

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS REPORT**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 6,800  
PVD: 6,800  
LOCATION:  
ELEVATION (RKB):  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE:  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Nov 26 2014 MD: 90 TVD: 90 FOOTAGE: 90 MW: 0.0 LB PTD: 6,800  
RIG SUPERVISOR: Michael Johnson PBTD:  
PRESENT OPERATIONS: Wait on daylight  
Wait on trucks ; Mob rig to new well ; Rig up ; SDFN; Wait f/ daylight  
ACTIVITY PLANNED: Replace bearings on gear ends of pumps

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FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 6,800  
PVD: 6,800  
LOCATION:  
ELEVATION (RKB):  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE:  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Nov 27 2014 MD: 90 TVD: 90 FOOTAGE: MW: 0.0 LB PTD: 6,800  
RIG SUPERVISOR: Michael Johnson PBTD:  
PRESENT OPERATIONS: Pick up BHA  
Set in #2 pump; RU same; change swabs on #2 pump ; Replace 2 main bearings #1 pump; Change gear end oil ; PU BHA  
ACTIVITY PLANNED: Finish PU BHA; NU flowline; Spud well

WELL: University 1-20 #3H

**Elevation Resources**

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FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 6,800  
PVD: 6,800  
LOCATION:  
ELEVATION (RKB):  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Nov 28 2014 MD: 1,000 TVD: 1,000 FOOTAGE: 910 MW: 8.8 LB PTD: 6,800  
RIG SUPERVISOR: Michael Johnson PBTD:  
PRESENT OPERATIONS: Drlg ahead 17 1/2" hole @ 1000'  
PU BHA ; Clean out gear end; Replace guard on #1 pump gear end; Fill w/ oil ; Wait on 6" hose gasket f/ rental trash pump ; Finish PU BHA ; Drlg 17 1/2" hole f/ 90' to 120'; WOB All; RPM 95; MMRPM - 89-112 ; Unplug Flowline ; Drlg 17 1/2" hole f/ 120' to 1000'; WOB All-45k; RPM 95; MMRPM - 112  
ACTIVITY PLANNED: Drlg 17 1/2" hole to CP; Circulate; TOOH; RU & Run 13 3/8" casing; Cement same; W.O.C,

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PMD: 6,800  
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LOCATION:  
ELEVATION (RKB):  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Nov 29 2014 MD: 1,591 TVD: 1,591 FOOTAGE: 591 MW: 8.8 LB PTD: 6,800  
RIG SUPERVISOR: Michael Johnson PBTD:  
PRESENT OPERATIONS: Run 13 3/8" casing  
Drlg 17 1/2" hole f/ 1000' to 1591'; WOB - 20-45k; RPM 95; MMRPM - 112; Diff psi - 250-875 ; Circulate @ C.P.; RU, Run, & RD fluid caliper ; TOO H ; Hold Pre-job Safety meeting w/ casers and rig crew ; RU Casers ; Run 13 3/8" 54.5# J-55 ST&C casing  
ACTIVITY PLANNED: Finish run casing; Circulate; Cement; W.O.C., Cut off casing; Weld on head; NU BOP

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FIELD:	Andrews, South (Devonian)		
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PMD:	6,800		
PVD:	6,800		
LOCATION:			
ELEVATION (RKB):			
API #:	42-003-46625		
SERIAL NO:			
SPUD DATE:	Nov 27 2014		
OBJECTIVE:	Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig		
JOB NAME:	University 1-20 #3H		
CONTRACTOR/RIG#:	Sovereign Drilling/Sovereign/1		

Nov 30 2014	MD: 1,591	TVD: 1,591	FOOTAGE:	MW: 9.6	LB	PTD: 6,800
	RIG SUPERVISOR:	Michael Johnson			PBTD:	
	PRESENT OPERATIONS:	NU BOP				
	Run 37 jts 13 3/8" 54.5# J-55 ST&C casing; Set @ 1591'; Float shoe @ 1589'; Float collar @ 1546'; total of 15 centralizers from 1527' to 83'; Washed down last 3 jts; Note: While washing down last joint, swedge blew off. Caser was straddling 2" hose when it happened, striking him in left knee with hose. Hand stated he did not need any medical attention for bruise he had. ; Circulate casing ; Hold Pre-job safety meeting w/ cementers, rig crew, and Universal Safety Personell ; RU & Cement w/ 900 sx Universal Lite Premium Plus Class C + 2# Gilsonite + 0.25# Celloflake (Yield 1.64 @ 13.7 ppg) tailed by 550 sx Premium Plus Class C + 1% CaCl + 0.25 # Celloflake (Yield 1.33 @ 14.8 ppg); Circulate 130 bbls (445 sx) cement to reserve; Final lift @ 3 bpm - 1000 psi; Floats held ; W.O.C. ; Cut off conductor; Weld on head ; NU BOP					
	ACTIVITY PLANNED:	Test BOP; TIH w/ BHA #2; Drlg out shoe track; Drlg ahead 12 1/4" hole				

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API #: 42-003-46625  
SERIAL NO:  
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JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Dec 1 2014 MD: 2,160 TVD: 2,160 FOOTAGE: 569 MW: 9.6 LB PTD: 6,800  
RIG SUPERVISOR: Michael Johnson PBTD:  
PRESENT OPERATIONS: Drlg ahead 12 1/4" hole @ 2160'  
NU BOP ; Test Blind and Pipe rams, HCR, and choke manifold to 250# low and 2500# high; Test held OK ;  
Install wear bushing ; Load pipe racks, strap BHA ; TIH ; Test casing to 1000#; held OK ; Drlg cement,  
plug, float collar, and float shoe; Tag cement @ 1535' ; Drlg 12 1/4" hole f/ 1591' to 2160'; WOB - 20k;  
RPM 90; MMRPM 112; DPP - 650  
ACTIVITY PLANNED: Drlg ahead 12 1/4" hole taking surveys

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LOCATION:  
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API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Dec 2 2014 MD: 3,305 TVD: 3,305 FOOTAGE: 1,145 MW: 9.9 LB PTD: 6,800  
RIG SUPERVISOR: Michael Johnson PBTD:  
PRESENT OPERATIONS: Drlg ahead 12 1/4" hole @ 3305'  
Drlg 12 1/4 hole f/ 2160' to 2365'; WOB 20-35k; RPM 90; MMRPM 112; DP - 425 ; Defrost air supply line ;  
Drlg 12 1/4 hole f/ 2365' to 3071"; WOB 20k; RPM 90; MMRPM 112; DP - 455 ; Repair air valve on Drillers'  
panel ; Drlg 12 1/4 hole f/ 3071' to 3305'; WOB 20-25k; RPM 90; MMRPM 112; DP - 225  
ACTIVITY PLANNED: Drlg ahead 12 1/4" hole taking surveys

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PMD: 6,800  
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LOCATION:  
ELEVATION (RKB):  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Dec 3 2014 MD: 4,150 TVD: 105 FOOTAGE: 845 MW: 9.9 LB PTD: 6,800  
RIG SUPERVISOR: Michael Johnson PBTD:  
PRESENT OPERATIONS: Drlg ahead @ 4150'  
Drlg 12 1/4' hole f/ 3305' to 3425'; WOB 14-28k; RPM 90; MMRPM 112; DP - 465; Minor seepage noted @ 3400'; Service Rig ; Install rotating head ; Drlg 12 1/4' hole f/ 3425' to 4150'; WOB 14-28k; RPM 72-90; MMRPM 112; DP - 325  
ACTIVITY PLANNED: Drlg ahead 12 1/4' hole taking surveys

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**Elevation Resources**

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COUNTY/STATE: Andrews/Texas  
PMD: 6,800  
PVD: 6,800  
LOCATION:  
ELEVATION (RKB):  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Dec 4 2014 MD: 4,512 TVD: 4,512 FOOTAGE: 362 MW: 9.9 LB PTD: 6,800  
RIG SUPERVISOR: Michael Johnson PBTD:  
PRESENT OPERATIONS: Drlg ahead @ 4512'  
Drlg 12 1/4 hole f/ 4150' to 4222'; WOB - 18-30k; RPM - 90; MMRPM - 112; DP - 350 ; TOO H ; Inspect & LD Scout tool; Same to Bit ; TIH ; Drlg 12 1/4 hole f/ 4222' to 4512'; WOB - 18-30k; RPM - 90; MMRPM - 112; DP - 520  
ACTIVITY PLANNED: Drlg ahead 12 1/4" hole taking surveys

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FIELD: Andrews, South (Devonian)  
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PMD: 6,800  
PVD: 6,800  
LOCATION:  
ELEVATION (RKB):  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Dec 5 2014 MD: 5,200 TVD: 5,200 FOOTAGE: 688 MW: 9.9 LB PTD: 6,800  
RIG SUPERVISOR: Michael Johnson PBTD:  
PRESENT OPERATIONS: Drlg ahead @ 5200'  
Drlg 12 1/4" hole f/ 4512' to 4767'; WOB 25-30k; RPM - 90; MMRPM 112; DP - 475 ; Service Rig ; Drlg 12 1/4" hole f/ 4767' to 5200'; WOB 25-30k; RPM - 80-90; MMRPM 112; DP - 375  
ACTIVITY PLANNED: Drlg ahead 12 1/4" hole taking surveys

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**Elevation Resources**

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FIELD: Andrews, South (Devonian)  
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PMD: 6,800  
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LOCATION:  
ELEVATION (RKB):  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Dec 6 2014 MD: 5,720 TVD: 5,720 FOOTAGE: 520 MW: 9.9 LB PTD: 6,800  
RIG SUPERVISOR: Michael Johnson PBTD:  
PRESENT OPERATIONS: Drlg ahead @ 5720'  
Drlg 12 1/4" hole f/ 5200' to 5431'; WOB - 20-35k; RPM 80-95: MMRPM 112; DP - 325-475 ; Service Rig ;  
Drlg 12 1/4" hole f/ 5431' to 5720'; WOB - 20-35k; RPM 80-95: MMRPM 112; DP - 350-450  
ACTIVITY PLANNED: Drlg ahead 12 1/4" hole taking surveys to CP @ 6800'+/-

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PMD: 6,800  
PVD: 6,800  
LOCATION:  
ELEVATION (RKB):  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Dec 7 2014 MD: 6,440 TVD: 6,440 FOOTAGE: 720 MW: 10.0 LB PTD: 6,800  
RIG SUPERVISOR: Michael Johnson PBTD:  
PRESENT OPERATIONS: Drlg ahead @ 6440'  
Drlg 12 1/4" hole f/ 5720' to 5881'; WOB - 25-35k; RPM 80-95; MMRPM - 112; DP - 425 ; Service rig and power swivel ; Drlg 12 1/4" hole f/ 5881' to 6440'; WOB - 25-35k; RPM 80-95; MMRPM - 112; DP - 380  
ACTIVITY PLANNED: Drlg ahead taking surveys to CP of 6807'

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PMD: 6,800  
PVD: 6,800  
LOCATION:  
ELEVATION (RKB):  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Dec 8 2014 MD: 6,827 TVD: 6,827 FOOTAGE: 387 MW: 10.0 LB PTD: 6,800  
RIG SUPERVISOR: Michael Johnson PBTD:  
PRESENT OPERATIONS: Short Trip 30 joints  
Drlg 12 1/4" hole f/ 6440' to 6637'; WOB 26-38k; RPM 90; MMRPM 112; DP - 375 ; Service Rig; Adjust brakes ; Drlg 12 1/4" hole f/ 6637' to 6827'; WOB 26-38k; RPM 80-85; MMRPM 106; DP - 375 ; Circulate; Pump sweep; RU & Run fluid caliper ; Short trip 30 joints  
ACTIVITY PLANNED: Circulate; TOOH, ru & Run 9 5/8" casing

