



# Partner Drilling Report

## Well Name: UNIVERSITY 3-35 #104HB

Report Date: 8/5/2017  
 Report #: 27.0, DFS: 16.29  
 Time Log DFS: 16.29  
 Depth Progress: 0.00

API/UWI No. 42461405810000		Surface Legal Location A-U47; SEC. 11; BLK 4; UL SURVEY		Well License/Permit No. 824982		State/Province TEXAS	
Original Spud/Spud Rig Date 7/19/2017 23:00		Rig Release Date		KB to GL (ft) 25.00		KB-Casing Flange Distance (ft)	
Original Spud/Spud Rig Date 7/19/2017		Weather CLEAR		Temperature (°F) 79.0		Road Condition GOOD	
Original Spud/Spud Rig Date 7/19/2017		Weather CLEAR		Temperature (°F) 79.0		Hole Condition GOOD	
Current Status/OART P/U AND RUN 5 1/2" PRODUCTION CASING @ REPORT TIME				24 Hour Forecast CONTINUE TO RUN 5 1/2" PRODUCTION CASING. R/D CASING EQUIPMENT. CIRCULATE AND CONDITION HOLE. R/U CEMENT IRON AND CEMENT PRODUCTION CASING.			

Short Report  
 REPAIR HYDRAULIC FITTINGS AND LINE ON PIPE WRANGLER. CONTINUE TO POOH LAYING DOWN DRILL PIPE F/ 504' TO 100'. LAY DOWN DIRECTIONAL TOOLS. PULL WEAR BUSHING AND CLEAN FLOOR. R/U BYRD CASING EQUIPMENT. MAKE UP SHOE TRACK AND RUN 5 1/2" 20# P-110 GCN ERW SEAH TO 10359'.

<b>Mud Volumes</b>						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
2,075.5	-5.8	-5.8	399.0	0.0	0.0	1,676.5

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
06:00	06:30	0.50	24PHC, Prod Hole Csg	RM	b	O	LUBRICATE RIG.  NOTE: WORK ON PIPE WRANGLER.
06:30	14:30	8.00	24PHC, Prod Hole Csg	DT	c	S	JOINT OF DRILL PIPE ROLLED BACK TOWARDS TROUGH WHILE TROUGH WAS UP AFTER BEING EJECTED. THE JOINT FELL UNDER THE TROUGH AND THE RIG HAND WAS UNAWARE IT HAD ROLLED BACK. THE TROUGH WAS THEN LOWERED AND SET ON TOP OF THE JOINT OF DRILL PIPE. IT DAMAGED HYDRAULIC HOSES AND ELECTRIC MOTOR BOX WHICH MADE THE WRANGLER INOPERABLE.  LIFT PIPE WRANGLER TO DOCKING PINS. CHANGE OUT MISC HYDRAULIC FITTINGS AND HOSES. TAP OUT MISC BROKEN BOLTS IN ELECTRIC MOTOR BOX MOUNTS. SET CORRECT PRESSURE ON PRESSURE MANIFOLDS ON TROUGH CYLINDER ON CATWALK. ATTACH SKATE CHAIN ANCHOR TO SKATE.
14:30	15:00	0.50	24PHC, Prod Hole Csg	OT	e	O	PULL ROTATING HEAD RUBBER AND INSTALL TRIP NIPPLE.
15:00	16:00	1.00	24PHC, Prod Hole Csg	TP	c	O	POOH LAYING DOWN DRILL PIPE F/ 504' TO 100'.
16:00	16:45	0.75	24PHC, Prod Hole Csg	TP	b	O	DRAIN MOTOR, BREAK BIT AND LAY DOWN DIRECTIONAL TOOLS.  8 1/2" SECURITY DBS MMD55DM BIT GRADE: 1,1,CT, G, X, I, WT, TD.
16:45	18:00	1.25	24PHC, Prod Hole Csg	WH	c	O	PULL WEAR BUSHING AND CLEAN RIG FLOOR OF UNNECESSARY TOOLS.
18:00	19:00	1.00	24PHC, Prod Hole Csg	CS	a	O	RIG UP BYRD CASING EQUIPMENT.

