



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #102HB

Report Date: 6/17/2017
Report #: 15.0, DFS: 13.48
Time Log DFS: 13.48
Depth Progress: 3.00

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 6/3/2017	Weather CLEAR	Temperature (°F) 83.0	Road Condition GOOD
Current Status/OART TIH WITH MILLING ASSEMBLY @ REPORT TIME		24 Hour Forecast CONTINUE TO TIH TO BOTTOM. MILL ON BOTTOM OF HOLE. POOH TO CHECK BOOT BASKET.	

Short Report
CONTINUE TO WAIT ON FISHING TOOLS. P/U AND M/U FISHING ASSEMBLY. TIH TO BOTTOM. CUT CORE F/ 8132' TO 8135'. POOH TO CHECK JUNK BASKET. NO RETRIEVAL OF PDC BLADE PIECE. P/U CONCAVE MILL AND BOOT BASKET. TIH WITH MILLING ASSEMBLY.

Mud Volumes						
Active Volume (bbl) 1,795.3	Var Active Vol (bbl) 11.1	Balance (bbl) 0.1	Tank Volume (bbl) 1,244.0	Additions (bbl) 11.8	Losses (bbl) 0.8	Hole Volume (bbl) 551.3

Time Log						
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code
06:00	11:00	5.00	22PHCD, Prod Hole Curve Drill	TR	q	O
WAIT ON BAKER HUGHES FISHING TOOLS. TOOLS ON LOCATION @ 11:00 NOTE: CLEAN RIG AND WORK ON PIPE WRANGLER.						
11:00	12:00	1.00	22PHCD, Prod Hole Curve Drill	TR	I	O
UNLOAD FISHING TOOLS, LAY OUT AND STRAP SAME.						
12:00	13:00	1.00	22PHCD, Prod Hole Curve Drill	TR	I	O
M/U REVERSE JET BASKET, XO, BUMPER JAR, AND A SET OF OIL JARS.						
13:00	16:00	3.00	22PHCD, Prod Hole Curve Drill	TR	I	O
TIH WITH FISHING TOOLS.						
16:00	17:00	1.00	22PHCD, Prod Hole Curve Drill	DT	c	O
BLOWN HYDRAULIC HOSE ON ST-80. CHANGE OUT HOSE.						
17:00	20:00	3.00	22PHCD, Prod Hole Curve Drill	TR	I	O
TIH AND TAG BOTTOM @ 8132' WITH FISHING TOOLS.						
20:00	20:30	0.50	22PHCD, Prod Hole Curve Drill	TR	I	O
PICK AND BREAK CONNECTION. BROP BALL FOR REVERSE CIRCULATION BASKET.						
20:30	21:00	0.50	22PHCD, Prod Hole Curve Drill	TR	I	O
TAG BOTTOM @ 8132'. ROTATE PIPE @ 40 RPM AND CORE TO 8135'. SET 5K DOWN WHILE CORING.						
21:00	02:00	5.00	22PHCD, Prod Hole Curve Drill	TR	I	O
PUMP SLUG AND POOH.						
02:00	02:30	0.50	22PHCD, Prod Hole Curve Drill	TR	I	O
FISHING TOOLS ABOVE ROTARY. CHECK JUNK BASKET. NO RETRIEVAL OF PDC BLADE AND NO FORMATION RECOVERED. MINOR SCARRING ON TIPS OF THE SHOE.						
02:30	03:30	1.00	22PHCD, Prod Hole Curve Drill	TR	I	O
LAY OUT AND STRAP MILLING ASSEMBLY. MONITOR WELL. CLEAN RIG FLOOR.						
03:30	04:00	0.50	22PHCD, Prod Hole Curve Drill	TR	I	O
M/U CONCAVE MILL ASSEMBLY.						
04:00	06:00	2.00	22PHCD, Prod Hole Curve Drill	TR	I	O
TIH WITH MILLING ASSEMBLY.						

Mud Checks						
Time 17:00	Type INVERMUL	Depth (ftKB) 8,132.0	Density (kg/m³) (lb/g...) 9.50	Funnel Viscosity (s/qt) 71	PV Calc (cP) 15.0	YP Calc (lbf/100ft²) 14.006
Gel 10 sec (kPa) (lb...) 14.006	Gel 10 min (kPa) (l...) 19.008	Gel 30 min (kPa) (lb...) 24.010	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 9.0
MBT (lb/bbl)	Percent Oil (%) 68.0	Percent Water (%) 23.0	Chlorides (kg/m³) (...) 40,000.000	Calcium (kg/m³) (m...) 23,000.000	Potassium (mg/L)	Electric Stab (V) 800.0