WELL: University 1-20 #3H

**Elevation Resources**

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FIELD: Andrews, South (Devonian)  
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PMD: 6,800  
PVD: 6,800  
LOCATION:  
ELEVATION (RKB):  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Dec 9 2014 MD: 6,827 TVD: 6,827 FOOTAGE: MW: 10.0 LB PTD: 6,800  
RIG SUPERVISOR: Michael Johnson PBTD:  
PRESENT OPERATIONS: Run 9 5/8" casing  
Finish short trip ; Circulate ; TOO H ; Repair twisted off drive line on unit ; TOO H ; Pull wear bushing ; Hold Pre-job Safety Meeting w/ casers and rig crew ; RU casers & run 9 5/8" casing  
ACTIVITY PLANNED: Finish run 9 5/8" casing; Land casing in wellhead; cement; ND BOP; jet pits

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**Elevation Resources**

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FIELD: Andrews, South (Devonian)  
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PMD: 6,800  
PVD: 6,800  
LOCATION:  
ELEVATION (RKB):  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Dec 10 2014 MD: 6,827 TVD: 6,827 FOOTAGE: MW: 10.0 LB PTD: 6,800

RIG SUPERVISOR: Michael Johnson PBTD:

PRESENT OPERATIONS: Jet pits

Ran 63 jts 9 5/8" 40# HCK-55 LT&C casing. Set @ 6803' to 3969'. Then ran 90 jts 9 5/8" 40# J-55 LT&C casing. Set @ 3969' to surface. Total run 153 jts. Float collar @ 6801'. Float shoe @ 6754'. Ran 44 centralizers f/ 6735' to 1372' Notified RRC @ 08:35 CST; Issued Job # 20,180 ; Circulate casing after landing collar in MBS wellhead ; Hold Pre-job Safety meeting w/ cementers, water haulers, and rig crew. Account for 34 men on location ; RU & Cement w/ 3000 sx Premium Plus 50/50 POZ + 4% STE-1 + 2% CAS-1 + 5# Gilsonite + 0.3% CFL-3 + 0.25# Celloflake + 0.3% CR-1 + 0.1% CD-1 ( Yield 3.2 @ 11.2 ppg) tailed by 375 sx Premium Class H neat (Yield 1.18 @ 15.6 ppg) When tail cement was started, bulk truck packed off. After 45 minutes, 455 bbls of 580 bbl displacement gone, pump truck met with casing burst pressure and had to shut down. Plug estimated left @ 5963'. Floats held OK. Circulate 15 bbls cement then lost all returns ; Install packoff in well head ; ND BOP ; Jet pits

ACTIVITY PLANNED: Finish jet pits; rig down; rig repairs

WELL: University 1-20 #3H

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LOCATION:  
ELEVATION (RKB):  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
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Dec 11 2014 MD: TVD: FOOTAGE: MW: 10.0 LB PTD: 6,800  
RIG SUPERVISOR: Michael Johnson PBTD:  
PRESENT OPERATIONS: Wait on Rig Movement  
Finish jet pits ; Rig Released: Rig down  
ACTIVITY PLANNED: Move Rig

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 9 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 15,630

RIG SUPERVISOR: Jimmy Nobles

PBTD:

PRESENT OPERATIONS: MIRU ON UNIVERSITY 1-20 #3H.

MIRU ICD #208 ON UNIVERSITY 1-20 #3H. 10 LOADS RECEIVED. RAISE SUB & RIGGING UP. CONTINUE R/U ELECTRICAL, AIR LINES, & CONNECTING UP MUD PUMPS & TANKS. SCOPE OUT & RIGGING UP DERRICK. SPOTTED & HOOK UP OFFICE SKID.

SPOTTED & HOOK UP DIRECTIONAL & MUD ENGINEER QUARTERS ON UNIV 1-25 #2H.

ACTIVITY PLANNED: CONTINUE MIRU ON UNIV 1-20 #3H & SET UP MAN CAMP ON UNIV 1-25 #2H.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 1 2015 MD: TVD: FOOTAGE: MW: 9.0 LB PTD: 15,630  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: M/U PHOENIX BHA #6 & RIH TO 6420'. RIG REPAIR ON TOP DRIVE. CONTINUE RIH TO 10,300'.  
P/U PHOENIX BHA #6, SCRIBE, SURFACE TEST, & M/U MDI 611 BIT.;RIH, FILL EVERY 30 STANDS. STOPPED @ 5000' TO FILL PIPE & CHECK TD TORQUE. TOP DRIVE WOULD NOT FUNCTION, UNABLE TO SCREW INTO PIPE. ICD CALLED FOR TECHNICIANS. CONTINUE TO RIH UNTIL TECHNICIANS ARRIVED.;TECHNICIANS TROUBLESHOOT GROUND FAULTS ON TOP DRIVE. FOUND PIGTAIL TO TOP DRIVE TRACTION MOTORS SHORTED OUT. INSTALL NEW PIGTAIL.;CONTINUE RIH TO 10,300'.  
CHECK TORQUE READINGS & WEIGHT INDICATOR READINGS @ 50 RPM:  
6500' - TORQUE 3000 FT/LBS, ROTATING WT 136000, PICK UP 163000, & SLACK OFF 129000.  
8000' - TORQUE 6000 FT/LBS, ROTATING WT 158000, PICK UP 200000, & SLACK OFF 140000.  
10,300' - TORQUE 12000 FT/LBS, ROTATING WT 188000, PICK UP 269000, & SLACK OFF 155000'.  
ACTIVITY PLANNED: INSTALL R/H RUBBER. FINISH RIH & START DRILLING 6 1/8" LATERAL F/ 11,470'.

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Jan 1 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 6,800  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: CONTINUE R/D ON UNIVERSITY 52-7 #2HB, WAITING ON TRUCKS. TRUCKS UNABLE TO GET TO LOCATION DUE TO ICY WEATHER.  
CONTINUE R/D & PREP TO MOVE RIG. WAITING ON TRUCKS, DELAYED BY WEATHER. NO TRUCKS MADE IT TO LOCATION DUE TO ICY CONDITIONS. WAS NOT ABLE TO RELEASE ANY RENTALS.  
ACTIVITY PLANNED: WAIT ON TRUCKS. MOVE ICD #208 TO UNIVERSITY 1-20 # 3H.

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JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Jan 2 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 6,800  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: WAIT ON TRUCKS TO MOVE ICD #208 TO UNIVERSITY 1-20 #3H. ICY WEATHER CONDITIONS.  
CONTINUE TO R/D. WAIT F/ CRANE & TRUCKS TO ARRIVE LOCATION TO START MOVING ICD #208 TO UNIVERSITY 1-20 #3H. DELAY DUE TO ICY CONDITIONS.  
ACTIVITY PLANNED: WAIT F/ RIG MOVERS TO GET CRANE & TRUCKS TO LOCATION TO MOVE ICD #208.

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Jan 3 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 6,800  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: WAIT F/ RIG MOVERS TO GET CRANE & TRUCKS TO LOCATION TO MOVE ICD #208. ICY / FROZEN CONDITIONS. LIGHT SNOW & RAIN MOST OF THE DAY.  
R/D & PERFORM MAINTENANCE ON EQUIP WHILE WAITING FOR RIG MOVERS TO ARRIVE LOCATION WITH CRANE & TRUCKS.  
ACTIVITY PLANNED: WAIT F/ RIG MOVERS TO GET CRANE & TRUCKS TO LOCATION TO MOVE ICD #208.

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**Elevation Resources**

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LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Jan 4 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 6,800  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: WAIT ON CRANE & TRUCKS TO MOVE. INSTALL MUD BOAT TROLLEY & LOWERED DERRICK. BACKHAUL STAGE 3 OBM EQUIP.  
WAIT ON CRANE & RIG MOVING TRUCKS. INSTALL MUD BOAT TROLLEY, LAY DOWN DERRICK. BACKHAUL STAGE 3 OBM EQUIP. THERE ARE ISSUES AT THE UNIV 1-20 #3H LOCATION. WATER STANDING ON LOCATION AND POWER LINES DOWN & LOW HANGING POWER LINES.  
ACTIVITY PLANNED: UNIVERSITY 1-20 #3 LOCATION HAS WATER STANDING & HAS SOME POWER LINES DOWN. WILL DELAY MOVE UNTIL ISSUES ARE RESOLVED.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 6,800  
PVD: 6,800  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian. Preset 2 casing strings with Spudder Rig  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Sovereign Drilling/Sovereign/1

Jan 5 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 6,800  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: MONSTER CRANE, TANDEM, & FORKLIFT ARRIVE LOCATION. FINISH LOWER DERRICK ON 5TH WHEEL. CLEANING CREW CLEAN OBM OFF EQUIP & SPOT IN PREP TO MOVE.  
MONSTER CRANE, TANDEM, & FORKLIFT ON LOCATION. FINISH LOWER DERRICK ON 5TH WHEEL. CLEANING CREW CLEANING OBM OFF EQUIP. SPS BACKHAUL OBM FRAC TANKS & CONTAINMENT. STAGE 3 BACKHAUL CENTRIFUGE. ALL STAGE 3 OBM EQUIPMENT NOW OFF LOCATION.  
ACTIVITY PLANNED: SCOPE IN DERRICK, LOWER SUB & CLEAN. INSTALL & TEST CAMERON TUBING HEADS ON BOTH WELLS. BLADE UNIV 1-20 #3H LOCATION. START MOVE TUESDAY MORNING.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 6 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 15,630

RIG SUPERVISOR: Jimmy Nobles PBTD:

PRESENT OPERATIONS: SCOPED IN DERRICK, R/D, LOWERED SUB & PRESSURE WASHED. INSTALL & TEST TUBING HEAD ON BOTH WELLS.

REMOVED SERVICE LOOP & KELLY HOSE. SCOPED IN DERRICK & MOVED TO SIDE OF LOCATION. REMOVED FEET, SLIDE, & MUD BOAT. LOWERED SUB & PRESSURE WASHED. CAMERON INSTALLED TUBING HEADS & TESTED TO 5000 PSI. WILL START MOVING RIG THIS MORNING TO UNIVERSITY 1-20 #3H.

ACTIVITY PLANNED: MOVE ICD #208 TO UNIVERSITY 1-20 #3H.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 7 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 15,630

RIG SUPERVISOR: Jimmy Nobles PBTD:

PRESENT OPERATIONS: MOVE ICD #208 TO UNIVERSITY 1-20 #3H. C/M TRAILER & 15 LOADS MOVED.

MOVE ICD #208 FROM UNIVERSITY 52-7 #2HB TO UNIVERSITY 1-20 #3H. 15 LOADS MOVED. MOVE C/M TRAILER. SPOTTED SHAKER SKID & SETTLING PITS. SET UP MAN CAMP ON NEARBY LOCATION, ONE RIG CREW TRAILER W/ WATER & SEPTIC SKID SET UP.

ACTIVITY PLANNED: CONTINUE MIRU ICD #208 ON UNIVERSITY 1-20 #3H.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 8 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 15,630

RIG SUPERVISOR: Jimmy Nobles

PBTD:

PRESENT OPERATIONS: MIRU ON UNIVERSITY 1-20 #3H.

MIRU ICD #208 ON UNIVERSITY 1-20 #3H. 17 LOADS RECEIVED. SET VFD & GENS, R/U ELECTRICAL & AIR LINES. SPOT DEISEL TANK & WIRE UP. SET WATER TANK. SET TRIP TANK & RAISE GAS BUSTER. SET MATS F/ SUB & SET SUB OVER WELL.

ACTIVITY PLANNED: CONTINUE MIRU ON UNIV 1-20 #3H & SET UP MAN CAMP ON UNIV 1-25 #2H.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 10 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 15,630

RIG SUPERVISOR: Jimmy Nobles

PBTD:

PRESENT OPERATIONS: MIRU ON UNIVERSITY 1-20 #3H.

MIRU ICD #208 ON UNIVERSITY 1-20 #3H. RUN NEW AIR HOIST CABLES. PUT FEET ON SUB. RAISE DRILLERS' HOUSE. RAISE DERRICK. POWER UP W/ MAIN GENERATOR. SPOT CATWALK. HOOK UP GAS BUSTER LINES.

ACTIVITY PLANNED: CONTINUE MIRU ICD #208 ON UNIVERSITY 1-20 #3H.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 11 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 15,630

RIG SUPERVISOR: Jimmy Nobles

PBTD:

PRESENT OPERATIONS: MIRU ON UNIVERSITY 1-20 #3H.