AFE Number DD.17.30781.CAP.DRL	AFE+Supp Amt (Cost) 2,331,000.00
Day Total (Cost) 72,268	Cum To Date (Cost) 1,747,959
Mud Field Est (Cost) 1,093	Cum Mud Field Est (Co... 95,840
Start Depth (ftKB) 19,219.0	End Depth (ftKB) 19,219.0
Planned Formation WOLFCAMP B	Planned TMD (ftKB) 19,337.0
Last Casing String Production Casing, 19,219.0ftKB	

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

Personnel Log	
Head Count	27.0

Rigs	
<b>HELMERICH &amp; PAYNE DRILLING, 3</b>	
Contractor HELMERICH & PAYNE DRILLING	Rig Number 394
Rig Supervisor THOMAS PENDERGRASS, Toolpusher	Phone Mobile

1, Gardner-Denver, PZ-11			
Pump Number 1	Pwr (hp) 1,300.0	Rod Diameter...	
Liner Size (in) 5	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) 5	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
CALCIUM CHL 95 -98%	17.10	23.0

Job Supplies			
Supply Item Description DIESEL FOR OBM			Unit Label Gal
Total Received 49,969.0	Total Consumed 42,374.0	On Loc 7,595.0	
Supply Item Description DRILLING CUTTINGS			Unit Label Cu. Yds
Total Received 465.0	Total Consumed 465.0	On Loc 0.0	
Supply Item Description DRILLING WATER			Unit Label Bbl
Total Received 5,994.6	Total Consumed 5,994.6	On Loc 0.0	
Supply Item Description FUEL			Unit Label Gal
Total Received 52,682.0	Total Consumed 31,621.0	On Loc 9,263.0	



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**Report Date: 8/5/2017**  
**Report #: 27.0, DFS: 16.29**  
**Time Log DFS: 16.29**  
**Depth Progress: 0.00**

### Well Name: UNIVERSITY 3-35 #104HB

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
19:00	06:00	11.00	24PHC, Prod Hole Csg	CS	b	O	<p>HOLD PJSM WITH BYRD, H&amp;P AND HUNT PERSONNEL.</p> <p>M/U 5-1/2" 20# P-110 GCN ERW SEAH SHOE TRACK, CONSISTING OF 6 1/2" OD SUMMIT ECCENTRIC REAMER SHOE, 1 JT 5-1/2" CASING, 5 1/2" SUMMIT FLOAT COLLAR, 20' PUP JOINT, 5-5/8" BAKER LANDING COLLAR, 1 JT 5-1/2" CASING, 10' PUP JOINT, 6-3/8" BAKER ALPHA FRAC SLEEVE, 10' PUP JOINT, 6-3/8" BAKER ALPHA FRAC SLEEVE AND 20' PUP JOINT TO 166.01'.</p> <p>RIG UP CRT. PUMP THRU TO CHECK FLOATS. GOOD.</p> <p>P/U AND RUN 5-1/2" 20# P-110 GCN ERW SEAH PRODUCTION CASING FROM 164.07' TO 10359'.</p> <p>LOST CASING DISPLACEMENT @ 2300'. RUN CASING TO 5023' AND BREAK CIRCULATION. PUMP 80 GPM WITH FULL RETURNS. CONTINUE RUNNING CASING TO 9909' WITH NO CASING DISPLACEMENT. FILL CASING AND BREAK CIRCULATION. PUMP 13 BBLs AND GAINED RETURNS. CONTINUE TO RUN IN HOLE WITH CASING WITH NO CASING DISPLACEMENT @ REPORT TIME.</p> <p>NOTE: NO CEMENT ON LOCATION AT REPORT TIME. CALL SCHLUMBERGER @ 5:30 AM FOR CREW AND CEMENT TO BE LOCATION AT 14:00. WAS INFORMED THAT CEMENT COULD BE 12 OR MORE HOURS OUT FROM CALL OUT TIME.</p>

