



Daily Drilling Summary

Report Start Date: 4/17/2017
Report #: 18.0, DFS: 1,307.33
Depth Progress: 313.00

Well Name: UNIVERSITY 10 2703H

| | | | |
|---|---|---|--------------------------------|
| API/UWI 4238338225 | Surface Legal Location S 27, BLK 10, ULS | Lease Number 756394 | State/Province Texas |
| Spud Date 9/18/2013 22:00 | Rig Release Date | KB-Ground Distance (ft) 25.00 | KB-Casing Flange Distance (ft) |
| Weather Clear | Temperature (°F) 61.0 | Road Condition Good | Hole Condition Good |
| Operations at Report Time T.I.H W/New Bit & Motor | | Operations Next Report Period Finish T.I.H, Continue drlg vertical | |
| Operations Summary Drlg F/5000 to 5313, W/Surveys & rig service, TOO H F/Bit & Motor, C/O Bha, T.I.H (Survey @ 5261, inc 11.6, azm 255.8) | | | |
| Remarks Lost 151 bbl drlg fluid @ 4945', circ 10/12 lb per bbl LCM regain 90% returns & continue drlg. Losing approx 25/35 bbl per hr, maintain volume W/Water & LCM Sweeps | | | |

| Mud Checks | | | | | | |
|--------------------------------|---------------------------------|---------------------------|--------------------------------|---------------------------|---------------------|------------------------------|
| Time 06:00 | Type Water Base | Depth (ftKB) 5,313.0 | Density (lb/gal) 9.10 | Vis (s/qt) 40 | PV Calc (cP) 5.0 | YP Calc (lb/100ft²) 7.000 |
| Gel (10s) (lb/100ft²) 7.000 | Gel (10m) (lb/100ft²) 17.000 | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) 40.0 | Filter Cake (1/32") 2 | pH 9.5 | Solids (%) 6.0 |
| MBT (lb/bbl) 2.5 | Percent Oil (%) | Percent Water (%) 94.0 | Chlorides (mg/L) 22,000.000 | Calcium (mg/L) 120.000 | Potassium (mg/L) | Electric Stab (V) |

| Drill Strings | | | | | | |
|-------------------|-----------------------|--------------------|--|--------------------|----------------------|-----------------|
| BHA #2, Steerable | | | | | | |
| Bit Run | Drill Bit | IADC Bit Dull | | | TFA (incl Noz) (in²) | |
| 2 | 12 1/4in, 616M, 32288 | 1-2-BT-S-X-0-CT-PR | | | 2.09 | |
| Nozzles (1/32") | | | | String Length (ft) | String Wt (1000lbf) | BHA ROP (ft/hr) |
| 22/22/22/22/20/20 | | | | 5,313.00 | 127 | 58.2 |

| Drilling Parameters | | | | | | | |
|---------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|----------------------------|------------------------------|
| Wellbore OH | Start Depth (ftKB) 5,000.0 | End Depth (ftKB) 5,313.0 | Cum Depth (ft) 4,483.00 | Drilling Time (hr) 11.00 | Cum Drill Time (hr) 77.00 | Int ROP (ft/hr) 28.5 | Flow Rate (gpm) 638 |
| WOB (1000lbf) 32 | RPM (rpm) 70 | SPP (psi) 1,704.0 | Drill Str Wt (100... 170 | PU Str Wt (1000... 200 | SO Str Wt (1000... 125 | Drilling Torque 8,500.0 | Off Bottom Torque 2,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| BHA #3, Steerable | | | | | |
|-------------------|--------------------------------|--------------------|---------------------|-----------------|----------------------|
| Bit Run | Drill Bit | IADC Bit Dull | | | TFA (incl Noz) (in²) |
| 3 | 12 1/4in, RS 616 DHUX, 4009441 | ----- | | | 2.23 |
| Nozzles (1/32") | | String Length (ft) | String Wt (1000lbf) | BHA ROP (ft/hr) | |
| 18/18/18/18/18/18 | | 5,314.50 | 127 | | |

| Drilling Parameters | | | | | | | |
|---------------------|-------------------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|---------------------|----------------------|
| Wellbore OH | Start Depth (ftKB) 5,313.0 | End Depth (ftKB) 5,313.0 | Cum Depth (ft) | Drilling Time (hr) 0.00 | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lbf) 0 | RPM (rpm) | SPP (psi) | Drill Str Wt (100... 170 | PU Str Wt (1000... 190 | SO Str Wt (1000... 130 | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | |
|--|-----------------------------|
| Start Depth (ftKB) 5,000.0 | End Depth (ftKB) 5,313.0 |
| Target Depth (ftKB) 16,302.0 | Days LTI (days) 14.00 |
| Last Casing String SURFACE 1, 805.0ftKB | |

| Daily Contacts | |
|------------------------------|----------------|
| Daily Contacts | Mobile |
| Pete Rockholt, Consultant | (806) 445-5603 |

| Rigs | |
|--|------------------------------|
| Contractor Trinidad Drilling | Rig Number 101 |
| Rig Supervisor Corey Howell, Rig Manager | Phone Mobile 334 449 7075 |

| Mud Pumps | | |
|----------------------------------|-------------------------------|------------------------|
| # 2 , National Supply , 12-P-160 | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 |
| Liner Size (in) 6 | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... Eff (%) |

| # 1 , National Supply , 12-P-160 | | |
|----------------------------------|-------------------------------|------------------------|
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 |
| Liner Size (in) 6 | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... Eff (%) |

| Survey Data (last 5 records) | | | |
|------------------------------|----------|---------|------------|
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

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|---|---|---|-----------------------------|---|--------------------------------|--------------------------------|-------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Clear | | Temperature (°F) 60.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Drlg Vertical | | | | Operations Next Report Period T.D Vertical, circ sweeps, short trip, circ sweeps, R/U & run intermediate csg | | | |
| Operations Summary Wash & ream tight hole F/2678 to 4847, Drlg F/5313 to 5950 W/Surveys, rig service & pump repairs (Survey @ 5891, inc 12.9, azm 238.1) | | | | | | | |
| Remarks Tripped F/Bit & motor, reamed most of the way back to bottom 10% Shale 60% Sandstone 30% Silt | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | | Type Water Base | Depth (ftKB) 5,483.0 | Density (lb/gal) 9.00 | Vis (s/qt) 38 | PV Calc (cP) 4.0 | YP Calc (lb/100ft²) 12.000 |
| Gel (10s) (lb/100ft²) 7.000 | | Gel (10m) (lb/100ft²) 14.000 | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) 40.0 | Filter Cake (1/32") 2 | pH 8.5 | Solids (%) 6.0 |
| MBT (lb/bbl) 2.5 | | Percent Oil (%) | Percent Water (%) 94.0 | Chlorides (mg/L) 29,000.000 | Calcium (mg/L) 120.000 | Potassium (mg/L) | Electric Stab (V) |
| Drill Strings | | | | | | | |
| BHA #3, Steerable | | | | | | | |
| Bit Run 3 | Drill Bit 12 1/4in, RS 616 DHUX, 4009441 | | | IADC Bit Dull ----- | | TFA (incl Noz) (in²) 2.23 | |
| Nozzles (1/32") 18/18/18/18/18/18 | | | | | String Length (ft) 5,950.00 | String Wt (1000lbf) 139 | BHA ROP (ft/hr) 45.5 |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 5,313.0 | End Depth (ftKB) 5,950.0 | Cum Depth (ft) 637.00 | Drilling Time (hr) 14.00 | Cum Drill Time (hr) 14.00 | Int ROP (ft/hr) 45.5 | Flow Rate (gpm) 412 |
| WOB (1000lbf) 18 | RPM (rpm) 0 | SPP (psi) 900.0 | Drill Str Wt (100... 175 | PU Str Wt (1000... 205 | SO Str Wt (1000... 165 | Drilling Torque 8,500.0 | Off Bottom Torque 2,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|--|-------------------|-------------------------------|------------|
| Start Depth (ftKB) 5,313.0 | | End Depth (ftKB) 5,950.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 15.00 | |
| Last Casing String SURFACE 1, 805.0ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Corey Howell, Rig Manager | | Phone Mobile 334 449 7075 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

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|--|---|---|--------------------------------|---|------------------------------|--------------------------------|------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Clear | | Temperature (°F) 64.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Wiper Trip | | | | Operations Next Report Period Circ sweeps, TOO H F/Intermediate csg, R/U Run csg, cement nipple down set slips, install B-Section, nipple up | | | |
| Operations Summary Drlg F/5950 to 6657 W/Surveys & rig service, circ sweeps prior to 30 stand short trip, TOO H to 3933, T.I.H to circ F/Intermediate csg (Survey @ 6613, inc 10.6, azm 246) Contacted TRRC @ 4:27 pm, 4/19/17 talked to Ivy - Job #79975 | | | | | | | |
| Remarks T.D Vertical section 50% Shale 30% Sandstone 20% Silt | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | Type Water Base | Depth (ftKB) 6,414.0 | Density (lb/gal) 8.90 | Vis (s/qt) 44 | PV Calc (cP) 7.0 | YP Calc (lb/100ft²) 12.000 | |
| Gel (10s) (lb/100ft²) 7.000 | Gel (10m) (lb/100ft²) 12.000 | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) 50.0 | Filter Cake (1/32") 2 | pH 9.5 | Solids (%) 5.5 | |
| MBT (lb/bbl) 5.0 | Percent Oil (%) | Percent Water (%) 94.5 | Chlorides (mg/L) 23,000.000 | Calcium (mg/L) 120.000 | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #3, Steerable | | | | | | | |
| Bit Run 3 | Drill Bit 12 1/4in, RS 616 DHUX, 4009441 | | IADC Bit Dull ----- | | | TFA (incl Noz) (in²) 2.23 | |
| Nozzles (1/32") 18/18/18/18/18/18/18 | | | | String Length (ft) 6,657.00 | String Wt (1000lb) 153 | BHA ROP (ft/hr) 41.4 | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 5,950.0 | End Depth (ftKB) 6,657.0 | Cum Depth (ft) 1,344.00 | Drilling Time (hr) 18.50 | Cum Drill Time (hr) 32.50 | Int ROP (ft/hr) 38.2 | Flow Rate (gpm) 625 |
| WOB (1000lb) 27 | RPM (rpm) 70 | SPP (psi) 1,981.0 | Drill Str Wt (100... 180 | PU Str Wt (1000... 215 | SO Str Wt (1000... 160 | Drilling Torque 8,500.0 | Off Bottom Torque 2,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp...) | Q Gas Return (ft³...) |

| | | | |
|---|-------------------|-------------------------------|------------|
| Start Depth (ftKB) 5,950.0 | | End Depth (ftKB) 6,657.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 16.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Corey Howell, Rig Manager | | Phone Mobile 334 449 7075 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |



UNIVERSITY 10 2703H
Wellbore Name: OH

WEST UNRESTRICTED
CONFIDENTIAL

Partner Report

Report # 1 Date: 9/19/2013 06:00

| | | | | | | | |
|------------------------|------------|------------------|--------------------|----------------|--------------|-------------------|----------------------------|
| District | County | Field Name | Project Group | State/Province | | | |
| PERMIAN BASIN | REAGAN | LIN (WOLFCAMP) | PB TEXAS EAST | TX | | | |
| Surface Legal Location | API/UWI | Latitude (°) | Longitude (°) | Ground Elev... | KB - GL (ft) | Orig KB Elev (ft) | Tubing Head Elevation (ft) |
| S 27, BLK 10, ULS | 4238338225 | 31° 14' 6.909" N | 101° 31' 34.112" W | 2,720.00 | 25.00 | 2,745.00 | |

Jobs

| | | | |
|--------------------------------------|-------------------------|-----------------------------|-----------------------|
| Job Category DRILLING/COMPLETIONS | Authorized Depth (ftKB) | Authorized Depth TVD (ftKB) | API/UWI 4238338225 |
|--------------------------------------|-------------------------|-----------------------------|-----------------------|

Costs

| | | | | | |
|---|------------------------------|-------------------------------|--------------------------------|-------------------------------------|---------------------------|
| WBS Number 01-04838.03;01-04838.04;01-04838.02;01-04838.01;01-04838.05 | Planned Days (days) 29.38 | Daily Cost (Cost) \$66,027 | Cum To Date (Cost) \$66,027 | Total WBS+Sup (Cost) \$7,705,620 | Job % Complete (%) 1.9 |
| Job Phase | Cum Duration (days) | Field Est this Report (Cost) | Cum Phase Costs (Cost) | Planned Cost (Cost) | Cost Variance (Cost) |
| DRILLING | 0.54 | \$66,027 | \$66,027 | \$1,702,000 | \$1,635,973 |
| COMPLETION | 0.00 | \$0 | \$0 | \$400,000 | \$400,000 |

Daily Operations

| | | | | | |
|---------------------------------|------------------|------------------------|------------|---------------|-----------------|
| Rig PRO OILFIELD SERVICES, 1 | | | | | |
| Drilled Last 24 Hours (ft) | End Depth (ftKB) | End Depth (TVD) (ftKB) | DFS (days) | Report Number | Report End Date |
| 35.00 | 60.0 | | 0.33 | 1 | 9/19/2013 |

| | |
|--|--|
| Status at 6 AM DRILL 17.5 SURFACE FORMATION | 24 Hour Forecast DRILL 17.5 SURFACE WITH EM SURVEYS |
|--|--|

Time Log

| Start Time | End Time | Dur (hr) | Operation | Ops Status | Description |
|------------|----------|----------|-----------|------------|---|
| 17:00 | 22:00 | 5.00 | MOB | ACTIVE | MIRU SET IN NEW RIG SET HYDRAULIC JACK RAISE MAST RIG UP PUMP AND PITS |
| 22:00 | 04:00 | 6.00 | DRLG | ACTIVE | STRAP 8 " AND SPUD DRILL FROM 25' TO 60' KB |
| 04:00 | 06:00 | 2.00 | RIGSVC | ACTIVE | WORK ON ROTARY TABLE |
| | | | | | 5 HOURS FROM RIG RELEASE TO SPUD ALL CREWS FULL SPUD 9-18-13 AT 10:00 PM JOB# 8014 |

