



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #104HB

Report Date: 7/27/2017
Report #: 18.0, DFS: 7.29
Time Log DFS: 7.29
Depth Progress: 1,304.00

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) 73.0	Road Condition GOOD
Current Status/OART ROTATE / SLIDE DRLG AT REPORT TIME		24 Hour Forecast DRILL AHEAD AS PER DRILLING PROG AND DIRECTIONAL PLAN IN PRODUCTION SECTION.	

Short Report
TRANSFER OBM TO PITS, DRESS SHAKERS, DISPLACE, PUMP SLUG, TOO, PULL ROTATING HEAD & INSTALL TRIP NIPPLE, TOO, C/O BIT, CLEAN FLOOR, TIH INSTALL ROTATING HEAD & P/U AGITATOR, TIH, WASH TO BTM, ROTATE / SLIDE DRLG AHEAD AT REPORT TIME

Mud Volumes

Active Volume (bbl) 3,206.8	Var Active Vol (bbl) 316.7	Balance (bbl) 402.1	Tank Volume (bbl) 1,583.0	Additions (bbl) 74.0	Losses (bbl) 159.4	Hole Volume (bbl) 1,623.8
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Time Log

Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
06:00	08:00	2.00	12IHC, Int Hole Csg	CI	c	O	TRANSFER OBM TO PITS, DRESS SHAKERS
08:00	10:00	2.00	12IHC, Int Hole Csg	CI	c	O	DISPLACE OBM @ 120 SPM, BUILD SLUG TO TOO
10:00	10:15	0.25	12IHC, Int Hole Csg	CI	d	O	PUMP SLUG
10:15	11:15	1.00	12IHC, Int Hole Csg	TP	c	O	TOOH FROM 5130' TO 2032'
11:15	11:30	0.25	12IHC, Int Hole Csg	OT	e	O	REMOVE ROTATING HEAD & INSTALL TRIP NIPPLE
11:30	12:45	1.25	12IHC, Int Hole Csg	TP	c	O	TOOH F/2032' TO BIT
12:45	13:00	0.25	12IHC, Int Hole Csg	TP	b	O	M/U NEW 8 3/4" MMD55DM HALLIBURTON - SECURITY PDC BIT SN: 12929253.
13:00	13:30	0.50	12IHC, Int Hole Csg	RM	b	O	CLEAN RIG FLOOR
13:30	16:30	3.00	12IHC, Int Hole Csg	TP	a	O	TIH F/BIT TO 1789', P/U AGITATOR AND INSTALL ROTATING HEAD. CONTINUE TIH F/1789' TO 5058'
16:30	16:45	0.25	12IHC, Int Hole Csg	TP	a	O	WASH DOWN F/5058' TO 5130'
16:45	06:00	13.25	22PHCD, Prod Hole Curve Drill	DR	b	O	ROTATE / SLIDE DRLG F/5130' TO 6434. CURRENT MUD WT: 8.8 PPG AT TIME OF REPORT. OBSERVED MINOR SEEPAGE DOWNHOLE AT TOP OF SPRABERRY. INCREASE SWEEPS TO 30 BBLS AND ADD 10 PPB STOPIT TOTALING 25 PPB LCM. 1304' @ 98 FPH AVG ROP. NOTE: PUMPING LCM SWEEPS 10 BBLS EVERY STAND CONSISTING OF: 1 CAN DRILL TREAT, 5PPB BARACARB 150, 5 PPB BARACARB 50, 5PPB MICA FINE.12

Mud Checks

Time 15:00	Type INVERMUL	Depth (ftKB) 5,130.0	Density (kg/m³) (lb/g...) 9.20	Funnel Viscosity (s/qt) 59	PV Calc (cP) 11.0	YP Calc (lb/100ft²) 11.005
Gel 10 sec (kPa) (lb...) 8.003	Gell 10 min (kPa) (l...) 15.006	Gel 30 min (kPa) (lb...) 17.007	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 10.8
MBT (lb/bbl)	Percent Oil (%) 66.8	Percent Water (%) 22.5	Chlorides (kg/m³) (...) 38,000.000	Calcium (kg/m³) (m...) 14,400.000	Potassium (mg/L)	Electric Stab (V) 415.0
Time 05:00	Type INVERMUL	Depth (ftKB) 5,868.0	Density (kg/m³) (lb/g...) 8.95	Funnel Viscosity (s/qt) 53	PV Calc (cP) 11.0	YP Calc (lb/100ft²) 10.004
Gel 10 sec (kPa) (lb...) 8.003	Gell 10 min (kPa) (l...) 14.006	Gel 30 min (kPa) (lb...) 16.007	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 9.5
MBT (lb/bbl)	Percent Oil (%) 67.5	Percent Water (%) 23.0	Chlorides (kg/m³) (...) 39,000.000	Calcium (kg/m³) (m...) 14,800.000	Potassium (mg/L)	Electric Stab (V) 420.0

Mud Volumes

Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Hole	ANNULUS	294.3	
Hole	PIPE CAP	100.3	
Hole	TOTAL HOLE	394.6	
Tank	ACTIVE PITS	440.0	
Hole	TOTAL CIRC.	834.6	

AFE Number DD.17.30781.CAP.DRL	AFE+Supp Amt (Cost) 2,331,000.00
Day Total (Cost) 59,946	Cum To Date (Cost) 1,045,892
Mud Field Est (Cost) 5,785	Cum Mud Field Est (Co... 26,713
Start Depth (ftKB) 5,130.0	End Depth (ftKB) 6,434.0
Planned Formation WOLFCAMP B	Planned TMD (ftKB) 19,337.0