MIRU ON UNIVERSITY 1-20 #3. FINISH PLUGGING IN SUITCASE F/ VFD TO MUD PUMPS. HOOK UP RIG HPU, GROUND EQUIP. BRAKES WOULD NOT RELEASE ON DRWKS DUE TO COLD. WARM W/ LAMPS. SPOOL UP AIR HOIST, CHANGE PRIMING PUMP ON # 3 ENGINE. BEGIN RUNNING EQUIP ON PITS & BACKYARD. RUN POWER TO PREMIX PIT. SET SILO IN PLACE. SPOOL UP DRILL LINE ON DRWKS.

ACTIVITY PLANNED: R/U ON UNIVERSITY 1-20 #3H.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 12 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 15,630  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: ALL EQUIP MOVED, 66 LOADS. CONTINUE R/U. HANG TRACK & TOP DRIVE IN DERRICK & R/U, INSTALL & R/U ST80. FAB CUTTINGS TROUGH F/ SHAKERS. N/U FLARE LINE. FUNCTION TEST EQUIP.  
INSTALL TRACK & TOP DRIVE IN DERRICK. SET ST 80 ON FLOOR. R/U TOP DRIVE & ST 80. MAKE UP KELLY HOSE & SERVICE LOOP. FUNCTION TEST TOP DRIVE, IRON ROUGHNECK, CATWALK, & MUD PUMPS. INSTALL SAVER SUB, BALES & ELEVATORS. CALIBRATE BLOCK HEIGHT. PREFORM PRE SPUD CHECK LIST. ACCEPT RIG TO OPERATE @ 0000 HRS.;R/U PVC PIPE F/ SHAKERS TO RESERVE. N/U FLARE LINE. FINISH PRE SPUD CHECK LIST. FILL PITS W/ WATER, PRIME PUMPS & PRESSURE TEST LINES TO 1,000 PSI. FINISH R/U RIG FLOOR.  
ACTIVITY PLANNED: NIPPLE UP & TEST BOP'S.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 13 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 15,630

RIG SUPERVISOR: Jimmy Nobles PBTD:

PRESENT OPERATIONS: NIPPLE UP BOP'S, CHOKE MANIFOLD, & PRESSURE TEST. N/U ROTATING HEAD & FLOWLINE. INSTALL PVC PIPE TO RES PITS.

NIPPLE UP BOP'S & CHOKE MANIFOLD. CONNECT CONTROL HOSES.;FUNCTION TEST BOP'S.;PRESSURE TEST BOP'S. RAMS 250/3000 PSI, ANNULAR 250/1500 PSI, HCR 250/300 PSI, MANIFOLD 250/3000 PSI, KELLY VALVES 250/3000 PSI, SAFETY VALVES 250/3000 PSI, KELLY HOSE & MUD LINES 250/4000 PSI. ALL TEST HELD 5 MINS LOW & 10 MINS HIGH. BLIND RAMS & CASING 1000 PSI.;M/U FLOWLINE ON ORBIT VALVE.

ACTIVITY PLANNED: SET WEAR BUSHING. P/U RR TRICONE & SLICK BHA & RIH PICKING UP DRILL PIPE TO DRILL OUT CEMENT.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 14 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 15,630  
RIG SUPERVISOR: Jimmy Nobles / David Crow PBTD:  
PRESENT OPERATIONS: N/U FLOWLINE, INSTALL TURN BUCKLES, SET WEAR BUSHING, PU & MU CLEAN OUT BHA, TIH WITH BHA, REPAIR FLOW-LINE, CONT TIH, DRILL CEMENT F5616-6000FT.  
N/U FLOWLINE TO CUTTER ROTATING HEAD, INSTALL DIFFERENT FLANGE ON FLOWLINE TO MATCH ORBIT VALVE FLANGE, CHANGE OUT WASHED SECTION IN HP MUD LINE, CENTER BOP'S & INSTALL TURN BUCKLES.;INSTALL WEAR BUSHING, ADJUST TURN BUCKLES.;PU & MU CLEAN OUT BHA, (1) RR SMITH FH21 (6) 7 INCH DC'S & (9) 5 INCH HWDP, TOTAL BHA=469.80FT.;TIH WITH CLEAN OUT BHA, TAG UP AT 3366FT.;FILL STRING & BREAK CIRCULATION, FLOW-LINE LEAKING.;REPAIR AIR BLADDER ON FLOW-LINE.;CONTINUE TIH, CEMENT STRINGERS OFF & ON F3366-5616FT.;DRILL CEMENT F5616-6000FT.  
ACTIVITY PLANNED: FINISH DRILLING CEMENT & TOOLS, CIR HOLE CLEAN, DROP GYRO, TOO, LD CLEAN OUT BHA, PU DIR BHA, TIH.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 15 2015 MD: 6,965 TVD: 6,965 FOOTAGE: 138 MW: 0.0 LB PTD: 15,630  
RIG SUPERVISOR: David Crow PBTD:  
PRESENT OPERATIONS: DRILL CEMENT F6000-6825FT, CIR HOLE CLEAN, DROP GYRO, TOO H,  
LD CLEAN OUT BHA & GYRO, PU & MU DIR BHA #1, TIH WTH BHA #1,  
DRILL & SURVEY 8 3/4 HOLE F6825-6965FT.  
DRILL CEMENT F6000-6825FT.;CIRCULATE HOLE CLEAN, DROP GYRO, MAKE READY TO  
TOOH.;TOOH.;LD CLEAN OUT BHA, REMOVE GYRO, RIG DOWN & RELEASE PHOENIX GYRO  
SERVICES.;PU, MU, SCRIBE, ORIENTATE & SURFACE TEST DIRECTIONAL BHA #1.;RIG SERVICE &  
DERRICK INSPECTION.;TIH WITH DIRECTIONAL BHA #1.;DRILL & SURVEY 8 3/4 HOLE WHILE  
SLIDING & ROTATING F6825-6965FT, WOB=15-30K, STK'S=120, GPM=500, DH RPM=75, TD RPM=30-  
60, TOTAL RPM=135, DPP=1900-2100.  
"SPUD THE UNIVERSITY 1-20 #3H AT 04.00 ON 1/15/15";REPLACE O-RING ON STAND-PIPE.  
ACTIVITY PLANNED: DRILL TOWARD KOP.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 16 2015 MD: 8,125 TVD: 8,121 FOOTAGE: 1,160 MW: 8.7 LB PTD: 15,630  
RIG SUPERVISOR: David Crow PBTD:  
PRESENT OPERATIONS: FINISH STAND-PIPE REPAIR, DRILL & SURVEY 8 3/4 HOLE F6965-8000FT, TOOH LOOKING FOR WASHOUT, FIND WASHOUT, X-OUT BAD JT, TIH,DRILL & SURVEY 8 3/4 HOLE F8000-8125FT.  
REPAIR STAND-PIPE O-RING.;DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F6965-8000FT, WOB=15-35K, STK'S=140, GPM=585, DH RPM=90, TD RPM=30-70, TOTAL RPM=160, DPP=1900-2900.;AFTER SEEING 800 PSI PRESSURE DROP CHECK SURFACE EQUIPMENT & MAKE READY TO TOOH.;TOOH LOOKING FOR WASHOUT.;FIND CRACKED / WASHED TUBE ON STAND 36 TOP JT, X-OUT BAD JT, KELLY UP ON STRING & CHECK PRESSURE, RE-GAIN ORIGINAL PRESSURE, MAKE READY TO TIH.;TIH.;DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F8000-8125FT, WOB=15-35K, STK'S=140, GPM=585, DH RPM=90, TD RPM=30-70, TOTAL RPM=160, DPP=2100-3000.  
ACTIVITY PLANNED: DRILL TOWARD KOP.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 17 2015 MD: 9,190 TVD: 9,186 FOOTAGE: 1,065 MW: 8.7 LB PTD: 15,630  
RIG SUPERVISOR: David Crow PBTD:  
PRESENT OPERATIONS: DRILL & SURVEY 8 3/4 HOLE F8125-8785FT, X-OUT STAND PIPE LINE, DRILL & SURVEY 8 3/4 HOLE F8785-9190FT, WORK TIGHT HOLE, SHORT TRIP.  
DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F8125-8785FT, WOB=25-40K, STK'S=140, GPM=585, DH RPM=90, TD RPM=30-70, TOTAL RPM=160, DPP=2100-3000.;REPLACE PUMP END STAND PIPE SECTION WITH VIBRATING HOSE DUE TOO WASH OUT, BREAK CIRCULATION, WORK TIGHT HOLE, PUMP SWEEP, CIRCULATE & ROTATE ON BOTTOM FOR 15 MIN.;DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F8785-9190FT, WOB=25-40K, STK'S=140, GPM=585, DH RPM=90, TD RPM=30-70, TOTAL RPM=160, DPP=2100-3000.  
"BEGIN MUD UP AT 9100FT DUE TO HOLE CONDITIONS";ATTEMPT TO MAKE SHORT TRIP, WORK TIGHT HOLE F9140-9000FT, SHORT TRIP 20 STANDS.  
ACTIVITY PLANNED: FINISH SHORT TRIP, WASH & REAM TO BOTTOM, DRILL TOWARD KOP.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
 COUNTY/STATE: Andrews/Texas  
 PMD: 15,630  
 PVD: 11,100  
 LOCATION:  
 ELEVATION (RKB): 3,155  
 API #: 42-003-46625  
 SERIAL NO:  
 SPUD DATE: Nov 27 2014  
 OBJECTIVE: Drill and complete horizontal devonian.  
 JOB NAME: University 1-20 #3H  
 CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 18 2015 MD: 9,900 TVD: 9,896 FOOTAGE: 710 MW: 8.7 LB PTD: 15,630  
 RIG SUPERVISOR: David Crow PBTD:  
 PRESENT OPERATIONS: FINISH TOO H TO CSG SHOE, CIR & CONDITION MUD, TIH, WASH & REAM F8750-9190FT, DRILL & SURVEY 8 3/4 HOLE F9190-9900FT.  
 FINISH SHORT TRIP TO CSG SHOE.;CIRCULATE AT CSG SHOE WHILE CONDITIONING MUD.;TIH "NO TAG OR FILL UP TO 8750FT";PRECAUTIONARY WASH & REAM F8750-9190FT, TAKE SURVEY, MAKE READY TO DRILL AHEAD.;DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F9190-9505FT, WOB=25-40K, STK'S=140, GPM=585, DH RPM=90, TD RPM=30-70, TOTAL RPM=160, DPP=2100-3000.;RIG SERVICE & DERRICK INSPECTION.;DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F9505-9900FT, WOB=25-40K, STK'S=140, GPM=585, DH RPM=90, TD RPM=30-70, TOTAL RPM=160, DPP=2100-3000.  
 ACTIVITY PLANNED: REACH KOP, CIR HOLE CLEAN, TOO H, PU CURVE ASSEMBLY.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 19 2015 MD: 10,446 TVD: 10,442 FOOTAGE: 546 MW: 8.7 LB PTD: 15,630  
RIG SUPERVISOR: David Crow PBTD:  
PRESENT OPERATIONS: DRILL & SURVEY 8 3/4 HOLE F9900-9950FT, WASH & REAM RATTY HOLE F9900-9950FT, DRILL & SURVEY 8 3/4 HOLE F9950-10446FT, CIR HOLE CLEAN, BACK REAM F10446-8946FT, X-OUT HYD WRENCH DIES, TOOH.  
DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F9900-9955FT, WOB=25-40K, STK'S=140, GPM=585, DH RPM=90, TD RPM=30-70, TOTAL RPM=160, DPP=2100-3000.;WASH & REAM RATTY HOLE F9900-9955FT.;DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F9955-10446FT, WOB=25-40K, STK'S=150, GPM=628, DH RPM=95, TD RPM=30-70, TOTAL RPM=165, DPP=2900-3500.  
"REACH KOP (10446FT) AT 16.30 ON 1/18/15";PUMP 100 BBL 100 VIS SWEEP, CIRCULATE & ROTATE ON BOTTOM FOR 3.5 HOURS.;BACK REAM F10446-8946FT.;X-OUT DIE BLOCKS & DIES ON TOP DRIVE HYD WRENCH.;TOOH.  
ACTIVITY PLANNED: FINISH TOOH, LD BHA #1, PU CURVE BHA #2, TIH, BEGIN DRILLING CURVE.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 20 2015 MD: 10,590 TVD: 10,585 FOOTAGE: 144 MW: 8.8 LB PTD: 15,630  
RIG SUPERVISOR: David Crow PBTD:  
PRESENT OPERATIONS: FINISH TOOH, LD BHA #1, PU BHA #2, TIH WITH BHA #2, CIR OUT TRIP GAS, INSTALL ROTATING RUBBER, WASH & REAM F10000-10446FT, DRILL & SURVEY 8 3/4 HOLE F10446-10590FT.  
FINISH TOOH.;LD BHA #1.;PU, MU, SCRIBE, ORIENTATE & SURFACE TEST BHA #2.;TIH WITH BHA #2.;STOP AT CSG SHOE TO CHECK CALIBRATION OF BLOCK & STRING WEIGHTS, FIND HORSE HEAD HAD 4 WRAPS OF LINE, SENSOR IS FACTORY SET FOR 3 WRAPS, UN-STRING & RE-WRAP HEAD, RE-CALIBRATE DRAW-WORKS, WEIGHT INDICATOR WORKING CORRECTLY.;FINISH TIH.;WELL CONTROL DRILL WITH NEW EQUIPMENT & PERSONNEL, CIRCULATE SMALL AMOUNT OF TRIP GAS THROUGH CHOKE, INSTALL ROTATING RUBBER, MAKE READY TO CONTINUE TIH.;FINISH TIH.;PRECAUTIONARY WASH & REAM F10000-10446FT.;DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING F10446-10590FT, WOB=25-40K, STK'S=140, GPM=585, DH RPM=170, TD RPM=0, TOTAL RPM=170, DPP=2000-2500.  
ACTIVITY PLANNED: DRILL CURVE.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 21 2015 MD: 10,815 TVD: 10,796 FOOTAGE: 225 MW: 8.8 LB PTD: 15,630