Job Supplies		
Supply Item Description		Unit Label
LIQUID DRILLING WASTE		Bbl
Total Received	Total Consumed	On Loc
460.0	460.0	0.0
Supply Item Description		Unit Label
POTABLE WATER		Gal
Total Received	Total Consumed	On Loc
37,600.0	37,600.0	0.0
Supply Item Description		Unit Label
SEWAGE		Gal
Total Received	Total Consumed	On Loc
27,900.0	27,900.0	0.0
Supply Item Description		Unit Label
THREAD PROTECTORS		Box
Total Received	Total Consumed	On Loc
1.0	1.0	0.0
Supply Item Description		Unit Label
TRASH/GENERAL WASTE		Box
Total Received	Total Consumed	On Loc
2.0	2.0	0.0

Safety Checks		
Time	Type	Safety Topic
17:30	Pre-Tour	BUFFER ZONE
19:00	Pre-Job	P/U AND RUNNING PRODUCTION CASING
05:30	Pre-Tour	PROPER LIFTING TECHNIQUE

Mud Checks						
Time	Type	Depth (ftKB)	Density (kg/m³) (lb/g...	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
09:00	INVERMUL	19,219.0	9.30	60	14.0	11.005
Gel 10 sec (kPa) (lb...	Gell 10 min (kPa) (l...	Gel 30 min (kPa) (lb...	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
12.005	17.007	21.009				11.0
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (kg/m³) (...	Calcium (kg/m³) (m...	Potassium (mg/L)	Electric Stab (V)
	70.0	19.0	40,000.000	22,000.000		600.0
Time	Type	Depth (ftKB)	Density (kg/m³) (lb/g...	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
02:00	INVERMUL	19,219.0	9.20	60	14.0	12.005
Gel 10 sec (kPa) (lb...	Gell 10 min (kPa) (l...	Gel 30 min (kPa) (lb...	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
12.005	17.007	21.009				11.0
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (kg/m³) (...	Calcium (kg/m³) (m...	Potassium (mg/L)	Electric Stab (V)
	70.0	19.0	40,000.000	21,000.000		600.0

Wellbores	
Wellbore Name	UNIVERSITY 3-35 #104HB
Kick Offs & Key Depths	
Type	Top Depth (ftKB)

Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Hole	ANNULUS	295.3	
Hole	PIPE CAP	474.1	
Hole	TOTAL HOLE	1,676.5	
Tank	ACTIVE PITS	299.0	
Hole	TOTAL CIRC.	1,068.4	
Tank	RESERVE	100.0	
Addition	BASE	0.0	
Addition	DRILL WATER	0.0	
Addition	BARITE	0.0	
Addition	CHEMICALS	0.0	
Loss	SCE	0.0	
Loss	DOWNHOLE	0.0	
Loss	MISC OTHER	0.0	

Drill Strings			
<b>BHA #6, Curve</b>			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
1	8 1/2in, MMD55DM, 1287411	1-1-CT-G-X-I-WT-TD	1.86
Nozzles (1/32")		BHA Length (ft)	String Wt (1000lbf)
22/22/22/22/22		12,105.26	90.3

Mud Motors		
Motor Bend	Bit to Bend	Rotor Nozzle Diameter (in)
2.00 FIXED	4.05	

Drill String Components					
Item Des	Manual/Tally Jts	OD (in)	ID (in)	Len (ft)	Top Thread
HWDP	21	5	3.00	639.59	IF
Drill Pipe	306	5	4.28	9,638.80	IF



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 Depth Progress: 0.00

Well Name: UNIVERSITY 3-35 #104HB

Drill String Components					
Item Des	Manual/Tally Jts	OD (in)	ID (in)	Len (ft)	Top Thread
Agitator	1	6 9/16	2.50	23.78	IF
Drill Pipe	54	5	4.28	1,702.49	IF
Drill Collar - Non Mag	1	6 1/2	3.25	30.67	IF
Non-Mag Hangoff Sub	1	6 1/2	3.25	5.45	IF
Drill Collar - Non Mag	1	6 1/2	3.25	30.72	IF
Mud Motor - Bent Housing	1	6 1/2	2.50	33.76	IF