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|---|---|---|-------------------------------------|--|------------------------------|--------------------------------|------------------------------|
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| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Clear/Wind | | Temperature (°F) 67.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Run intermediate csg | | | | Operations Next Report Period Finish run csg, circ 2x csg capacity, cement casing | | | |
| Operations Summary Circ sweeps, TOOH F/Intermediate csg, L/D Directional Bha, Wait on csg crew,repair rig tongs, M/U Csg shoe trac, run 47 jts 9.625 csg, P/U D.V. Tool/Packer assembly, Continue running intermediate csg | | | | | | | |
| Remarks Run intermediate csg | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | Type Water Base | Depth (ftKB) 6,657.0 | Density (lb/gal) 9.00 | Vis (s/qt) 42 | PV Calc (cP) 6.0 | YP Calc (lb/100ft²) 11.000 | |
| Gel (10s) (lb/100ft²) 7.000 | Gel (10m) (lb/100ft²) 12.000 | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) 50.0 | Filter Cake (1/32") 2 | pH 9.5 | Solids (%) 5.5 | |
| MBT (lb/bbl) 5.0 | Percent Oil (%) | Percent Water (%) 94.5 | Chlorides (mg/L) 24,000.000 | Calcium (mg/L) 120.000 | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #3, Steerable | | | | | | | |
| Bit Run 3 | Drill Bit 12 1/4in, RS 616 DHUX, 4009441 | | IADC Bit Dull 0-1-CT-G-X-1-CT-TD | | | TFA (incl Noz) (in²) 2.23 | |
| Nozzles (1/32") 18/18/18/18/18/18 | | | | String Length (ft) 6,657.00 | String Wt (1000lb) 153 | BHA ROP (ft/hr) 41.4 | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 6,657.0 | End Depth (ftKB) 6,657.0 | Cum Depth (ft) 1,344.00 | Drilling Time (hr) 0.00 | Cum Drill Time (hr) 32.50 | Int ROP (ft/hr) | Flow Rate (gpm) 625 |
| WOB (1000lbf) 27 | RPM (rpm) 70 | SPP (psi) 1,981.0 | Drill Str Wt (100... 180 | PU Str Wt (1000... 215 | SO Str Wt (1000... 160 | Drilling Torque 8,500.0 | Off Bottom Torque 2,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp..) | Q Gas Return (ft³..) |

| | | | |
|---|-------------------|-------------------------------|------------|
| Start Depth (ftKB) 6,657.0 | | End Depth (ftKB) 6,657.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 17.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Corey Howell, Rig Manager | | Phone Mobile 334 449 7075 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

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| Spud Date 9/18/2013 22:00 | Rig Release Date | KB-Ground Distance (ft) 25.00 | KB-Casing Flange Distance (ft) | | | | |
| Weather Mostly cloudy/Wind | Temperature (°F) 53.0 | Road Condition Good | Hole Condition Good | | | | |
| Operations at Report Time Nipple down, set slips | | Operations Next Report Period Dress csg, nipple up B-Section, Bop's & flowline & test same, P/U Slick assembly W/Roller cone bit & drill out D.V Tool, float collar, shoe trac & shoe, Clean tanks & displace W/OBM, TOO H, P/U Directional & start drlg to K.O.P | | | | | |
| Operations Summary Finish run csg, R/U Cementers & cement 1st stage, (No returns untill last 20 bbl of displacement) drop plug, pump displacement, (Floats held) set packer, drop opening tool & open D.V. Tool, circ & W.O.C, PJSM, R/U & pump stage #2, good returnd during 1st 160 bbl's displacement, lost all returns during remainder of job, drop plug, pump displacement (Floats held), R/D Cementers, W.O.C, Nipple down, set slips & cut off csg, make final cut | | | | | | | |
| Remarks Little to no returns during 1st stage of cement, good returns during first 160 bbl's of displacement of 2nd stage, no returns during last 180 bbl's | | | | | | | |
| Mud Checks | | | | | | | |
| Time | Type | Depth (ftKB) | Density (lb/gal) | Vis (s/qt) | PV Calc (cP) | YP Calc (lb/100ft²) | |
| Gel (10s) (lb/100ft²) | Gel (10m) (lb/100ft²) | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) | |
| MBT (lb/bbl) | Percent Oil (%) | Percent Water (%) | Chlorides (mg/L) | Calcium (mg/L) | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #<stringno>, <des> | | | | | | | |
| Bit Run | Drill Bit | IADC Bit Dull | | | TFA (incl Noz) (in²) | | |
| Nozzles (1/32") | | | | String Length (ft) | String Wt (1000lbf) | BHA ROP (ft/hr) | |
| Drilling Parameters | | | | | | | |
| Wellbore | Start Depth (ftKB) | End Depth (ftKB) | Cum Depth (ft) | Drilling Time (hr) | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lbf) | RPM (rpm) | SPP (psi) | Drill Str Wt (100... | PU Str Wt (1000... | SO Str Wt (1000... | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|---|---|----------------|------------|
| Start Depth (ftKB) 6,657.0 | End Depth (ftKB) 6,657.0 | | |
| Target Depth (ftKB) 16,302.0 | Days LTI (days) 18.00 | | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | Mobile | | |
| Pete Rockholt, Consultant | (806) 445-5603 | | |
| Rigs | | | |
| Contractor Trinidad Drilling | Rig Number 101 | | |
| Rig Supervisor Corey Howell, Rig Manager | Phone Mobile 334 449 7075 | | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) Stroke (in) 12.01 | | |
| Liner Size (in) 6 | Vol/Stk OR (bbl/stk) 0.100 | | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) Stroke (in) 12.01 | | |
| Liner Size (in) 6 | Vol/Stk OR (bbl/stk) 0.100 | | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

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|--|-----------------------|---|----------------------|--|----------------------|--------------------------------|----------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Clear | | Temperature (°F) 42.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Drlg Float equipment | | | | Operations Next Report Period Drlg float collar, 1/2 shoe trac, test csg, drlg out shoe, drlg 10', clean pits & load OBM, Displace hole. TOO H, P/U Directional, T.I.H, Drlg to KOP | | | |
| Operations Summary Nipple up B-Section, Bop's etc, Test Bop's, replace Hcr valve, finish Bop test, P/U Bha, T.I.H, drlg D.V. Tool @ 4494, continue T.I.H & P/U 8 jts DP, Drlg cement & float collar | | | | | | | |
| Remarks Nipped up, test Bop's, failed Hydraulic Hcr, replace valve & finish Test, T.I.H drlg DV Tool, | | | | | | | |
| Mud Checks | | | | | | | |
| Time | Type | Depth (ftKB) | Density (lb/gal) | Vis (s/qt) | PV Calc (cP) | YP Calc (lb/100ft²) | |
| Gel (10s) (lb/100ft²) | Gel (10m) (lb/100ft²) | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) | |
| MBT (lb/bbl) | Percent Oil (%) | Percent Water (%) | Chlorides (mg/L) | Calcium (mg/L) | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #<stringno>, <des> | | | | | | | |
| Bit Run | Drill Bit | | IADC Bit Dull | | | TFA (incl Noz) (in²) | |
| Nozzles (1/32") | | | | String Length (ft) | | String Wt (1000lb) | |
| | | | | | | BHA ROP (ft/hr) | |
| Drilling Parameters | | | | | | | |
| Wellbore | Start Depth (ftKB) | End Depth (ftKB) | Cum Depth (ft) | Drilling Time (hr) | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lb) | RPM (rpm) | SPP (psi) | Drill Str Wt (100... | PU Str Wt (1000... | SO Str Wt (1000... | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|---|-------------------|-------------------------------|------------|
| Start Depth (ftKB) 6,657.0 | | End Depth (ftKB) 6,657.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 19.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Corey Howell, Rig Manager | | Phone Mobile 334 449 7075 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

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|---|--------------------------------------|---|--------------------------------|--|------------------------------|--------------------------------|-----------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Clear | | Temperature (°F) 53.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time T.I.H W/Directional | | | | Operations Next Report Period Drlg to KOP | | | |
| Operations Summary Drlg float collar, shoe trac & test csg to 1350 psi (OK), drlg cement to shoe, drlg shoe, pull back into csg & clean pits, fill pits W/OBM, pump 40 bbl diesel spacer & displace hole W/OBM (4800 stks), pump slug & TOO H F/Directional asembly, M/U Directional Bha, scribe, test, T.I.H W/Directional assembly, ream thru D.V Tool, continue T.I.H & install rotating head | | | | | | | |
| Remarks Displaced W/OBM @ 6657' | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | Type Oil Base | Depth (ftKB) 6,657.0 | Density (lb/gal) 9.20 | Vis (s/qt) 72 | PV Calc (cP) 21.0 | YP Calc (lb/100ft²) 9.000 | |
| Gel (10s) (lb/100ft²) 7.000 | Gel (10m) (lb/100ft²) 10.000 | Gel (30m) (lb/100ft²) 11.000 | Filtrate (mL/30min) 50.0 | Filter Cake (1/32") 2 | pH | Solids (%) 9.0 | |
| MBT (lb/bbl) | Percent Oil (%) 67.0 | Percent Water (%) 24.0 | Chlorides (mg/L) 58,000.000 | Calcium (mg/L) 138,654.000 | Potassium (mg/L) | Electric Stab (V) 305.0 | |
| Drill Strings | | | | | | | |
| BHA #4, Steerable | | | | | | | |
| Bit Run 4 | Drill Bit 8 3/4in, SX-616, JM8667 | | | IADC Bit Dull ----- | | TFA (incl Noz) (in²) 2.23 | |
| Nozzles (1/32") 22/22/22/22/22/22 | | | | String Length (ft) 6,435.12 | String Wt (1000lb/ft) 126 | BHA ROP (ft/hr) | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 6,657.0 | End Depth (ftKB) | Cum Depth (ft) | Drilling Time (hr) | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lb/ft) | RPM (rpm) | SPP (psi) | Drill Str Wt (100...) | PU Str Wt (1000...) | SO Str Wt (1000...) | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp...) | Q Gas Return (ft³...) |

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|---|-------------------|-------------------------------|------------|
| Start Depth (ftKB) 6,657.0 | | End Depth (ftKB) 6,657.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 20.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Corey Howell, Rig Manager | | Phone Mobile 334 449 7075 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

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|--|--------------------------------------|---|---------------------------------|--|--------------------------------|--------------------------------|------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Fair | | Temperature (°F) 63.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time P/U Bha | | | | Operations Next Report Period T.I.H W/Directional, build curve 90% Silt 10% Shale | | | |
| Operations Summary Drlg Slide F/7530 to 7705 W/Surveys & rig service, work on Pason rig monitoring equipment, Slug pipe & TOO H F/Directional due to insufficient build rates, C/O Bha | | | | | | | |
| Remarks Build curve to 7705, TOO H Due to insufficient build rates | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | | Type Oil Base | Depth (ftKB) 7,705.0 | Density (lb/gal) 8.60 | Vis (s/qt) 50 | PV Calc (cP) 19.0 | YP Calc (lb/100ft²) 8.000 |
| Gel (10s) (lb/100ft²) 5.000 | | Gel (10m) (lb/100ft²) 8.000 | Gel (30m) (lb/100ft²) 10.000 | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) 7.0 |
| MBT (lb/bbl) | | Percent Oil (%) 70.5 | Percent Water (%) 22.5 | Chlorides (mg/L) 47,000.000 | Calcium (mg/L) 301,320.000 | Potassium (mg/L) | Electric Stab (V) 550.0 |
| Drill Strings | | | | | | | |
| BHA #4, Steerable | | | | | | | |
| Bit Run 4 | Drill Bit 8 3/4in, SX-616, JM8667 | | | IADC Bit Dull ----- | | TFA (incl Noz) (in²) 2.23 | |
| Nozzles (1/32") 22/22/22/22/22/22 | | | | | String Length (ft) 7,705.00 | String Wt (1000lb) 151 | BHA ROP (ft/hr) 31.8 |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 7,540.0 | End Depth (ftKB) 7,705.0 | Cum Depth (ft) 1,048.00 | Drilling Time (hr) 12.50 | Cum Drill Time (hr) 33.00 | Int ROP (ft/hr) 13.2 | Flow Rate (gpm) 561 |
| WOB (1000lb) 19 | RPM (rpm) 0 | SPP (psi) 1,832.0 | Drill Str Wt (100... 190 | PU Str Wt (1000... 220 | SO Str Wt (1000... 175 | Drilling Torque 2,500.0 | Off Bottom Torque 2,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (... T Surf Annulus (... | Q Liq Return (gp... | Q Gas Return (ft³... | |

| | | | |
|---|-------------------|--------------------------------|------------|
| Start Depth (ftKB) 7,540.0 | | End Depth (ftKB) 7,705.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 22.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