AFE Number DD.17.30779.CAP.DRL	AFE+Supp Amt (Cost) 2,177,000.00
Day Total (Cost) 72,305	Cum To Date (Cost) 1,285,186
Mud Field Est (Cost) 3,318	Cum Mud Field Est (Co... 60,106
Start Depth (ftKB) 8,132.0	End Depth (ftKB) 8,135.0
Planned Formation WOLFCAMP B	Planned TMD (ftKB) 19,216.0
Last Casing String Intermediate Casing, 7,787.0ftKB	

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

Personnel Log	
Head Count	23.0

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

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...	0.067
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...	0.067
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
BAROID (BULK)	205.00	8.31
DRILTREAT	97.02	2.0
SCALE CHARGE	10.00	1.0
TRANSPORTATI ON	1.00	710.85

Job Supplies		
Supply Item Description DIESEL FOR OBM	Unit Label Gal	
Total Received 13,294.6	Total Consumed 2,210.0	On Loc 11,084.6

Supply Item Description DRILLING CUTTINGS	Unit Label Cu. Yds	
Total Received 55.0	Total Consumed 55.0	On Loc 0.0

Supply Item Description DRILLING WATER	Unit Label Bbl	
Total Received 6,436.7	Total Consumed 6,436.7	On Loc 0.0



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Well Name: UNIVERSITY 3-35 #102HB

Report Date: 6/17/2017
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Time Log DFS: 13.48
Depth Progress: 3.00

Mud Checks

Time 05:00	Type INVERMUL	Depth (ftKB) 8,132.0	Density (kg/m³) (lb/gal) 9.50	Funnel Viscosity (s/qt) 75	PV Calc (cP) 15.0	YP Calc (lb/100ft²) 15.006
Gel 10 sec (kPa) (lb/100ft²) 13.005	Gel 10 min (kPa) (lb/100ft²) 19.008	Gel 30 min (kPa) (lb/100ft²) 23.009	Filtrate (mL/30min) 40,000.000	Filter Cake (1/32") 23,000.000	pH	Solids (%) 9.0
MBT (lb/bbl) 68.0	Percent Oil (%) 23.0	Percent Water (%) 40,000.000	Chlorides (kg/m³) (...) 23,000.000	Calcium (kg/m³) (m...) Potassium (mg/L) Electric Stab (V) 800.0		

Mud Volumes

Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Addition	Water		
Hole	Hole	551.3	
Tank	Reserve	837.0	
Loss	SURFACE EQUIPMENT		
Tank	TOTAL CIRC		
Tank	INVERMUL	407.0	
Addition	CHEMICALS	11.8	
Loss	MISC. OTHER	0.8	

Drill Strings

BHA #5, Fishing

Bit Run	Drill Bit	IADC Bit Dull -----	TFA (incl Noz) (in²)
Nozzles (1/32")		BHA Length (ft) 700.73	String Wt (1000lb) 7.2

Drill String Components

Item Des	Manual/Tally Jts	OD (in)	ID (in)	Len (ft)	Top Thread
Accelerator		6 1/4	2.25	12.87	IF
HWDP		5	3.00	658.35	IF
Drilling Jars - Hydraulic		6 1/4	2.25	12.76	IF
Bumper Sub		6 1/4	3.13	8.49	IF
XO Sub		6 1/4	2.81	3.96	IF
Reverse Circ Basket		8 1/2	2.31	4.30	REG

Drilling Parameters

Wellbore UNIVERSITY 3-35 #102HB	Start Depth (ftKB) 8,132.0	End Depth (ftKB) 8,135.0	Cum Depth (ft) 3.00	Drilling Time (hr) 0.42	Cum Drill Time (hr) 0.42	Interval ROP (ft/hr) 7.2	Flow Rate (gpm) 293
WOB (1000lb) 5	Rotary RPM (rpm) 40	SPP (psi) 694.0	Drill Str Wt (1000...) PU Str Wt (1000lbft) SO Str Wt (1000lbft)	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 (%) 0
Max Casing AV (ft/min) 184.6	Max Open Hole AV (ft/min) 2,744,159,261.6	Min Casing AV (ft/min) 58.6	Min Open Hole AV (ft/min) 57.4	ECD End (lb/gal) 12,493,326,595,213,900,000.00

Error
Unable to calculate pressure drop at bit because bit total fluid area not specified in drill string and bit nozzle data is missing

Kicks

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
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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	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