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)
UNIVERSITY 3-35 #104HB	19,219.0	19,219.0	10,874.00	0.00	120.48		
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)
0.0	0.0	0.0	0.0	

Error  
 Unable to calculate annular pressure drop because pressure drop data is missing from AV calc

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...	
7/20/2017	13 3/8	1,461.0	1,460.8	TEST ON CHART: GOOD TEST	500.0	
Test Date	Test Type	Fluid Density (lb/gal)	EMW (lb/gal)			
7/21/2017	Casing Test	8.30	14.80			
7/24/2017	9 5/8	5,058.0	4,973.3	TEST ON CHART: GOOD TEST	1,500.0	
Test Date	Test Type	Fluid Density (lb/gal)	EMW (lb/gal)			
7/25/2017	Casing Test	9.90	15.71			
7/24/2017	9 5/8	5,058.0	4,973.3	TEST ON CHART: GOOD TEST	96.0	
Test Date	Test Type	Fluid Density (lb/gal)	EMW (lb/gal)			
7/26/2017	F.I.T.	9.90	10.27			

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



# Partner Drilling Report

## Well Name: UNIVERSITY 3-35 #104HB

Report Date: 8/6/2017  
 Report #: 28.0, DFS: 17.29  
 Time Log DFS: 17.29  
 Depth Progress: 0.00

API/UWI No. 42461405810000		Surface Legal Location A-U47; SEC. 11; BLK 4; UL SURVEY		Well License/Permit No. 824982		State/Province TEXAS	
Original Spud/Spud Rig Date 7/19/2017 23:00		Rig Release Date		KB to GL (ft) 25.00		KB-Casing Flange Distance (ft)	
Original Spud/Spud Rig Date 7/19/2017		Weather CLEAR		Temperature (°F) 76.0		Road Condition GOOD	
Original Spud/Spud Rig Date 7/19/2017		Weather CLEAR		Temperature (°F) 76.0		Hole Condition GOOD	
Current Status/OART WAIT ON SCHLUMBERGER CEMENT AND CREW @ REPORT TIME.				24 Hour Forecast WAIT ON CEMENT. CEMENT PRODUCTION CASING. WAIT ON CEMENT AND CLEAN PITS. BREAK STACK, SET CASING SLIPS AND CUT CASING. NIPPLE DOWN STACK, DRESS CASING CUT AND SET PACKOFF. RIG DOWN AND MAKE READY FOR RIG MOVE.			

**Short Report**  
 CONTINUE TO P/U AND RUN 5 1/2" 20# P-110 GCN ERW SEAH F/ 10359' TO 19219'. R/D BYRD CASING EQUIPMENT. CIRCULATE 1.5 CASING CAPACITIES. WAIT ON SCHLUMBERGER CEMENT AND CREW. 2 LOADS OF CEMENT ARRIVED ON LOCATION BEFORE REPORT TIME.

<b>Mud Volumes</b>						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
2,075.9	0.4	-332.2	824.0	332.6	0.0	1,251.9

