description		Unit Label
LIQUID DRILLING WASTE		Bbl
Total Received	Total Consumed	On Loc
0.0	0.0	0.0
Supply Item Description		Unit Label
POTABLE WATER		Gal
Total Received	Total Consumed	On Loc
2.0	2.0	0.0
Supply Item Description		Unit Label
SEWAGE		Gal
Total Received	Total Consumed	On Loc
9,800.0	9,800.0	0.0
Supply Item Description		Unit Label
THREAD PROTECTORS		Box
Total Received	Total Consumed	On Loc
0.0	0.0	0.0
Supply Item Description		Unit Label
TRASH/GENERAL WASTE		Ea
Total Received	Total Consumed	On Loc
0.0	0.0	0.0

Safety Checks		
Time	Type	Safety Topic
17:30	Pre-Tour	HIGH PRESSURE CEMENT LINES
00:30	Pre-Job	CEMENTING OPERATIONS
05:30	Pre-Tour	BUFFER ZONE

Wellbores	
Wellbore Name	
UNIVERSITY 3-35 #101HB	
Kick Offs & Key Depths	
Type	Top Depth (ftKB)

Mud Checks						
Time	Type	Depth (ftKB)	Density (kg/m ³) (lb/g...	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft ²)
09:00	AQUAGEL WBM	7,838.0	9.30	33	5.0	8.003
Gel 10 sec (kPa) (lb...	Gell 10 min (kPa) (l...	Gel 30 min (kPa) (lb...	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
8.003	14.006	19.008	25.0	2	10.0	
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (kg/m ³) (...	Calcium (kg/m ³) (m...	Potassium (mg/L)	Electric Stab (V)
	95.0	40,000.000				
Time	Type	Depth (ftKB)	Density (kg/m ³) (lb/g...	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft ²)
01:00	AQUAGEL WBM	7,838.0	9.00	29	4.0	7.003
Gel 10 sec (kPa) (lb...	Gell 10 min (kPa) (l...	Gel 30 min (kPa) (lb...	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
4.002	11.005	14.006			10.0	
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (kg/m ³) (...	Calcium (kg/m ³) (m...	Potassium (mg/L)	Electric Stab (V)
	96.0	40,000.000				



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Mud Volumes							
Tank/Addition/Loss	Type	Volume (bbl)			Subtype		
Hole	Hole	483.2					
Tank	Tank	432.0					
Tank	Tank	750.0					
Addition	Addition	200.0					
Addition	Addition	0.5					
Loss	LOSS	107.3					
Drill Strings							
BHA #<stringno>, <des>							
Bit Run	Drill Bit	IADC Bit Dull			TFA (incl Noz) (in ²)		
Nozzles (1/32")				BHA Length (ft)	String Wt (1000lb)	Bit ROP (ft/hr)	
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 (1000lb)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lb)	SO Str Wt (1000lb)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft ³ /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/in ²)		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							
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...		
6/29/2017	13 3/8	1,462.0	1,461.9	TEST GOOD	500.0		
Test Date	Test Type		Fluid Density (lb/gal)		EMW (lb/gal)		
7/1/2017	Casing Test		8.45		15.03		
Survey Data							
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)