Job Supplies

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 33,333.5	Total Consumed 22,227.5
On Loc 11,106.0	
Supply Item Description LIQUID DRILLING WASTE	Unit Label Bbl
Total Received 290.0	Total Consumed 290.0
On Loc 0.0	
Supply Item Description POTABLE WATER	Unit Label Gal
Total Received 17,300.0	Total Consumed 17,300.0
On Loc 0.0	
Supply Item Description SEWAGE	Unit Label Gal
Total Received 23,400.0	Total Consumed 23,400.0
On Loc 0.0	
Supply Item Description THREAD PROTECTORS	Unit Label Box
Total Received 1.0	Total Consumed 1.0
On Loc 0.0	
Supply Item Description TRASH/GENERAL WASTE	Unit Label Ea
Total Received 2.0	Total Consumed 2.0
On Loc 0.0	

Safety Checks

Time	Type	Safety Topic
17:30	Pre-Tour	L/D TOOLS
05:30	Pre-Tour	FORKLIFT OPERATIONS

Wellbores

Wellbore Name
UNIVERSITY 3-35 #102HB

Kick Offs & Key Depths

Type	Top Depth (ftKB)
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Report Date: 6/17/2017
Report #: 15.0, DFS: 13.48
Time Log DFS: 13.48
Depth Progress: 3.00

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

Leak Off and Formation Integrity Tests

Run Date 6/4/2017	OD (in) 13 3/8	Set Depth (ft... 684.0	Set Depth (T... 684.0	Comment	MACP Press... 500.0
Test Date 6/8/2017		Test Type Casing Test		Fluid Density (lb/gal) 9.10	EMW (lb/gal) 23.17
Run Date 6/12/2017	OD (in) 9 5/8	Set Depth (ft... 7,787.0	Set Depth (T... 7,781.9	Comment 9 5/8" INTERMEDIATE CASING TEST ABOVE DV TOOL.	MACP Press... 1,500.0
Test Date 6/13/2017		Test Type Casing Test		Fluid Density (lb/gal) 8.80	EMW (lb/gal)
Run Date 6/12/2017	OD (in) 9 5/8	Set Depth (ft... 7,787.0	Set Depth (T... 7,781.9	Comment 9 5/8" INTERMEDIATE CASING TEST ABOVE SHOE TRACK.	MACP Press... 1,500.0
Test Date 6/13/2017		Test Type Casing Test		Fluid Density (lb/gal) 8.80	EMW (lb/gal)
Run Date 6/12/2017	OD (in) 9 5/8	Set Depth (ft... 7,787.0	Set Depth (T... 7,781.9	Comment PERFORM F.I.T. AS FOLLOWS: MW USED WBM @ 8.6 PPG. PUMPED 12.5 BBLS @ .5 BPM. PRESSURE UP TO 975 PSI 11.0 PPG EMW. HELD FOR 5 MINUTES.	MACP Press... 986.0
Test Date 6/13/2017		Test Type F.I.T.		Fluid Density (lb/gal) 8.60	EMW (lb/gal) 11.03

Survey Data

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



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #102HB

Report Date: 6/18/2017
Report #: 16.0, DFS: 14.48
Time Log DFS: 14.48
Depth Progress: 2.00

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 6/3/2017	Weather CLEAR	Temperature (°F) 83.0	Road Condition GOOD
Current Status/OART FILLING PIPE AND WASH TO BOTTOM @ REPORT TIME.		24 Hour Forecast BUILD 8 1/2" CURVE AND SURVEY.	

Short Report
CONTINUE TO TIH WITH MILLING ASSEMBLY. MILL ON BOTTOM F/ 8135' TO 8137'. POOH AND LAY DOWN MILLING ASSEMBLY. RECOVER DEBRIS FROM BOOT BASKET. P/U AND M/U DIRECTIONAL ASSEMBLY. TIH WITH DIRECTIONAL ASSEMBLY.

Mud Volumes						
Active Volume (bbl) 1,818.9	Var Active Vol (bbl) 23.6	Balance (bbl) 0.0	Tank Volume (bbl) 1,204.0	Additions (bbl) 47.8	Losses (bbl) 24.2	Hole Volume (bbl) 614.9

