



Partner Drilling Report

Well Name: UNIVERSITY 3-35 #102HB

Report Date: 6/28/2017
Report #: 27.0, DFS: 24.92
Time Log DFS: 24.92
Depth Progress: 0.00

API/UWI No. 42461405920000	Surface Legal Location A-U47; SEC. 11; BLK. 4 CCSD&RGNG RR CO	Well License/Permit No. 826301	State/Province TEXAS
Original Spud/Spud Rig Date 6/3/2017 18:30	Rig Release Date 6/28/2017 16:30	KB to GL (ft) 25.00	KB-Casing Flange Distance (ft)
Original Spud/Spud Rig Date 6/3/2017	Weather P.CLOUDY	Temperature (°F) 67.0	Road Condition GOOD
Current Status/OART RELEASE RIG @ 1630 HRS ON 6-28-17	24 Hour Forecast RELEASED RIG TO UNIVERSITY 3-35 #101HB	Hole Condition GOOD	

Short Report
BREAK BOLTS ON BOP, SET SLIPS, CUT CASING, R/D MOUSE HOLESET DOWN BOP, C/O SAVOR SUB, BREAK OFF LOWER ADAPTER AND RAISE STACK, MAKE FINAL CASING CUT AND BEVEL CASING, INSTALL PACKOFF AND TEST TO 5,000 PSI, HOLD 15 MINUTES. TEST GOOD. INSTALL C-22 BLIND CAP, RIG DOWN FLOW LINE, CHOKE LINE AND COUNTER WEIGHT. PULL MOUSE HOLE AND CELLAR COVERS, PICK UP BOP ON HANDLER. WORK ON CYLINDER ON BOP WRANGLER. RIG UP SKID RAILS AND HOES TO SKID PEDESTAL. PICK UP AND RIG UP HYDRAULIC CYLINDERS. RIG UP HYDRAULIC HOSES. HOLD PJSM ON SKIDDING RIG. SKID RIG TO THE UNIVERSITY 3-35 #101HB. CENTER RIG OVER WELL BORE. RELEASE RIG TO UNIVERSITY 3-35 #101HB

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
0.0	-4,288.6	-4,288.6	0.0	0.0	0.0	0.0

Time Log

Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
06:00	11:30	5.50	24PHC, Prod Hole Csg	BO	f	O	BREAK BOLTS ON BOP, SET SLIPS, CUT CASING, R/D MOUSE HOLESET DOWN BOP
11:30	12:30	1.00	24PHC, Prod Hole Csg	BO	f	O	C/O SAVOR SUB BREAK OFF LOWER ADAPTER AND RAISE STACK. MAKE FINAL CASING CUT AND BEVEL CASING.
12:30	13:30	1.00	24PHC, Prod Hole Csg	WH	d	O	INSTALL PACKOFF AND TEST TO 5,000 PSI, HOLD 15 MINUTES. TEST GOOD. INSTALL C-22 BLIND CAP.
13:30	16:30	3.00	24PHC, Prod Hole Csg	LM	b	O	RIG DOWN FLOW LINE, CHOKE LINE AND COUNTER WEIGHT. PULL MOUSE HOLE AND CELLAR COVERS, PICK UP BOP ON HANDLER. WORK ON CYLINDER ON BOP WRANGLER. RIG UP SKID RAILS AND HOES TO SKID PEDESTAL. PICK UP AND RIG UP HYDRAULIC CYLINDERS. RIG UP HYDRAULIC HOSES. HOLD PJSM ON SKIDDING RIG. SKID RIG TO THE UNIVERSITY 3-35 #101HB. CENTER RIG OVER WELL BORE. RELEASE RIG TO UNIVERSITY 3-35 #101HB

Mud Checks

Time	Type	Depth (ftKB)	Density (kg/m³) (lb/g...)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
Gel 10 sec (kPa) (lb...	Gel 10 min (kPa) (l...	Gel 30 min (kPa) (lb...	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (kg/m³) (...)	Calcium (kg/m³) (m...	Potassium (mg/L)	Electric Stab (V)

AFE Number DD.17.30779.CAP.DRL	AFE+Supp Amt (Cost) 2,177,000.00
Day Total (Cost) 48,945	Cum To Date (Cost) 2,396,416
Mud Field Est (Cost)	Cum Mud Field Est (Co... 122,308
Start Depth (ftKB) 19,215.0	End Depth (ftKB) 19,215.0
Planned Formation WOLFCAMP B	Planned TMD (ftKB) 19,216.0

Last Casing String
Production Casing, 19,215.0ftKB

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	21.0
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Rigs

HELMERICH & PAYNE DRILLING, 3

Contractor HELMERICH & PAYNE DRILLING	Rig Number 394
Rig Supervisor THOMAS PENDERGRASS, Toolpusher	Phone Mobile 918-936-7394

1, Gardner-Denver, PZ-11

Pump Number 1	Pwr (hp) 1,300.0	Rod Diameter...
Liner Size (in) 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

Job Supplies

Supply Item Description DIESEL FOR OBM	Unit Label Gal
Total Received 40,295.4	Total Consumed 36,424.4
On Loc 0.0	

Supply Item Description DRILLING CUTTINGS	Unit Label Cu. Yds
Total Received 415.0	Total Consumed 415.0
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	

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 48,192.4	Total Consumed 40,471.4
On Loc 0.0	



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Mud Volumes

Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Addition	ANNULUS		
Addition	PIPE CAP		
Hole	Hole		
Tank	ACTIVE PITS		
Hole	TOTAL CIRC		
Tank	RESERVE		
Tank	INVERMUL		
Addition	FRESH WATER		
Loss	SURFACE		
Loss	OTHER		
Loss	PIT RESIDUAL		
Addition	BASE		
Addition	CHEMICALS		

Drill Strings

BHA #<stringno>, <des>

Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in ²)
Nozzles (1/32")		BHA Length (ft)	String Wt (1000lbf)
			Bit ROP (ft/hr)

Drill String Components

Item Des	Manual/Tally Jts	OD (in)	ID (in)	Len (ft)	Top Thread

Drilling Parameters

Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	Rotary RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft ³ /min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...

Hydraulic Calculations

Bit Hydraulic Power (hp)	HP/Area (hp/in ²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	% P @ bit (%)
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min)	ECD End (lb/gal)
Error				

Kicks

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

Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date
6/3/2017 20:30	192.0				

Interval Problems

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

Job Supplies

Supply Item Description	Unit Label
LIQUID DRILLING WASTE	Bbl
Total Received	Total Consumed
790.0	790.0
On Loc	0.0
Supply Item Description	Unit Label
POTABLE WATER	Gal
Total Received	Total Consumed
21,300.0	21,300.0
On Loc	0.0
Supply Item Description	Unit Label
SEWAGE	Gal
Total Received	Total Consumed
38,200.0	38,200.0
On Loc	0.0
Supply Item Description	Unit Label
THREAD PROTECTORS	Box
Total Received	Total Consumed
1.0	1.0
On Loc	0.0
Supply Item Description	Unit Label
TRASH/GENERAL WASTE	Ea
Total Received	Total Consumed
2.0	2.0
On Loc	0.0

Safety Checks

Time	Type	Safety Topic

Wellbores

Wellbore Name
UNIVERSITY 3-35 #102HB

Kick Offs & Key Depths

Type	Top Depth (ftKB)



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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 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)
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