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|--|--------------------------------------|---|--------------------------------|--|--------------------------------|--------------------------------|------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Partly cloudy | | Temperature (°F) 62.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Drlg Curve | | | | Operations Next Report Period Continue building curve, drlg lateral | | | |
| Operations Summary T.I.H to 6661, Drlg Rotate & slide 6661 to 7530W/Surveys & rig repairs & rig service service (Survey @ 7483, inc 13.1, azm 291.2) | | | | | | | |
| Remarks Drlg to KOP @ 7330, begin to build curve @ 10 degrees per hundred' 80% Sandstone 20% Silt | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | | Type Oil Base | Depth (ftKB) 7,161.0 | Density (lb/gal) 8.60 | Vis (s/qt) 48 | PV Calc (cP) 18.0 | YP Calc (lb/100ft³) 8.000 |
| Gel (10s) (lb/100ft³) 5.000 | | Gel (10m) (lb/100ft³) 7.000 | Gel (30m) (lb/100ft³) 9.000 | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) 7.5 |
| MBT (lb/bbl) | | Percent Oil (%) 69.5 | Percent Water (%) 23.0 | Chlorides (mg/L) 46,000.000 | Calcium (mg/L) 289,598.000 | Potassium (mg/L) | Electric Stab (V) 425.0 |
| Drill Strings | | | | | | | |
| BHA #4, Steerable | | | | | | | |
| Bit Run 4 | Drill Bit 8 3/4in, SX-616, JM8667 | | | IADC Bit Dull ----- | | TFA (incl Noz) (in²) 2.23 | |
| Nozzles (1/32") 22/22/22/22/22/22 | | | | | String Length (ft) 7,530.00 | String Wt (1000lb) 148 | BHA ROP (ft/hr) 43.1 |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 6,657.0 | End Depth (ftKB) 7,540.0 | Cum Depth (ft) 883.00 | Drilling Time (hr) 20.50 | Cum Drill Time (hr) 20.50 | Int ROP (ft/hr) 43.1 | Flow Rate (gpm) 557 |
| WOB (1000lb) 15 | RPM (rpm) 0 | SPP (psi) 1,830.0 | Drill Str Wt (100... 190 | PU Str Wt (1000... 220 | SO Str Wt (1000... 175 | Drilling Torque 2,500.0 | Off Bottom Torque 2,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (... | T Surf Annulus (... | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|---|-------------------|-------------------------------|---------------|
| Start Depth (ftKB) 6,657.0 | | End Depth (ftKB) 7,540.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 21.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Corey Howell, Rig Manager | | Phone Mobile 334 449 7075 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) 500.0 | Slow Spd Yes | Strokes (sp... 50 | Eff (%) 95 |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) 400.0 | Slow Spd Yes | Strokes (sp... 50 | Eff (%) 95 |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |



Daily Drilling Summary

Report Start Date: 4/26/2017
Report #: 27.0, DFS: 1,316.33
Depth Progress: 154.00

Well Name: UNIVERSITY 10 2703H

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|--|--------------------------------------|---|--------------------------------|--|------------------------------|--------------------------------|------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Clear | | Temperature (°F) 51.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Cut Drlg line | | | | Operations Next Report Period Finish T.I.H, Build curve, TOO H F/Lateral assembly | | | |
| Operations Summary T.I.H W/Directional, Drlg Slide F/7705 to 7859, W.O.O, Slug TOO H F/Dial up due to insufficient build rates, Handle directional tools, dial up to 2.6 degree, T.I.H W/New Bha, cut drlg line | | | | | | | |
| Remarks Build curve to 77859, TOO H Due to insufficient build rates, dial up to 2.6 degree 20% Limestone 30% Shale 50% Silt | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | Type Oil Base | Depth (ft)KB 7,859.0 | Density (lb/gal) 8.60 | Vis (s/qt) 55 | PV Calc (cP) 22.0 | YP Calc (lbf/100ft²) 9.000 | |
| Gel (10s) (lbf/100ft²) 6.000 | Gel (10m) (lbf/100ft²) 8.000 | Gel (30m) (lbf/100ft²) 10.000 | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) 7.0 | |
| MBT (lb/bbl) | Percent Oil (%) 70.5 | Percent Water (%) 22.5 | Chlorides (mg/L) 46,000.000 | Calcium (mg/L) 295,476.000 | Potassium (mg/L) | Electric Stab (V) 570.0 | |
| Drill Strings | | | | | | | |
| BHA #4, Steerable | | | | | | | |
| Bit Run 4 | Drill Bit 8 3/4in, SX-616, JM8667 | | IADC Bit Dull ----- | | | TFA (incl Noz) (in²) 2.23 | |
| Nozzles (1/32") 22/22/22/22/22/22 | | | | String Length (ft) 7,859.00 | String Wt (1000lbf) 154 | BHA ROP (ft/hr) 32.9 | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 7,705.0 | End Depth (ftKB) 7,859.0 | Cum Depth (ft) 1,202.00 | Drilling Time (hr) 3.50 | Cum Drill Time (hr) 36.50 | Int ROP (ft/hr) 44.0 | Flow Rate (gpm) 429 |
| WOB (1000lbf) 19 | RPM (rpm) 0 | SPP (psi) 1,832.0 | Drill Str Wt (100... 190 | PU Str Wt (1000... 220 | SO Str Wt (1000... 175 | Drilling Torque 2,500.0 | Off Bottom Torque 2,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|---|-------------------|--------------------------------|------------|
| Start Depth (ftKB) 7,705.0 | | End Depth (ftKB) 7,859.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 23.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |



Daily Drilling Summary

Report Start Date: 4/27/2017
Report #: 28.0, DFS: 1,317.33
Depth Progress: 363.00

Well Name: UNIVERSITY 10 2703H

| | | | | | | | |
|--|--|---|--------------------------------|--|-----------------------------|--------------------------------|------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Partly cloudy | | Temperature (°F) 66.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time T.I.H W/Lateral assembly | | | | Operations Next Report Period T.I.H, Drlg lateral | | | |
| Operations Summary Drlg Slide F/7859 to 8222 W/Surveys & rig service, Circ sweeps, build slug & TOO H F/Lateral assembly, C/O Bha, scribe & test, M/U Bit, T.I.H W/Lateral assembly | | | | | | | |
| Remarks Build curve to 8222, PTB inc 90.6, azm 359.8 Landed curve 12.5' below & 2' right | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | Type Oil Base | Depth (ftKB) 8,222.0 | Density (lb/gal) 8.80 | Vis (s/qt) 58 | PV Calc (cP) 22.0 | YP Calc (lb/100ft²) 10.000 | |
| Gel (10s) (lb/100ft²) 6.000 | Gel (10m) (lb/100ft²) 8.000 | Gel (30m) (lb/100ft²) 11.000 | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) 8.0 | |
| MBT (lb/bbl) | Percent Oil (%) 69.5 | Percent Water (%) 22.5 | Chlorides (mg/L) 47,000.000 | Calcium (mg/L) 301,320.000 | Potassium (mg/L) | Electric Stab (V) 560.0 | |
| Drill Strings | | | | | | | |
| BHA #6, Steerable | | | | | | | |
| Bit Run 5 | Drill Bit 8 3/4in, V-513-PDG1HUX, 4009035 | | | IADC Bit Dull 1-1-NO-A-X-0-NO-BHA | | TFA (incl Noz) (in²) 1.70 | |
| Nozzles (1/32") 16/16/16/22/22/22 | | | | String Length (ft) 8,222.00 | String Wt (1000lb) 161 | BHA ROP (ft/hr) 51.9 | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 7,859.0 | End Depth (ftKB) 8,222.0 | Cum Depth (ft) 363.00 | Drilling Time (hr) 7.00 | Cum Drill Time (hr) 7.00 | Int ROP (ft/hr) 51.9 | Flow Rate (gpm) 487 |
| WOB (1000lb) 43 | RPM (rpm) 0 | SPP (psi) 1,940.0 | Drill Str Wt (100... 175 | PU Str Wt (1000... 220 | SO Str Wt (1000... 150 | Drilling Torque 0.0 | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp...) | Q Gas Return (ft³...) |
| BHA #7, Steerable | | | | | | | |
| Bit Run 5 | Drill Bit 8 3/4in, XS-616, JM8667 | | | IADC Bit Dull ----- | | TFA (incl Noz) (in²) 2.22 | |
| Nozzles (1/32") | | | | String Length (ft) 8,222.36 | String Wt (1000lb) 161 | BHA ROP (ft/hr) | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 8,222.0 | End Depth (ftKB) 8,222.0 | Cum Depth (ft) | Drilling Time (hr) 0.00 | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) 0 |
| WOB (1000lb) 0 | RPM (rpm) 0 | SPP (psi) 0.0 | Drill Str Wt (100... 175 | PU Str Wt (1000... 220 | SO Str Wt (1000... 150 | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp...) | Q Gas Return (ft³...) |

| | | | |
|---|-------------------|--------------------------------|------------|
| Start Depth (ftKB) 7,859.0 | | End Depth (ftKB) 8,222.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 24.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

| | | | | | | | |
|--|--|---|--------------------------------------|---|---------------------------|--------------------------------|----------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Partly cloudy | | Temperature (°F) 71.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Wash & Ream | | | | Operations Next Report Period Wash thru curve, drlg lateral @ 8222 | | | |
| Operations Summary T.I.H W/Lateral assembly, wash & ream tight spots in curve @ 7725, pressure up, troubleshoot pressure, TOO H F/Motor failure, C/O Bha, T.I.H W/New motor, wash & ream tight spots @ 7725 to 8222 | | | | | | | |
| Remarks Wash & ream tight hole in curve section, motor failed TOO H F/New motor & T.I.H to 7725, wash & ream | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | Type Oil Base | Depth (ftKB) 8,222.0 | Density (lb/gal) 9.00 | Vis (s/qt) 61 | PV Calc (cP) 22.0 | YP Calc (lb/100ft²) 11.000 | |
| Gel (10s) (lb/100ft²) 6.000 | Gel (10m) (lb/100ft²) 8.000 | Gel (30m) (lb/100ft²) 11.000 | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) 8.5 | |
| MBT (lb/bbl) | Percent Oil (%) 69.5 | Percent Water (%) 22.0 | Chlorides (mg/L) 47,000.000 | Calcium (mg/L) 307,544.000 | Potassium (mg/L) | Electric Stab (V) 550.0 | |
| Drill Strings | | | | | | | |
| BHA #8, Steerable | | | | | | | |
| Bit Run 5 | Drill Bit 8 3/4in, XS-616, JM-8667 RR | | IADC Bit Dull 0-0-ND-A-X-0-ND-BHA | | | TFA (incl Noz) (in²) 2.22 | |
| Nozzles (1/32") 22/22/22/22/22/22 | | | | String Length (ft) 8,733.00 | String Wt (1000lb) 171 | BHA ROP (ft/hr) 113.6 | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 8,222.0 | End Depth (ftKB) 8,222.0 | Cum Depth (ft) | Drilling Time (hr) 0.00 | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) 0 |
| WOB (1000lbf) 0 | RPM (rpm) 0 | SPP (psi) 0.0 | Drill Str Wt (100... 177 | PU Str Wt (1000... 220 | SO Str Wt (1000... 155 | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|---|-------------------|--------------------------------|------------|
| Start Depth (ftKB) 8,222.0 | | End Depth (ftKB) 8,222.0 | |
| Target Depth (ftKB) 16,446.0 | | Days LTI (days) 25.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |



Daily Drilling Summary

Report Start Date: 4/29/2017
Report #: 30.0, DFS: 1,319.33
Depth Progress: 511.00

Well Name: UNIVERSITY 10 2703H

| | | | | | | | | |
|--|--|---|---------------------------------|---|--|---|-------------------------------|------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | | |
| Weather Clear | | Temperature (°F) 40.0 | | Road Condition Good | | Hole Condition Good | | |
| Operations at Report Time T.I.H W/Lateral assembly | | | | Operations Next Report Period Finish T.I.H, Drlg lateral | | | | |
| Operations Summary Ream thru curve, Drlg F/8222 to 8733 W/Surveys, Troublshoot Mwd, TOO H F/Mwd failure, C/O Mwd tool, T.I.H W/Lateral assembly (Survey @ 8503, inc 90.0, azm 358.8) | | | | | | | | |
| Remarks Drlg in lateral, Mwd tool failed, TOO H F/Tools Formation=Wolfcamp A 50% Shale 50% Silt | | | | | | | | |
| Mud Checks | | | | | | | | |
| Time 06:00 | | Type Oil Base | Depth (ftKB) 8,732.0 | Density (lb/gal) 8.90 | Vis (s/qt) 62 | PV Calc (cP) 20.0 | YP Calc (lb/100ft²) 11.000 | |
| Gel (10s) (lb/100ft²) 8.000 | | Gel (10m) (lb/100ft²) 10.000 | Gel (30m) (lb/100ft²) 13.000 | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) 8.5 | |
| MBT (lb/bbl) | | Percent Oil (%) 69.5 | Percent Water (%) 22.0 | Chlorides (mg/L) 47,000.000 | Calcium (mg/L) 307,544.000 | Potassium (mg/L) | Electric Stab (V) 615.0 | |
| Drill Strings | | | | | | | | |
| BHA #8, Steerable | | | | | | | | |
| Bit Run 5 | Drill Bit 8 3/4in, XS-616, JM-8667 RR | | | IADC Bit Dull 0-0-ND-A-X-0-ND-BHA | | TFA (incl Noz) (in²) 2.22 | | |
| Nozzles (1/32") 22/22/22/22/22/22 | | | | | String Length (ft) 8,733.00 | String Wt (1000lb) 171 | BHA ROP (ft/hr) 113.6 | |
| Drilling Parameters | | | | | | | | |
| Wellbore OH | | Start Depth (ftKB) 8,222.0 | End Depth (ftKB) 8,733.0 | Cum Depth (ft) 511.00 | Drilling Time (hr) 4.50 | Cum Drill Time (hr) 4.50 | Int ROP (ft/hr) 113.6 | Flow Rate (gpm) 526 |
| WOB (1000lb) 26 | | RPM (rpm) 70 | SPP (psi) 2,606.0 | Drill Str Wt (100... 177 | PU Str Wt (1000... 220 | SO Str Wt (1000... 155 | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (... T Surf Annulus (... | Q Liq Return (gp... Q Gas Return (ft³... | | |
| BHA #9, Steerable | | | | | | | | |
| Bit Run | Drill Bit 8 3/4in, XS-616, JM-8667 RR | | | IADC Bit Dull ----- | | TFA (incl Noz) (in²) 2.22 | | |
| Nozzles (1/32") 22/22/22/22/22/22 | | | | | String Length (ft) 10,960.00 | String Wt (1000lb) 214 | BHA ROP (ft/hr) 123.7 | |
| Drilling Parameters | | | | | | | | |
| Wellbore OH | | Start Depth (ftKB) 8,733.0 | End Depth (ftKB) 8,733.0 | Cum Depth (ft) 0.00 | Drilling Time (hr) 0.00 | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) 0 |
| WOB (1000lb) 0 | | RPM (rpm) 0 | SPP (psi) 0.0 | Drill Str Wt (100... 177 | PU Str Wt (1000... 220 | SO Str Wt (1000... 150 | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (... T Surf Annulus (... | Q Liq Return (gp... Q Gas Return (ft³... | | |

| | |
|---|---|
| Start Depth (ftKB) 8,222.0 | End Depth (ftKB) 8,733.0 |
| Target Depth (ftKB) 16,446.0 | Days LTI (days) 26.00 |
| Last Casing String Intermediate, 6,632.6ftKB | |
| Daily Contacts | |
| Daily Contacts | Mobile |
| Pete Rockholt, Consultant | (806) 445-5603 |
| Rigs | |
| Contractor Trinidad Drilling | Rig Number 101 |
| Rig Supervisor Tim Sepulvado, Rig Manager | Phone Mobile (318) 602-8578 |
| Mud Pumps | |
| # 2 , National Supply , 12-P-160 | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) Stroke (in) 12.01 |
| Liner Size (in) 6 | Vol/Stk OR (bbl/stk) 0.100 |
| P (psi) | Slow Spd |
| | Strokes (sp... Eff (%) |
| # 1 , National Supply , 12-P-160 | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) Stroke (in) 12.01 |
| Liner Size (in) 6 | Vol/Stk OR (bbl/stk) 0.100 |
| P (psi) | Slow Spd |
| | Strokes (sp... Eff (%) |
| Survey Data (last 5 records) | |
| MD (ftKB) | Incl (°) |
| Azm (°) | TVD (ftKB) |
| | |