Time Log							
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
06:00	08:30	2.50	22PHCD, Prod Hole Curve Drill	TR	I	D	TIH WITH MILLING ASSEMBLY TO 8135'.
08:30	13:00	4.50	22PHCD, Prod Hole Curve Drill	TR	I	D	MILL ON BOTTOM F/ 8135' TO 8137' WITH 10-120 RPM, 2-20 WOB, & 100-400 GPM.
13:00	19:30	6.50	22PHCD, Prod Hole Curve Drill	TR	I	D	POOH TO L/D MILLING ASSEMBLY AND P/U DIRECTIONAL TOOLS.
19:30	21:30	2.00	22PHCD, Prod Hole Curve Drill	TR	I	D	BREAK AND L/D MILLING ASSEMBLY. LOAD OUT EQUIPMENT. NOTE: BOOT BASKET RECOVERY CONSISTED OF FLOAT DEBRIS AND TWO SMALL PIECES OF TUNGSTEN. MINIMAL SCARRING ON CUTTING SURFACE OF MILL.
21:30	22:30	1.00	22PHCD, Prod Hole Curve Drill	TR	I	D	P/U AND MAKE UP DIRECTIONAL TOOLS.
22:30	23:00	0.50	22PHCD, Prod Hole Curve Drill	TR	I	D	RIG SERVICE.
23:00	00:30	1.50	22PHCD, Prod Hole Curve Drill	TR	I	D	P/U AND MAKE UP REMAINING DIRECITONAL TOOLS. SHALLOW TEST MWD. MAKE UP SMITH 8 1/2" MILL TOOTH BIT.
00:30	06:00	5.50	22PHCD, Prod Hole Curve Drill	TR	I	D	TIH WITH DIRECTIONAL BHA.

Mud Checks						
Time 07:00	Type INVERMUL	Depth (ftKB) 8,132.0	Density (kg/m³) (lb/g...) 9.60	Funnel Viscosity (s/qt) 82	PV Calc (cP) 15.0	YP Calc (lb/100ft²) 12.005
Gel 10 sec (kPa) (lb...) 10.004	Gell 10 min (kPa) (l...) 16.007	Gel 30 min (kPa) (lb...) 20.008	Filtrate (mL/30min) 45,000.000	Filter Cake (1/32") 29,000.000	pH 10.0	Solids (%) 10.0
MBT (lb/bbl) 68.0	Percent Oil (%) 22.0	Percent Water (%) 45,000.000	Chlorides (kg/m³) (...) 44,000.000	Calcium (kg/m³) (m...) 27,000.000	Potassium (mg/L) 800.0	Electric Stab (V) 650.0
Time 05:00	Type INVERMUL	Depth (ftKB) 8,137.0	Density (kg/m³) (lb/g...) 9.50	Funnel Viscosity (s/qt) 76	PV Calc (cP) 13.0	YP Calc (lb/100ft²) 15.006
Gel 10 sec (kPa) (lb...) 11.005	Gell 10 min (kPa) (l...) 17.007	Gel 30 min (kPa) (lb...) 19.008	Filtrate (mL/30min) 44,000.000	Filter Cake (1/32") 27,000.000	pH 10.0	Solids (%) 10.0
MBT (lb/bbl) 69.0	Percent Oil (%) 21.0	Percent Water (%) 44,000.000	Chlorides (kg/m³) (...) 44,000.000	Calcium (kg/m³) (m...) 27,000.000	Potassium (mg/L) 800.0	Electric Stab (V) 800.0

Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Addition	Water	10.0	
Hole	Hole	614.9	
Tank	Reserve	837.0	
Loss	SURFACE EQUIPMENT	20.0	
Tank	TOTAL CIRC		
Tank	INVERMUL	367.0	
Addition	CHEMICALS	37.8	
Loss	MISC. OTHER	4.2	

AFE Number DD.17.30779.CAP.DRL	AFE+Supp Amt (Cost) 2,177,000.00
Day Total (Cost) 51,911	Cum To Date (Cost) 1,337,097
Mud Field Est (Cost) 5,365	Cum Mud Field Est (Co... 65,471
Start Depth (ftKB) 8,135.0	End Depth (ftKB) 8,137.0
Planned Formation WOLFCAMP B	Planned TMD (ftKB) 19,216.0
Last Casing String Intermediate Casing, 7,787.0ftKB	

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

Personnel Log	
Head Count	23.0

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

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... 0.067	
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... 0.067	
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
BAROID (BULK)	205.00	8.88
DRILTREAT	97.02	2.0
EZ-MUL	725.00	2.0
LIME	6.00	30.0
SCALE CHARGE	10.00	1.0
TRANSPORTATI ON	1.00	1,010.8

Job Supplies		
Supply Item Description DIESEL FOR OBM	Unit Label Gal	
Total Received 13,294.6	Total Consumed 2,210.0	On Loc 11,084.6
Supply Item Description DRILLING CUTTINGS	Unit Label Cu. Yds	
Total Received 55.0	Total Consumed 55.0	On Loc 0.0
Supply Item Description DRILLING WATER	Unit Label Bbl	
Total Received 6,436.7	Total Consumed 6,436.7	On Loc 0.0



