



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #102HB

Report Date: 6/6/2017
 Report #: 4.0, DFS: 2.48
 Time Log DFS: 2.48
 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) 65.0		Road Condition GOOD	
Original Spud/Spud Rig Date		Hole Condition GOOD		Hole Condition GOOD			
Current Status/OART M&P TOP OFF CMT JOB AT REPORT TIME				24 Hour Forecast FINISH PUMPING 1ST 40 BBLS CMT TOP OFF JOB, WAIT 30 MIN AND PUMP 2ND 46 BBL CMT TOP OFF JOB, CONTINUE TO CMT AS DIRECTED, TEST BOPs, PREP TO DRILL INTERMEDIATE SECTION AS PER PROG PLAN #1.			

Short Report
 POOH, L/D VES WIRELINE, CONTACT TRRC ABOUT REMEDIAL CMT JOB, RUN CMT LINES TO CELLAR AND PITS FOR CMT JOB, PJSM, RUN TOP OFF CMT JOB ON BACKSIDE W/ NO RETURNS, RIH W/TEMP BOND LOG, POOH W/ WIRELINE, M&P LCM PILL, RUN TOP OFF CMT JOB W/ NO RETURNS, WIRELINE, WOC DELIVERY, M&P TOP OFF CMT JOB, WIRELINE, WOC TO ARRIVE, PUMP LCM PILL TO ATTEMPT TO HEAL FORMATION WITH NO SUCCESS, M&P 2 STAGE TOP OFF CMT JOB, WOC BEFORE PUMPING 2ND STAGE CMT JOB, M&P 2ND STAGE TOP OFF CMT JOB W/NO RETURNS, WAIT ON NEW CMT BLEND TO ARRIVE, M&P TOP OFF CMT JOB AT REPORT TIME..

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
559.5	0.0	0.0	340.0	0.0	0.0	219.5

Time Log

Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
06:00	06:30	0.50	09SHC, Surf Hole Csg	TR	b	O	POOH F/ 500' AND L/D VES WIRELINE TEMPERATURE LOG AND CCL. ETOC 185'. NOTE: CONTACTED TRRC @ 0700 HRS. SPOKE WITH BOBBY MCDONALD AND NOTIFIED TOP JOBS AS NEEDED FOR CEMENT RETURNS TO SURFACE.
06:30	08:00	1.50	09SHC, Surf Hole Csg	TR	b	O	RUN CEMENT LINES TO CELLAR AND RESERVE PIT FOR TOP OUT JOB. HELD PJSM WITH SLB, HOC AND H&P ON TOP OUT OPERATIONS. OFFLINE: R/D TWO OF THREE CELLAR PUMPS, L/D CASING EQUIPMENT OFF RIG FLOOR, MAKE UP CHOKE LINE.
08:00	09:00	1.00	09SHC, Surf Hole Csg	TR	b	O	PERFORMED CMT TOP OFF JOB DOWN BACKSIDE. PUMPED 41 BBLS OF 14.8 PPG NEAT CMT CONTAINING 1% CALCIUM CHLORIDE. NO RETURNS TO SURFACE.
09:00	09:30	0.50	09SHC, Surf Hole Csg	TR	b	O	RIH WITH TEMPERATURE LOG AND CCL. CORROLATE CCL. LOG DOWN TO 500'. POOH WITH WIRELINE. ETC 193'.
09:30	11:30	2.00	09SHC, Surf Hole Csg	TR	b	O	MIX AND PUMP 60 BBL LCM PILL CONSISTING OF 30 PPB STOPPIT, 10 PPB BAROCARB 150 AND 5 PPB DRILL PAPER. PUMP PILL DOWN BACKSIDE AND FOLLOW BY SECOND TOP OUT CEMENT JOB. DISPATCH LOAD OF NEAT CEMENT.
11:30	12:30	1.00	09SHC, Surf Hole Csg	TR	b	O	MIX AND PUMP TOP OFF CMT JOB PUMPED 45 BBLS OF 14.8 PPG NEAT CMT CONTAINING 2% CALCIUM CHLORIDE. NO RETURNS TO SURFACE.
12:30	13:00	0.50	09SHC, Surf Hole Csg	TR	b	O	RIH WITH TEMPERATURE LOG AND CCL. CORROLATE CCL. LOG DOWN TO 500'. POOH WITH WIRELINE. ETC 188'.