Last Casing String
Surface Casing, 1,461.0ftKB

Daily Contacts

Job Contact	Mobile
BRIAN ALLEMAN, Engineer	214-978-8000
CHRISTOPHER ABSHIRE, Foreman	281-220-5828
MARTY ARREZOLA, Consultant	281-220-5828
DEAN DUFFY, Rig Clerk/Logistics	281-220-5829

Personnel Log

Head Count	19.0
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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) 0.0	Slow Spd No	Strokes (s...) 0
P (psi) 2,395.0	Slow Spd No	Strokes (s...) 105

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) 0.0	Slow Spd No	Strokes (s...) 0
P (psi) 2,395.0	Slow Spd No	Strokes (s...) 105

Mud Additive Amounts

Mud Additive Description	Field Est (Cost/unit)	Consumed
12 HR MUD ENGINEER	700.00	1.0
AQUAGEL	6.00	71.0
BARACARB 150	13.30	9.0
BARACARB 50	13.30	9.0
CALCIUM CHL 95 -98%	17.10	30.0
INVERMUL	558.60	5.0
LIME	6.00	32.0
MICA FINE	15.00	9.0
RIG WASH	786.59	1.0

Job Supplies

Supply Item Description DIESEL FOR OBM	Unit Label Gal
Total Received 9,888.0	Total Consumed 8,571.0
On Loc 1,317.0	



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Mud Volumes

Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Tank	RESERVE	1,143.0	
Addition	BASE	43.8	
Addition	DRILL WATER	15.0	
Addition	WHOLE MUD	0.0	
Addition	CHEMICALS	15.2	
Loss	SCE	75.0	
Loss	DOWNHOLE	37.4	
Loss	DISPLACEMENT	30.0	
Loss	FILTRATION	7.0	
Loss	TRIPS	10.0	

Drill Strings

BHA #5, Curve

Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in ²)
1	8 3/4in, MMD55DM, 12929253	-----	1.86
Nozzles (1/32")		BHA Length (ft)	String Wt (1000lbf)
22/22/22/22/22		12,106.14	90.1

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
Agitator	1	6 9/16	2.50	23.77	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	33.65	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	5,130.0	5,341.0	211.00	2.16	2.16	97.7	556
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
28	70	2,830.0	140	142	140	7.0	
Q Gas Inj (ft ³ /min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (psi)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (ft ³ /min)

Hydraulic Calculations

Bit Hydraulic Power (hp)	HP/Area (hp/in ²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	% P @ bit (%)
25.0	0.4	96.1	77.0	3
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)
389.5	51.6	99.6	48.5	9.36

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 #104HB	5,341.0	5,359.0	229.00	0.35	2.51	51.4	556
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
14	0	2,574.0	140	142	140	0.0	0.0
Q Gas Inj (ft ³ /min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (psi)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (ft ³ /min)

Hydraulic Calculations

Bit Hydraulic Power (hp)	HP/Area (hp/in ²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	% P @ bit (%)
25.0	0.4	96.1	77.0	3
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)
389.5	51.6	99.6	48.5	9.35

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 #104HB	5,359.0	5,434.0	304.00	0.57	3.08	131.6	556
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
28	70	2,817.0	140	142	140	8.0	
Q Gas Inj (ft ³ /min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (psi)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (ft ³ /min)

Hydraulic Calculations

Bit Hydraulic Power (hp)	HP/Area (hp/in ²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	% P @ bit (%)
25.0	0.4	96.1	77.0	3
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)
389.5	51.6	99.6	48.5	9.35

Error

Job Supplies

Supply Item Description	Unit Label
DRILLING CUTTINGS	Cu. Yds
Total Received	Total Consumed On Loc
120.0	120.0 0.0
Supply Item Description	Unit Label
DRILLING WATER	Bbl
Total Received	Total Consumed On Loc
120.0	120.0 0.0
Supply Item Description	Unit Label
FUEL	Gal
Total Received	Total Consumed On Loc
34,399.0	15,852.0 6,749.0
Supply Item Description	Unit Label
POTABLE WATER	Gal
Total Received	Total Consumed On Loc
26,800.0	26,800.0 0.0
Supply Item Description	Unit Label
SEWAGE	Gal
Total Received	Total Consumed On Loc
18,500.0	18,500.0 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
0.0	0.0 0.0

Safety Checks

Time	Type	Safety Topic
17:30	Pre-Tour	FLOOR DANGER ZONES
05:30	Pre-Tour	FLOOR DANGER ZONES

Wellbores

Wellbore Name
UNIVERSITY 3-35 #104HB

Kick Offs & Key Depths

Type	Top Depth (ftKB)



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Report Date: 7/27/2017
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Depth Progress: 1,304.00

Well Name: UNIVERSITY 3-35 #104HB

Drilling Parameters

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 5,434.0	End Depth (ftKB) 5,456.0	Cum Depth (ft) 326.00	Drilling Time (hr) 0.50	Cum Drill Time (hr) 3.58	Interval ROP (ft/hr) 44.0	Flow Rate (gpm) 556
WOB (1000lbf) 11	Rotary RPM (rpm) 0	SPP (psi) 2,513.0	Drill Str Wt (1000... 140	PU Str Wt (1000lbf) 142	SO Str Wt (1000lbf) 140	Drilling Torque 0.0	Off Btm Tq 0.0
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) 25.0	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.1	Bit Pressure Drop (psi) 77.0	% P @ bit (%) 3
Max Casing AV (ft/min) 389.5	Max Open Hole AV (ft/min) 51.6	Min Casing AV (ft/min) 99.6	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.35