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Report Date: 6/18/2017
Report #: 16.0, DFS: 14.48
Time Log DFS: 14.48
Depth Progress: 2.00

Drill Strings							
BHA #6, Milling							
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)			
		707.15		0.4			
Drill String Components							
Item Des	Manual/Tally Jts	OD (in)	ID (in)	Len (ft)	Top Thread		
Accelerator		6 1/4	2.25	12.87	IF		
HWDP		5	3.00	658.35	IF		
Drilling Jars - Hydraulic		6 1/4	2.25	12.76	IF		
Bumper Sub		6 1/4	3.13	8.49	IF		
XO Sub		6 1/4	2.81	3.96	IF		
Boot Basket				4.66	REG		
Boot Basket				4.53	REG		
Mill				1.53	REG		
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 #102HB	8,135.0	8,137.0	2.00	4.50	4.50	0.4	293
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
20	41	769.0					
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 A drill string component contains a null value in OD							
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)	
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...		
6/4/2017	13 3/8	684.0	684.0		500.0		
Test Date	Test Type	Fluid Density (lb/gal)	EMW (lb/gal)				
6/8/2017	Casing Test	9.10	23.17				
Run Date	OD (in)	Set Depth (ft...)	Set Depth (T...)	Comment	MACP Press...		
6/12/2017	9 5/8	7,787.0	7,781.9	9 5/8" INTERMEDIATE CASING TEST ABOVE DV TOOL.	1,500.0		
Test Date	Test Type	Fluid Density (lb/gal)	EMW (lb/gal)				
6/13/2017	Casing Test	8.80					
Run Date	OD (in)	Set Depth (ft...)	Set Depth (T...)	Comment	MACP Press...		
6/12/2017	9 5/8	7,787.0	7,781.9	9 5/8" INTERMEDIATE CASING TEST ABOVE SHOE TRACK.	1,500.0		
Test Date	Test Type	Fluid Density (lb/gal)	EMW (lb/gal)				
6/13/2017	Casing Test	8.80					

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
33,333.5	22,227.5	11,106.0
Supply Item Description	Unit Label	
LIQUID DRILLING WASTE	Bbl	
Total Received	Total Consumed	On Loc
290.0	290.0	0.0
Supply Item Description	Unit Label	
POTABLE WATER	Gal	
Total Received	Total Consumed	On Loc
17,300.0	17,300.0	0.0
Supply Item Description	Unit Label	
SEWAGE	Gal	
Total Received	Total Consumed	On Loc
23,400.0	23,400.0	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	Ea	
Total Received	Total Consumed	On Loc
2.0	2.0	0.0
Safety Checks		
Time	Type	Safety Topic
17:30	Pre-Tour	BODY PLACEMENT
05:30	Pre-Tour	HEAT STROKE
Wellbores		
Wellbore Name		
UNIVERSITY 3-35 #102HB		
Kick Offs & Key Depths		
Type	Top Depth (ftKB)	



Partner Drilling Report

Report Date: 6/18/2017
Report #: 16.0, DFS: 14.48
Time Log DFS: 14.48
Depth Progress: 2.00

Well Name: UNIVERSITY 3-35 #102HB

Leak Off and Formation Integrity Tests

Run Date 6/12/2017	OD (in) 9 5/8	Set Depth (ft... 7,787.0	Set Depth (T... 7,781.9	Comment PERFORM F.I.T. AS FOLLOWS: MW USED WBM @ 8.6 PPG. PUMPED 12.5 BBLS @ .5 BPM. PRESSURE UP TO 975 PSI 11.0 PPG EMW. HELD FOR 5 MINUTES.	MACP Press... 986.0
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Test Date 6/13/2017	Test Type F.I.T.	Fluid Density (lb/gal) 8.60	EMW (lb/gal) 11.03
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Survey Data

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

Well Name: UNIVERSITY 3-35 #102HB

Report Date: 6/19/2017
Report #: 17.0, DFS: 15.48
Time Log DFS: 15.48
Depth Progress: 161.00

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 6/3/2017	Weather PARTLY CLOUDY	Temperature (°F) 77.0	Road Condition GOOD
Current Status/OART TIH WITH DIRECTIONAL BHA @ REPORT TIME	24 Hour Forecast TIH TO BOTTOM. BUILD 8 1/2" CURVE AND SURVEY.	Hole Condition GOOD	
Short Report BUILD 8 1/2" CURVE AND SURVEY F/ 8137' TO 8298'. PUMP SLUG AND POOH TO 5000'. PERFORM RIG SERVICE. POOH TO BHA. C/O BIT AND RESCRIBE MOTOR. C/O SECOND ST-80 HYDRAULIC HOSE. M/U TOP NMDC.			