RIG SUPERVISOR: David Crow

PBTD:

PRESENT OPERATIONS: DRILL & SURVEY 8 3/4 HOLE F10590-10815FT, WORK TIGHT HOLE, INDUCE KICK, WORK STUCK PIPE, WORK STRING FREE, BACKREAM OUT OF HOLE.

DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING F10590-10815FT, WOB=25-40K, STK'S=140, GPM=585, DH RPM=170, TD RPM=0, TOTAL RPM=170, DPP=2000-2500.;MOTOR STALLED OUT WHILE FINISHING SLIDE, WORK TIGHT HOLE, PUMP 30 BBL'S OF DIESEL / INDUCE KICK, CONTINUE WORKING TIGHT HOLE, WELL PACKED OFF, MOTOR STALLED / NO ROTATION, BEGIN WORKING STUCK PIPE WHILE WAITING ON FISHERMAN & FREE-POINT TRUCK.

FISHERMAN & TOOLS ON LOCATION AT 18.00 ON 1/20/15.

HES FREE-POINT TRUCK ON LOCATION AT 21.00 ON 1/20/15.

WELL STARTED FLOWING AT 21.30 ON 1/20/15, KICK PUMPS ON & BEGIN CIRCULATING BOTTOMS UP, WELL UNLOADING, BEGIN ROTATING PIPE, WORK STRING FREE.;BACK REAM OUT OF HOLE.;X-OUT 2 WASHED JT'S.;CONTINUE BACK REAM OUT OF HOLE.

ACTIVITY PLANNED: FINISH RACK REAM OUT OF HOLE, LD BHA #2 MUD MOTOR, WAIT ON ORDERS.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 22 2015 MD: 10,815 TVD: 10,796 FOOTAGE: MW: 9.0 LB PTD: 15,630  
RIG SUPERVISOR: David Crow PBTD:  
PRESENT OPERATIONS: BACK REAM OUT OF HOLE, BEGIN TOO H AT 9050FT, LD BHA #2, PU CLEAN OUT BHA, TIH WITH CLEAN OUT BHA, WASH & REAM F9910-10815FT, CIR ON BOTTOM WHILE COND MUD.  
BACK REAM OUT OF HOLE.;BEGIN TOO H AT 9050FT.;LD BHA #2.;RIG SERVICE & DERRICK INSPECTION, WHILE WAITING ON CLEAN OUT MUD MOTOR.;PU & MU CLEAN OUT ASSEMBLY.;TIH WITH CLEAN OUT ASSEMBLY.;STOP AT CSG SHOE, INSTALL ROTATING RUBBER, CALIBRATE BLOCKS & STRING WEIGHT.;CONTINUE TIH.;WASH & REAM F9910-10815FT.;PUMP 100 BBL HIGH VIS DIESEL SWEEP.  
CIRCULATE & ROTATE ON BOTTOM WHILE CONDITIONING MUD.  
ACTIVITY PLANNED: FINISH COND MUD, TOO H, PU & MU CURVE ASSEMBLY, TIH, DRILL CURVE.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD:	Andrews, South (Devonian)
COUNTY/STATE	Andrews/Texas
PMD:	15,630
PVD:	11,100
LOCATION:	
ELEVATION (RKB):	3,155
API #:	42-003-46625
SERIAL NO:	
SPUD DATE:	Nov 27 2014
OBJECTIVE:	Drill and complete horizontal devonian.
JOB NAME:	University 1-20 #3H
CONTRACTOR/RIG#:	Independence Contract Drilling/ICD/208

Jan 23 2015	MD: 10,815	TVD: 10,796	FOOTAGE:	MW: 9.0	LB	PTD: 15,630
	RIG SUPERVISOR:	David Crow				PBTD:
	PRESENT OPERATIONS:	CIR ON BOTTOM, BACKREAM F10815-8790FT, TOO H, LD CLEAN OUT BHA, PU DIR BHA #4, TIH WITH BHA #4, SLIP & CUT DRILL LINE, CON TIH, WASH & REAM F9790-10200FT.				
		ROTATE & CIRCULATE ON BOTTOM WHILE CONDITIONING MUD.;BACKREAM OUT OF HOLE F10815-8790FT.;TOOH.;STOP AT CSG SHOE, PULL ROTATING RUBBER & PUMP SLUG.;FINISH TOO H.;LD CLEAN OUT BHA.;PU, MU, SCRIBE, ORIENTATE & SURFACE TEST BHA #4.;TIH TO CSG SHOE.;SLIP & CUT 150FT OF 1 3/8 DRILLING LINE.;CONTINUE TIH.;WASH & REAM F9790-10200FT.				
	ACTIVITY PLANNED:	FINISH WASH & REAM TO BOTTOM, FINISH DRILLING CURVE.				

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 24 2015 MD: 11,330 TVD: 11,115 FOOTAGE: 515 MW: 9.0 LB PTD: 15,630

RIG SUPERVISOR: David Crow

PBTD:

PRESENT OPERATIONS: FINISH WASH & REAM TO BOTTOM, DRILL & SURVEY 8 3/4 HOLE F10815-11330FT.

WASH & REAM F10200-10815FT, TAKE SURVEY, MAKE READY TO DRILL AHEAD.;DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING F10815-11330FT, WOB=25-40K, STK'S=140, GPM=585, DH RPM=170, TD RPM=20-30, TOTAL RPM=200, DPP=2000-2500.

ACTIVITY PLANNED: FINISH DRILLING CURVE, PREP WELL TO RUN CSG.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 25 2015 MD: 11,470 TVD: 11,085 FOOTAGE: 140 MW: 9.0 LB PTD: 15,630  
RIG SUPERVISOR: David Crow PBTD:  
PRESENT OPERATIONS: DRILL & SURVEY 8 3/4 HOLE F11330-11470FT, TD 11470FT, PUMP SWEEP & CIR HOLE CLEAN, SHORT TRIP, PUMP SWEEP & CIR HOLE CLEAN, PUMP OUT OF HOLE, TOOH AT 8870FT.  
DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F11330-11470FT, WOB=25-40K, STK'S=140, GPM=585, DH RPM=170, TD RPM=20-30, TOTAL RPM=200, DPP=2000-2500.  
"RELEASE MUD LOGGERS AT 12.00 ON 1/24/15"  
"TD (11470FT) THE 2ND INTEREMDIATE SECTION OF THE UNIVERSITY 1-20 #3H AT 13.30 ON 1/24/15";PUMP 100 BBL 100 VIS SWEEP, CIRCULATE & ROTATE ON BOTTOM FOR 4 HOURS.;SHORT TRIP / PUMP OUT OF HOLE 17 STANDS.;PUMP 100 BBL 100 VIS SWEEP, CIRCULATE & ROTATE ON BOTTOM FOR 3 HOURS.;PUMP OUT OF HOLE.;BEGIN TOOH AT 8870FT.  
ACTIVITY PLANNED: FINISH TOOH, RIG UP & RUN 2ND INTERMEDIATE CSG.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD:	Andrews, South (Devonian)
COUNTY/STATE	Andrews/Texas
PMD:	15,630
PVD:	11,100
LOCATION:	
ELEVATION (RKB):	3,155
API #:	42-003-46625
SERIAL NO:	
SPUD DATE:	Nov 27 2014
OBJECTIVE:	Drill and complete horizontal devonian.
JOB NAME:	University 1-20 #3H
CONTRACTOR/RIG#:	Independence Contract Drilling/ICD/208

Jan 26 2015	MD: 11,470	TVD: 11,155	FOOTAGE:	MW: 9.0	LB	PTD: 15,630
	RIG SUPERVISOR:	David Crow				PBTD:
	PRESENT OPERATIONS:	FINISH TOO, LD BHA #4, MAKE READY TO RUN CSG, RIG UP & RUN 2ND INTERMEDIATE CSG.				
		FINISH TOO.				
		"NOTIFIED TRRC OF RECENT TD, UP-COMING CSG RUN & CEMENT JOB AT 05.00 ON 1/25/15 VIA AUDREY OPERATOR #2";LD BHA #4.;PULL WEAR BUSHING, INSTALL 7 INCH CSG RAMS, READY RIG FLOOR TO RUN CSG.;MOVE IN & SPOT / RIG UP CSG CREW, HOLD PJSM WITH SAME.;RUN 260 JT'S OF 7 INCH, 26#, P-110, LT&C, 2ND INTERMEDIATE CSG, FLOAT SHOE AT=11458FT, FLOAT JOINT=43.58FT, FLOAT COLLAR AT=11411FT.				
		"1 STANDARD BOW-SPRING CENTRALIZER EVERY 4TH JOINT F10003-6822FT"				
	ACTIVITY PLANNED:	CURRENTLY RUNNING CSG AT 7600FT, FINISH CSG RUN, LAND CSG ON MANDREL, RIG DOWN CSG CREW, RIG UP CEMENT CREW.				