Well Name: UNIVERSITY 10 2703H

| | | | | | | | |
|--|--|---|--------------------------------|---|------------------------------|--------------------------------|------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Clear | | Temperature (°F) 50.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Drlg lateral | | | | Operations Next Report Period Drlg Lateral | | | |
| Operations Summary Re-Log Gamma, Drlg Rotate & slide F/8733 to 10960 W/Surveys & rig service (Survey @ 10871, inc 90.4, azm 3.1) | | | | | | | |
| Remarks Drlg Lateral Following directional plan Wolfcamp B 60% Silt 40% Shale | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | Type Oil Base | Depth (ft)KB 9,821.0 | Density (lb/gal) 8.90 | Vis (s/qt) 62 | PV Calc (cP) 19.0 | YP Calc (lbf/100ft²) 14.000 | |
| Gel (10s) (lbf/100ft²) 9.000 | Gel (10m) (lbf/100ft²) 11.000 | Gel (30m) (lbf/100ft²) 14.000 | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) 9.0 | |
| MBT (lb/bbl) | Percent Oil (%) 69.0 | Percent Water (%) 22.0 | Chlorides (mg/L) 47,000.000 | Calcium (mg/L) 307,544.000 | Potassium (mg/L) | Electric Stab (V) 675.0 | |
| Drill Strings | | | | | | | |
| BHA #9, Steerable | | | | | | | |
| Bit Run | Drill Bit 8 3/4in, XS-616, JM-8667 RR | | IADC Bit Dull ----- | | | TFA (incl Noz) (in²) 2.22 | |
| Nozzles (1/32") 22/22/22/22/22/22 | | | | String Length (ft) 10,960.00 | String Wt (1000lbf) 214 | BHA ROP (ft/hr) 123.7 | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 8,733.0 | End Depth (ftKB) 10,960.0 | Cum Depth (ft) 2,227.00 | Drilling Time (hr) 18.00 | Cum Drill Time (hr) 18.00 | Int ROP (ft/hr) 123.7 | Flow Rate (gpm) 547 |
| WOB (1000lbf) 30 | RPM (rpm) 70 | SPP (psi) 3,180.0 | Drill Str Wt (100... 190 | PU Str Wt (1000... 240 | SO Str Wt (1000... 150 | Drilling Torque 14,500.0 | Off Bottom Torque 2,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|---|-------------------|--------------------------------|------------|
| Start Depth (ftKB) 8,733.0 | | End Depth (ftKB) 10,960.0 | |
| Target Depth (ftKB) 16,446.0 | | Days LTI (days) 27.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |



Daily Drilling Summary

Report Start Date: 5/1/2017
Report #: 32.0, DFS: 1,321.33
Depth Progress: 1,953.00

Well Name: UNIVERSITY 10 2703H

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|--|--|---|--------------------------------|--|------------------------------|--------------------------------|------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Clear | | Temperature (°F) 57.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Drlg Lateral | | | | Operations Next Report Period Drlg Lateral, work pipe & circ sweeps | | | |
| Operations Summary Drlg Rotate & slide F/10960 to 12913, W/Surveys & rig service (Survey @ 12779, inc 92.0, azm 4.7) | | | | | | | |
| Remarks Drlg Lateral Following directional plan Wolfcamp B 70% Silt 30% Shale | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | Type Oil Base | Depth (ft)KB 12,281.0 | Density (lb/gal) 9.00 | Vis (s/qt) 63 | PV Calc (cP) 19.0 | YP Calc (lbf/100ft²) 13.000 | |
| Gel (10s) (lbf/100ft²) 9.000 | Gel (10m) (lbf/100ft²) 11.000 | Gel (30m) (lbf/100ft²) 15.000 | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) 9.5 | |
| MBT (lb/bbl) | Percent Oil (%) 69.5 | Percent Water (%) 21.0 | Chlorides (mg/L) 42,000.000 | Calcium (mg/L) 289,588.000 | Potassium (mg/L) | Electric Stab (V) 690.0 | |
| Drill Strings | | | | | | | |
| BHA #9, Steerable | | | | | | | |
| Bit Run | Drill Bit 8 3/4in, XS-616, JM-8667 RR | | IADC Bit Dull ----- | | | TFA (incl Noz) (in²) 2.22 | |
| Nozzles (1/32") 22/22/22/22/22/22 | | | | String Length (ft) 12,913.00 | String Wt (1000lbf) 252 | BHA ROP (ft/hr) 110.0 | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ft)KB 10,960.0 | End Depth (ft)KB 12,913.0 | Cum Depth (ft) 4,180.00 | Drilling Time (hr) 20.00 | Cum Drill Time (hr) 38.00 | Int ROP (ft/hr) 97.7 | Flow Rate (gpm) 548 |
| WOB (1000lbf) 29 | RPM (rpm) 80 | SPP (psi) 3,247.0 | Drill Str Wt (100... 200 | PU Str Wt (1000... 240 | SO Str Wt (1000... 160 | Drilling Torque 18,500.0 | Off Bottom Torque 4,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|---|-------------------|--------------------------------|------------|
| Start Depth (ftKB) 10,960.0 | | End Depth (ftKB) 12,913.0 | |
| Target Depth (ftKB) 16,446.0 | | Days LTI (days) 28.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

| | | | | | | | |
|--|--|---|--------------------------------|---|------------------------------|--------------------------------|------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Partly cloudy | | Temperature (°F) 67.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Drlg Lateral | | | | Operations Next Report Period Drlg Lateral, possible trip F/Bha change | | | |
| Operations Summary Drlg Rotate & slide F/12913 to 14361, W/Surveys, rig service & Clean up cycle (Survey @ 14226, inc 91.1, azm 352.3) | | | | | | | |
| Remarks Drlg Lateral Wolfcamp B 70% Silt 30% Shale | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | Type Oil Base | Depth (ft)KB 14,317.0 | Density (lb/gal) 8.80 | Vis (s/qt) 62 | PV Calc (cP) 19.0 | YP Calc (lb/100ft²) 14.000 | |
| Gel (10s) (lb/100ft²) 12.000 | Gel (10m) (lb/100ft²) 16.000 | Gel (30m) (lb/100ft²) 18.000 | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) 9.0 | |
| MBT (lb/bbl) | Percent Oil (%) 69.0 | Percent Water (%) 22.0 | Chlorides (mg/L) 43,000.000 | Calcium (mg/L) 283,550.000 | Potassium (mg/L) | Electric Stab (V) 700.0 | |
| Drill Strings | | | | | | | |
| BHA #9, Steerable | | | | | | | |
| Bit Run | Drill Bit 8 3/4in, XS-616, JM-8667 RR | | IADC Bit Dull ----- | | | TFA (incl Noz) (in²) 2.22 | |
| Nozzles (1/32") 22/22/22/22/22/22 | | | | String Length (ft) 14,361.00 | String Wt (1000lb/ft) 280 | BHA ROP (ft/hr) 99.6 | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ft)KB 12,913.0 | End Depth (ft)KB 14,361.0 | Cum Depth (ft) 5,628.00 | Drilling Time (hr) 18.50 | Cum Drill Time (hr) 56.50 | Int ROP (ft/hr) 78.3 | Flow Rate (gpm) 552 |
| WOB (1000lbf) 30 | RPM (rpm) 0 | SPP (psi) 2,869.0 | Drill Str Wt (100... 185 | PU Str Wt (1000... 235 | SO Str Wt (1000... 145 | Drilling Torque 18,500.0 | Off Bottom Torque 4,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp...) | Q Gas Return (ft³...) |

| | | | |
|---|-------------------|--------------------------------|------------|
| Start Depth (ftKB) 12,913.0 | | End Depth (ftKB) 14,361.0 | |
| Target Depth (ftKB) 16,446.0 | | Days LTI (days) 29.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

| | | | | | | | |
|--|--|---|--------------------------------|---|------------------------------|--------------------------------|------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Clear | | Temperature (°F) 52.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time T.I.H | | | | Operations Next Report Period T.I.H, continue drlg lateral | | | |
| Operations Summary Drlg Rotate & slide F/14316 to 14471 W/Surveys & rig service, circ sweeps, TOO H F/Directional change, C/O Bha, T.I.H, cut drlg line, continue T.I.H | | | | | | | |
| Remarks TOOH F/Bit & Motor Wolfcamp B | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | Type Oil Base | Depth (ftKB) 14,471.0 | Density (lb/gal) 9.00 | Vis (s/qt) 83 | PV Calc (cP) 19.0 | YP Calc (lb/100ft²) 25.000 | |
| Gel (10s) (lb/100ft²) 13.000 | Gel (10m) (lb/100ft²) 18.000 | Gel (30m) (lb/100ft²) 19.000 | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) 10.0 | |
| MBT (lb/bbl) | Percent Oil (%) 67.0 | Percent Water (%) 23.0 | Chlorides (mg/L) 46,000.000 | Calcium (mg/L) 289,588.000 | Potassium (mg/L) | Electric Stab (V) 740.0 | |
| Drill Strings | | | | | | | |
| BHA #9, Steerable | | | | | | | |
| Bit Run 5 | Drill Bit 8 3/4in, XS-616, JM-8667 RR | | | IADC Bit Dull 0-1-CT-G-X-0-NO-BHA | | TFA (incl Noz) (in²) 2.22 | |
| Nozzles (1/32") 22/22/22/22/22/22 | | | | String Length (ft) 14,471.00 | String Wt (1000lb) 282 | BHA ROP (ft/hr) 96.4 | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 14,316.0 | End Depth (ftKB) 14,471.0 | Cum Depth (ft) 5,738.00 | Drilling Time (hr) 3.00 | Cum Drill Time (hr) 59.50 | Int ROP (ft/hr) 51.7 | Flow Rate (gpm) 552 |
| WOB (1000lbf) 30 | RPM (rpm) 70 | SPP (psi) 2,869.0 | Drill Str Wt (100... 185 | PU Str Wt (1000... 235 | SO Str Wt (1000... 145 | Drilling Torque 18,500.0 | Off Bottom Torque 4,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp...) | Q Gas Return (ft³...) |
| BHA #10, Steerable | | | | | | | |
| Bit Run 6 | Drill Bit 8 3/4in, U-616-M, 35125 | | | IADC Bit Dull ----- | | TFA (incl Noz) (in²) 2.23 | |
| Nozzles (1/32") 22/22/22/22/22/22 | | | | String Length (ft) 14,360.87 | String Wt (1000lb) 280 | BHA ROP (ft/hr) | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 14,471.0 | End Depth (ftKB) 14,471.0 | Cum Depth (ft) 0.00 | Drilling Time (hr) 0.00 | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) 0 |
| WOB (1000lbf) 0 | RPM (rpm) 0 | SPP (psi) 0.0 | Drill Str Wt (100... 188 | PU Str Wt (1000... 225 | SO Str Wt (1000... 145 | Drilling Torque 18,500.0 | Off Bottom Torque 4,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp...) | Q Gas Return (ft³...) |

| | | | |
|---|-------------------|--------------------------------|------------|
| Start Depth (ftKB) 14,316.0 | | End Depth (ftKB) 14,471.0 | |
| Target Depth (ftKB) 16,446.0 | | Days LTI (days) 30.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |



Partner Report

Report # 2 Date: 9/20/2013 06:00

| | | | | | | | |
|---|-----------------------|----------------------------------|-------------------------------------|----------------------------|-----------------------|-------------------------------|----------------------------|
| District PERMIAN BASIN | County REAGAN | Field Name LIN (WOLFCAMP) | Project Group PB TEXAS EAST | State/Province TX | | | |
| Surface Legal Location S 27, BLK 10, ULS | API/UWI 4238338225 | Latitude (°) 31° 14' 6.909" N | Longitude (°) 101° 31' 34.112" W | Ground Elev... 2,720.00 | KB - GL (ft) 25.00 | Orig KB Elev (ft) 2,745.00 | Tubing Head Elevation (ft) |

Jobs

| | | | |
|--------------------------------------|-------------------------|-----------------------------|-----------------------|
| Job Category DRILLING/COMPLETIONS | Authorized Depth (ftKB) | Authorized Depth TVD (ftKB) | API/UWI 4238338225 |
|--------------------------------------|-------------------------|-----------------------------|-----------------------|

Costs

| | | | | | |
|---|------------------------------|------------------------------|--------------------------------|-------------------------------------|---------------------------|
| WBS Number 01-04838.03;01-04838.04;01-04838.02;01-04838.01;01-04838.05 | Planned Days (days) 29.38 | Daily Cost (Cost) \$2,500 | Cum To Date (Cost) \$68,527 | Total WBS+Sup (Cost) \$7,705,620 | Job % Complete (%) 5.2 |
| Job Phase | Cum Duration (days) | Field Est this Report (Cost) | Cum Phase Costs (Cost) | Planned Cost (Cost) | Cost Variance (Cost) |
| DRILLING | 1.54 | \$2,500 | \$68,527 | \$1,702,000 | \$1,633,473 |
| COMPLETION | 0.00 | \$0 | \$0 | \$400,000 | \$400,000 |