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
1,793.7	-25.2	0.0	1,235.0	37.1	62.3	558.7

Time Log							
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
06:00	19:30	13.50	22PHCD, Prod Hole Curve Drill	DR	b	O	BUILD CURVE AND SURVEY F 8132' TO 8298'. AVG ROP: 11.9 FT/HR
19:30	20:00	0.50	22PHCD, Prod Hole Curve Drill	TR	p	O	PUMP SLUG TO POOH AND CHANGE OUT BIT DUE TO LACK OF ROP.
20:00	22:30	2.50	22PHCD, Prod Hole Curve Drill	TR	p	O	POOH F/ 8298' TO 5000'.
22:30	23:00	0.50	22PHCD, Prod Hole Curve Drill	TR	p	O	RIG SERVICE. NOTE: C/O ST-80 HYDRAULIC HOSE.
23:00	02:00	3.00	22PHCD, Prod Hole Curve Drill	TR	p	O	POOH TO BHA.
02:00	03:30	1.50	22PHCD, Prod Hole Curve Drill	TR	p	O	DRAIN MOTOR AND BREAK BIT. RESCRIBE MOTOR AND M/U 8 1/2" SECURITY MMD55DM PDC.
03:30	05:30	2.00	22PHCD, Prod Hole Curve Drill	DT	c	O	CHANGE OUT SECOND HYDRAULIC HOSE ON ST-80
05:30	06:00	0.50	22PHCD, Prod Hole Curve Drill	TR	p	O	MAKE UP TOP NMDC ON BHA.

Mud Checks						
Time 17:00	Type INVERMUL	Depth (ftKB) 8,156.0	Density (kg/m³) (lb/g...) 9.40	Funnel Viscosity (s/qt) 79	PV Calc (cP) 14.0	YP Calc (lb/100ft²) 16.007
Gel 10 sec (kPa) (lb...) 13.005	Gel 10 min (kPa) (l...) 19.008	Gel 30 min (kPa) (lb...) 24.010	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 9.0
MBT (lb/bbl)	Percent Oil (%) 68.0	Percent Water (%) 23.0	Chlorides (kg/m³) (...) 46,000.000	Calcium (kg/m³) (m...) 25,000.000	Potassium (mg/L)	Electric Stab (V) 800.0
Time 05:00	Type INVERMUL	Depth (ftKB) 8,298.0	Density (kg/m³) (lb/g...) 9.50	Funnel Viscosity (s/qt) 69	PV Calc (cP) 16.0	YP Calc (lb/100ft²) 14.006
Gel 10 sec (kPa) (lb...) 12.005	Gel 10 min (kPa) (l...) 19.008	Gel 30 min (kPa) (lb...) 25.010	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 9.0
MBT (lb/bbl)	Percent Oil (%) 69.0	Percent Water (%) 22.0	Chlorides (kg/m³) (...) 45,000.000	Calcium (kg/m³) (m...) 23,000.000	Potassium (mg/L)	Electric Stab (V) 800.0

Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Addition	Water	10.0	
Hole	Hole	558.7	
Tank	Reserve	837.0	
Loss	SURFACE EQUIPMENT	62.3	
Tank	TOTAL CIRC		
Tank	INVERMUL	398.0	
Addition	CHEMICALS	27.1	
Loss	MISC. OTHER		

AFE Number DD.17.30779.CAP.DRL	AFE+Supp Amt (Cost) 2,177,000.00
Day Total (Cost) 63,664	Cum To Date (Cost) 1,400,761
Mud Field Est (Cost) 4,290	Cum Mud Field Est (Co... 69,760
Start Depth (ftKB) 8,137.0	End Depth (ftKB) 8,298.0
Planned Formation WOLFCAMP B	Planned TMD (ftKB) 19,216.0
Last Casing String Intermediate Casing, 7,787.0ftKB	

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

Personnel Log	
Head Count	23.0

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

1, Gardner-Denver, PZ-11		
Pump Number 1	Pwr (hp) 1,300.0	Rod Diameter... 1
Liner Size (in) 5	Stroke (in) 11.00	Vol/Stk OR (b... 0.067
P (psi)	Slow Spd	Strokes (s...) Eff (%)