Error

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 5,456.0	End Depth (ftKB) 5,527.0	Cum Depth (ft) 397.00	Drilling Time (hr) 0.57	Cum Drill Time (hr) 4.15	Interval ROP (ft/hr) 124.6	Flow Rate (gpm) 556
WOB (1000lbf) 28	Rotary RPM (rpm) 65	SPP (psi) 2,821.0	Drill Str Wt (1000... 140	PU Str Wt (1000lbf) 142	SO Str Wt (1000lbf) 140	Drilling Torque 8.0	Off Btm Tq 0.0
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) 25.0	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.1	Bit Pressure Drop (psi) 77.0	% P @ bit (%) 3
Max Casing AV (ft/min) 389.5	Max Open Hole AV (ft/min) 51.6	Min Casing AV (ft/min) 99.6	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.35

Error

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 5,527.0	End Depth (ftKB) 5,544.0	Cum Depth (ft) 414.00	Drilling Time (hr) 0.36	Cum Drill Time (hr) 4.51	Interval ROP (ft/hr) 47.2	Flow Rate (gpm) 557
WOB (1000lbf) 14	Rotary RPM (rpm) 0	SPP (psi) 2,509.0	Drill Str Wt (1000... 140	PU Str Wt (1000lbf) 142	SO Str Wt (1000lbf) 140	Drilling Torque 0.0	Off Btm Tq 0.0
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) 25.1	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.3	Bit Pressure Drop (psi) 77.2	% P @ bit (%) 3
Max Casing AV (ft/min) 390.2	Max Open Hole AV (ft/min) 51.7	Min Casing AV (ft/min) 99.8	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.35

Error

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 5,544.0	End Depth (ftKB) 5,808.0	Cum Depth (ft) 678.00	Drilling Time (hr) 0.16	Cum Drill Time (hr) 4.67	Interval ROP (ft/hr) 1,629.6	Flow Rate (gpm) 556
WOB (1000lbf) 28	Rotary RPM (rpm) 70	SPP (psi) 2,830.0	Drill Str Wt (1000... 140	PU Str Wt (1000lbf) 142	SO Str Wt (1000lbf) 140	Drilling Torque 8.0	Off Btm Tq 0.0
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) 25.0	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.1	Bit Pressure Drop (psi) 77.0	% P @ bit (%) 3
Max Casing AV (ft/min) 389.5	Max Open Hole AV (ft/min) 51.6	Min Casing AV (ft/min) 99.6	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.34

Error

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 5,808.0	End Depth (ftKB) 5,833.0	Cum Depth (ft) 703.00	Drilling Time (hr) 0.59	Cum Drill Time (hr) 5.26	Interval ROP (ft/hr) 42.4	Flow Rate (gpm) 557
WOB (1000lbf) 11	Rotary RPM (rpm) 0	SPP (psi) 2,500.0	Drill Str Wt (1000... 140	PU Str Wt (1000lbf) 142	SO Str Wt (1000lbf) 140	Drilling Torque 0.0	Off Btm Tq 0.0
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) 25.1	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.3	Bit Pressure Drop (psi) 77.2	% P @ bit (%) 3
Max Casing AV (ft/min) 390.2	Max Open Hole AV (ft/min) 51.7	Min Casing AV (ft/min) 99.8	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.34

Error



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Depth Progress: 1,304.00

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Drilling Parameters

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 5,833.0	End Depth (ftKB) 5,908.0	Cum Depth (ft) 778.00	Drilling Time (hr) 0.53	Cum Drill Time (hr) 5.79	Interval ROP (ft/hr) 141.5	Flow Rate (gpm) 556
WOB (1000lbf) 28	Rotary RPM (rpm) 70	SPP (psi) 2,831.0	Drill Str Wt (1000... 140	PU Str Wt (1000lbf) 142	SO Str Wt (1000lbf) 140	Drilling Torque 9.0	Off Btm Tq 0.0
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) 25.0	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.1	Bit Pressure Drop (psi) 77.0	% P @ bit (%) 3
Max Casing AV (ft/min) 389.5	Max Open Hole AV (ft/min) 51.6	Min Casing AV (ft/min) 99.6	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.34

Error

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 5,908.0	End Depth (ftKB) 5,924.0	Cum Depth (ft) 794.00	Drilling Time (hr) 0.39	Cum Drill Time (hr) 6.18	Interval ROP (ft/hr) 41.0	Flow Rate (gpm) 557
WOB (1000lbf) 10	Rotary RPM (rpm) 0	SPP (psi) 2,491.0	Drill Str Wt (1000... 140	PU Str Wt (1000lbf) 142	SO Str Wt (1000lbf) 140	Drilling Torque 0.0	Off Btm Tq 0.0
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) 25.1	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.3	Bit Pressure Drop (psi) 77.2	% P @ bit (%) 3
Max Casing AV (ft/min) 390.2	Max Open Hole AV (ft/min) 51.7	Min Casing AV (ft/min) 99.8	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.34

Error

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 5,924.0	End Depth (ftKB) 5,995.0	Cum Depth (ft) 865.00	Drilling Time (hr) 0.51	Cum Drill Time (hr) 6.69	Interval ROP (ft/hr) 139.2	Flow Rate (gpm) 556
WOB (1000lbf) 17	Rotary RPM (rpm) 56	SPP (psi) 2,688.0	Drill Str Wt (1000... 140	PU Str Wt (1000lbf) 142	SO Str Wt (1000lbf) 140	Drilling Torque 6.0	Off Btm Tq 0.0
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) 25.0	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.1	Bit Pressure Drop (psi) 77.0	% P @ bit (%) 3
Max Casing AV (ft/min) 389.5	Max Open Hole AV (ft/min) 51.6	Min Casing AV (ft/min) 99.6	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.34