Daily Operations

| | | | | | | | | | | | |
|---------------------------------|--------|------------------|-------|------------------------|--|------------|------|---------------|---|-----------------|-----------|
| Rig PRO OILFIELD SERVICES, 1 | | | | | | | | | | | |
| Drilled Last 24 Hours (ft) | 150.00 | End Depth (ftKB) | 210.0 | End Depth (TVD) (ftKB) | | DFS (days) | 1.33 | Report Number | 2 | Report End Date | 9/20/2013 |

Last Casing String

| | |
|---|--|
| Status at 6 AM DRILLING 17.5 SURFACE FORMATION | 24 Hour Forecast DRILL 17.5 SURFACE FORMATION WITH EM SURVEYS |
|---|--|

Time Log

| Start Time | End Time | Dur (hr) | Operation | Ops Status | Description |
|----------------|----------|----------|-----------|------------|--|
| 06:00 | 08:00 | 2.00 | DRLG | ACTIVE | DRILL FROM 60 TO 90' |
| 08:00 | 09:00 | 1.00 | TRIP | ACTIVE | POOH TO PICK UP HALLIBURTON DIRECTIONAL TOOLS |
| 09:00 | 10:30 | 1.50 | BHA | ACTIVE | PICK UP AND SCRIBE DIRECTIONAL TOOLS |
| 10:30 | 14:30 | 4.00 | RIGSVC | ACTIVE | CHANGE OUT PITS AND GENERATOR |
| 14:30 | 17:30 | 3.00 | DRLG | ACTIVE | ROTATE DRILL FROM 90' TO 138' WITH EM SURVEYS |
| 17:30 | 18:30 | 1.00 | RIGSVC | ACTIVE | WORK ON AIR COMPRESSOR |
| 18:30 | 20:00 | 1.50 | DRLG | ACTIVE | ROTATE DRILL FROM 138' TO 170' WITH EM SURVEYS |
| 20:00 | 02:30 | 6.50 | RIGSVC | ACTIVE | CHANGE OUT 5 VALVE AND SEATS ON PUMP |
| 02:30 | 06:00 | 3.50 | DRLG | ACTIVE | ROTATE DRILL FROM 170' TO 210' WITH EM SURVEYS |
| ALL CREWS FULL | | | | | |

Well Name: UNIVERSITY 10 2703H

| | | | | | | | |
|---|--------------------------------------|---|--------------------------------|---|------------------------------|--------------------------------|------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Clear | | Temperature (°F) 45.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Drlg Lateral | | | | Operations Next Report Period Drlg Lateral to TD | | | |
| Operations Summary Drlg Rotate & slide F/14471 to 15400 W/Surveys & rig service (Survey @ 15311, inc 90.3, azm 1.0) | | | | | | | |
| Remarks Drlg lateral following directional plan Wolfcamp B 80% Shale 20% Silt Stone | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | Type Oil Base | Depth (ftKB) 14,744.0 | Density (lb/gal) 8.80 | Vis (s/qt) 66 | PV Calc (cP) 14.0 | YP Calc (lb/100ft²) 15.000 | |
| Gel (10s) (lb/100ft²) 11.000 | Gel (10m) (lb/100ft²) 13.000 | Gel (30m) (lb/100ft²) 14.000 | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) 10.0 | |
| MBT (lb/bbl) | Percent Oil (%) 69.0 | Percent Water (%) 21.0 | Chlorides (mg/L) 49,000.000 | Calcium (mg/L) 324,327.000 | Potassium (mg/L) | Electric Stab (V) 784.0 | |
| Drill Strings | | | | | | | |
| BHA #10, Steerable | | | | | | | |
| Bit Run 6 | Drill Bit 8 3/4in, U-616-M, 35125 | | | IADC Bit Dull ----- | | TFA (incl Noz) (in²) 2.23 | |
| Nozzles (1/32") 22/22/22/22/22/22 | | | | String Length (ft) 15,400.00 | String Wt (1000lb) 301 | BHA ROP (ft/hr) 58.1 | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 14,471.0 | End Depth (ftKB) 15,400.0 | Cum Depth (ft) 929.00 | Drilling Time (hr) 16.00 | Cum Drill Time (hr) 16.00 | Int ROP (ft/hr) 58.1 | Flow Rate (gpm) 552 |
| WOB (1000lb) 34 | RPM (rpm) 70 | SPP (psi) 3,433.0 | Drill Str Wt (100... 188 | PU Str Wt (1000... 250 | SO Str Wt (1000... 110 | Drilling Torque 21,000.0 | Off Bottom Torque 4,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|---|-------------------|--------------------------------|---------------|
| Start Depth (ftKB) 14,471.0 | | End Depth (ftKB) 15,400.0 | |
| Target Depth (ftKB) 16,446.0 | | Days LTI (days) 31.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) 700.0 | Slow Spd Yes | Strokes (sp... 50 | Eff (%) 95 |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) 800.0 | Slow Spd Yes | Strokes (sp... 50 | Eff (%) 95 |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

| | | | | | | | |
|--|--------------------------------------|---|---------------------------------|--|---------------------------------|--------------------------------|-------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Clear | | Temperature (°F) 55.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Wiper Trip | | | | Operations Next Report Period Continue wiper trip, work pipe & circ sweeps, TOOH F/Production csg, L/D Bha, R/U Csg crew | | | |
| Operations Summary Drlg Rotate & slide F/15400 to 16480 W/Surveys & Rig service, circ sweeps, Wiper Tripback to 13000' T.D. Well @ 16480' (Survey @ 16436, inc 90.2, azm 356.5) | | | | | | | |
| Remarks Drlg lateral, T.D. Well @ 16480' Wolfcamp B 80% Shale 20% Silt Stone | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | | Type Oil Base | Depth (ftKB) 16,480.0 | Density (lb/gal) 8.90 | Vis (s/qt) 60 | PV Calc (cP) 13.0 | YP Calc (lb/100ft²) 11.000 |
| Gel (10s) (lb/100ft²) 8.000 | | Gel (10m) (lb/100ft²) 11.000 | Gel (30m) (lb/100ft²) 14.000 | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) 10.0 |
| MBT (lb/bbl) | | Percent Oil (%) 70.0 | Percent Water (%) 20.0 | Chlorides (mg/L) 46,000.000 | Calcium (mg/L) 328,781.000 | Potassium (mg/L) | Electric Stab (V) 784.0 |
| Drill Strings | | | | | | | |
| BHA #10, Steerable | | | | | | | |
| Bit Run 6 | Drill Bit 8 3/4in, U-616-M, 35125 | | | IADC Bit Dull ----- | | TFA (incl Noz) (in²) 2.23 | |
| Nozzles (1/32") 22/22/22/22/22/22 | | | | | String Length (ft) 16,480.00 | String Wt (1000lb/ft) 322 | BHA ROP (ft/hr) 61.8 |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 15,400.0 | End Depth (ftKB) 16,480.0 | Cum Depth (ft) 2,009.00 | Drilling Time (hr) 16.50 | Cum Drill Time (hr) 32.50 | Int ROP (ft/hr) 65.5 | Flow Rate (gpm) 543 |
| WOB (1000lb/ft) 26 | RPM (rpm) 70 | SPP (psi) 3,525.0 | Drill Str Wt (100... 185 | PU Str Wt (1000... 250 | SO Str Wt (1000... 125 | Drilling Torque 21,000.0 | Off Bottom Torque 4,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp...) | Q Gas Return (ft³...) |

| | | | |
|---|-------------------|--------------------------------|------------|
| Start Depth (ftKB) 15,400.0 | | End Depth (ftKB) 16,480.0 | |
| Target Depth (ftKB) 16,446.0 | | Days LTI (days) 32.00 | |
| Last Casing String Intermediate, 6,632.6ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

| | | | |
|--|---|---|--------------------------------|
| API/UWI 4238338225 | Surface Legal Location S 27, BLK 10, ULS | Lease Number 756394 | State/Province Texas |
| Spud Date 9/18/2013 22:00 | Rig Release Date | KB-Ground Distance (ft) 25.00 | KB-Casing Flange Distance (ft) |
| Weather Clear | Temperature (°F) 64.0 | Road Condition Good | Hole Condition Good |
| Operations at Report Time R/U Casing Crew | | Operations Next Report Period Run csg & cement | |
| Operations Summary T.I.H, reciprocate pipe & circulate sweeps, pump slug & TOOH F/Production csg, L/D Directional tools, R/U Csg crew, PJSM | | | |
| Remarks TOOH F/Casing run, R/U & run csg | | | |

| Mud Checks | | | | | | |
|----------------------------------|----------------------------------|----------------------------------|--------------------------------|-------------------------------|----------------------|--------------------------------|
| Time 06:00 | Type Oil Base | Depth (ftKB) 16,480.0 | Density (lb/gal) 8.90 | Vis (s/qt) 58 | PV Calc (cP) 16.0 | YP Calc (lbf/100ft²) 10.000 |
| Gel (10s) (lbf/100ft²) 11.000 | Gel (10m) (lbf/100ft²) 13.000 | Gel (30m) (lbf/100ft²) 14.000 | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) 10.0 |
| MBT (lb/bbl) | Percent Oil (%) 70.0 | Percent Water (%) 20.0 | Chlorides (mg/L) 43,000.000 | Calcium (mg/L) 309,327.000 | Potassium (mg/L) | Electric Stab (V) 756.0 |

| Drill Strings | | | | |
|------------------------|-----------|---------------|--------------------|----------------------|
| BHA #<stringno>, <des> | | | | |
| Bit Run | Drill Bit | IADC Bit Dull | | TFA (incl Noz) (in²) |
| Nozzles (1/32") | | | String Length (ft) | String Wt (1000lbf) |
| | | | | BHA ROP (ft/hr) |

| Drilling Parameters | | | | | | | |
|---------------------|--------------------|------------------|----------------------|----------------------|----------------------|---------------------|----------------------|
| Wellbore | Start Depth (ftKB) | End Depth (ftKB) | Cum Depth (ft) | Drilling Time (hr) | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lbf) | RPM (rpm) | SPP (psi) | Drill Str Wt (100... | PU Str Wt (1000... | SO Str Wt (1000... | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | |
|--|------------------------------|
| Start Depth (ftKB) 16,480.0 | End Depth (ftKB) 16,480.0 |
| Target Depth (ftKB) 16,446.0 | Days LTI (days) 33.00 |
| Last Casing String Production, 16,480.0ftKB | |

| Daily Contacts | |
|------------------------------|----------------|
| Daily Contacts | Mobile |
| Pete Rockholt, Consultant | (806) 445-5603 |

| Rigs | |
|--|--------------------------------|
| Contractor Trinidad Drilling | Rig Number 101 |
| Rig Supervisor Tim Sepulvado, Rig Manager | Phone Mobile (318) 602-8578 |

| Mud Pumps | | |
|----------------------------------|-------------------------------|------------------------|
| # 2 , National Supply , 12-P-160 | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 |
| Liner Size (in) 6 | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... Eff (%) |

| # 1 , National Supply , 12-P-160 | | |
|----------------------------------|-------------------------------|------------------------|
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 |
| Liner Size (in) 6 | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... Eff (%) |

| Survey Data (last 5 records) | | | |
|------------------------------|----------|---------|------------|
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

| | | | |
|---|---|--|--------------------------------|
| API/UWI 4238338225 | Surface Legal Location S 27, BLK 10, ULS | Lease Number 756394 | State/Province Texas |
| Spud Date 9/18/2013 22:00 | Rig Release Date | KB-Ground Distance (ft) 25.00 | KB-Casing Flange Distance (ft) |
| Weather Clear | Temperature (°F) 80.0 | Road Condition Good | Hole Condition Good |
| Operations at Report Time Hold PJSM w/ cementers | | Operations Next Report Period Cement production casing, WOC, lift stack, cut casing, set slips and secure well. Walk rig to University 10-2704H | |
| Operations Summary M/U shoe trac and run production casing to 16,477' w/ no issues, circulate casing, wait on cementers, R/U cementers and hold PJSM @ report time | | | |
| Remarks | | | |

| Mud Checks | | | | | | |
|---------------------------------|---------------------------------|---------------------------------|--------------------------------|-------------------------------|----------------------|-------------------------------|
| Time 06:00 | Type Oil Base | Depth (ftKB) 16,480.0 | Density (lb/gal) 9.00 | Vis (s/qt) 68 | PV Calc (cP) 16.0 | YP Calc (lb/100ft²) 11.000 |
| Gel (10s) (lb/100ft²) 11.000 | Gel (10m) (lb/100ft²) 13.000 | Gel (30m) (lb/100ft²) 16.000 | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) 10.0 |
| MBT (lb/bbl) | Percent Oil (%) 78.0 | Percent Water (%) 22.0 | Chlorides (mg/L) 42,000.000 | Calcium (mg/L) 302,779.000 | Potassium (mg/L) | Electric Stab (V) 755.0 |

| Drill Strings | | | | |
|------------------------|-----------|---------------|--------------------|----------------------|
| BHA #<stringno>, <des> | | | | |
| Bit Run | Drill Bit | IADC Bit Dull | | TFA (incl Noz) (in²) |
| Nozzles (1/32") | | | String Length (ft) | String Wt (1000lbf) |
| | | | | BHA ROP (ft/hr) |

| Drilling Parameters | | | | | | | |
|---------------------|--------------------|------------------|----------------------|----------------------|----------------------|---------------------|----------------------|
| Wellbore | Start Depth (ftKB) | End Depth (ftKB) | Cum Depth (ft) | Drilling Time (hr) | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lbf) | RPM (rpm) | SPP (psi) | Drill Str Wt (100... | PU Str Wt (1000... | SO Str Wt (1000... | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | |
|--|------------------------------|
| Start Depth (ftKB) 16,480.0 | End Depth (ftKB) 16,480.0 |
| Target Depth (ftKB) 16,446.0 | Days LTI (days) 34.00 |
| Last Casing String Production, 16,480.0ftKB | |

