



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

Time Log						
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
07:00	12:30	5.50	09SHC, Surf Hole Csg	TR	b	D
12:30	13:00	0.50	09SHC, Surf Hole Csg	TR	b	D
13:00	16:30	3.50	09SHC, Surf Hole Csg	TR	b	D
16:30	17:30	1.00	09SHC, Surf Hole Csg	TR	b	D
17:30	06:00	12.50	09SHC, Surf Hole Csg	TR	b	D

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... 2,600.000	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... 2,700.000	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)	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 (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				

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 Other	Problem Subtype TOP OFF CMT JOB	Start Date 6/5/2017	Start Depth (ftKB) 720.0	End Depth (ftKB) 720.0	Est Cost (Cost)	Est Lost Time (hr)
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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 DIESEL FOR OBM	Unit Label Gal
Total Received 4,003.9	Total Consumed 0.0 On Loc 4,003.9
Supply Item Description DRILLING CUTTINGS	Unit Label Cu. Yds
Total Received 0.0	Total Consumed 0.0 On Loc 0.0
Supply Item Description DRILLING WATER	Unit Label Bbl
Total Received 346.0	Total Consumed 346.0 On Loc 0.0
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 17,016.5	Total Consumed 4,724.5 On Loc 12,292.0
Supply Item Description LIQUID DRILLING WASTE	Unit Label Bbl
Total Received 0.0	Total Consumed 0.0 On Loc 0.0
Supply Item Description POTABLE WATER	Unit Label Gal
Total Received 0.0	Total Consumed 0.0 On Loc 0.0
Supply Item Description SEWAGE	Unit Label Gal
Total Received 4,900.0	Total Consumed 4,900.0 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
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...
Test Date	Test Type			Fluid Density (lb/gal)	EMW (lb/gal)

Survey Data

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