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Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 5,995.0	End Depth (ftKB) 6,021.0	Cum Depth (ft) 891.00	Drilling Time (hr) 0.56	Cum Drill Time (hr) 7.25	Interval ROP (ft/hr) 46.4	Flow Rate (gpm) 557
WOB (1000lbf) 7	Rotary RPM (rpm) 0	SPP (psi) 2,470.0	Drill Str Wt (1000... 140	PU Str Wt (1000lbf) 142	SO Str Wt (1000lbf) 140	Drilling Torque 0.0	Off Btm Tq 0.0
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) 25.1	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.3	Bit Pressure Drop (psi) 77.2	% P @ bit (%) 3
Max Casing AV (ft/min) 390.2	Max Open Hole AV (ft/min) 51.7	Min Casing AV (ft/min) 99.8	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.34

Error

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 6,021.0	End Depth (ftKB) 6,089.0	Cum Depth (ft) 959.00	Drilling Time (hr) 0.49	Cum Drill Time (hr) 7.74	Interval ROP (ft/hr) 138.8	Flow Rate (gpm) 556
WOB (1000lbf) 27	Rotary RPM (rpm) 70	SPP (psi) 2,855.0	Drill Str Wt (1000... 140	PU Str Wt (1000lbf) 142	SO Str Wt (1000lbf) 140	Drilling Torque 8.0	Off Btm Tq 0.0
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) 25.0	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.1	Bit Pressure Drop (psi) 77.0	% P @ bit (%) 3
Max Casing AV (ft/min) 389.5	Max Open Hole AV (ft/min) 51.6	Min Casing AV (ft/min) 99.6	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.34

Error



Partner Drilling Report

Report Date: 7/27/2017
Report #: 18.0, DFS: 7.29
Time Log DFS: 7.29
Depth Progress: 1,304.00

Well Name: UNIVERSITY 3-35 #104HB

Drilling Parameters

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 6,089.0	End Depth (ftKB) 6,102.0	Cum Depth (ft) 972.00	Drilling Time (hr) 0.42	Cum Drill Time (hr) 8.16	Interval ROP (ft/hr) 31.0	Flow Rate (gpm) 557
WOB (1000lbf) 10	Rotary RPM (rpm) 0	SPP (psi) 2,472.0	Drill Str Wt (1000... 140	PU Str Wt (1000lbf) 142	SO Str Wt (1000lbf) 140	Drilling Torque 0.0	Off Btm Tq 0.0
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) 25.1	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.3	Bit Pressure Drop (psi) 77.2	% P @ bit (%) 3
Max Casing AV (ft/min) 390.2	Max Open Hole AV (ft/min) 51.7	Min Casing AV (ft/min) 99.8	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.34

Error

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 6,102.0	End Depth (ftKB) 6,185.0	Cum Depth (ft) 1,055.00	Drilling Time (hr) 0.61	Cum Drill Time (hr) 8.77	Interval ROP (ft/hr) 136.1	Flow Rate (gpm) 556
WOB (1000lbf) 15	Rotary RPM (rpm) 70	SPP (psi) 2,661.0	Drill Str Wt (1000... 140	PU Str Wt (1000lbf) 142	SO Str Wt (1000lbf) 140	Drilling Torque 7.0	Off Btm Tq 0.0
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) 25.0	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.1	Bit Pressure Drop (psi) 77.0	% P @ bit (%) 3
Max Casing AV (ft/min) 389.5	Max Open Hole AV (ft/min) 51.6	Min Casing AV (ft/min) 99.6	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.33

Error

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 6,185.0	End Depth (ftKB) 6,205.0	Cum Depth (ft) 1,075.00	Drilling Time (hr) 0.57	Cum Drill Time (hr) 9.34	Interval ROP (ft/hr) 35.1	Flow Rate (gpm) 557
WOB (1000lbf) 7	Rotary RPM (rpm) 0	SPP (psi) 2,469.0	Drill Str Wt (1000... 140	PU Str Wt (1000lbf) 142	SO Str Wt (1000lbf) 140	Drilling Torque 0.0	Off Btm Tq 0.0
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) 25.1	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.3	Bit Pressure Drop (psi) 77.2	% P @ bit (%) 3
Max Casing AV (ft/min) 390.2	Max Open Hole AV (ft/min) 51.7	Min Casing AV (ft/min) 99.8	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.33

Error

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 6,205.0	End Depth (ftKB) 6,285.0	Cum Depth (ft) 1,155.00	Drilling Time (hr) 0.55	Cum Drill Time (hr) 9.89	Interval ROP (ft/hr) 145.5	Flow Rate (gpm) 556
WOB (1000lbf) 27	Rotary RPM (rpm) 70	SPP (psi) 2,876.0	Drill Str Wt (1000... 150	PU Str Wt (1000lbf) 158	SO Str Wt (1000lbf) 152	Drilling Torque 9.0	Off Btm Tq 0.0
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) 25.0	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.1	Bit Pressure Drop (psi) 77.0	% P @ bit (%) 3
Max Casing AV (ft/min) 389.5	Max Open Hole AV (ft/min) 51.6	Min Casing AV (ft/min) 99.6	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.33