| Daily Contacts | |
|----------------------------|----------------|
| Daily Contacts | Mobile |
| Stoney Marquis, Consultant | (940) 594-3028 |

| Rigs | |
|--|--------------------------------|
| Contractor Trinidad Drilling | Rig Number 101 |
| Rig Supervisor Tim Sepulvado, Rig Manager | Phone Mobile (318) 602-8578 |

| Mud Pumps | | |
|----------------------------------|-------------------------------|---------------------------------------|
| # 2 , National Supply , 12-P-160 | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 |
| Liner Size (in) 6 | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) 700.0 | Slow Spd No | Strokes (sp... 50 Eff (%) 95 |

| # 1 , National Supply , 12-P-160 | | |
|----------------------------------|-------------------------------|---------------------------------------|
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 |
| Liner Size (in) 6 | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) 800.0 | Slow Spd No | Strokes (sp... 50 Eff (%) 95 |

| Survey Data (last 5 records) | | | |
|------------------------------|----------|---------|------------|
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

| | | | | | | | |
|---|-----------------------|---|----------------------|--|----------------------|--------------------------------|----------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Overcast | | Temperature (°F) 68.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Release rig | | | | Operations Next Report Period Rig down, walk rig, rig up, TIH, displace hole w/OBM, drill to KOP, build curve and drill lateral to TD | | | |
| Operations Summary Pump 80bbl diesel spacer followed by 200 bbl WBM, Pump 810 sks of 12.2ppg lead cement, 1835 sks of 13.2ppg tail cement, bump plug w/ 381bbbs of calculated displacement, floats held, bled back 3.5 bbbs, good returns throughout job, Nipple down, set slips, cut casing, install well cap and release rig @ 0600 hrs 5/9/2017 | | | | | | | |
| Remarks Notified Ivy @ TRRC of intent to run and cement production casing | | | | | | | |
| Mud Checks | | | | | | | |
| Time | Type | Depth (ftKB) | Density (lb/gal) | Vis (s/qt) | PV Calc (cP) | YP Calc (lb/100ft²) | |
| Gel (10s) (lb/100ft²) | Gel (10m) (lb/100ft²) | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) | |
| MBT (lb/bbl) | Percent Oil (%) | Percent Water (%) | Chlorides (mg/L) | Calcium (mg/L) | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #<stringno>, <des> | | | | | | | |
| Bit Run | Drill Bit | | | IADC Bit Dull | | | TFA (incl Noz) (in²) |
| Nozzles (1/32") | | | | String Length (ft) | | String Wt (1000lbf) | BHA ROP (ft/hr) |
| Drilling Parameters | | | | | | | |
| Wellbore | Start Depth (ftKB) | End Depth (ftKB) | Cum Depth (ft) | Drilling Time (hr) | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lbf) | RPM (rpm) | SPP (psi) | Drill Str Wt (100... | PU Str Wt (1000... | SO Str Wt (1000... | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|---|-------------------|--------------------------------|----------------------|
| Start Depth (ftKB) 16,480.0 | | End Depth (ftKB) 16,480.0 | |
| Target Depth (ftKB) 16,446.0 | | Days LTI (days) 35.00 | |
| Last Casing String Production, 16,480.0ftKB | | | |
| Daily Contacts | | | |
| Job Contact | | Mobile | |
| Stoney Marquis, Consultant | | (940) 594-3028 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | | Stroke (in) 12.01 |
| Liner Size (in) | | Vol/Stk OR (bbl/stk) | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | | Stroke (in) 12.01 |
| Liner Size (in) | | Vol/Stk OR (bbl/stk) | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |



UNIVERSITY 10 2703H
Wellbore Name: OH

WEST UNRESTRICTED
CONFIDENTIAL

Partner Report

Report # 3 Date: 9/21/2013 06:00

| | | | | | | | |
|---|-----------------------|----------------------------------|-------------------------------------|----------------------------|-----------------------|-------------------------------|----------------------------|
| District PERMIAN BASIN | County REAGAN | Field Name LIN (WOLFCAMP) | Project Group PB TEXAS EAST | State/Province TX | | | |
| Surface Legal Location S 27, BLK 10, ULS | API/UWI 4238338225 | Latitude (°) 31° 14' 6.909" N | Longitude (°) 101° 31' 34.112" W | Ground Elev... 2,720.00 | KB - GL (ft) 25.00 | Orig KB Elev (ft) 2,745.00 | Tubing Head Elevation (ft) |

Jobs

| | | | |
|--------------------------------------|-------------------------|-----------------------------|-----------------------|
| Job Category DRILLING/COMPLETIONS | Authorized Depth (ftKB) | Authorized Depth TVD (ftKB) | API/UWI 4238338225 |
|--------------------------------------|-------------------------|-----------------------------|-----------------------|

Costs

| | | | | | |
|---|------------------------------|------------------------------|--------------------------------|-------------------------------------|---------------------------|
| WBS Number 01-04838.03;01-04838.04;01-04838.02;01-04838.01;01-04838.05 | Planned Days (days) 29.38 | Daily Cost (Cost) \$2,501 | Cum To Date (Cost) \$15,106 | Total WBS+Sup (Cost) \$7,705,620 | Job % Complete (%) 8.5 |
|---|------------------------------|------------------------------|--------------------------------|-------------------------------------|---------------------------|

| Job Phase | Cum Duration (days) | Field Est this Report (Cost) | Cum Phase Costs (Cost) | Planned Cost (Cost) | Cost Variance (Cost) |
|------------|---------------------|------------------------------|------------------------|---------------------|----------------------|
| DRILLING | 2.54 | \$2,501 | \$15,106 | \$1,702,000 | \$1,686,894 |
| COMPLETION | 0.00 | \$0 | \$0 | \$400,000 | \$400,000 |

Daily Operations

| | | | | | |
|---------------------------------|------------------|------------------------|------------|---------------|-----------------|
| Rig PRO OILFIELD SERVICES, 1 | | | | | |
| Drilled Last 24 Hours (ft) | End Depth (ftKB) | End Depth (TVD) (ftKB) | DFS (days) | Report Number | Report End Date |
| 540.00 | 750.0 | 750.0 | 2.33 | 3 | 9/21/2013 |

Last Casing String

| | |
|--|--|
| Status at 6 AM DRILL 17.5 SURFACE FORMATION | 24 Hour Forecast DRILL 17.5 SURFACE |
|--|--|

Time Log

| Start Time | End Time | Dur (hr) | Operation | Ops Status | Description |
|------------|----------|----------|-----------|------------|--|
| 06:00 | 06:00 | 24.00 | DRLG | ACTIVE | ROTATE DRILL WITH EM SURVEYS FROM 210' TO 750' |



UNIVERSITY 10 2703H
Wellbore Name: OH

WEST UNRESTRICTED
CONFIDENTIAL

Partner Report

Report # 4 Date: 9/22/2013 06:00

| | | | | | | | |
|---|-----------------------|----------------------------------|-------------------------------------|----------------------------|-----------------------|-------------------------------|----------------------------|
| District PERMIAN BASIN | County REAGAN | Field Name LIN (WOLFCAMP) | Project Group PB TEXAS EAST | State/Province TX | | | |
| Surface Legal Location S 27, BLK 10, ULS | API/UWI 4238338225 | Latitude (°) 31° 14' 6.909" N | Longitude (°) 101° 31' 34.112" W | Ground Elev... 2,720.00 | KB - GL (ft) 25.00 | Orig KB Elev (ft) 2,745.00 | Tubing Head Elevation (ft) |

Jobs

| | | | |
|--------------------------------------|-------------------------|-----------------------------|-----------------------|
| Job Category DRILLING/COMPLETIONS | Authorized Depth (ftKB) | Authorized Depth TVD (ftKB) | API/UWI 4238338225 |
|--------------------------------------|-------------------------|-----------------------------|-----------------------|

Costs

| | | | | | |
|---|------------------------------|-------------------------------|--------------------------------|-------------------------------------|----------------------------|
| WBS Number 01-04838.03;01-04838.04;01-04838.02;01-04838.01;01-04838.05 | Planned Days (days) 29.38 | Daily Cost (Cost) \$78,118 | Cum To Date (Cost) \$93,224 | Total WBS+Sup (Cost) \$7,705,620 | Job % Complete (%) 11.8 |
| Job Phase | Cum Duration (days) | Field Est this Report (Cost) | Cum Phase Costs (Cost) | Planned Cost (Cost) | Cost Variance (Cost) |
| DRILLING | 3.33 | \$78,118 | \$93,224 | \$1,702,000 | \$1,608,776 |
| COMPLETION | 0.00 | \$0 | \$0 | \$400,000 | \$400,000 |

Daily Operations

| | | | | | |
|----------------------------|------------------|------------------------|---------------------------------|---------------|-----------------|
| Rig | | | | | |
| PRO OILFIELD SERVICES, 1 | | | | | |
| Drilled Last 24 Hours (ft) | End Depth (ftKB) | End Depth (TVD) (ftKB) | DFS (days) | Report Number | Report End Date |
| 105.00 | 855.0 | | 3.33 | 4 | 9/22/2013 |
| Last Casing String | | | | | |
| SURFACE, 855.0ftKB | | | | | |
| Status at 6 AM | | | 24 Hour Forecast | | |
| | | | MOVE RIG TO UNIVERSITY 43-15-6H | | |

Time Log

| Start Time | End Time | Dur (hr) | Operation | Ops Status | Description |
|------------|----------|----------|-----------|------------|--|
| 06:00 | 07:00 | 1.00 | DRLG | ACTIVE | ROTATE DRILL WITH EM SURVEYS FROM 750' TO 855 KB |
| 07:00 | 08:00 | 1.00 | CIRC | ACTIVE | CIRCULATE AND CLEAN HOLE |
| 08:00 | 10:00 | 2.00 | DPIPE | ACTIVE | LAYDOWN DRILL PIPE AND DRILL COLLARS |
| 10:00 | 11:00 | 1.00 | BHA | ACTIVE | LAY DOWN DIRECTION BHA BREAK BIT |
| 11:00 | 15:00 | 4.00 | CSG | ACTIVE | PREPARE FLOOR INSTALL CAMERA IN CROWN TO RUN 13 3/8 CASING MAKE UP CRT AND RUN 1 13 3/8 FLOAT SHOE I SHOE JOINT AND FLOAT COLLAR BALANCE OF 19 JOINTS OF 13 3/8 54.5 # J-55 BUTTRESS CASING |
| 15:00 | 16:00 | 1.00 | CIRC | ACTIVE | CIRCULATE WHILE RIGGING UP BAKER CEMENTING CREW |
| 16:00 | 19:00 | 3.00 | CMTPRI | ACTIVE | HOLD SAFTY MEETING WITH PRO HANDS AND BAKER CEMENTERS, RIG UP HEAD AND EQUIPMENT, TEST STEEL LINES TO 4000 PSI AND CEMENT 13 3/8 CASING. PUMP 20 BBLS FRESH WATER SPACER, 271 BBLS LEAD CEMENT @ 13.5 PPG (870 SACKS) @ 5.5 BPM, DROP PLUG AND DISPLACE WITH 122 BBLS FRESH WATER. PLUG BUMPED @ CAL -VOL BLEED BACK 1/4 BBLS WITH 137 BBLS 438 SKS CEMENT RETURNS TO SURFACE. RIG DOWN CEMENTERS AND EQUIPMENT. |
| 19:00 | 01:00 | 6.00 | CMTPRI | ACTIVE | WAIT ON CEMENT 4 HOURS SLACK OFF AND CUT CASING RIG DOWN RIG AND MOVE OFF HOLE HAVE WELDER CUT CASING GROUND LEVEL AND AND WELD ON PLATE RELEASE RIG AT 1:00 A.M. 9-22-13 TRRC NOTIFIED AT 7 :00 AM 9-21-13 OF INTENT TO RUN CASING AND CEMENT SURFACE CASING OPERATOR TISH |

Well Name: UNIVERSITY 10 2703H

| | | | | | | | |
|--|---|--|--------------------------------|----------------------|----------------------|---------------------|----------------------|
| API/UWI 4238338225 | Surface Legal Location S 27, BLK 10, ULS | Lease Number 756394 | State/Province Texas | | | | |
| Spud Date 9/18/2013 22:00 | Rig Release Date | KB-Ground Distance (ft) 25.00 | KB-Casing Flange Distance (ft) | | | | |
| Weather Clear | Temperature (°F) 46.0 | Road Condition Good | Hole Condition Good | | | | |
| Operations at Report Time Wait on daylight | | Operations Next Report Period PJSM, Move rig & rig up | | | | | |
| Operations Summary Wait on daylight, Start receiving loads of Trinidad #101, set mat boards, mud pits, mud pumps, SCR House, generators, fuel tank begin rigging up | | | | | | | |
| Remarks 65% moved, 35% rigged up | | | | | | | |
| Mud Checks | | | | | | | |
| Time | Type | Depth (ftKB) | Density (lb/gal) | Vis (s/qt) | PV Calc (cP) | YP Calc (lb/100ft²) | |
| Gel (10s) (lb/100ft²) | Gel (10m) (lb/100ft²) | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) | |
| MBT (lb/bbl) | Percent Oil (%) | Percent Water (%) | Chlorides (mg/L) | Calcium (mg/L) | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #<stringno>, <des> | | | | | | | |
| Bit Run | Drill Bit | IADC Bit Dull | | | TFA (incl Noz) (in²) | | |
| Nozzles (1/32") | | | | String Length (ft) | String Wt (1000lb) | BHA ROP (ft/hr) | |
| Drilling Parameters | | | | | | | |
| Wellbore | Start Depth (ftKB) | End Depth (ftKB) | Cum Depth (ft) | Drilling Time (hr) | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lb) | RPM (rpm) | SPP (psi) | Drill Str Wt (100... | PU Str Wt (1000... | SO Str Wt (1000... | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|----------------------------------|-------------------|------------------------|------------|
| Start Depth (ftKB) | End Depth (ftKB) | | |
| 855.0 | 855.0 | | |
| Target Depth (ftKB) | Days LTI (days) | | |
| 16,302.0 | 2.00 | | |
| Last Casing String | | | |
| SURFACE 1, 805.0ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | Mobile | | |
| Pete Rockholt, Consultant | (806) 445-5603 | | |
| Rigs | | | |
| Contractor | Rig Number | | |
| Trinidad Drilling | 101 | | |
| Rig Supervisor | Phone Mobile | | |
| Tim Sepulvado, Rig Manager | (318) 602-8578 | | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) | Rod Diameter (in) | Stroke (in) | |
| 1,000.0 | | 12.01 | |
| Liner Size (in) | | Vol/Stk OR (bbl/stk) | |
| P (psi) | Slow Spd | Strokes (sp... Eff (%) | |
| | | | |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) | Rod Diameter (in) | Stroke (in) | |
| 1,000.0 | | 12.01 | |
| Liner Size (in) | | Vol/Stk OR (bbl/stk) | |
| P (psi) | Slow Spd | Strokes (sp... Eff (%) | |
| | | | |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