2, Gardner-Denver, PZ-11		
Pump Number 2	Pwr (hp) 1,300.0	Rod Diameter... 2
Liner Size (in) 5	Stroke (in) 11.00	Vol/Stk OR (b... 0.067
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
BAROID (BULK)	205.00	9.0
CON DET	59.00	10.0
DRILTREAT	97.02	2.0
GELTONE V	65.00	10.0
LIME	6.00	15.0
OIL ABSORB-CLAY	14.00	2.0
WALNUT PLUG MED	13.75	14.0

Job Supplies		
Supply Item Description DIESEL FOR OBM	Unit Label Gal	
Total Received 13,294.6	Total Consumed 2,210.0	On Loc 11,084.6
Supply Item Description DRILLING CUTTINGS	Unit Label Cu. Yds	
Total Received 55.0	Total Consumed 55.0	On Loc 0.0



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #102HB

Report Date: 6/19/2017
Report #: 17.0, DFS: 15.48
Time Log DFS: 15.48
Depth Progress: 161.00

Drill Strings

BHA #7, Curve

Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in ²)
8 1/2in, <model>, RJ2763		6-6-WT-A-E-1-NO-PR	1.11
Nozzles (1/32")	BHA Length (ft)	String Wt (1000lbf)	Bit ROP (ft/hr)
22/22/22	12,130.33		11.8

Mud Motors

Motor Bend	Bit to Bend	Rotor Nozzle Diameter (in)
2.12 FIXED	2.1	

Drill String Components

Item Des	Manual/Tally Jts	OD (in)	ID (in)	Len (ft)	Top Thread
HWDP	21	5	3.00	664.93	IF
Drill Pipe	306	5	4.28	9,638.80	IF
Agitator		6 7/8	2.44	24.22	IF
Drill Pipe	54	5	4.28	1,702.49	IF
Drill Collar - Non Mag		6 1/2	3.25	30.02	IF
Non-Mag Hangoff Sub		6 1/2	3.25	5.46	IF
Drill Collar - Non Mag		6 1/2	3.25	29.67	IF
Mud Motor - Bent Housing		6 1/2	2.50	33.74	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 #102HB	8,137.0	8,153.0	16.00	1.95	1.95	8.2	546
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
31	0	2,855.0	175	189	178		0.0
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 (%)
67.9	1.2	157.4	213.2	7
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)
434.6	446.1	97.9	107.0	9.68

Error

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 #102HB	8,153.0	8,156.0	19.00	0.41	2.36	7.3	546
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
4	25	2,857.0	169	215	175		4.7
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 (%)
67.9	1.2	157.4	213.2	7
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)
434.6	446.1	97.9	107.0	9.68

Error

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 #102HB	8,156.0	8,199.0	62.00	1.84	4.20	23.4	546
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
32	0	2,856.0	161	205	196		0.0
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 (%)
67.9	1.2	157.4	213.2	7
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)
434.6	446.1	97.9	107.0	9.68

Error

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 #102HB	8,199.0	8,203.0	66.00	0.42	4.62	9.5	546
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
16	25	2,797.0	177	208	189		5.0
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...)

Job Supplies

Supply Item Description	Unit Label
DRILLING WATER	Bbl
Total Received	Total Consumed On Loc
6,436.7	6,436.7 0.0

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
33,333.5	22,227.5 11,106.0

Supply Item Description	Unit Label
LIQUID DRILLING WASTE	Bbl
Total Received	Total Consumed On Loc
290.0	290.0 0.0

Supply Item Description	Unit Label
POTABLE WATER	Gal
Total Received	Total Consumed On Loc
17,300.0	17,300.0 0.0

Supply Item Description	Unit Label
SEWAGE	Gal
Total Received	Total Consumed On Loc
23,400.0	23,400.0 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	Ea
Total Received	Total Consumed On Loc
2.0	2.0 0.0

Safety Checks

Time	Type	Safety Topic
17:15	BOP Drill	BOP DRILL
17:30	Pre-Tour	TOOL INSPECTION
05:30	Pre-Tour	PROPER LIFTING TECHNIQUE S

Wellbores

Wellbore Name
UNIVERSITY 3-35 #102HB

Kick Offs & Key Depths

Type	Top Depth (ftKB)



Partner Drilling Report

Report Date: 6/19/2017
Report #: 17.0, DFS: 15.48
Time Log DFS: 15.48
Depth Progress: 161.00

Well Name: UNIVERSITY 3-35 #102HB

Hydraulic Calculations

Bit Hydraulic Power (hp)	HP/Area (hp/in ²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	% P @ bit (%)
67.9	1.2	157.4	213.2	8
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)
434.6	446.1	97.9	107.0	9.68

