



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #102HB

Report Date: 6/8/2017
Report #: 6.0, DFS: 4.48
Time Log DFS: 4.48
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 PARTLY CLOUDY	Temperature (°F) 72.0	Road Condition GOOD
Current Status/OART TEST 13 3/8" CASING @ REPORT TIME		24 Hour Forecast TEST CASING. R/D BOP TESTER AND INSTALL WEAR BUSHING. P/U DIRECTIONAL BHA. DRILL OUT 13 3/8" CASING. DRILL AND SURVEY 12 1/4" HOLE.	

Short Report
MIX AND PUMP BAROID SQUEEZE. CLEAN OUT CELLAR. MIX AND PUMP 96 BBLs OF CMT. MONITOR ANNULUS. L/D LANDING JOINT AND MOUSE HOLE. R/D CEMENT EQUIPMENT AND CELLAR PUMPS. N/U SPACER SPOOL AND BOP. CHANGE OUT UPPER PIPE RAMS TO VBR'S. N/U CHOKE LINE TO BOP. TEST BOP.

Mud Volumes						
Active Volume (bbl) 112.8	Var Active Vol (bbl) -2,572.7	Balance (bbl) -2,788.9	Tank Volume (bbl) 0.0	Additions (bbl) 323.0	Losses (bbl) 106.8	Hole Volume (bbl) 112.8

Time Log							
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
06:00	07:30	1.50	09SHC, Surf Hole Csg	TR	b	D	WAIT ON RFC CEMENT BLEND TO ARRIVE FROM SCHLUMBERGER. NOTE: WHILE WAITING ON CMT TO ARRIVE, MIXED BAROID 80 BBL N-SQUEEZE PILL.
07:30	08:30	1.00	09SHC, Surf Hole Csg	TR	b	D	PUMP 80 BBLs OF BAROID N SQUEEZE LCM PILL CONSISTING OF: SODA ASH - 1 SACK AQUA GEL - 15 PPB BARACARB 50 - 2.5 PPB BARACARB 150 - 2.5 PPB STOPPIT - 10 PPB N-SQUEEZE - 7.5 PPB -RETURNS OBSERVED AT SURFACE AFTER PUMPING 25 BBLs OF SQUEEZE
08:30	12:30	4.00	09SHC, Surf Hole Csg	TR	b	D	CLEAN OUT CELLAR WHILE WAITING ON SCHLUMBERGER CMT TO ARRIVE.
12:30	14:30	2.00	09SHC, Surf Hole Csg	TR	b	D	PUMP 96 BBLs OF 14.8 PPG NEAT CEMENT CONTAINING 1.5% CALCIUM CHLORIDE. PARTIAL CEMENT RETURNS AFTER 25 BBLs PUMPED. FULL CEMENT RETURNS AFTER 35 BBLs PUMPED. LET CELLAR FILL WITH CEMENT UP TO LANDING RING.
14:30	16:00	1.50	09SHC, Surf Hole Csg	WH	a	O	MONITOR CEMENT IN ANNULUS. FLUSH CELLAR PUMP. LAY DOWN LANDING JOINT. REMOVE MOUSE HOLE AND LAY DOWN. TOTAL QUANTITIES OF FLUID PUMPED DOWN BACKSIDE FOLLOWING PRIMARY SINGLE STAGE CEMENT JOB: -CMT: 525 BBLs -LCM: 215 BBLs FRESH WATER: 130 BBLs
16:00	17:00	1.00	09SHC, Surf Hole Csg	CE	d	O	RIG DOWN CEMENT EQUIPMENT AND CELLAR PUMPS. NOTE: CEMENT LEVEL IN CELLAR REMAINED STATIC.
17:00	21:30	4.50	09SHC, Surf Hole Csg	BO	f	O	N/U SPACER SPOOL ON WELL HEAD. N/U BOP STACK AND KILL LINE. INSERT TEST PLUG AND CLOSE ANNULAR. PUMP THRU KILL LINE AND PRESSURE UP TO 1000 PSI TO CHECK FOR LEAKS AROUND SPACER SPOOL.
21:30	00:00	2.50	09SHC, Surf Hole Csg	BO	b	O	HOLD PJSM ON CHANGING OUT PIPE RAMS. CHANGE OUT UPPER 5" PIPE RAMS AND INSTALL 3 1/2" BY 5 1/2" VBR'S.
00:00	01:00	1.00	09SHC, Surf Hole Csg	BO	f	O	N/U CHOKE LINE TO BOP. REMOVE CHECK VALVE. INSTALL FLOW LINE TO BOP.