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
06:00	13:45	7.75	24PHC, Prod Hole Csg	CS	b	O	CONTINUE TO P/U AND RUN 5-1/2" 20# P-110 GCN ERW SEAH PRODUCTION CASING FROM 10359' TO 19219'.  NOTABLE DEPTHS AND ACCESSORIES AS FOLLOWS:  - 6-1/2" REAMER SHOE @ 19,219' - 1 JOINT OF 5-1/2" CASING - 5 1/2" FLOAT COLLAR @ 19,170.4' - 20 FT 5-1/2" PUP JOINT - 5-1/2" LANDING COLLAR @ 19,148.3" - 5-1/2" LANDING COLLAR @ 19,146.1" - 1 JOINT OF 5-1/2" CASING - 10 FT 5-1/2" PUP JOINT - 6-1/2" BAKER FRAC POINT ALPHA SLEEVE @ 19,086.8' - 10 FT 5-1/2" PUP JOINT - 6-1/2" BAKER FRAC POINT ALPHA SLEEVE @ 19,073.0' - 20 FT 5-1/2" PUP JOINT - 74 JOINTS OF 5-1/2" CASING - 20 FT 5-1/2" MARKER JOINT "A" @ 15,710.6' - 77 JOINTS OF 5-1/2" CASING - 20 FT 5-1/2" MARKER JOINT "B" @ 12,302.8' - 102 JOINTS OF 5-1/2" CASING - 20 FT 5-1/2" MARKER JOINT "C" @ 7,686.5' - 171 JOINTS OF 5-1/2" CASING TO SURFACE. (TOTAL 5-1/2" CASING RAN: 426 JOINTS).  NOTE: HOLE BEGAN GIVING DISPLACEMENT DURING CASING RUN.  INSTALL 5-1/2" X 7-1/4" X 8" SOLID BODY CENTRALIZERS EVERY JOINT ON THE LATERAL AND CURVE TO INSIDE 9-5/8" CASING, 5-1/2" X 8" CENTEK BOWSPRING CENTRALIZERS EVERY OTHER JOINT INSIDE THE 9-5/8" CASING TO 3864.8'  NOTE: CONTACTED SCHLUMBERGER AT 10:30 AND WAS INFORMED ETA FOR CREWS AND CEMENT ON LOCATION BETWEEN MIDNIGHT AND 6:00 AM  NOTE: INSPECT DRILL PIPE ON LOCATION (INSPECTION STARTED ON 8/3/2017).
13:45	14:15	0.50	24PHC, Prod Hole Csg	CS	a	O	R/D CASING EQUIPMENT BUT CRT RIGGED UP.
14:15	15:45	1.50	24PHC, Prod Hole Csg	Cl	g	O	CIRCULATE 1.5 CASING CAPACITIES @ 7.5 BPM.  NOTE: CONTACTED SCHLUMBERGER AT 14:30 TO LET THEM KNOW CASING WAS ON BOTTOM. ETA FOR CREW AND CEMENT BETWEEN 4:00 - 8:00 AM SUNDAY MORNING.

AFE Number DD.17.30781.CAP.DRL	AFE+Supp Amt (Cost) 2,331,000.00
Day Total (Cost) 269,926	Cum To Date (Cost) 2,017,885
Mud Field Est (Cost) 700	Cum Mud Field Est (Co... 96,540
Start Depth (ftKB) 19,219.0	End Depth (ftKB) 19,219.0
Planned Formation WOLFCAMP B	Planned TMD (ftKB) 19,337.0
Last Casing String Production Casing, 19,219.0ftKB	

Daily Contacts	
Job Contact	Mobile
BRIAN ALLEMAN, Engineer	214-978-8000
CHRISTOPHER ABSHIRE, Foreman	281-220-5828
KEVIN GOTTE, 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 THOMAS PENDERGRASS, Toolpusher	Phone Mobile

1, Gardner-Denver, PZ-11			
Pump Number 1	Pwr (hp) 1,300.0	Rod Diameter...	
Liner Size (in) 5	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) 5	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

Job Supplies		
Supply Item Description DIESEL FOR OBM	Unit Label Gal	
Total Received 49,969.0	Total Consumed 42,374.0	On Loc 7,595.0

Supply Item Description DRILLING CUTTINGS	Unit Label Cu. Yds	
Total Received 465.0	Total Consumed 465.0	On Loc 0.0

Supply Item Description DRILLING WATER	Unit Label Bbl	
Total Received 5,994.6	Total Consumed 5,994.6	On Loc 0.0

Supply Item Description FUEL	Unit Label Gal	
Total Received 52,682.0	Total Consumed 31,621.0	On Loc 9,263.0
Supply Item Description LIQUID DRILLING WASTE	Unit Label Bbl	
Total Received 460.0	Total Consumed 460.0	On Loc 0.0



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 Report #: 28.0, DFS: 17.29  
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 Depth Progress: 0.00

