



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #102HB

Report Date: 6/7/2017
 Report #: 5.0, DFS: 3.48
 Time Log DFS: 3.48
 Depth Progress: 0.00

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		Weather CLEAR		Temperature (°F) 68.0		Road Condition GOOD	
Original Spud/Spud Rig Date		Hole Condition GOOD		Hole Condition GOOD			
Current Status/OART WAITING ON CEMENT BLEND TO ARRIVE AT REPORT TIME				24 Hour Forecast CONTINUE TO CMT AS DIRECTED, TEST BOPs, PREP TO DRILL INTERMEDIATE SECTION AS PER PROG PLAN #1.			

Short Report
 FINISH PUMPING CMT, WOC, M&P LCM PILL, RIG CREW CLEANED RIG WHILE WOC, PUMPED CMT, WOC, PUMP CMT, WOC TO ARRIVE, WELDER CUT HOLES IN CONDUCTOR AND WELDED 4" NIPPLE TO CONDUCTOR FOR ADDITIVES, PUMPED CMT AND PEA GRAVEL, WAIT ON CMT, PUMPED REMAINING 3 CU YDS OF PEA GRAVEL TO ANNULUS. MIX BAROID SQUEEZE, CLEANED RIG WHILE WOC TO ARRIVE.

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
2,685.5	2,126.0	1,735.9	2,466.0	165.1	-225.0	219.5

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
06:00	07:00	1.00	09SHC, Surf Hole Csg	TR	b	D	FINISH PUMPING 40 BBLs OF SCHLUMBERGER RFC CEMENT BLEND ON BACKSIDE. CONSISTING OF 10% D053 AND 1% CALCIUM CHLORIDE.
07:00	12:30	5.50	09SHC, Surf Hole Csg	TR	b	D	WAIT ON RFC CEMENT BLEND TO ARRIVE FROM SCHLUMBERGER. MIX 80 BBL LCM PILL CONSISTING OF 50 PPB STOPPIT, 10 PPB WALNUT PLUG, 10 PPB DRILLING PAPER. PUMP LCM PILL WHILE POURING 30, ONE GALLON CANS OF DIAMOND SEAL DOWN BACKSIDE. PUMP 50 BBL FRESH WATER, WAIT 20 MINUTES AND PUMP 50 BBL OF FRESH WATER TO HYDRATE DIAMOND SEAL. RIG CREW WORKS ON CLEANING RIG WHILE WAITING ON CMT.
12:30	13:00	0.50	09SHC, Surf Hole Csg	TR	b	D	PUMP 46 BBLs OF SCHLUMBERGER RFC CEMENT BLEND ON BACKSIDE. CONSISTING OF 10% D053 AND 1% CALCIUM CHLORIDE. ADDING SACKS OF CALCIUM CHLORIDE TO ANNULUS WHILE PUMPING CMT.
13:00	16:30	3.50	09SHC, Surf Hole Csg	TR	b	D	WAIT ON RFC CEMENT BLEND TO ARRIVE FROM SCHLUMBERGER. LUERAS WELDER ARRIVED ON LOCATION TO CUT HOLES INTO CONDUCTOR AND WELDED 4" NIPPLE TO CONDUCTOR FOR ADDITIVES.
16:30	17:30	1.00	09SHC, Surf Hole Csg	TR	b	D	PUMP 86 BBLs OF SCHLUMBERGER RFC CEMENT BLEND ON BACKSIDE. CONSISTING OF 10% D053 AND 2% CALCIUM CHLORIDE. ADDED 50 SACKS OF STOPPIT, 10 SACKS OF CALCIUM CHLORIDE AND 6 YARDS OF PEA GRAVEL TO ANNULUS WHILE PUMPING RFC SLURRY.
17:30	06:00	12.50	09SHC, Surf Hole Csg	TR	b	D	WAIT ON CEMENT TO SET 12.5 HOURS. ADD REMAINING 3 YARDS OF PEA GRAVEL AND 18 SACKS OF SCHLUMBERGER SIMNET FIBER TO ANNULUS. MIX BAROID SQUEEZE. RIG CREW CONTINUED TO PRESSURE WASH AND CLEAN RIG WHILE WAITING ON SCHLUMBERGER ABT CEMENT TRUCK TO ARRIVE WITH NEW RFC BLEND OF CEMENT AT REPORT TIME. TOTAL QUANTITIES OF FLUID PUMPED DOWN BACKSIDE FOLLOWING PRIMARY SINGLE STAGE CEMENT JOB: -CMT: 429 BBLs -LCM: 190 BBLs FRESH WATER: 130 BBLs

AFE Number DD.17.30779.CAP.DRL	AFE+Supp Amt (Cost) 2,177,000.00
Day Total (Cost) 60,685	Cum To Date (Cost) 390,717
Mud Field Est (Cost) 10,339	Cum Mud Field Est (Co... 25,883
Start Depth (ftKB) 720.0	End Depth (ftKB) 720.0
Planned Formation WOLFCAMP B	Planned TMD (ftKB) 19,216.0
Last Casing String Surface Casing, 684.0ftKB	