| | | | | | | | |
|--|-----------------------|---|----------------------|---|----------------------|--------------------------------|----------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Partly cloudy | | Temperature (°F) 51.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Wait on daylight | | | | Operations Next Report Period Rig Up Rig | | | |
| Operations Summary Wait on daylight, R/U Derrick, set subs, mud boat, festoon rail, water tank etc, place derrick on floor, R/U top drive trac, topdrive, blocks, R/U electrical, water & hydraulic lines, continue to rig up rig. wait on daylight | | | | | | | |
| Remarks 95% Moved, 65% Rigged up | | | | | | | |
| Mud Checks | | | | | | | |
| Time | Type | Depth (ftKB) | Density (lb/gal) | Vis (s/qt) | PV Calc (cP) | YP Calc (lb/100ft²) | |
| Gel (10s) (lb/100ft²) | Gel (10m) (lb/100ft²) | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) | |
| MBT (lb/bbl) | Percent Oil (%) | Percent Water (%) | Chlorides (mg/L) | Calcium (mg/L) | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #<stringno>, <des> | | | | | | | |
| Bit Run | Drill Bit | | IADC Bit Dull | | | TFA (incl Noz) (in²) | |
| Nozzles (1/32") | | | | String Length (ft) | String Wt (1000lb) | BHA ROP (ft/hr) | |
| Drilling Parameters | | | | | | | |
| Wellbore | Start Depth (ftKB) | End Depth (ftKB) | Cum Depth (ft) | Drilling Time (hr) | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lb) | RPM (rpm) | SPP (psi) | Drill Str Wt (100... | PU Str Wt (1000... | SO Str Wt (1000... | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|---|-------------------|--------------------------------|------------|
| Start Depth (ftKB) 855.0 | | End Depth (ftKB) 855.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 3.00 | |
| Last Casing String SURFACE 1, 805.0ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,000.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) | | Vol/Stk OR (bbl/stk) | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,000.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) | | Vol/Stk OR (bbl/stk) | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

| | | | | | | | |
|--|--------------------|---|-----------------------|---|----------------------|--------------------------------|----------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Partly cloudy | | Temperature (°F) 57.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Rig up | | | | Operations Next Report Period Rig Up | | | |
| Operations Summary Finish R/U Derrick, pull cables & electrical, R/U Hydraulics, install standpipe, raise derrick, set draw works, R/U Same, raise substructure & continue rig up rig. Set centrifuge stand & centrifuge & begin rig up solids control equipment | | | | | | | |
| Remarks 100% Moved, 80% Rigged up | | | | | | | |
| Mud Checks | | | | | | | |
| Time | | Type | Depth (ftKB) | Density (lb/gal) | Vis (s/qt) | PV Calc (cP) | YP Calc (lb/100ft²) |
| Gel (10s) (lb/100ft²) | | Gel (10m) (lb/100ft²) | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) |
| MBT (lb/bbl) | | Percent Oil (%) | Percent Water (%) | Chlorides (mg/L) | Calcium (mg/L) | Potassium (mg/L) | Electric Stab (V) |
| Drill Strings | | | | | | | |
| BHA #<stringno>, <des> | | | | | | | |
| Bit Run | | Drill Bit | | IADC Bit Dull | | TFA (incl Noz) (in²) | |
| Nozzles (1/32") | | | | | String Length (ft) | String Wt (1000lb) | BHA ROP (ft/hr) |
| Drilling Parameters | | | | | | | |
| Wellbore | Start Depth (ftKB) | End Depth (ftKB) | Cum Depth (ft) | Drilling Time (hr) | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lb) | RPM (rpm) | SPP (psi) | Drill Str Wt (100... | PU Str Wt (1000... | SO Str Wt (1000... | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|---|-------------------|--------------------------------|------------|
| Start Depth (ftKB) 855.0 | | End Depth (ftKB) 855.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 4.00 | |
| Last Casing String SURFACE 1, 805.0ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,000.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) | | Vol/Stk OR (bbl/stk) | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,000.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) | | Vol/Stk OR (bbl/stk) | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

| | | | | | | | |
|---|-----------------------|---|----------------------|---|----------------------|--------------------------------|----------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Partly cloudy | | Temperature (°F) 61.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Rig Up | | | | Operations Next Report Period Rig up | | | |
| Operations Summary Continue to rig up W/5-J Crane, set steps & walkways, hook up electrical, mud lines, spool up DW, work on rig floor, continue general rig up operations | | | | | | | |
| Remarks 100% Moved, 90% rigged up | | | | | | | |
| Mud Checks | | | | | | | |
| Time | Type | Depth (ftKB) | Density (lb/gal) | Vis (s/qt) | PV Calc (cP) | YP Calc (lb/100ft²) | |
| Gel (10s) (lb/100ft²) | Gel (10m) (lb/100ft²) | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) | |
| MBT (lb/bbl) | Percent Oil (%) | Percent Water (%) | Chlorides (mg/L) | Calcium (mg/L) | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #<stringno>, <des> | | | | | | | |
| Bit Run | Drill Bit | | IADC Bit Dull | | | TFA (incl Noz) (in²) | |
| Nozzles (1/32") | | | | String Length (ft) | String Wt (1000lb) | BHA ROP (ft/hr) | |
| Drilling Parameters | | | | | | | |
| Wellbore | Start Depth (ftKB) | End Depth (ftKB) | Cum Depth (ft) | Drilling Time (hr) | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lb) | RPM (rpm) | SPP (psi) | Drill Str Wt (100... | PU Str Wt (1000... | SO Str Wt (1000... | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|---|-------------------|--------------------------------|------------|
| Start Depth (ftKB) 855.0 | | End Depth (ftKB) 855.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 5.00 | |
| Last Casing String SURFACE 1, 805.0ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,000.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) | | Vol/Stk OR (bbl/stk) | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,000.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) | | Vol/Stk OR (bbl/stk) | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

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|---|---|--|--------------------------------|----------------------|----------------------|---------------------|----------------------|
| API/UWI 4238338225 | Surface Legal Location S 27, BLK 10, ULS | Lease Number 756394 | State/Province Texas | | | | |
| Spud Date 9/18/2013 22:00 | Rig Release Date | KB-Ground Distance (ft) 25.00 | KB-Casing Flange Distance (ft) | | | | |
| Weather Partly cloudy | Temperature (°F) 64.0 | Road Condition Good | Hole Condition Good | | | | |
| Operations at Report Time Commission rig equipment | | Operations Next Report Period Finish commission rig, Nipple up test Bop's, install rotating head & fabricate flowline | | | | | |
| Operations Summary Weld on wellhead, Continue to R/U Rig, pumps, topdrive quill, floor etc, Commission rig equipment | | | | | | | |
| Remarks Commission rig equipment | | | | | | | |
| Mud Checks | | | | | | | |
| Time | Type | Depth (ftKB) | Density (lb/gal) | Vis (s/qt) | PV Calc (cP) | YP Calc (lb/100ft²) | |
| Gel (10s) (lb/100ft²) | Gel (10m) (lb/100ft²) | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) | |
| MBT (lb/bbl) | Percent Oil (%) | Percent Water (%) | Chlorides (mg/L) | Calcium (mg/L) | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #<stringno>, <des> | | | | | | | |
| Bit Run | Drill Bit | IADC Bit Dull | | | TFA (incl Noz) (in²) | | |
| Nozzles (1/32") | | | | String Length (ft) | String Wt (1000lb) | BHA ROP (ft/hr) | |
| Drilling Parameters | | | | | | | |
| Wellbore | Start Depth (ftKB) | End Depth (ftKB) | Cum Depth (ft) | Drilling Time (hr) | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lb) | RPM (rpm) | SPP (psi) | Drill Str Wt (100... | PU Str Wt (1000... | SO Str Wt (1000... | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|----------------------------------|-------------------|------------------------|------------|
| Start Depth (ftKB) | End Depth (ftKB) | | |
| 855.0 | 855.0 | | |
| Target Depth (ftKB) | Days LTI (days) | | |
| 16,302.0 | 6.00 | | |
| Last Casing String | | | |
| SURFACE 1, 805.0ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | Mobile | | |
| Pete Rockholt, Consultant | (806) 445-5603 | | |
| Rigs | | | |
| Contractor | Rig Number | | |
| Trinidad Drilling | 101 | | |
| Rig Supervisor | Phone Mobile | | |
| Tim Sepulvado, Rig Manager | (318) 602-8578 | | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) | Rod Diameter (in) | Stroke (in) | |
| 1,000.0 | | 12.01 | |
| Liner Size (in) | | Vol/Stk OR (bbl/stk) | |
| P (psi) | Slow Spd | Strokes (sp... Eff (%) | |
| | | | |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) | Rod Diameter (in) | Stroke (in) | |
| 1,000.0 | | 12.01 | |
| Liner Size (in) | | Vol/Stk OR (bbl/stk) | |
| P (psi) | Slow Spd | Strokes (sp... Eff (%) | |
| | | | |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

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|--|-----------------------|---|----------------------|---|----------------------|--------------------------------|----------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Partly cloudy | | Temperature (°F) 54.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time | | | | Operations Next Report Period Finish fabricating flowline, flowline stands, safety inspection, P/U Directional tools | | | |
| Operations Summary Continue working on general rig repairs and fabrications to various parts of rig, flowline, handrails etc, nipple up Bop's, choke, test Bop's, continue preparing rig for normal drilling operations | | | | | | | |
| Remarks | | | | | | | |
| | | | | | | | |
| Mud Checks | | | | | | | |
| Time | Type | Depth (ftKB) | Density (lb/gal) | Vis (s/qt) | PV Calc (cP) | YP Calc (lb/100ft²) | |
| Gel (10s) (lb/100ft²) | Gel (10m) (lb/100ft²) | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) | |
| MBT (lb/bbl) | Percent Oil (%) | Percent Water (%) | Chlorides (mg/L) | Calcium (mg/L) | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #<stringno>, <des> | | | | | | | |
| Bit Run | Drill Bit | IADC Bit Dull | | | TFA (incl Noz) (in²) | | |
| Nozzles (1/32") | | | | String Length (ft) | String Wt (1000lbf) | BHA ROP (ft/hr) | |
| Drilling Parameters | | | | | | | |
| Wellbore | Start Depth (ftKB) | End Depth (ftKB) | Cum Depth (ft) | Drilling Time (hr) | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lbf) | RPM (rpm) | SPP (psi) | Drill Str Wt (100... | PU Str Wt (1000... | SO Str Wt (1000... | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|--|-------------------------------|--------------------------------|------------|
| Start Depth (ftKB) 855.0 | | End Depth (ftKB) 855.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 7.00 | |
| Last Casing String SURFACE 1, 805.0ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | Vol/Stk OR (bbl/stk) 0.010 | | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | Vol/Stk OR (bbl/stk) 0.010 | | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

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|---|-----------------------|---|----------------------|---|----------------------|--------------------------------|----------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Cloudy | | Temperature (°F) 60.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Prep rig & safety inspection | | | | Operations Next Report Period Continue safety inspection, set racks, load tools, P/U Bha, Drlg | | | |
| Operations Summary Tear down & replace lower kelly valve on topdrive quill, continue fabricating flowline, replace oiler motor on mud pump, center stack & install turnbuckles, continue general rig preparations, start rig safety inspection | | | | | | | |
| Remarks | | | | | | | |
| Mud Checks | | | | | | | |
| Time | Type | Depth (ftKB) | Density (lb/gal) | Vis (s/qt) | PV Calc (cP) | YP Calc (lb/100ft²) | |
| Gel (10s) (lb/100ft²) | Gel (10m) (lb/100ft²) | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) | Filter Cake (1/32") | pH | Solids (%) | |
| MBT (lb/bbl) | Percent Oil (%) | Percent Water (%) | Chlorides (mg/L) | Calcium (mg/L) | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #<stringno>, <des> | | | | | | | |
| Bit Run | Drill Bit | | IADC Bit Dull | | | TFA (incl Noz) (in²) | |
| Nozzles (1/32") | | | | String Length (ft) | String Wt (1000lbf) | BHA ROP (ft/hr) | |
| Drilling Parameters | | | | | | | |
| Wellbore | Start Depth (ftKB) | End Depth (ftKB) | Cum Depth (ft) | Drilling Time (hr) | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lbf) | RPM (rpm) | SPP (psi) | Drill Str Wt (100... | PU Str Wt (1000... | SO Str Wt (1000... | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|---|-------------------|--------------------------------|------------|
| Start Depth (ftKB) 855.0 | | End Depth (ftKB) 855.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 8.00 | |
| Last Casing String SURFACE 1, 805.0ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) | | Vol/Stk OR (bbl/stk) | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) | | Vol/Stk OR (bbl/stk) | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