Error

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 6,285.0	End Depth (ftKB) 6,309.0	Cum Depth (ft) 1,179.00	Drilling Time (hr) 0.75	Cum Drill Time (hr) 10.64	Interval ROP (ft/hr) 32.0	Flow Rate (gpm) 557
WOB (1000lbf) 12	Rotary RPM (rpm) 0	SPP (psi) 2,514.0	Drill Str Wt (1000... 150	PU Str Wt (1000lbf) 158	SO Str Wt (1000lbf) 152	Drilling Torque 0.0	Off Btm Tq 0.0
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) 25.1	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.3	Bit Pressure Drop (psi) 77.2	% P @ bit (%) 3
Max Casing AV (ft/min) 390.2	Max Open Hole AV (ft/min) 51.7	Min Casing AV (ft/min) 99.8	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.33

Error



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #104HB

Report Date: 7/27/2017
Report #: 18.0, DFS: 7.29
Time Log DFS: 7.29
Depth Progress: 1,304.00

Drilling Parameters

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 6,309.0	End Depth (ftKB) 6,434.0	Cum Depth (ft) 1,304.00	Drilling Time (hr) 1.10	Cum Drill Time (hr) 11.74	Interval ROP (ft/hr) 113.6	Flow Rate (gpm) 556
WOB (1000lbf) 13	Rotary RPM (rpm) 69	SPP (psi) 2,530.0	Drill Str Wt (1000... 150	PU Str Wt (1000lbf) 158	SO Str Wt (1000lbf) 152	Drilling Torque 7.0	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) 24.3	HP/Area (hp/in²) 0.4	Bit Jet Velocity (ft/s) 96.1	Bit Pressure Drop (psi) 74.9	% P @ bit (%) 3
Max Casing AV (ft/min) 389.5	Max Open Hole AV (ft/min) 51.6	Min Casing AV (ft/min) 99.6	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.08
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
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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)
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 7/20/2017	OD (in) 13 3/8	Set Depth (ft... 1,461.0	Set Depth (T... 1,460.8	Comment TEST ON CHART: GOOD TEST	MACP Press... 500.0
Test Date 7/21/2017	Test Type Casing Test	Fluid Density (lb/gal) 8.30	EMW (lb/gal) 14.80		
Run Date 7/25/2017	OD (in) 9 5/8	Set Depth (ft... 5,058.0	Set Depth (T... 4,973.7	Comment TEST ON CHART: GOOD TEST	MACP Press... 1,500.0
Test Date 7/25/2017	Test Type Casing Test	Fluid Density (lb/gal) 9.90	EMW (lb/gal) 15.71		
Run Date 7/26/2017	OD (in) 9 5/8	Set Depth (ft... 5,058.0	Set Depth (T... 4,973.7	Comment TEST ON CHART: GOOD TEST	MACP Press... 96.0
Test Date 7/26/2017	Test Type F.I.T.	Fluid Density (lb/gal) 9.90	EMW (lb/gal) 10.27		

Survey Data

MD (ftKB) 5,175.00	Inclination (°) 13.32	Azimuth (°) 96.53	TVD (ftKB) 5,087.33	VS (ft) -6.54	NS (ft) -82.38	EW (ft) 778.84	DLS (°/100ft) 0.90
MD (ftKB) 5,364.00	Inclination (°) 11.25	Azimuth (°) 94.95	TVD (ftKB) 5,272.48	VS (ft) -6.75	NS (ft) -86.26	EW (ft) 816.51	DLS (°/100ft) 0.48
MD (ftKB) 5,459.00	Inclination (°) 12.74	Azimuth (°) 94.30	TVD (ftKB) 5,365.40	VS (ft) -6.42	NS (ft) -87.85	EW (ft) 836.19	DLS (°/100ft) 1.57
MD (ftKB) 5,553.00	Inclination (°) 13.83	Azimuth (°) 93.81	TVD (ftKB) 5,456.88	VS (ft) -5.85	NS (ft) -89.37	EW (ft) 857.73	DLS (°/100ft) 1.17
MD (ftKB) 5,836.00	Inclination (°) 12.71	Azimuth (°) 91.97	TVD (ftKB) 5,732.95	VS (ft) -1.21	NS (ft) -90.76	EW (ft) 919.89	DLS (°/100ft) 1.39
MD (ftKB) 5,930.00	Inclination (°) 12.81	Azimuth (°) 93.13	TVD (ftKB) 5,824.62	VS (ft) -0.12	NS (ft) -91.69	EW (ft) 940.63	DLS (°/100ft) 0.29
MD (ftKB) 6,025.00	Inclination (°) 13.59	Azimuth (°) 93.63	TVD (ftKB) 5,917.11	VS (ft) 0.70	NS (ft) -92.97	EW (ft) 962.28	DLS (°/100ft) 0.83
MD (ftKB) 6,119.00	Inclination (°) 13.07	Azimuth (°) 89.70	TVD (ftKB) 6,008.58	VS (ft) 2.16	NS (ft) -93.61	EW (ft) 983.93	DLS (°/100ft) 1.11
MD (ftKB) 6,214.00	Inclination (°) 13.16	Azimuth (°) 85.55	TVD (ftKB) 6,101.11	VS (ft) 5.14	NS (ft) -92.72	EW (ft) 1,005.46	DLS (°/100ft) 1.00
MD (ftKB) 6,308.00	Inclination (°) 12.11	Azimuth (°) 91.72	TVD (ftKB) 6,192.83	VS (ft) 7.66	NS (ft) -92.18	EW (ft) 1,025.98	DLS (°/100ft) 1.82
MD (ftKB) 6,403.00	Inclination (°) 9.84	Azimuth (°) 95.36	TVD (ftKB) 6,286.09	VS (ft) 8.35	NS (ft) -93.24	EW (ft) 1,044.03	DLS (°/100ft) 2.50



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #104HB

Report Date: 7/27/2017
Report #: 18.0, DFS: 7.29
Time Log DFS: 7.29
Depth Progress: 1,304.00

Survey Data

MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
6,497.00	9.76	97.57	6,378.72	8.10	-95.04	1,059.92	0.41
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
6,592.00	7.79	96.49	6,472.60	7.72	-96.83	1,074.30	2.08



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #104HB

Report Date: 7/28/2017
Report #: 19.0, DFS: 8.29
Time Log DFS: 8.29
Depth Progress: 1,676.00

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) 78.0	Road Condition GOOD
Current Status/OART ROTATE / SLIDE DRLG TO BUILD THE PRODUCTION CURVE		24 Hour Forecast DRILL AHEAD AS PER DRILLING PROG AND DIRECTIONAL PLAN IN PRODUCTION SECTION.	