AFE Number DD.17.30779.CAP.DRL	AFE+Supp Amt (Cost) 2,177,000.00
Day Total (Cost) 136,215	Cum To Date (Cost) 526,932
Mud Field Est (Cost) 4,853	Cum Mud Field Est (Co... 30,736
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
TRAVIS PERSCHE, 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
BARACARB 150	13.30	3.0
BARACARB 50	13.30	3.0
N SEAL	135.63	21.0
STOPPIT	40.00	14.0
TRANSPORTATI ON	1.00	665.0

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



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Time Log

Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
01:00	06:00	5.00	09SHC, Surf Hole Csg	BO	a	O	PERFORM BOP TEST AS FOLLOWS: R/U MONAHANS TESTER WITH FMC UH-2 TEST PLUG. - TEST #1: TEST ANNULAR ON 5" DP 250 PSI 5MIN / 3000 PSI 5MIN. - TEST #2: TEST VBR'S UPPER PIPE RAMS W/ 5" DRILL PIPE, HYDRAULIC KILL VALVE, INNER 4" MANUAL CHOKE VALVE 250 PSI 5MIN / 5000 PSI 5MIN. - TEST #3: TEST VBR'S UPPER PIPE RAMS W/ 5" DRILL PIPE, OUTER 4" KILL LINE VALVE, HCR VALVE 250 PSI 5MIN / 5000 PSI 5MIN. - TEST #4: TEST UPPER VBRS, CHOKE LINE TO MANIFOLD MASTER VALVES, KILL LINE CHECK VALVE 250 PSI 5MIN / 5000 PSI 5MIN. - TEST #5: TEST 5" FIXED LOWER PIPE RAMS 250 PSI 5MIN / 5000 PSI 5MIN. - TEST #6: TEST 5" TIW VALVE 250 PSI 5MIN / 5000 PSI 5MIN. - TEST #7: TEST TOP DRIVE MANUAL KELLY COCK 250 PSI 5MIN / 5000 PSI 5MIN. - REMOVE TEST JT. LEAVE TEST PLUG IN WELL HEAD. - TEST #8: TEST BLINDS, INNER KILL LINE VALVE, CHOKE MANIFOLD VALVES, MANUAL AND HYDRAULIC CHOKES, 250 PSI 5 MIN / 5000 PSI 5 MIN. - TEST #9: TEST MUD LINES BACK TO PUMPS, 250 PSI 5MIN / 5000 PSI 5MIN. - REMOVE FMC UH-2 TEST PLUG. - CLOSE CASING VALVE ON WELLHEAD. - TEST #10: TEST 5" GRAY VALVE 250 PSI 5MIN / 5000 PSI 5MIN. - PERFORM ACCUMULATOR FUNCTION TEST, TESTED GOOD. R/D TESTERS.

Mud Checks

Time	Type	Depth (ftKB)	Density (kg/m³) (lb/g...)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
17:00	Fresh Water	718.0	8.40	28	2.0	1.000
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	100.0		8.0	
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (kg/m³) (...)	Calcium (kg/m³) (m...	Potassium (mg/L)	Electric Stab (V)
		99.3	2,700.000			
Time	Type	Depth (ftKB)	Density (kg/m³) (lb/g...)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
05:00	Fresh Water	718.0	8.40	28	2.0	1.000
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	100.0		8.0	
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (kg/m³) (...)	Calcium (kg/m³) (m...	Potassium (mg/L)	Electric Stab (V)
		99.3	2,700.000			

Mud Volumes

Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Addition	Water	323.0	
Hole	Hole	112.8	
Tank	Reserve		
Loss	SURFACE EQUIPMENT	106.8	
Tank	TOTAL CIRC		
Tank	INVERMUL		
Addition	CHEMICALS		

Job Supplies

Supply Item Description	Unit Label
DRILLING WATER	Bbl
Total Received 9,718.0	Total Consumed 9,718.0 On Loc 0.0
Supply Item Description	Unit Label
FUEL	Gal
Total Received 17,016.5	Total Consumed 5,218.5 On Loc 11,798.0
Supply Item Description	Unit Label
LIQUID DRILLING WASTE	Bbl
Total Received 0.0	Total Consumed 0.0 On Loc 0.0
Supply Item Description	Unit Label
POTABLE WATER	Gal
Total Received 5,300.0	Total Consumed 5,300.0 On Loc 0.0
Supply Item Description	Unit Label
SEWAGE	Gal
Total Received 9,900.0	Total Consumed 9,900.0 On Loc 0.0
Supply Item Description	Unit Label
THREAD PROTECTORS	Box
Total Received 0.0	Total Consumed 0.0 On Loc 0.0
Supply Item Description	Unit Label
TRASH/GENERAL WASTE	Ea
Total Received 0.0	Total Consumed 0.0 On Loc 0.0

Safety Checks

Time	Type	Safety Topic
17:30	Pre-Tour	CHANGING OUT PIPE RAMS
00:00	Pre-Job	BOP TESTING
05:30	Pre-Tour	P/U BHA

Wellbores

Wellbore Name
UNIVERSITY 3-35 #102HB

Kick Offs & Key Depths

Type	Top Depth (ftKB)



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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 (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 (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		
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	
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)