## Well Name: UNIVERSITY 3-35 #104HB

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
15:45	06:00	14.25	24PHC, Prod Hole Csg	TR	q	O	<p>WAIT ON SCHLUMBERGER CEMENT AND CREW. CONTINUE TO CIRCULATE WITH CRT @ 3 BPM.</p> <p>NOTE: CLEAN AND ORGANIZE RIG FLOOR. PUMP OUT CELLAR AND CLEAN CELLAR AREA. CHANGE LINERS ON PUMPS AND PULL MOUSE HOLE. CLEAN AND ORGANIZE AROUND LOCATION.</p> <p>NOTE: SPOKE WITH SCHLUMBERGER @ 00:00. WAS GIVEN AN ETA OF 3:00 - 5:00 AM FOR CEMENT TRUCKS.</p> <p>FIRST LOAD OF TAIL CEMENT ARRIVED ON LOCATION @ 4:30 AM.</p>

Mud Checks						
Time	Type	Depth (ftKB)	Density (kg/m³) (lb/g...	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
05:00	INVERMUL	19,219.0	9.20	59	14.0	12.005
Gel 10 sec (kPa) (lb...	Gell 10 min (kPa) (l...	Gel 30 min (kPa) (lb...	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
12.005	16.007	21.009				10.9
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (kg/m³) (...	Calcium (kg/m³) (m...	Potassium (mg/L)	Electric Stab (V)
	70.0	19.1	40,000.000	22,000.000		600.0

Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Hole	ANNULUS	825.7	
Hole	PIPE CAP	426.2	
Hole	TOTAL HOLE	1,251.9	
Tank	ACTIVE PITS	444.0	
Hole	TOTAL CIRC.	1,695.9	
Tank	RESERVE	380.0	
Addition	BASE	0.0	
Addition	DRILL WATER	332.6	
Addition	BARITE	0.0	
Addition	CHEMICALS	0.0	
Loss	SCE	0.0	
Loss	DOWNHOLE	0.0	
Loss	MISC OTHER	0.0	

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

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Job Supplies		
Supply Item Description	Unit Label	Gal
POTABLE WATER		
Total Received	Total Consumed	On Loc
37,600.0	37,600.0	0.0
SEWAGE		
Total Received	Total Consumed	On Loc
27,900.0	27,900.0	0.0
THREAD PROTECTORS		
Total Received	Total Consumed	On Loc
1.0	1.0	0.0
TRASH/GENERAL WASTE		
Total Received	Total Consumed	On Loc
2.0	2.0	0.0

Safety Checks		
Time	Type	Safety Topic

Wellbores
Wellbore Name
UNIVERSITY 3-35 #104HB

Kick Offs & Key Depths	
Type	Top Depth (ftKB)



Partner Drilling Report

Report Date: 8/6/2017  
 Report #: 28.0, DFS: 17.29  
 Time Log DFS: 17.29  
 Depth Progress: 0.00

Well Name: UNIVERSITY 3-35 #104HB

**Interval Problems**

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
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Action Taken

**Interval Lessons**

Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
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Comment

**Safety Incidents**

Time	Category	Type	Subtype	Cause	Lost time?	Severity
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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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7/20/2017	13 3/8	1,461.0	1,460.8	TEST ON CHART: GOOD TEST	500.0
Test Date		Test Type		Fluid Density (lb/gal)	EMW (lb/gal)
7/21/2017		Casing Test		8.30	14.80

Run Date	OD (in)	Set Depth (ft...)	Set Depth (T...)	Comment	MACP Press...
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7/24/2017	9 5/8	5,058.0	4,973.3	TEST ON CHART: GOOD TEST	1,500.0
Test Date		Test Type		Fluid Density (lb/gal)	EMW (lb/gal)
7/25/2017		Casing Test		9.90	15.71

Run Date	OD (in)	Set Depth (ft...)	Set Depth (T...)	Comment	MACP Press...
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7/24/2017	9 5/8	5,058.0	4,973.3	TEST ON CHART: GOOD TEST	96.0
Test Date		Test Type		Fluid Density (lb/gal)	EMW (lb/gal)
7/26/2017		F.I.T.		9.90	10.27

**Survey Data**

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