Short Report
ROTATE / SLIDE DRLG TO BUILD THE PRODUCTION CURVE, RIG SERVICE, ROTATE / SLIDE DRLG TO BUILD THE PRODUCTION CURVE.

Mud Volumes

Active Volume (bbl) 3,445.2	Var Active Vol (bbl) 238.4	Balance (bbl) 310.5	Tank Volume (bbl) 1,371.0	Additions (bbl) 239.4	Losses (bbl) 311.5	Hole Volume (bbl) 2,074.2
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Time Log

Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
06:00	22:00	16.00	22PHCD, Prod Hole Curve Drill	DR	b	O	ROTATE / SLIDE DRLG F/6434' TO 7962' 1528' @ 96 FPH AVG ROP. NOTE: PUMPING LCM SWEEPS 10 BBLS EVERY STAND. SWEEPS CONSISTING OF: 1 CAN DRILL TREAT, 5PPB BARACARB 150, 5 PPB BARACARB 50, 5PPB MICA FINE 10 PPB STOPIT. NOTE: PUMPED 25 BBL LCM SWEEPS F/ 6434' TO 6800' AT EVERY CONNECTION.
22:00	22:30	0.50	22PHCD, Prod Hole Curve Drill	RM	b	O	RIG SERVICE - C/O SWAB ON MP #1 POD #3.
22:30	06:00	7.50	22PHCD, Prod Hole Curve Drill	DR	b	O	ROTATE / SLIDE DRLG F/7962' TO 8110' NOTE: KOP @ 7945'. 148' @ 20 FPH AVG ROP. NOTE: PUMPING LCM SWEEPS 10 BBLS EVERY STAND. SWEEPS CONSISTING OF: 1 CAN DRILL TREAT, 5PPB BARACARB 150, 5 PPB BARACARB 50, 5PPB MICA FINE 10 PPB STOPIT.

Mud Checks

Time 15:00	Type INVERMUL	Depth (ftKB) 6,497.0	Density (kg/m³) (lb/g... 9.05	Funnel Viscosity (s/qt) 54	PV Calc (cP) 11.0	YP Calc (lb/100ft²) 10.004
Gel 10 sec (kPa) (lb... 9.004	Gell 10 min (kPa) (l... 13.005	Gel 30 min (kPa) (lb... 15.006	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 10.0
MBT (lb/bbl)	Percent Oil (%) 68.0	Percent Water (%) 22.0	Chlorides (kg/m³) (... 35,000.000	Calcium (kg/m³) (m... 14,800.000	Potassium (mg/L) 542.0	Electric Stab (V) 542.0
Time 05:00	Type INVERMUL	Depth (ftKB) 7,962.0	Density (kg/m³) (lb/g... 8.85	Funnel Viscosity (s/qt) 58	PV Calc (cP) 11.0	YP Calc (lb/100ft²) 10.004
Gel 10 sec (kPa) (lb... 9.004	Gell 10 min (kPa) (l... 14.006	Gel 30 min (kPa) (lb... 15.006	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 9.3
MBT (lb/bbl)	Percent Oil (%) 68.3	Percent Water (%) 22.5	Chlorides (kg/m³) (... 39,000.000	Calcium (kg/m³) (m... 16,000.000	Potassium (mg/L) 520.0	Electric Stab (V) 520.0

Mud Volumes

Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Hole	ANNULUS	397.8	
Hole	PIPE CAP	136.6	
Hole	TOTAL HOLE	534.4	
Tank	ACTIVE PITS	471.0	
Hole	TOTAL CIRC.	1,005.4	
Tank	RESERVE	900.0	
Addition	BASE	160.3	
Addition	DRILL WATER	65.0	
Addition	WHOLE MUD	0.0	
Addition	CHEMICALS	14.1	
Loss	SCE	95.0	

AFE Number DD.17.30781.CAP.DRL	AFE+Supp Amt (Cost) 2,331,000.00
Day Total (Cost) 74,053	Cum To Date (Cost) 1,119,945
Mud Field Est (Cost) 9,577	Cum Mud Field Est (Co... 36,289
Start Depth (ftKB) 6,434.0	End Depth (ftKB) 8,110.0
Planned Formation WOLFCAMP B	Planned TMD (ftKB) 19,337.0

Last Casing String
Surface Casing, 1,461.0ftKB

Daily Contacts

Job Contact	Mobile
BRIAN ALLEMAN, Engineer	214-978-8000
CHRISTOPHER ABSHIRE, Foreman	281-220-5828
MARTY ARREZOLA, Consultant	281-220-5828
DEAN DUFFY, Rig Clerk/Logistics	281-220-5829

Personnel Log

Head Count	19.0
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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) 2,395.0	Slow Spd No	Strokes (s... 105
P (psi) 2,395.0	Slow Spd No	Strokes (s... 104

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) 2,395.0	Slow Spd No	Strokes (s... 105
P (psi) 2,395.0	Slow Spd No	Strokes (s... 104