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD:	Andrews, South (Devonian)
COUNTY/STATE	Andrews/Texas
PMD:	15,630
PVD:	11,100
LOCATION:	
ELEVATION (RKB):	3,155
API #:	42-003-46625
SERIAL NO:	
SPUD DATE:	Nov 27 2014
OBJECTIVE:	Drill and complete horizontal devonian.
JOB NAME:	University 1-20 #3H
CONTRACTOR/RIG#:	Independence Contract Drilling/ICD/208

Jan 27 2015	MD:	TVD:	FOOTAGE:	MW: 9.0	LB	PTD: 15,630
	RIG SUPERVISOR:	David Crow				PBTD:
	PRESENT OPERATIONS:	ATTEMPT TO FINISH CSG RUN, SET CSG HIGH AT 10940FT, RIG DOWN CSG CREW, RIG UP CEMENT CREW, CEMENT 2ND INTERMEDIATE CSG, RIG DOWN CEMENT CREW, ND BOP, SET SLIPS, NU BOP.				
		ATTEMPT TO FINISH CSG RUN, TAG UP AT 8770FT, WASH & WORK CSG F8770-10940FT, MAKE DECISION TO CEMENT PIPE AT 10940FT / 45-47 DEGREE'S, ORIGINAL CSG SETTING DEPTH WAS TO BE 11458FT, PIPE SET OFF BOTTOM=530FT, CIRCULATE BOTTOMS UP.;RIG DOWN & RELEASE CSG CREW.;FINISH CEMENT CREW RIG UP, HOLD PJSM WITH SAME.;PSI TEST PUMP & LINES TO 5000 PSI, FOLLOWED BY 20 BBL'S OF FRESH WATER SPACER, START & FINISH 270 BBL'S OR 605 SKS OF 11.8#, 2.49 YIELD LEAD CEMENT, START & FINISH 45 BBL'S OR 200 SKS OF 14.4#, 1.27 YIELD TAIL CEMENT, SHUT DOWN & DROP PLUG, DISPLACE 417 BBL'S OF FRESH WATER, BUMP PLUG WITH 2000 PSI, WALK PRESSURE UP TO 2700 PSI, CHECK FLOAT, BLEED BACK 2 BBL'S, PLUG DOWN & HOLDING AT 22.30 ON 1/26/14.				
		"0 BBL'S OF GOOD CEMENT TO SURFACE"				
		LEAD=605 SKS, 10% GEL, 5% SALT, 5# GILSONITE, .4% CFL-3, .2% CR-1 TAIL=200 SKS, 2% GEL, 5% SALT, 5# GILSONITE, .4% CFL-3, .1% CR-1;RIG DOWN & RELEASE CEMENT CREW.;ND BOP.;DROP IN SLIPS, SET SAME WITH 130K, MAKE ROUGH CUT & FINAL GRIND, INSTALL BIT GUIDE, RIG DOWN & RELEASE CAMERON;NU BOP & FLOW-LINE.				
	ACTIVITY PLANNED:	FINISH BOP NU, TEST FLANGE BREAK, LD 5 INCH DP, PU 4 INCH TOOLS & DP.				

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 28 2015 MD: TVD: FOOTAGE: MW: 9.0 LB PTD: 15,630  
RIG SUPERVISOR: David Crow / Jimmy Nobles PBTD:  
PRESENT OPERATIONS: FINISH BOP NU, TEST BOP, LD 5 INCH DP. N/U FLOWLINE. R/U RIG FLOOR F/ 4" TUBULARS, CHANGE OUT SAVER SUB. P/U PHOENIX BHA #5.  
FINISH NU BOP.;MOVE IN & SPOT / RIG UP TESTER, HOLD PJSM WITH SAME, PU & MU CSG PACKER.TEST BOP & FLANGE BREAK & BONNET TO 250 PSI FOR A 10 MIN LOW TEST & 5000 PSI FOR A 10 MIN HIGH TEST, RIG DOWN & RELEASE TESTER.;LD 5 INCH DP F/ MOUSEHOLE.;N/U FLOWLINE. RIG UP FLOOR TO HANDLE 4" TUBULARS. CHANGE OUT SAVER SUB ON TOP DRIVE & INSTALL CORROSION RING. CHANGE OUT HYD HOSE ON ST80. LAY OUT & STRAP 4" DP ON RACKS.;P/U PHOENIX BHA #5, SCRIBE, & SURFACE TEST.  
ACTIVITY PLANNED: FINISH P/U PHOENIX BHA #5 & SURFACE TEST. P/U 4" DP F/ RACKS & RIH. DRILL OUT CMT, FC, SHOE.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 29 2015 MD: 11,470 TVD: 11,085 FOOTAGE: MW: 9.0 LB PTD: 15,630  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: SURFACE TEST MWD, M/U BIT, RIH PICKING UP 4" DP. TAG @ 10,850'.  
DRILL OUT CMT 10,850' TO 10,940'. WASH & REAM RATHOLE 10,940'  
TO 11,018'.  
SURFACE TEST MWD TOOL & M/U BIT #8.;RIH PICKING UP 4" DP OFF RACKS TO 6403'.;SERVICE  
RIG.;CONTINUE P/U 4: DP, TAG @ 10,850'.;DRILL OUT CMT, PLUG, FC & SHOE F/ 10,850' TO  
10,940'. SHOE @ 10,940'. WOB 5-12K, TD 25 RPM, 200 GPM, PP 1350 PSI, MOTOR 52 RPM. TOP  
DRIVE TORQUE 14-15K FT/LBS IN CASING BEFORE START DRILLING CEMENT. P/U WEIGHT  
282,000#, ROTATING WEIGHT 198,000#, SLACK OFF WEIGHT 150,000#.;WASH & REAM RATHOLE F/  
10,940' TO 11,018'. TD 25 RPM, 270 GPM, PP 1500 PSI, MOTOR 70 RPM,TORQUE 15K FT/LBS.  
MOTOR STALLING & HOLE PACKING OFF F/ 10,990' TO 11,018'. WORK PIPE, WASH & REREAM  
10,950' TO 11,018'. MW 9.0 PPG. ASKED ICD TO BRING OUT TECH TO CHECK THE TOP DRIVE  
TORQUE READING.  
ACTIVITY PLANNED: FINISH WASH & REAM RATHOLE TO 11,470'. TAG BOTTOM. CIRC,  
TOOH F/ NEW BHA & PDC BIT.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 30 2015 MD: TVD: FOOTAGE: MW: 9.0 LB PTD: 15,630  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: WASH & REAM RATHOLE F/ 11,018' TO 11,470'. SWEEP & CIRC CLEAN. TOOH INSIDE SHOE. WORK ON TOP DRIVE.  
WASH & REAM RATHOLE F/ 11,018' TO 11,470'. TD 25 RPM, 270 GPM, PP 1500 PSI, MOTOR 70 RPM, TORQUE 15K FT/LBS. ICD TECH CHECKED THE TOP DRIVE TORQUE READINGS.; PUMP SWEEP & CIRC WHILE ICD TECHS TROUBLESHOOT TOP DRIVE TORQUE MISREADINGS. USED TORQUE CYLINDER & DETERMINED THAT TORQUE VALUE SHOWING IS AT LEAST 3500 FT/LBS HIGH.; TOOH TO 10,350', INSIDE CSG & IN VERTICAL HOLE. CHECK TOP DRIVE TORQUE @ 50 RPM = 13,500 FT/LBS.; RIG REPAIR. 2 ICD TECHS & 1 OMRON TECH WORKING ON TOP DRIVE TORQUE MISREADINGS. CHANGE OUT ENCODER ON TOP DRIVE, DID NOT FIX PROBLEM. CONTINUE TROUBLESHOOT OMRON CONTROL SYSTEM. CHECK WIRING & CHANGE OUT ONE PLUG. HAVE LOST CHANNEL "A".  
ACTIVITY PLANNED: REPAIR OMRON CONTROL SYSTEM MISREADINGS. TOOH TO CHANGE BHA & P/U PDC BIT.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Jan 31 2015 MD: TVD: FOOTAGE: MW: 9.1 LB PTD: 15,630  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: RIG REPAIR. WORK ON OMRON CONTROL SYSTEM, TOP DRIVE TORQUE MISREADINGS. TOO H TO CHANGE BHA & BIT.  
RIG REPAIR. WORKING ON TOP DRIVE TORQUE MISREADINGS. 6 TECHS TROUBLESHOOT OMRON CONTROL SYSTEM. CHANGED OUT ONE BAD PLUG. RUN NEW CABLE. TECHS SAY THE SYSTEM NOW WORKING RIGHT BUT STILL HAVE 14,600 FT/LBS TURNING PIPE @ 10,350'. CHECKED AGAINST A TORQUE CYLINDER & TOP DRIVE TORQUE & CYLINDER READINGS MATCHED UP.;TOO H TO CHANGE BHA & BIT. CHECK TORQUE @ 8000' = 6100 FT/LBS, @ 5000' = 1650 FT/LBS. BREAK OFF BIT & L/D MOTOR.  
ACTIVITY PLANNED: P/U NEW BHA & RIH & START DRILLING LATERAL.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 2 2015 MD: 11,527 TVD: 11,086 FOOTAGE: 57 MW: 9.0 LB PTD: 15,630  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: INSTALL R/H, RIH TO 11,370'. WASH & REAM 11,370' TO 11,470'. DRILL F/ 11,470' TO 11,527'. PROBLEM W/ MOTOR STALLING OUT. TOO. P/U NEW MOTOR, BIT & RIH.  
INSTALL ROTATING HEAD.;RIH F/ 10,300' TO 11,370'.;WASH & REAM F/ 11,370' TO 11,470'. 230 GPM, PP 1400 PSI, TD 60 RPM, MOTOR 120 RPM, TORQUE 12-14K FT/LBS.;DRILL (SLIDE & ROTATE) F/ 11,470' TO 11,527'. WOB 14-23K, 230 GPM, PP 1400 PSI, DIFF 150-650 PSI, TD 60-70 RPM, MOTOR 120 RPM, TORQUE 13-15K FT/LBS. ROP WENT DOWN TO 6 FT/HR. MOTOR STALLED, NOT ABLE TO GET BIT BACK ON BOTTOM WITHOUT THE MOTOR STALLING OUT.;WORK PIPE WHILE ROTATING AND ATTEMPT TO WORK BIT BACK ON BOTTOM. MOTOR STALLS EVERY TIME NEAR BOTTOM. CAN NOT GET BACK TO BOTTOM.;ATTEMPT TO MAKE A SLIDE BUT MOTOR STALLING OUT. MIX & PUMP SLUG.;TOOH. BIT IN BAD SHAPE. L/D STABS & MOTOR.;P/U NEW 1.5 DEG MOTOR, SCRIBE & SURFACE TEST. M/U U613M & TORQUE BUSTER.;SERICE RIG.;RIH W/ BHA #7.  
ACTIVITY PLANNED: INSTALL ROTATING HEAD. FINISH RIH, WASH & REAM LAST STD TO BOTTOM, DRILL AHEAD IN LATERAL.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 3 2015	MD:	TVD:	FOOTAGE:	MW: 9.0	LB	PTD: 15,630
	RIG SUPERVISOR:	Jimmy Nobles			PBTD:	
	PRESENT OPERATIONS:	DRILL F/ 11527' TO 11,606'. 60% CHERT @ 11,595', 90% CHERT @ 11,600'. TOOH, P/U INSERT BIT & RIH TO 10,800'. REMOVE TRIP NIPPLE & INSTALL R/H.				
	ACTIVITY PLANNED:	REMOVE TRIP NIPPLE & INSTALL ROTATING HEAD.;RIH F/ 10,800' TO 11,470'.;REAM F/ 11,470' TO 11,527'. 230 GPM, TD 60 RPM, MOTOR 120 RPM, PP 1600 PSI, TORQUE 14-17K FT/LBS.;DRILL (SLIDE & ROTATE) F/ 11527' TO 11,606'. WOB 17-30K, 230 GPM, TD 50-60 RPM, MOTOR 120 RPM, TORQUE 14-18K FT/LBS. MUD LOGGERS REPORTING 60% CHERT @ 11,595', 90% CHERT & 10% LIMESTONE @ 11,600'. ROP DOWN TO ZERO & PROBLEMS W/ MOTOR STALLING. (SWEEP HOLE W/ BEADS TO HELP W/ TOP DRIVE TORQUE). MIX & PUMP SLUG.;TOOH TO P/U INSERT BIT.;SERVICE RIG.;TOOH, BREAK OFF BIT & L/D MOTOR. PDC CUTTERS ON BIT WERE MOSTLY WORN FLAT BUT BIT WAS NOT TORN UP.;M/U BHA #8, SURFACE TEST, M/U HUGHES STX-50 DX ROLLER CONE INSERT BIT, P/U STABILIZERS.;RIH W/ BHA #8 TO 10,800'.;REMOVE TRIP NIPPLE & INSTALL ROTATING HEAD.				
	ACTIVITY PLANNED:	SLIP & CUT DRILL LINE. RIH & CONTINUE DRILLING LATERAL.				