AFE Number DD.17.30779.CAP.DRL	AFE+Supp Amt (Cost) 2,177,000.00
Day Total (Cost) 56,802	Cum To Date (Cost) 330,032
Mud Field Est (Cost) 4,539	Cum Mud Field Est (Co... 15,544
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
PAC-R	149.00	1.0
PALLETS	10.00	7.0
SHRINK WRAP	10.00	7.0
STOPPIT	40.00	80.0
TRANSPORTATI ON	1.00	350.0

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							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
13:00	14:30	1.50	09SHC, Surf Hole Csg	TR	b	O	WAIT ON CEMENT DELIVERY. OFFLINE: R/U SLIDES ON SHAKERS, R/U PVC LINES TO PITS. DISPATCH RFC CEMENT BLEND CONSISTING OF 10% D053 AND 1% S001.
14:30	16:00	1.50	09SHC, Surf Hole Csg	TR	b	O	MIX AND PUMP TOP OFF CMT JOB. PUMPED 85 BBLS OF 14.8 PPG NEAT CMT CONTAINING 2% CALCIUM CHLORIDE. NO RETURNS TO SURFACE.
16:00	18:00	2.00	09SHC, Surf Hole Csg	TR	b	O	RIH WITH TEMPERATURE LOG AND CCL. CORROLATE CCL. LOG DOWN TO 500'. POOH WITH WIRELINE. RIG DOWN VES WIRELINE AND TOOLS. ETC 194'. OFFLINE: MONAHANS TESTED THE CHOKE MANIFOLD TO 250 PSI LOW, 5,000 PSI HIGH. 5 MIN EACH TEST.
18:00	20:30	2.50	09SHC, Surf Hole Csg	TR	b	O	WAITING ON SCHLUMBERGER TO RFC BLEND NEW CMT SLURRY TO ARRIVE FOR TOP OFF JOB. MUD ENGINEER ENROUTE TO P/U DIAMOND SEAL LCM.
20:30	22:30	2.00	09SHC, Surf Hole Csg	TR	b	O	MIX AND PUMP 50 PPB LCM PILL CONSISTING OF 50 BBLS OF GEL MUD AND 50 PPB OF STOPPIT, ADDED 5 CANS OF DIAMOND SEAL (SWELLABLE POLYMER) SLOWLY DOWN BACKSIDE WHILE PUMPING LCM PILL. CHASED WITH 25 BBLS OF FRESH WATER TO HYDRATE DIAMOND SEAL. ALLOW LCM TO SOAK FOR 2 HRS.
22:30	23:30	1.00	09SHC, Surf Hole Csg	TR	b	O	PUMP 40 BBLS OF SCHLUMBERGER RFC CEMENT BLEND ON BACKSIDE . CONSISTING OF 10% D053 AND 1% CALCIUM CHLORIDE. NOTE: DISPATCH 2ND RFC BLEND.
23:30	00:00	0.50	09SHC, Surf Hole Csg	TR	a	O	WAIT ON CEMENT 30 MINUTES BEFORE PUMPING 2ND STAGE OF THE SCHLUMBERGER RFC CEMENT BLEND.
00:00	00:30	0.50	09SHC, Surf Hole Csg	TR	b	O	PUMP 46 BBLS OF SCHLUMBERGER RFC CEMENT BLEND ON BACKSIDE . CONSISTING OF 10% D053 AND 1% CALCIUM CHLORIDE.
00:30	05:00	4.50	09SHC, Surf Hole Csg	TR	b	O	WAIT ON CEMENT TO ARRIVE FROM SCHLUMBEGER. R/U PVC LINES AND SHAKER THROUGH, WATER PUMP, LINE UP WATER LINESTO MIX GEL MUD, GREASED AGITATORS ON PITS AND SHAKERS. PRESSURE WASH AND CLEAN SUBS.
05:00	06:00	1.00	09SHC, Surf Hole Csg	TR	b	O	PUMP 40 BBLS OF SCHLUMBERGER RFC CEMENT BLEND ON BACKSIDE . CONSISTING OF 10% D053 AND 1% CALCIUM CHLORIDE ON BACKSIDE AT TIME OF REPORT. DISPATCH RFC CEMENT BLEND CONSISTING OF 10% D053 AND 1% S001. NOTE NO RETURNS TO SURFACE AT REPORT TIME.

Job Supplies		
Supply Item Description	Unit Label	
DRILLING WATER	Bbl	
Total Received	Total Consumed	On Loc
9,718.0	9,718.0	0.0
Supply Item Description	Unit Label	
FUEL	Gal	
Total Received	Total Consumed	On Loc
11,282.0	3,950.0	7,332.0
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
0.0	0.0	0.0
Supply Item Description	Unit Label	
SEWAGE	Gal	
Total Received	Total Consumed	On Loc
4,900.0	4,900.0	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	CEMENT OPERATIONS
00:50	Pre-Tour	CEMENT OPERATIONS

Wellbores
 Wellbore Name
 UNIVERSITY 3-35 #102HB

Kick Offs & Key Depths	
Type	Top Depth (ftKB)

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	2.001	3.001	95.0		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	720.0	8.40	28	1.0	4.002
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	2.001	3.001	95.0		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			



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Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Addition	Water	0.0	
Hole	Hole	219.5	
Tank	Reserve	340.0	

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						

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)

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