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|--|------------------------------------|---|---------------------------------|--|---------------------------|--------------------------------|----------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Cloudy | | Temperature (°F) 61.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time P/U Drill collars | | | | Operations Next Report Period Drlg vertical | | | |
| Operations Summary Continue prep rig F/Drlg operations, conduct rig safety inspection & make all necessary corrections, work W/Welder making repairs on catwalk, attend safety stand down W/Trinidad safety, Rig Managers and rig crews Load & strap Bha, PJSM, P/U Directional tools & drill collars | | | | | | | |
| Remarks Do final prep of rig & start drlg operations | | | | | | | |
| Mud Checks | | | | | | | |
| Time 16:00 | Type Brine | Depth (ftKB) 830.0 | Density (lb/gal) 9.90 | Vis (s/qt) 28 | PV Calc (cP) 1.0 | YP Calc (lb/100ft³) 1.000 | |
| Gel (10s) (lb/100ft³) 0.000 | Gel (10m) (lb/100ft³) 0.000 | Gel (30m) (lb/100ft³) 200.000 | Filtrate (mL/30min) 200.0 | Filter Cake (1/32") | pH 8.0 | Solids (%) 13.0 | |
| MBT (lb/bbl) 0.0 | Percent Oil (%) | Percent Water (%) 87.0 | Chlorides (mg/L) 170,000.000 | Calcium (mg/L) 2,800.000 | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #2, Steerable | | | | | | | |
| Bit Run 2 | Drill Bit 12 1/4in, 616M, 32288 | | | IADC Bit Dull ----- | | TFA (incl Noz) (in²) 2.09 | |
| Nozzles (1/32") 22/22/22/22/20/20 | | | | String Length (ft) 318.74 | String Wt (1000lbf) 29 | BHA ROP (ft/hr) | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 830.0 | End Depth (ftKB) 830.0 | Cum Depth (ft) | Drilling Time (hr) 0.00 | Cum Drill Time (hr) | Int ROP (ft/hr) | Flow Rate (gpm) |
| WOB (1000lbf) | RPM (rpm) | SPP (psi) | Drill Str Wt (100... | PU Str Wt (1000... | SO Str Wt (1000... | Drilling Torque | Off Bottom Torque |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|---|-------------------|--------------------------------|------------|
| Start Depth (ftKB) 830.0 | | End Depth (ftKB) 830.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 9.00 | |
| Last Casing String SURFACE 1, 805.0ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Tim Sepulvado, Rig Manager | | Phone Mobile (318) 602-8578 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.010 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.010 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

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|---|------------------------------------|---|---------------------------------|---|------------------------------|--------------------------------|------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Cloudy | | Temperature (°F) 64.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Drlg | | | | Operations Next Report Period Drlg vertical, displace W/Sprayberry mud, continue drlg to csg point | | | |
| Operations Summary Tag cement @ 787', drlg cement, float collar, shoe trac & shoe Drlg Rotate & slide F/830 to 2219W/Surveys & rig service & pump repairs (Survey @ 2076, inc .8, azm 317.7) | | | | | | | |
| Remarks Drlg vertical | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | Type Brine | Depth (ftKB) 1,308.0 | Density (lb/gal) 9.90 | Vis (s/qt) 28 | PV Calc (cP) 1.0 | YP Calc (lb/100ft²) 1.000 | |
| Gel (10s) (lb/100ft²) | Gel (10m) (lb/100ft²) | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) 200.000 | Filter Cake (1/32") | pH 8.3 | Solids (%) 12.0 | |
| MBT (lb/bbl) 0.0 | Percent Oil (%) | Percent Water (%) | Chlorides (mg/L) 145,000.000 | Calcium (mg/L) | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #2, Steerable | | | | | | | |
| Bit Run 2 | Drill Bit 12 1/4in, 616M, 32288 | | | IADC Bit Dull ----- | | TFA (incl Noz) (in²) 2.09 | |
| Nozzles (1/32") 22/22/22/22/20/20 | | | | String Length (ft) 5,000.00 | String Wt (1000lb) 120 | BHA ROP (ft/hr) 63.2 | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 830.0 | End Depth (ftKB) 2,219.0 | Cum Depth (ft) 1,389.00 | Drilling Time (hr) 14.50 | Cum Drill Time (hr) 14.50 | Int ROP (ft/hr) 95.8 | Flow Rate (gpm) 650 |
| WOB (1000lb) 25 | RPM (rpm) 65 | SPP (psi) 1,435.0 | Drill Str Wt (100... 91 | PU Str Wt (1000... 94 | SO Str Wt (1000... 88 | Drilling Torque 12,000.0 | Off Bottom Torque 4,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (... | T Surf Annulus (... | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|--|-------------------|-------------------------------|------------|
| Start Depth (ftKB) 830.0 | | End Depth (ftKB) 2,219.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 10.00 | |
| Last Casing String SURFACE 1, 805.0ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Corey Howell, Rig Manager | | Phone Mobile 334 449 7075 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

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|--|------------------------------------|---|---------------------------------|---|------------------------------|--------------------------------|------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Cloudy | | Temperature (°F) 65.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Drlg Vertical | | | | Operations Next Report Period Drlg vertical, displace W/Sprayberry mud, continue drlg to csg point | | | |
| Operations Summary Drlg F/2219 to 2309 W/Rig service, re-tq manual I-Bop, Drlg F/2309 to 2491 W/Surveys, Troubleshoot Topdrive blower motors, Drlg F/2491 to 3059 (#2 pump down due to washed module) (Survey @ 2987, inc 10.6, azm 255.2) | | | | | | | |
| Remarks Drlg vertical | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | Type Brine | Depth (ftKB) 2,792.0 | Density (lb/gal) 10.10 | Vis (s/qt) 32 | PV Calc (cP) 4.0 | YP Calc (lb/100ft³) 6.000 | |
| Gel (10s) (lb/100ft²) 4.000 | Gel (10m) (lb/100ft²) 6.000 | Gel (30m) (lb/100ft²) 100.000 | Filtrate (mL/30min) 100.0 | Filter Cake (1/32") 1 | pH 8.4 | Solids (%) 13.0 | |
| MBT (lb/bbl) 0.0 | Percent Oil (%) | Percent Water (%) 87.0 | Chlorides (mg/L) 163,000.000 | Calcium (mg/L) 3,200.000 | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #2, Steerable | | | | | | | |
| Bit Run 2 | Drill Bit 12 1/4in, 616M, 32288 | | | IADC Bit Dull ----- | | TFA (incl Noz) (in²) 2.09 | |
| Nozzles (1/32") 22/22/22/22/20/20 | | | | String Length (ft) 5,000.00 | String Wt (1000lb) 120 | BHA ROP (ft/hr) 63.2 | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 2,219.0 | End Depth (ftKB) 3,059.0 | Cum Depth (ft) 2,229.00 | Drilling Time (hr) 19.00 | Cum Drill Time (hr) 33.50 | Int ROP (ft/hr) 44.2 | Flow Rate (gpm) 413 |
| WOB (1000lb) 25 | RPM (rpm) 70 | SPP (psi) 992.0 | Drill Str Wt (100... 90 | PU Str Wt (1000... 95 | SO Str Wt (1000... 85 | Drilling Torque 6,500.0 | Off Bottom Torque 2,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|--|-------------------|-------------------------------|------------|
| Start Depth (ftKB) 2,219.0 | | End Depth (ftKB) 3,059.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 11.00 | |
| Last Casing String SURFACE 1, 805.0ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Corey Howell, Rig Manager | | Phone Mobile 334 449 7075 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |

Well Name: UNIVERSITY 10 2703H

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|---|------------------------------------|---|-------------------------------|--|------------------------------|--------------------------------|------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Partly cloudy | | Temperature (°F) 67.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Drlg Vertical | | | | Operations Next Report Period Drlg vertical | | | |
| Operations Summary Drlg F/3059 to 3220 W/Pump repairs, Clean mud tanks, displace W/Sprayberry mud , Drlg F/3220 to 3852 W/Surveys (Survey @ 3710, inc 9.5, azm 251.4) | | | | | | | |
| Remarks 10% Silt 30% Dolomite 60% Limestone | | | | | | | |
| Mud Checks | | | | | | | |
| Time 06:00 | Type Water Base | Depth (ft)KB 3,219.0 | Density (lb/gal) 8.90 | Vis (s/qt) 50 | PV Calc (cP) 11.0 | YP Calc (lb/100ft²) 15.000 | |
| Gel (10s) (lb/100ft²) 8.000 | Gel (10m) (lb/100ft²) 15.000 | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) 40.0 | Filter Cake (1/32") 2 | pH 10.5 | Solids (%) 4.0 | |
| MBT (lb/bbl) 2.5 | Percent Oil (%) | Percent Water (%) 96.0 | Chlorides (mg/L) 9,000.000 | Calcium (mg/L) 400.000 | Potassium (mg/L) | Electric Stab (V) | |
| Drill Strings | | | | | | | |
| BHA #2, Steerable | | | | | | | |
| Bit Run 2 | Drill Bit 12 1/4in, 616M, 32288 | | | IADC Bit Dull ----- | | TFA (incl Noz) (in²) 2.09 | |
| Nozzles (1/32") 22/22/22/22/20/20 | | | | String Length (ft) 5,000.00 | String Wt (1000lb) 120 | BHA ROP (ft/hr) 63.2 | |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ftKB) 3,059.0 | End Depth (ftKB) 3,852.0 | Cum Depth (ft) 3,022.00 | Drilling Time (hr) 12.50 | Cum Drill Time (hr) 46.00 | Int ROP (ft/hr) 63.4 | Flow Rate (gpm) 647 |
| WOB (1000lb) 18 | RPM (rpm) 70 | SPP (psi) 1,805.0 | Drill Str Wt (100... 100 | PU Str Wt (1000... 105 | SO Str Wt (1000... 95 | Drilling Torque 12,000.0 | Off Bottom Torque 2,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (...) | T Surf Annulus (...) | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|--|----------|---|------------|
| Start Depth (ftKB) 3,059.0 | | End Depth (ftKB) 3,852.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 12.00 | |
| Last Casing String SURFACE 1, 805.0ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Corey Howell, Rig Manager | | Phone Mobile 334 449 7075 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | | Rod Diameter (in) Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | | Rod Diameter (in) Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |



Daily Drilling Summary

Report Start Date: 4/16/2017
Report #: 17.0, DFS: 1,306.33
Depth Progress: 1,148.00

Well Name: UNIVERSITY 10 2703H

| | | | | | | | |
|---|------------------------------------|---|-----------------------------|---|--------------------------------|--------------------------------|------------------------------|
| API/UWI 4238338225 | | Surface Legal Location S 27, BLK 10, ULS | | Lease Number 756394 | | State/Province Texas | |
| Spud Date 9/18/2013 22:00 | | Rig Release Date | | KB-Ground Distance (ft) 25.00 | | KB-Casing Flange Distance (ft) | |
| Weather Mostly cloudy | | Temperature (°F) 58.0 | | Road Condition Good | | Hole Condition Good | |
| Operations at Report Time Drlg Vertical | | | | Operations Next Report Period Drlg vertical to csg point | | | |
| Operations Summary Drlg F/3852 to 4763 W/Surveys, rig service & rig repairs Lost 151 bbl's drlg fluid @ 4945, current loss rate @ 170 bbl per hr, starting LCM at 4964' (Survey @ 4896, inc 10.2, azm 261.8) | | | | | | | |
| Remarks 90% Silt 10% Sandstone | | | | | | | |
| Mud Checks | | | | | | | |
| Time 18:00 | | Type Water Base | Depth (ft)KB 4,410.0 | Density (lb/gal) 9.20 | Vis (s/qt) 40 | PV Calc (cP) 6.0 | YP Calc (lb/100ft²) 8.000 |
| Gel (10s) (lb/100ft²) 8.000 | | Gel (10m) (lb/100ft²) 17.000 | Gel (30m) (lb/100ft²) | Filtrate (mL/30min) 40.0 | Filter Cake (1/32") 2 | pH 9.5 | Solids (%) 6.0 |
| MBT (lb/bbl) 2.5 | | Percent Oil (%) | Percent Water (%) 94.0 | Chlorides (mg/L) 19,000.000 | Calcium (mg/L) 120.000 | Potassium (mg/L) | Electric Stab (V) |
| Drill Strings | | | | | | | |
| BHA #2, Steerable | | | | | | | |
| Bit Run 2 | Drill Bit 12 1/4in, 616M, 32288 | | | IADC Bit Dull ----- | | TFA (incl Noz) (in²) 2.09 | |
| Nozzles (1/32") 22/22/22/22/20/20 | | | | | String Length (ft) 5,000.00 | String Wt (1000lb) 120 | BHA ROP (ft/hr) 63.2 |
| Drilling Parameters | | | | | | | |
| Wellbore OH | Start Depth (ft)KB 3,852.0 | End Depth (ft)KB 5,000.0 | Cum Depth (ft) 4,170.00 | Drilling Time (hr) 20.00 | Cum Drill Time (hr) 66.00 | Int ROP (ft/hr) 57.4 | Flow Rate (gpm) 476 |
| WOB (1000lb) 18 | RPM (rpm) 70 | SPP (psi) 1,158.0 | Drill Str Wt (100... 100 | PU Str Wt (1000... 105 | SO Str Wt (1000... 90 | Drilling Torque 12,000.0 | Off Bottom Torque 2,500.0 |
| Q Gas Inj (ft³/min) | T Inj (°F) | P BH Ann (psi) | T BH (°F) | P Surf Annulus (... | T Surf Annulus (... | Q Liq Return (gp... | Q Gas Return (ft³... |

| | | | |
|--|-------------------|-------------------------------|------------|
| Start Depth (ftKB) 3,852.0 | | End Depth (ftKB) 5,000.0 | |
| Target Depth (ftKB) 16,302.0 | | Days LTI (days) 13.00 | |
| Last Casing String SURFACE 1, 805.0ftKB | | | |
| Daily Contacts | | | |
| Daily Contacts | | Mobile | |
| Pete Rockholt, Consultant | | (806) 445-5603 | |
| Rigs | | | |
| Contractor Trinidad Drilling | | Rig Number 101 | |
| Rig Supervisor Corey Howell, Rig Manager | | Phone Mobile 334 449 7075 | |
| Mud Pumps | | | |
| # 2 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| # 1 , National Supply , 12-P-160 | | | |
| Pump Rating (hp) 1,600.0 | Rod Diameter (in) | Stroke (in) 12.01 | |
| Liner Size (in) 6 | | Vol/Stk OR (bbl/stk) 0.100 | |
| P (psi) | Slow Spd | Strokes (sp... | Eff (%) |
| Survey Data (last 5 records) | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) |
| | | | |