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 4 2015 MD: 11,801 TVD: 11,080 FOOTAGE: 195 MW: 9.2 LB PTD: 15,630  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: SLIP & CUT DRILL LINE. RIH F/ 10,800' TO 11,350'. REAM F/ 11,350' TO 11,606'. DRILL F/ 11,606' TO 11,801'. TOOH.  
SLIP & CUT DRILL LINE.;RIH F/ 10,800' TO 11,350'. STARTED TAKING WEIGHT.;WASH & REAM F/ 11,350' TO 11,606'. 210 GPM, TD 40 RPM, MOTOR 109 RPM, PP 1250 PSI, TORQUE 13-17K.;DRILL (SLIDE & ROTATE) F/ 11,606' TO 11,801'. WOB 15-27K, 210 GPM, PP 1400 PSI, TD 30-40 RPM, MOTOR 110 RPM, TORQUE 15-18K. MOTOR & TOP DRIVE STALLED OUT @ 11,801', PICK UP OFF BOTTOM & TRY TO WORK BACK TO BOTTOM, NEGATIVE. STALL OUT MOTOR & TOP DRIVE EVERY TIME BIT NEAR BOTTOM. MUD LOGGERS LAST SAMPLE 60% CHERT 40% LIMESTONE.;TOOH TO CHANGE OUT BIT & MOTOR.  
ACTIVITY PLANNED: TOOH, CHANGE OUT BIT & MOTOR. RIH CONTINUE DRILL LATERAL. INSTALL SUN DRILLING PRODUCTS BEAD RECOVERY UNIT.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 5 2015 MD: 11,801 TVD: 11,080 FOOTAGE: MW: 9.2 LB PTD: 15,630  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: TOOH TO 7500'. RIG REPAIR, WORK ON TOP DRIVE. TOOH. LEFT 3 CONES IN HOLE. WAIT ON FISHING TOOLS. M/U TOOLS & RIH TO 5600'. VALVE LEAKING BY. TOOH TO 2103' TO REPAIR VALVE.  
TOOH TO 7500'. TOP DRIVE WENT INTO GROUND FAULT.;RIG REPAIR. ELECTRICIANS WORK ON TOP DRIVE GROUND FAULT. (SUN DRILLING PRODUCTS INSTALLING BEAD RECOVERY SYSTEM).;TOOH TO CHANGE OUT BIT & MOTOR. BIT MISSING ALL 3 CONES.;ORGANIZE & WAIT F/ FISHING TOOLS & FISHING HAND. (CAVINS JUNK SNATCHER & JUNK BASKET).;MAKE UP JUNK BASKET & JUNK SNATCHER TOOL, RIH TO 2103'. P/U HYDROSTATIC CONTROL VALVE @ 2103'. CONTINUE RIH TO 5600'. MUD STARTED U TUBING OUT OF PIPE WHILE RUNNING IN.;TOOH BACK TO THE HYDROSTATIC CONTROL VALVE TO REPAIR THE VALVE.  
ACTIVITY PLANNED: TOOH TO 2103', REPAIR HYDROSTATIC CONTROL VALVE, RIH & RECOVER JUNK.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 6 2015 MD: 11,801 TVD: 11,080 FOOTAGE: MW: 9.2 LB PTD: 15,630

RIG SUPERVISOR: Jimmy Nobles PBTD:

PRESENT OPERATIONS: TRIP BACK TO HYDROSTATIC CONTROL VALVE, REPAIR VALVE, RIH HYD VALVE STARTED LEAKING BEFORE GOT TO BTM. WORK JUNK BASKET & TOO. RECOVER ONE PIECE OF METAL.

START TOO. TO REPAIR HYDROSTATIC CONTROL VALVE @ 2100'. PIPE PULLING DRY, CAVINS FISHING HAND DECIDED TO CONTINUE IN HOLE.;RIH TO 8,000'. MUD STARTED U TUBING OUT OF PIPE AGAIN. HYDROSTATIC CONTROL VALVE LEAKING.;TOO. TO HYDROSTATIC CONTROL VALVE @ 2100'.;CAVINS FISHING HAND REPAIRING HYDROSTATIC CONTROL VALVE.;RIH, FILL PIPE EVERY 15 STANDS. LEAVE LAST 60 STDS VOID F/ HYDROSTATIC DIFF. HDY VALVE STARTED LEAKING @ 10,095'. CONTINUE IN HOLE BUT NOT GETTING DISPLACEMENT VOLUME BACK. FLUID LEVEL IN ANNULUS WENT DOWN.;WORK TOOL BUT LIMITED SURGE PRESSURE DUE TO HDY VALVE LEAKING & FILLING STRING F/ 10,095'.;TOO. ONE PIECE OF METAL ABOUT SIZE OF A SILVER DOLLAR IN JUNK F/ BASKET. ALSO HAD CHUNKS OF SHALE IN BASKET AND ABOUT 3-4 FT OF DRILL PIPE WAS PACKED OFF SOLID WITH FINE CUTTINGS.;CAVINS TOOK HYDROSTATIC VALVE TO SHOP TO INSPECT & REPAIR. THEY ARE SHIPPING ANOTHER VALVE FROM LOUISIANA.

ACTIVITY PLANNED: CAVINS REPAIR HYD BAILER VALVE IN SHOP. SHIPPING ANOTHER HDY VALVE F/ LOUISIANA.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 7 2015 MD: 11,801 TVD: 11,080 FOOTAGE: MW: 9.2 LB PTD: 15,630

RIG SUPERVISOR: Jimmy Nobles PBTD:

PRESENT OPERATIONS: RIH W/ FISHING MAGNET. WORK MAGNET ON BOTTOM. TOO H W/ MAGNET. RECOVERED 3 LARGE PIECES OF JUNK. RIH W/ MAGNET.

CLEAN OUT JUNK BASKET & CUTTINGS OUT OF BOTTOM OF PIPE.;M/U & RIH W/ CAGLE 6" OD FISHING MAGNET.

(CAVINS IS SHIPPING A HYDROSTATIC CONTROL VALVE F/ LOUISIANA TO LOCATION).;WASH TO BOTTOM & WORK FISHING MAGNET.;TOOH W/ CAGLE FISHING MAGNET. RECOVER 3 LARGE PIECES OF JUNK.;RIH W/ CAGLE FISHING MAGNET. RUN #2.

ACTIVITY PLANNED: FINISH RIH W/ CAGLE MAGNET, WORK MAGNET ON BOTTOM & TOO H.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 8 2015 MD: 11,801 TVD: 11,080 FOOTAGE: MW: 9.2 LB PTD: 15,630  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: WORK FISHING MAGNET ON BOTTOM. TOO H & RECOVER JUNK F/ MAGNET. RIH W/ MILL. WORK MILL, SWEEP HOLE & CIRC. TOO H.  
RIH W/ MAGNET TO 11,801';WORK MAGNET ON BOTTOM.;TOOH W/ FISHING MAGNET. RECOVERED PIECE OF 3RD CONE. RECOVERED PIECES OF OTHER 2 CONES ON RUN#1. HAD SOME FINE PIECES OF METAL ON MAGNET ALSO.;SERVICE RIG.;M/U CAGLE CONCAVE JUNK MILL & RIH.;WORK MILL.. PUMP 100 BBL HI VIS SWEEP & CIRC OUT.;TOOH W/ MILL TO P/U PHOENIX DIR BHA #9.  
ACTIVITY PLANNED: FINISH TOO H. M/U PHOENIX BHA #9.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 9 2015 MD: 11,822 TVD: 11,076 FOOTAGE: 21 MW: 9.2 LB PTD: 15,630  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: TOOH W/ MILL, M/U PHOENIX BHA #9 & RIH TO SHOE. SLIP & CUT DRILL LINE. RIH, DRILL F/ 11,801' TO 11,822'.  
FINISH TOOH W/ CAGLE MILL. MILL IN PRETTY GOOD SHAPE.;M/U PHOENEIX BHA #9, SURFACE TEST. M/U SMITH XR68Y W/ ENHANCEMENT. (MOTOR .26 RPG, 1.5 FIXED).;RIH W/ BHA #9 TO 10,817'.;REMOVE TRIP NIPPLE & INSTALL ROTATING HEAD.;SLIP & CUT DRILL LINE & SERVICE RIG.;RIG REPAIR. TROUBLESHOOT & REPAIR ELECTRICAL PROBLEM ON TOP DRIVE. FOUND A BARE WIRE ON POWER LEAD TO BLOWER MOTOR. WRAP BARE WIRE & FUNCTION TEST.;FINISH RIH TO 11,795'. REAM 11,795' TO 11,801'.;BREAK IN BIT & DRILL F/ 11,801' TO 11,822', WOB 23K, 210 GPM, PP 1500 PSI, DIFF 50-200 PSI, TD 40 RPM, MOTOR 55 RPM, TORQUE 9,500 FT/LBS. RUNNING 2 PPB BEADS TO REDUCE TORQUE. MW 9.2 PPG.  
ACTIVITY PLANNED: CONTINUE DRILLING 6 1/8" LATERAL.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 10 2015 MD: 11,979 TVD: 11,074 FOOTAGE: 157 MW: 9.1 LB PTD: 15,630

RIG SUPERVISOR: Jimmy Nobles

PBTD:

PRESENT OPERATIONS: DRILL F/ 11,822' TO 11,979'. TOO H F/ BIT CHANGE.

DRILL F/ 11,822' TO 11,979', WOB 24K, 210 GPM, PP 1500 PSI, DIFF 50-200 PSI, TD 30-40 RPM, MOTOR 55 RPM, TORQUE 10-14K. RUNNING 2 PPB BEADS TO REDUCE TORQUE. MW 9.1 PPG.;TOOH TO SHOE.;REMOVE R/H & INSTALL TRIP NIPPLE.;TOOH F/ BIT CHANGE.

ACTIVITY PLANNED: FINISH TOO H, CHANGE OUT BIT & MOTOR. RIH W/ TRICONE BIT & CONTINUE DRILL LATERAL.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 11 2015 MD: 12,120 TVD: 11,070 FOOTAGE: 141 MW: 9.1 LB PTD: 15,630

RIG SUPERVISOR: Jimmy Nobles

PBTD:

PRESENT OPERATIONS: FINISH TOO. M/U BHA #10 & RIH TO SHOE. INSTALL R/H. RIH, DRILL F/ 11,979' TO 12,120'.

TOOH, BREAK OFF BIT & L/D MOTOR. BIT IN GOOD SHAPE.;M/U PHOENIX BHA #10, SURFACE TEST & M/U HUGHES STX-66 TRICONE. 1.5 DEG FIXED MOTOR .26 REV/GAL.;RIH TO SHOE.;REMOVE TRIP NIPPLE & INSTALL R/H.;RIH TO 11,970'. WASH F/ 11,970' TO 11,979';BREAK IN BIT. DRILL F/ 11,979' TO 12,120'. WOB 25K, 210 GPM, PP 1500 PSI, DIF 25-200 PSI, TD 30 RPM, MOTOR 55 RPM, TORQUE 12-13K FT/LBS.

MAINTAIN BEADS @ ABOUT 2PPB TO REDUCE TORQUE. 60% CHERT 40% LS @ 12,110'.

ACTIVITY PLANNED: CONTINUE DRILLING LATERAL. BIT TRIP.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 12 2015 MD: 12,249 TVD: 11,058 FOOTAGE: 129 MW: 9.1 LB PTD: 15,630

RIG SUPERVISOR: Jimmy Nobles

PBTD:

PRESENT OPERATIONS: DRILL F/ 12,120' TO 12,249'. TOO H F/ BIT CHANGE. RIH W/ PHOENIX BHA #11.

DRILL F/ 12,120' TO 12,249'. WOB 25K, 210 GPM, PP 1500 PSI, DIF 25-200 PSI, TD 30-35 RPM, MOTOR 55 RPM, TORQUE 13-14K FT/LBS.

MAINTAIN BEADS @ ABOUT 2PPB TO REDUCE TORQUE. 60% CHERT 40% LS @ 12,240'. ROP GOING DOWN & HAD SOME DIFF SPIKES. PUMP SLUG.;TOOH TO CHANGE BIT & MOTOR. BIT IN BAD SHAPE.;RIG SERVICE.;M/U BHA # 11 & SURFACE TEST. M/U SMITH XR68Y TRICONE.;RIH W/ BHA #11.