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

Personnel Log	
Head Count	19.0

Rigs	
HELMERICH & PAYNE DRILLING, 3	
Contractor HELMERICH & PAYNE DRILLING	Rig Number 394
Rig Supervisor THOMAS PENDERGRASS, Toolpusher	Phone Mobile 918-936-7394

1, Gardner-Denver, PZ-11			
Pump Number 1	Pwr (hp) 1,300.0	Rod Diameter...	
Liner Size (in) 6	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) 6	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
DRILLING PAPER	12.54	17.0
DRILL-SEAL	135.00	35.0
PAC-R	149.00	1.0
PALLETS	10.00	10.0
SHRINK WRAP	10.00	10.0
STOPPIT	40.00	80.0
TRANSPORTATI ON	1.00	595.35
TRANSPORTATI ON	1.00	350.0
WALNUT PLUG MED	13.75	15.0



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Mud Checks						
Time 17:00	Type Fresh Water	Depth (ftKB) 718.0	Density (kg/m³) (lb/g...) 8.40	Funnel Viscosity (s/qt) 28	PV Calc (cP) 2.0	YP Calc (lb/100ft²) 1.000
Gel 10 sec (kPa) (lb...) 1.000	Gell 10 min (kPa) (l...) 1.000	Gel 30 min (kPa) (lb...) 1.000	Filtrate (mL/30min) 100.0	Filter Cake (1/32") 100.0	pH 8.0	Solids (%)
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%) 99.3	Chlorides (kg/m³) (...) 2,600.000	Calcium (kg/m³) (m...)	Potassium (mg/L)	Electric Stab (V)
Time 05:00	Type Fresh Water	Depth (ftKB) 718.0	Density (kg/m³) (lb/g...) 8.40	Funnel Viscosity (s/qt) 28	PV Calc (cP) 2.0	YP Calc (lb/100ft²) 1.000
Gel 10 sec (kPa) (lb...) 1.000	Gell 10 min (kPa) (l...) 1.000	Gel 30 min (kPa) (lb...) 1.000	Filtrate (mL/30min) 100.0	Filter Cake (1/32") 100.0	pH 8.0	Solids (%)
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%) 99.3	Chlorides (kg/m³) (...) 2,700.000	Calcium (kg/m³) (m...)	Potassium (mg/L)	Electric Stab (V)

Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Addition	Water	130.0	
Hole	Hole	219.5	
Tank	Reserve	340.0	
Loss	SURFACE EQUIPMENT	-225.0	
Tank	TOTAL CIRC	280.0	
Tank	INVERMUL	1,846.0	
Addition	CHEMICALS	35.1	

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)

Drill String Components						
Item Des	Manual/Tally Jts	OD (in)	ID (in)	Len (ft)	Top Thread	

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				

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

Interval Problems						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Other	TOP OFF CMT JOB	6/5/2017	720.0	720.0		
Action Taken CONTINUED TO ATTEMPT TO PUMP SCHLUMBERGER RFC BLEND CMT TO FILL HOLE AND GET RETURNS TO SURFACE. BETWEEN WAITING ON CMT TO ARRIVE AND WHAT WAS DOWN HOLE PUMPED BARIOD LCM PILL FOLLOWED BY CMT.						

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

Job Supplies		
Supply Item Description	Unit Label	Gal
DIESEL FOR OBM	Gal	
Total Received	Total Consumed	On Loc
4,003.9	0.0	4,003.9
Supply Item Description	Unit Label	Cu. Yds
DRILLING CUTTINGS	Cu. Yds	
Total Received	Total Consumed	On Loc
0.0	0.0	0.0
Supply Item Description	Unit Label	Bbl
DRILLING WATER	Bbl	
Total Received	Total Consumed	On Loc
346.0	346.0	0.0
Supply Item Description	Unit Label	Bbl
DRILLING WATER	Bbl	
Total Received	Total Consumed	On Loc
9,718.0	9,718.0	0.0
Supply Item Description	Unit Label	Gal
FUEL	Gal	
Total Received	Total Consumed	On Loc
17,016.5	4,724.5	12,292.0
Supply Item Description	Unit Label	Bbl
LIQUID DRILLING WASTE	Bbl	
Total Received	Total Consumed	On Loc
0.0	0.0	0.0
Supply Item Description	Unit Label	Gal
POTABLE WATER	Gal	
Total Received	Total Consumed	On Loc
0.0	0.0	0.0
Supply Item Description	Unit Label	Gal
SEWAGE	Gal	
Total Received	Total Consumed	On Loc
4,900.0	4,900.0	0.0
Supply Item Description	Unit Label	Box
THREAD PROTECTORS	Box	
Total Received	Total Consumed	On Loc
0.0	0.0	0.0
Supply Item Description	Unit Label	Ea
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	CEMENT OPERATIONS
05:30	Pre-Tour	CEMENT OPERATIONS

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



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Leak Off and Formation Integrity Tests

Run Date	OD (in)	Set Depth (ft...)	Set Depth (T...)	Comment	MACP Press...
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Test Date	Test Type	Fluid Density (lb/gal)	EMW (lb/gal)
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Survey Data

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