Mud Additive Amounts

Mud Additive Description	Field Est (Cost/unit)	Consumed
12 HR MUD ENGINEER	700.00	1.0
BARABLOK 400	85.00	13.0
BARACARB 150	13.30	30.0
BARACARB 50	13.30	29.0
BARO-TROL PLUS	77.97	10.0
DRILTREAT	97.02	6.0
EZ-MUL	725.00	1.0
GELTONE V	65.00	15.0
MICA FINE	15.00	4.0
RM-63	1,618.23	1.0
STOPPIT	40.00	26.0
SUSPENTONE	134.10	9.0



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #104HB

Report Date: 7/28/2017
Report #: 19.0, DFS: 8.29
Time Log DFS: 8.29
Depth Progress: 1,676.00

Mud Volumes

Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Loss	DOWNHOLE	197.5	
Loss	EVAPORATION	4.0	
Loss	FILTRATION	15.0	

Drill Strings

BHA #5, Curve

Bit Run 1	Drill Bit 8 3/4in, MMD55DM, 12929253	IADC Bit Dull -----	TFA (incl Noz) (in ²) 1.86
Nozzles (1/32") 22/22/22/22/22	BHA Length (ft) 12,106.14	String Wt (1000lbf) 90.1	Bit ROP (ft/hr) 90.1

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
Agitator	1	6 9/16	2.50	23.77	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	33.65	IF

Drilling Parameters

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 6,434.0	End Depth (ftKB) 6,470.0	Cum Depth (ft) 1,340.00	Drilling Time (hr) 0.51	Cum Drill Time (hr) 12.25	Interval ROP (ft/hr) 70.6	Flow Rate (gpm) 557
WOB (1000lbf) 17	Rotary RPM (rpm) 70	SPP (psi) 2,646.0	Drill Str Wt (1000... 160	PU Str Wt (1000lbf) 164	SO Str Wt (1000lbf) 162	Drilling Torque 6.0	Off Btm Tq Q Gas Return (f...
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) 24.4	HP/Area (hp/in ²) 0.4	Bit Jet Velocity (ft/s) 96.3	Bit Pressure Drop (psi) 75.2	% P @ bit (%) 3
Max Casing AV (ft/min) 390.2	Max Open Hole AV (ft/min) 51.7	Min Casing AV (ft/min) 99.8	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.08
Error				

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 6,470.0	End Depth (ftKB) 6,484.0	Cum Depth (ft) 1,354.00	Drilling Time (hr) 0.58	Cum Drill Time (hr) 12.83	Interval ROP (ft/hr) 24.1	Flow Rate (gpm) 557
WOB (1000lbf) 10	Rotary RPM (rpm) 0	SPP (psi) 2,477.0	Drill Str Wt (1000... 160	PU Str Wt (1000lbf) 164	SO Str Wt (1000lbf) 162	Drilling Torque 0.0	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) 24.4	HP/Area (hp/in ²) 0.4	Bit Jet Velocity (ft/s) 96.3	Bit Pressure Drop (psi) 75.2	% P @ bit (%) 3
Max Casing AV (ft/min) 390.2	Max Open Hole AV (ft/min) 51.7	Min Casing AV (ft/min) 99.8	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.08
Error				

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 6,484.0	End Depth (ftKB) 6,657.0	Cum Depth (ft) 1,527.00	Drilling Time (hr) 1.44	Cum Drill Time (hr) 14.27	Interval ROP (ft/hr) 120.1	Flow Rate (gpm) 557
WOB (1000lbf) 25	Rotary RPM (rpm) 70	SPP (psi) 2,687.0	Drill Str Wt (1000... 160	PU Str Wt (1000lbf) 164	SO Str Wt (1000lbf) 162	Drilling Torque 8.0	Off Btm Tq Q Gas Return (f...
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) 24.4	HP/Area (hp/in ²) 0.4	Bit Jet Velocity (ft/s) 96.3	Bit Pressure Drop (psi) 75.2	% P @ bit (%) 3
Max Casing AV (ft/min) 390.2	Max Open Hole AV (ft/min) 51.7	Min Casing AV (ft/min) 99.8	Min Open Hole AV (ft/min) 48.5	ECD End (lb/gal) 9.07
Error				

Wellbore UNIVERSITY 3-35 #104HB	Start Depth (ftKB) 6,657.0	End Depth (ftKB) 6,679.0	Cum Depth (ft) 1,549.00	Drilling Time (hr) 0.85	Cum Drill Time (hr) 15.12	Interval ROP (ft/hr) 25.9	Flow Rate (gpm) 557
WOB (1000lbf) 11	Rotary RPM (rpm) 0	SPP (psi) 2,518.0	Drill Str Wt (1000... 160	PU Str Wt (1000lbf) 164	SO Str Wt (1000lbf) 162	Drilling Torque 0.0	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...