ACTIVITY PLANNED: FINISH RIH, CONTINUE DRILL LATERAL.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 13 2015 MD: 12,475 TVD: 11,041 FOOTAGE: 226 MW: 9.2 LB PTD: 15,630

RIG SUPERVISOR: Jimmy Nobles

PBTD:

PRESENT OPERATIONS: RIH W/ BHA #11. DRILL F/ 12,249' TO 12,475'.

RIH TO 10,800'.;REMOVE TRIP NIPPLE & INSTALL R/H.;RIH F/ 10,800' TO 12,230'. WASH DN TO 12,240'.;REAM F/ 12,240' TO 12,249'. 210 GPM, TD 30 RPM, MOTOR 55 RPM, PP 1500 PSI, TORQUE 8 -10K FT/LBS.;BREAK IN BIT. DRILL F/ 12,249' TO 12,475', WOB 25K, 210 GPM, TD 30-40 RPM, MOTOR 55 RPM, PP 1450, DIFF 50-200 PSI, TORQUE 11-21K FT/LBS. MAINTAIN ABOUT 2 PPB BEADS TO HELP W/ TORQUE. MW 9.2 PPG. SAMPLE @ 12,240' 55% CHERT 45% LIMESTONE.

ACTIVITY PLANNED: CONTINUE DRILLING LATERAL. BIT TRIP.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD:	Andrews, South (Devonian)
COUNTY/STATE	Andrews/Texas
PMD:	15,630
PVD:	11,100
LOCATION:	
ELEVATION (RKB):	3,155
API #:	42-003-46625
SERIAL NO:	
SPUD DATE:	Nov 27 2014
OBJECTIVE:	Drill and complete horizontal devonian.
JOB NAME:	University 1-20 #3H
CONTRACTOR/RIG#:	Independence Contract Drilling/ICD/208

Feb 14 2015	MD: 12,505	TVD: 11,041	FOOTAGE: 30	MW: 9.2	LB	PTD: 15,630
	RIG SUPERVISOR:	Jimmy Nobles / David Crow				PBTD:
	PRESENT OPERATIONS:	DRILL F/ 12,475' TO 12,482'. TOO H F/ BIT CHANGE, LD BHA #11, PU BHA #12, TIH WITH BHA #12, DRILL & SURVEY 6 1/8 HOLE F12482-12505FT.				
		BREAK IN BIT. DRILL F/ 12,475' TO 12,482', WOB 25K, 210 GPM, TD 30-40 RPM, MOTOR 55 RPM, PP 1450, DIFF 50-200 PSI, TORQUE 11-12K FT/LBS.				
		MAINTAIN ABOUT 2 PPB BEADS TO HELP W/ TORQUE. MW 9.2 PPG. SAMPLE @ 12,240' 55% CHERT 45% LIMESTONE. ROP ON STEADY DECLINE. PUMP SLUG.;TOOH TO SHOE.;REMOVE R/H & INSTALL TRIP NIPPLE.;TOOH F/ BIT CHANGE.;LD BHA #11, BIT IN GOOD SHAPE, PU & MU BHA #12 & NEW SMITH XR68Y, SURFACE TEST, FIND TOP MONEL LEAKING, X-OUT SAME, RE-TEST BHA #12.;RIG SERVICE & DERRICK INSPECTION, X-OUT SAVER SUB, INSPECT CORROSION RING.;TIH WITH BHA #12.;WASH LAST STAND TO BOTTOM, TAKE SURVEY MAKE READY TO DRILL AHEAD.;DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F12482-12505FT, WOB=10-25K, STK'S=50, GPM=210, DH RPM=55, TD RPM=20-40, TOTAL RPM=95, TDT-10000-11000, DPP=1350-1500.				
		SAMPLE FROM 12450FT=55% CHERT, 45% LIMESTONE.				
	ACTIVITY PLANNED:	DRILL AHEAD IN LATERAL, POSSIBLE BIT TRIP.				

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 15 2015 MD: 12,754 TVD: 11,015 FOOTAGE: 249 MW: 9.2 LB PTD: 15,630

RIG SUPERVISOR: David Crow PBTD:

PRESENT OPERATIONS: DRILL & SURVEY 6 1/8 HOLE F12505-12512FT, RE-LOG, DRILL & SURVEY 6 1/8 HOLE F12512-12754FT, PUMP SLUG, TOOH.

DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F12505-12512FT, WOB=10-25K, STK'S=50, GPM=210, DH RPM=55, TD RPM=20-40, TOTAL RPM=95, TDT=10000-11000, DPP=1350-1500.

12505FT=60% CHERT, 40% LIMESTONE.;RE-LOG FOR GAMA F12482-12512FT.;DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F12512-12733FT, WOB=10-25K, STK'S=50, GPM=210, DH RPM=55, TD RPM=20-40, TOTAL RPM=95, TDT=10000-12000, DPP=1350-1500.

12550FT=80% CHERT, 20% LIMESTONE.

12570FT=85% CHERT, 15% LIMESTONE.

12590FT=85% CHERT, 15 LIMESTONE.

12610FT=70% CHERT, 20% SHALE, 10% LIMESTONE.

12640FT=80% CHERT, 20% LIMESTONE.

12670FT=80% CHERT, 20% LIMESTONE.

12690FT=85% CHERT, 20% LIMESTONE.;RIG SERVICE & DERRICK INSPECTION.;DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F12733-12754FT, WOB=10-25K, STK'S=50, GPM=210, DH RPM=55, TD RPM=20-40, TOTAL RPM=95, TDT=10500-13000, DPP=1350-1500.

12740FT=75% CHERT, 25% LIMESTONE.;PUMP SLUG, MAKE READY TO TOOH DUE TO HOURS ON BIT.;TOOH.

ACTIVITY PLANNED: FINISH TOOH, X-OUT BIT & MUD MOTOR, TIH, DRILL TOWARD TD.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD:	Andrews, South (Devonian)
COUNTY/STATE	Andrews/Texas
PMD:	15,630
PVD:	11,100
LOCATION:	
ELEVATION (RKB):	3,155
API #:	42-003-46625
SERIAL NO:	
SPUD DATE:	Nov 27 2014
OBJECTIVE:	Drill and complete horizontal devonian.
JOB NAME:	University 1-20 #3H
CONTRACTOR/RIG#:	Independence Contract Drilling/ICD/208

Feb 16 2015	MD: 12,830	TVD: 11,011	FOOTAGE: 76	MW: 9.2	LB	PTD: 15,630
	RIG SUPERVISOR:	David Crow				PBTD:
	PRESENT OPERATIONS:	TOOH, LD BHA #12, PU & MU BHA #13, TIH WITH BHA #13, DRILL & SURVEY 6 1/8 HOLE F12754-12830FT.				
		TOOH.;LD BHA #12, PU, MU SCRIBE, ORIENTATE & SURFACE TEST BHA #13, FIND AGITATOR NOT WORKING, LD SAME, MAKE READY TO TIH.;RIG SERVICE & DERRICK INSPECTION.;TIH WITH BHA #13.;TAKE CHECK SHOT, MAKE READY TO DRILL AHEAD.;DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F12754-12830FT, WOB=10-25K, STK'S=50, GPM=210, DH RPM=55, TD RPM=20-40, TOTAL RPM=95, TDT=10500-13000, DPP=1350-1500.				
		12770FT=80% CHERT, 20% LIMESTONE. 12800FT=85% CHERT, 15% LIMESTONE.				
	ACTIVITY PLANNED:	DRILL TOWARD TD.				

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 17 2015 MD: 13,103 TVD: 10,989 FOOTAGE: 273 MW: 9.2 LB PTD: 15,630

RIG SUPERVISOR: David Crow

PBTD:

PRESENT OPERATIONS: DRILL & SURVEY 6 1/8 HOLE F12830-13103FT, TOO H, LD BHA #13 TRI-CONE, INSPECT TOOLS, PU & MU BHA #14 & PDC.

DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F12830-13103FT, WOB=10-25K, STK'S=50, GPM=210, DH RPM=55, TD RPM=20-40, TOTAL RPM=95, TDT=11000-15000, DPP=1350-1500.

12830FT=85% CHERT, 15% LIMESTONE.

12845FT=80% CHERT, 20% LIMESTONE.

12875FT=60% CHERT, 40% LIMESTONE.

12900FT=65% CHERT, 35% LIMESTONE.

12910FT=70% CHERT, 30% LIMESTONE.

12950FT=90% LIMESTONE, 10% CHERT.

13000FT=95% LIMESTONE, 5% CHERT.

13040FT=95% LIMESTONE, 5% CHERT.

13070FT=90% LIMESTONE, 10% CHERT.

13085FT=95% LIMESTONE, 5% CHERT.;PUMP SLUG & MAKE READY TO TOO H.;TOO H.;LD BHA #13 TRI-CONE, INSPECT TOOLS, PU, MU, SCRIBE, ORIENTATE & SURFACE TEST BHA #14.

ACTIVITY PLANNED: TIH, DRILL AHEAD IN LATERAL WITH PDC.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD:	Andrews, South (Devonian)
COUNTY/STATE	Andrews/Texas
PMD:	15,630
PVD:	11,100
LOCATION:	
ELEVATION (RKB):	3,155
API #:	42-003-46625
SERIAL NO:	
SPUD DATE:	Nov 27 2014
OBJECTIVE:	Drill and complete horizontal devonian.
JOB NAME:	University 1-20 #3H
CONTRACTOR/RIG#:	Independence Contract Drilling/ICD/208

Feb 18 2015	MD: 13,365	TVD: 10,972	FOOTAGE: 262	MW: 9.2	LB	PTD: 15,630
	RIG SUPERVISOR:	David Crow				PBTD:
	PRESENT OPERATIONS:	FINISH MU & TEST BHA #14, TIH WITH BHA #14, STOP AT CSG SHOE SLIP & CUT DRILLING LINE, FINISH TIH, DRILL & SURVEY 6 1/8 HOLE F13103-13365FT.				
		FINISH MU & TEST BHA #14.;TIH WITH BHA #14.;STOP AT CSG SHOE, SLIP & CUT 120FT OF 1 3/8 DRILLING LINE.;CONTINUE TIH.;DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F13103-13291FT, WOB=10-25K, STK'S=55, GPM=230, DH RPM=65, TD RPM=20-45, TOTAL RPM=110, TDT=11000-15000, DPP=1350-1500.				
		13100FT=95% LIMESTONE, 5% CHERT. 13130FT=95% LIMESTONE, 5% CHERT. 13160FT=90% LIMESTONE, 10% CHERT. 13250FT=95% LIMESTONE, 5% CHERT.;RIG SERVICE & DERRICK INSPECTION.;DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F13291-13365FT, WOB=10-25K, STK'S=55, GPM=230, DH RPM=65, TD RPM=20-45, TOTAL RPM=110, TDT=11000-15000, DPP=1350-1500.				
		13280FT=95% LIMESTONE, 5% CHERT. 13340FT=90% LIMESTONE, 10% CHERT.				
	ACTIVITY PLANNED:	DRILL TOWARD TD.				

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 19 2015 MD: 13,840 TVD: 10,952 FOOTAGE: 475 MW: 9.2 LB PTD: 15,630

RIG SUPERVISOR: David Crow

PBTD:

PRESENT OPERATIONS: DRILL & SURVEY 6 1/8 HOLE F13365-13840FT.

DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F13365-13475FT, WOB=10-25K, STK'S=55, GPM=230, DH RPM=65, TD RPM=20-45, TOTAL RPM=110, TDT=11000-15000, DPP=1350-1500.

13400FT=90% LIMESTONE, 10% CHERT.

13430FT=85% LIMESTONE, 15% CHERT.

13460FT=90% LIMESTONE, 10% CHERT.;RIG SERVICE & DERRICK INSPECTION.;DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F13475-13840FT, WOB=10-25K, STK'S=55, GPM=230, DH RPM=65, TD RPM=0-70, TOTAL RPM=135, TDT=11000-15000, DPP=1450-1750.

13560FT=100% LIMESTONE.