Error

Wellbore UNIVERSITY 3-35 #102HB	Start Depth (ftKB) 8,203.0	End Depth (ftKB) 8,246.0	Cum Depth (ft) 109.00	Drilling Time (hr) 2.09	Cum Drill Time (hr) 6.71	Interval ROP (ft/hr) 20.6	Flow Rate (gpm) 546
WOB (1000lbf) 35	Rotary RPM (rpm) 0	SPP (psi) 2,803.0	Drill Str Wt (1000... 158	PU Str Wt (1000lbf) 190	SO Str Wt (1000lbf) 172	Drilling Torque	Off Btm Tq 0.0
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 (%)
67.9	1.2	157.4	213.2	8
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)
434.6	446.1	97.9	107.0	9.68

Error

Wellbore UNIVERSITY 3-35 #102HB	Start Depth (ftKB) 8,246.0	End Depth (ftKB) 8,250.0	Cum Depth (ft) 113.00	Drilling Time (hr) 0.45	Cum Drill Time (hr) 7.16	Interval ROP (ft/hr) 8.9	Flow Rate (gpm) 546
WOB (1000lbf) 19	Rotary RPM (rpm) 25	SPP (psi) 2,794.0	Drill Str Wt (1000... 163	PU Str Wt (1000lbf) 218	SO Str Wt (1000lbf) 178	Drilling Torque	Off Btm Tq 6.0
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 (%)
67.9	1.2	157.4	213.2	8
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)
434.6	446.1	97.9	107.0	9.68

Error

Wellbore UNIVERSITY 3-35 #102HB	Start Depth (ftKB) 8,250.0	End Depth (ftKB) 8,298.0	Cum Depth (ft) 161.00	Drilling Time (hr) 6.43	Cum Drill Time (hr) 13.59	Interval ROP (ft/hr) 7.5	Flow Rate (gpm) 546
WOB (1000lbf) 36	Rotary RPM (rpm) 0	SPP (psi) 2,741.0	Drill Str Wt (1000... 154	PU Str Wt (1000lbf) 169	SO Str Wt (1000lbf) 193	Drilling Torque	Off Btm Tq 0.0
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 (%)
67.2	1.2	157.4	210.9	8
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)
434.6	446.1	97.9	107.0	9.59

Error

Kicks

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
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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	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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Partner Drilling Report

Report Date: 6/19/2017
Report #: 17.0, DFS: 15.48
Time Log DFS: 15.48
Depth Progress: 161.00

Well Name: UNIVERSITY 3-35 #102HB

Leak Off and Formation Integrity Tests

Run Date 6/4/2017	OD (in) 13 3/8	Set Depth (ft... 684.0	Set Depth (T... 684.0	Comment	MACP Press... 500.0
Test Date 6/8/2017	Test Type Casing Test			Fluid Density (lb/gal) 9.10	EMW (lb/gal) 23.17
Run Date 6/12/2017	OD (in) 9 5/8	Set Depth (ft... 7,787.0	Set Depth (T... 7,781.9	Comment 9 5/8" INTERMEDIATE CASING TEST ABOVE DV TOOL.	MACP Press... 1,500.0
Test Date 6/13/2017	Test Type Casing Test			Fluid Density (lb/gal) 8.80	EMW (lb/gal)
Run Date 6/12/2017	OD (in) 9 5/8	Set Depth (ft... 7,787.0	Set Depth (T... 7,781.9	Comment 9 5/8" INTERMEDIATE CASING TEST ABOVE SHOE TRACK.	MACP Press... 1,500.0
Test Date 6/13/2017	Test Type Casing Test			Fluid Density (lb/gal) 8.80	EMW (lb/gal)
Run Date 6/12/2017	OD (in) 9 5/8	Set Depth (ft... 7,787.0	Set Depth (T... 7,781.9	Comment PERFORM F.I.T. AS FOLLOWS: MW USED WBM @ 8.6 PPG. PUMPED 12.5 BBLS @ .5 BPM. PRESSURE UP TO 975 PSI 11.0 PPG EMW. HELD FOR 5 MINUTES.	MACP Press... 986.0
Test Date 6/13/2017	Test Type F.I.T.			Fluid Density (lb/gal) 8.60	EMW (lb/gal) 11.03

Survey Data

MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
8,103.00	19.76	2.59	8,093.74	-26.29	-25.49	-135.50	9.27
8,149.00	25.61	0.52	8,136.16	-8.57	-7.76	-135.06	12.83
8,197.00	31.59	359.00	8,178.29	14.40	15.20	-135.18	12.55
8,243.00	37.53	359.01	8,216.15	40.47	41.28	-135.63	12.91
8,298.00	44.69	359.63	8,257.57	76.61	77.42	-136.05	13.04