Job Supplies

Supply Item Description DIESEL FOR OBM	Unit Label Gal
Total Received 9,888.0	Total Consumed 8,571.0
On Loc 1,317.0	
Supply Item Description DRILLING CUTTINGS	Unit Label Cu. Yds
Total Received 120.0	Total Consumed 120.0
On Loc 0.0	
Supply Item Description DRILLING WATER	Unit Label Bbl
Total Received 120.0	Total Consumed 120.0
On Loc 0.0	
Supply Item Description FUEL	Unit Label Gal
Total Received 34,399.0	Total Consumed 15,852.0
On Loc 6,749.0	
Supply Item Description POTABLE WATER	Unit Label Gal
Total Received 26,800.0	Total Consumed 26,800.0
On Loc 0.0	
Supply Item Description SEWAGE	Unit Label Gal
Total Received 18,500.0	Total Consumed 18,500.0
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 Box
Total Received 0.0	Total Consumed 0.0
On Loc 0.0	

Safety Checks

Time	Type	Safety Topic
17:30	Pre-Tour	HYDRATION AND HEAT INJURIES
05:30	Pre-Tour	HYDRATION AND HEAT INJURIES

Wellbores

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



Partner Drilling Report

Report Date: 7/28/2017
Report #: 19.0, DFS: 8.29
Time Log DFS: 8.29
Depth Progress: 1,676.00

Well Name: UNIVERSITY 3-35 #104HB

Hydraulic Calculations

Bit Hydraulic Power (hp)	HP/Area (hp/in ²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	% P @ bit (%)
24.4	0.4	96.3	75.2	3
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)
390.2	51.7	99.8	48.5	9.07
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 #104HB	6,679.0	6,849.0	1,719.00	1.30	16.42	130.8	557
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
27	70	2,859.0	160	164	162	9.0	
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 (%)
24.4	0.4	96.3	75.2	3
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)
390.2	51.7	99.8	48.5	9.07
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 #104HB	6,849.0	6,865.0	1,735.00	0.74	17.16	21.6	557
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
12	0	2,516.0	160	164	162	0.0	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 (%)
24.4	0.4	96.3	75.2	3
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)
391.1	51.9	99.8	48.5	9.07
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 #104HB	6,865.0	7,945.0	2,815.00	9.15	26.31	118.0	556
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
30	70	2,921.0	170	174	171	9.0	
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 (%)
24.6	0.4	96.1	75.7	3
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)
257.3	51.8	99.6	48.5	9.15
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 #104HB	7,945.0	7,967.0	2,837.00	1.15	27.46	19.1	556
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
18	0	2,634.0	170	174	171	0.0	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 (%)
24.6	0.4	96.1	75.7	3
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)
257.3	51.8	99.6	48.5	9.15
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 #104HB	7,967.0	8,015.0	2,885.00	0.47	27.93	102.1	556
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
12	0	2,639.0	170	174	171	0.0	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...



Partner Drilling Report

Report Date: 7/28/2017
Report #: 19.0, DFS: 8.29
Time Log DFS: 8.29
Depth Progress: 1,676.00

Well Name: UNIVERSITY 3-35 #104HB

Hydraulic Calculations

Bit Hydraulic Power (hp)	HP/Area (hp/in ²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	% P @ bit (%)
24.6	0.4	96.1	75.7	3
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)
257.3	51.8	99.6	48.5	9.15

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 #104HB	8,015.0	8,061.0	2,931.00	2.06	29.99	22.3	556
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	0	2,668.0	170	174	171	0.0	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 (%)
24.6	0.4	96.1	75.7	3
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)
257.3	51.8	99.6	48.5	9.15

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 #104HB	8,061.0	8,110.0	2,980.00	3.10	33.09	15.8	556
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
9	0	2,670.0	181	189	184	0.0	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 (%)
24.0	0.4	96.1	74.0	3
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)
257.3	51.8	99.6	48.5	8.95

Error

Kicks

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

Lost Circulation

Start Date	Top Depth (ftKB)	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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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		
Run Date	OD (in)	Set Depth (ft...)	Set Depth (T...)	Comment	MACP Press...
	9 5/8	5,058.0	4,973.7	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...
	9 5/8	5,058.0	4,973.7	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)
5,647.00	13.18	92.20	5,548.28	-4.88	-90.53	879.65	0.80



Partner Drilling Report

Report Date: 7/28/2017
Report #: 19.0, DFS: 8.29
Time Log DFS: 8.29
Depth Progress: 1,676.00

Well Name: UNIVERSITY 3-35 #104HB

Survey Data

MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
5,742.00	11.65	88.38	5,641.06	-3.04	-90.67	900.06	1.83
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
6,686.00	8.47	98.11	6,565.66	7.30	-98.52	1,087.49	0.76
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
6,781.00	7.15	98.09	6,659.77	6.73	-100.34	1,100.27	1.39
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
6,876.00	7.76	93.32	6,753.97	6.72	-101.55	1,112.52	0.91
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
6,970.00	7.10	81.41	6,847.19	8.39	-101.05	1,124.60	1.78
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
7,065.00	5.49	72.69	6,941.61	11.59	-98.82	1,134.75	1.97
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
7,159.00	4.26	68.40	7,035.27	14.93	-96.19	1,142.29	1.36
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
7,254.00	3.41	67.15	7,130.06	17.89	-93.80	1,148.17	0.90
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
7,348.00	3.11	64.88	7,223.91	20.52	-91.63	1,153.06	0.35
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
7,442.00	2.79	57.87	7,317.78	23.22	-89.33	1,157.30	0.51
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
7,537.00	2.17	48.39	7,412.69	25.95	-86.91	1,160.60	0.78
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
7,631.00	1.65	43.63	7,506.64	28.32	-84.75	1,162.87	0.58
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
7,726.00	1.38	35.49	7,601.61	30.39	-82.82	1,164.48	0.36
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
7,820.00	1.14	12.59	7,695.59	32.30	-80.99	1,165.34	0.59
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
7,914.00	0.78	15.69	7,789.57	33.86	-79.46	1,165.71	0.39
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
7,960.00	2.22	8.34	7,835.56	35.05	-78.28	1,165.93	3.15
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
8,009.00	5.67	4.94	7,884.43	38.42	-74.93	1,166.27	7.05
MD (ftKB)	Inclination (°)	Azimuth (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
8,110.00	5.67	4.94	7,984.94	48.40	-64.98	1,167.13	0.00