13650FT=100% LIMESTONE.

13760FT=100% LIMESTONE.

13790FT=95%, 5% CHERT.

ACTIVITY PLANNED: DRILL TOWARD TD.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 20 2015 MD: 14,440 TVD: 10,942 FOOTAGE: 600 MW: 9.2 LB PTD: 15,630  
RIG SUPERVISOR: David Crow PBTD:  
PRESENT OPERATIONS: DRILL & SURVEY 6 1/8 HOLE F13840-14440FT.  
DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F13840-14330FT, WOB=10-30K, STK'S=55, GPM=230, DH RPM=65, TD RPM=0-70, TOTAL RPM=135, TDT=11000-15000, DPP=1450-1750.  
13850FT=100% LIMESTONE, TRACE CHERT.  
13940FT=100% LIMESTONE.  
13970FT=100% LIMESTONE.  
14090FT=100% LIMESTONE, TRACE CHERT.  
14180FT=100% LIMESTONE.  
14270FT=100% LIMESTONE.;RIG SERVICE & DERRICK INSPECTION.;DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F14330-14440FT, WOB=10-30K, STK'S=55, GPM=230, DH RPM=65, TD RPM=0-70, TOTAL RPM=135, TDT=11000-15000, DPP=1450-1750.  
14390FT=100% LIMESTONE.  
ACTIVITY PLANNED: DRILL TOWARD TD.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 21 2015 MD: 15,075 TVD: 10,934 FOOTAGE: 635 MW: 9.2 LB PTD: 15,630  
RIG SUPERVISOR: David Crow PBTD:  
PRESENT OPERATIONS: DRILL & SURVEY 6 1/8 HOLE F14440-15075FT.  
DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F14440-14990FT, WOB=10-30K, STK'S=55, GPM=230, DH RPM=65, TD RPM=0-70, TOTAL RPM=135, TDT=11000-15000, DPP=1500-1850.  
14450FT=100% LIMESTONE.  
14540FT=100% LIMESTONE.  
14630FT=100% LIMESTONE.  
14780FT=100% LIMESTONE.  
14870FT=100% LIMESTONE.  
14960FT=100% LIMESTONE.;RIG SERVICE & DERRICK INSPECTION.;DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F14990-15075FT, WOB=10-30K, STK'S=55, GPM=230, DH RPM=65, TD RPM=0-70, TOTAL RPM=135, TDT=11000-15000, DPP=1500-1900.  
15020FT=100% LIMESTONE.  
ACTIVITY PLANNED: DRILL TOWARD TD.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 22 2015 MD: 15,605 TVD: 10,917 FOOTAGE: 530 MW: 9.2 LB PTD: 15,630

RIG SUPERVISOR: David Crow

PBTD:

PRESENT OPERATIONS: DRILL & SURVEY 6 1/8 HOLE F15075-15605FT, TD (15605FT) PUMP SWEEP, CIR & CONDITION HOLE FOR CSG RUN.

DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F15075-15275FT, WOB=10-30K, STK'S=55, GPM=230, DH RPM=65, TD RPM=0-70, TOTAL RPM=135, TDT=11000-15000, DPP=1500-1900.

15075FT=100% LIMESTONE.

15110FT=100% LIMESTONE.

15200FT=100% LIMESTONE.

"MAN CAMP ON CITY POWER AT 10.00 ON 2/20/15. RELEASE MAN CAMP GENERATOR & FUEL TANK AT 08.00 ON 2/21/15";RIG SERVICE & DERRICK INSPECTION.;DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F15275-15605FT, WOB=10-30K, STK'S=55, GPM=230, DH RPM=65, TD RPM=0-70, TOTAL RPM=135, TDT=11000-15000, DPP=1500-1900.

15300FT=100% LIMESTONE.

15410FT=100% LIMESTONE.

15530FT=100% LIMESTONE.

15605FT=100% LIMESTONE.

"TD (15605FT) THE PRODUCTION SECTION OF THE UNIVERSITY 1-20 #3H AT 02.30 ON 2/22/15";PUMP 100 BBL, 100 VIS SWEEP, CIRCULATE & ROTATE ON BOTTOM FOR 6 HOURS.

ACTIVITY PLANNED: FINISH CONDITION HOLE, SHORT TRIP, CONDITION HOLE, TOOH, LD DIR TOOLS.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 23 2015 MD: 15,605 TVD: FOOTAGE: MW: 9.2 LB PTD: 15,630

RIG SUPERVISOR: David Crow

PBTD:

PRESENT OPERATIONS: FINISH COND HOLE, SHORT TRIP 34 STANDS, PUMP SWEEP, COND HOLE FOR 6 HR'S, TOO, RIG REPAIR, CONTINUE TOO, LD DIR BHA. FINISH CONDITION HOLE.

"NOTIFY THE TRRC OF UP-COMING CSG RUN & CEMENT JOB AT 08.00 ON 2/22/15 VIA DAPHENE OPERATOR #5";SHORT TRIP 34 STANDS (NO DRAG) TIH WITH SAME (NO TAG / NO FILL);PUMP 100 BBL, 100 VIS SWEEP, CONDITION HOLE FOR 6 HOURS.

"RELEASE MUD LOGGERS AT 18.00 ON 2/22/15";PUMP SLUG, TOO.;REPLACE BROKEN HOSE ON ST-80.;CONTINUE TOO UNDER ICY CONDITIONS.;LD DIRECTIONAL BHA #14.

ACTIVITY PLANNED: RIG UP CSG CREW, RUN 4 1/2 CSG / LINER, CEMENT LINER, LD DP.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD:	Andrews, South (Devonian)
COUNTY/STATE	Andrews/Texas
PMD:	15,630
PVD:	11,100
LOCATION:	
ELEVATION (RKB):	3,155
API #:	42-003-46625
SERIAL NO:	
SPUD DATE:	Nov 27 2014
OBJECTIVE:	Drill and complete horizontal devonian.
JOB NAME:	University 1-20 #3H
CONTRACTOR/RIG#:	Independence Contract Drilling/ICD/208

Feb 24 2015	MD: 15,605	TVD: 10,916	FOOTAGE:	MW: 9.2	LB	PTD: 15,630
	RIG SUPERVISOR:	David Crow				PBTD:
	PRESENT OPERATIONS:	FINISH LD DIR BHA, RIG UP CSG CREW, RUN PROD LINER, LINER ON BOTTOM AT 01.30, RIG UP CEMENT CREW, CIR 2 BOTTOMS UP, SET LINER HANGER, CIR WHILE CONTINUE RIG UP CEMENT CREW.				
		FINISH LD DIRECTIONAL BHA #14.;MOVE IN & SPOT / RIG UP CSG CREW, HOLD PJSM WITH RIG & CSG CREW.;RUN 126 JOINTS OF 4 1/2, 11.6#, P-110, BPN PRODUCTION CASING, FLOAT SHOE AT=15601FT, FLOAT JOINT=43.62FT, FLOAT COLLAR AT=15555FT, LANDING COLLAR AT=15553FT, MARKER JOINT AT=12888FT, LINER TOP AT=10077FT / 2 DEGREE'S.				
		"1 MICA TOOL TURBOLATOR EVERY 4TH JOINT FROM JOINT 2-109" "28 TOTAL TURBOLATORS";RIG DOWN & RELEASE CSG CREW, WHILE CIRCULATING.;BEGIN TIH WITH PRODUCTION CSG.;STOP AT CSG SHOE & CIRCULATE BOTTOMS UP.;CONTINUE TIH WITH PRODUCTION CSG, CASING ON BOTTOM & CIRCULATING AT 01.30 ON 2/24/15.;MOVE IN & SPOT / RIG UP CEMENT CREW WHILE CIRCULATING ON BOTTOM, AFTER 2 BOTTOMS UP DROP 1 1/2 BALL & SET LINER HANGER, CONTINUE TO CIRCULATE WHILE RIGGING UP CEMENT CREW, STOP CIRCULATING & INSTALL WEATHERFORD CEMENT HEAD.				
	ACTIVITY PLANNED:	FINISH RIG UP, CEMENT LINER, SET & TEST LINER HANGER PACKER, DISPLACE WELL, LD DP.				

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)

COUNTY/STATE: Andrews/Texas

PMD: 15,630

PVD: 11,100

LOCATION:

ELEVATION (RKB): 3,155

API #: 42-003-46625

SERIAL NO:

SPUD DATE: Nov 27 2014

OBJECTIVE: Drill and complete horizontal devonian.

JOB NAME: University 1-20 #3H

CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 25 2015 MD: 15,605 TVD: 10,916 FOOTAGE: MW: 0.0 LB PTD: 15,630

RIG SUPERVISOR: David Crow / Jimmy Nobles

PBTD:

PRESENT OPERATIONS: FINISH CEMENT CREW RIG UP, CEMENT PROD LINER, SET & TEST LINER HANGER PACKER, LD DP.

FINISH CEMENT CREW RIG UP.;PSI TEST PUMP & LINES TO 5000 PSI, FOLLOWED BY 20 BBL'S OF FRESH WATER SPACER, 50 BBL'S OF 9# MUD-WASH, FOLLOWED BY 10 BBL'S OF FRESH WATER SPACER, START & FINISH 125 BBL'S OR 555 SKS OF 14.4#, 1.25 YIELD LEAD CEMENT, SHUT DOWN & DROP PLUG, WASH UP PUMP & LINES, DISPLACE 180 BBL'S OF 2% KCL, BUMP PLUG WITH 1800 PSI, WALK PRESSURE UP TO 2300 PSI, CHECK FLOAT, BLEED BACK 1/2 BBL'S, PLUG DOWN & HOLDING AT 09.00 ON 2/24/14, SHEAR OFF OF LINER, DISPLACE BACKSIDE WITH 340 BBL'S OF 2% KCL "CIRCULATE 10 BBL'S OF GOOD CEMENT OFF LINER HANGER" PSI TEST LINER TOP TO 1000 PSI FOR 5 MIN "TEST GOOD";RIG DOWN CEMENT HEAD & LINES, TOOH WITH 10 STANDS, CONTINUE RIG DOWN CEMENT CREW.;L/D 4 INCH DP.;L/D WEATHERFORD SETTING TOOL.;RIH W/ DP F/ DERRICK.;SERVICE RIG.;L/D 4" DP.

ACTIVITY PLANNED: FINISH LAY DOWN 4" DRILL PIPE. NIPPLE DOWN BOP'S.

WELL: University 1-20 #3H

**Elevation Resources**

**DAILY OPERATIONS**

FIELD: Andrews, South (Devonian)  
COUNTY/STATE: Andrews/Texas  
PMD: 15,630  
PVD: 11,100  
LOCATION:  
ELEVATION (RKB): 3,155  
API #: 42-003-46625  
SERIAL NO:  
SPUD DATE: Nov 27 2014  
OBJECTIVE: Drill and complete horizontal devonian.  
JOB NAME: University 1-20 #3H  
CONTRACTOR/RIG#: Independence Contract Drilling/ICD/208

Feb 26 2015 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 15,630  
RIG SUPERVISOR: Jimmy Nobles PBTD:  
PRESENT OPERATIONS: FINISH L/D 4" DRILL PIPE. NIPPLE DOWN BOP'S. RELEASE RIG TO MOVE @ 0600 HRS 2/26/15.  
FINISH L/D 4" DRILL PIPE.;GATHER UP ALL PLATINUM 4" HANDLING TOOLS & PUT IN BASKET.;NIPPLE DOWN BOP'S, FLOWLINE, CHOKE MANIFOLD. RELEASE 4" RENTAL STRING TO PLATINUM.;R/D RIG FLOOR IN PREP TO MOVE. BREAK OFF SAVER SUB & RECOVER CORROSION RING. N/D FLARE LINE. CLEAN PITS & SAND TRAPS W/ RIG PERSONNEL. RELEASE RIG TO MOVE @ 0600 HRS 2/26/15.  
ACTIVITY PLANNED: MOVE TRAILER & OFFICE SKIDS TO UNIVERSITY 1-24 UNIT 1H. ALSO START MOVING LOOSE RIG EQUIP & TUBULARS.