



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1065734

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

October 20, 2011

Leon Rodak  
Murfin Drilling Co., Inc.  
250 N WATER STE 300  
WICHITA, KS 67202-1216

Re: ACO1  
API 15-101-22300-00-00  
Pinkshu Unit 1-13  
NE/4 Sec.13-18S-30W  
Lane County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Leon Rodak

MDCI Pinkshu Unit #1-13 150' FNL 660' FEL Sec. 13-T18S-R30W 2842' KB							MDCI Pinkston Unit #1-13 750' FSL 2550' FEL Sec. 13-T18S-R30W 2850' KB	
Formations	Sample Tops	Datum	Ref	Log tops	Datum	Ref	Log Tops	Datum
Anhydrite	2185	+657	+5	2190	+652	Flat	2198	+652
B/Anhydrite	2207	+635	+2	2210	+632	-1	2217	+633
Topeka	3660	-818	+2	3664	-822	-2	3670	-820
Heebner	3899	-1057	+3	3902	-1060	Flat	3910	-1060
Lansing	3938	-1096	+2	3940	-1098	Flat	3948	-1098
Stark	4211	-1369	+5	4214	-1372	+2	4224	-1374
Uppr. Pawnee	4408	-1566	+6	4412	-1570	+2	4422	-1572
Mississippian	4546	-1704	+6	4542	-1700	+10	4560	-1710
Miss Dolomite	4600	-1758	+6	4600	-1758	+6	4614	-1764
RTD	4690						4670	
LTD				4693			4676	

# GEOLOGISTS REPORT

OPERATOR **MURFIN DRILLING CO., INC.**  
 LEASE **PINKSHU UNIT #1-13**

ELEVATIONS  
 KB **2842'**  
 KR **2842'**  
 GL **2831'**

LOCATION **150' FNL 660' FEL**  
 SEC. **13** TWPSP **18S** RGE **30W**

COUNTY **LANE** STATE **KANSAS**  
 FIELD **WILD CAT**

CONTRACTOR **MURFIN DRILLING CO. INCORP NO. 22**  
 COMMENCED **JULY 12, 2011** COMPLETED **JULY 22, 2011**  
 MUD DISPLACED **3400'** MUD TYPE **CHEMICAL**  
 DRILLING TIME (LEFT FROM) **3900'** TO **4690'**  
 SAMPLES SAVED FROM **3900'** TO **4690'**  
 SAMPLES EXAMINED FROM **3900'** TO **4690'**

CONDUCTOR \_\_\_\_\_  
 SURFACE **8 5/8" @ 228'**  
 PRODUCTION **5 1/2" @ 488'**

LOG TECH  
 GEOLOGIST ON WELL **STEPHEN J. MILLER**

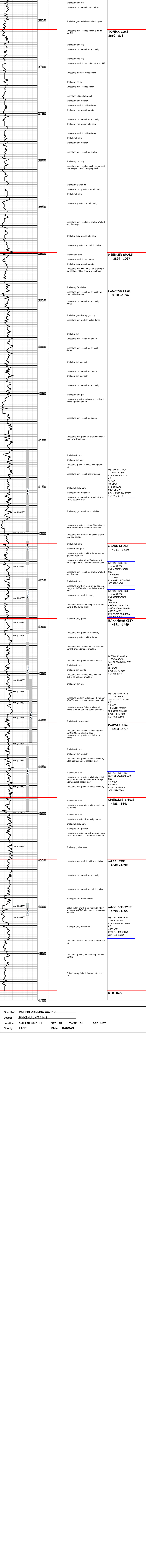
ELECTRICAL SURVEYS:  
 DUAL INDUCTION \_\_\_\_\_  
 COMP NEU-DENS \_\_\_\_\_  
 SONIC LOG \_\_\_\_\_  
 MICRORESISTIVITY \_\_\_\_\_

FORMATION LOG  
 NAME TOP DATUM TOP DATUM  
 ANHYDRITE 2192 +650 2185 +658  
 TOPEKA LIME 3665 -823 3660 -818  
 HEBNER SHALE 3902 -1060 3899 -1057  
 LANSING LIME 3940 -1098 3938 -1096  
 STARK SHALE 4214 -1372 4211 -1369  
 UP-PAWNEE LIME 4413 -1571 4403 -1561  
 MISSISSIPPIAN 4541 -1699 4549 -1707  
 MISS DOLOMITE 4600 -1758 4598 -1756  
 Total Depth 4693 -1851 4690 -1848

FORMATION NAME	LOG TOP	DATUM	LOG TOP	DATUM	SAMPLE COMP NEU-DENS	SONIC LOG	MICRORESISTIVITY
ANHYDRITE	2192	+650	2185	+658			
TOPEKA LIME	3665	-823	3660	-818			
HEBNER SHALE	3902	-1060	3899	-1057			
LANSING LIME	3940	-1098	3938	-1096			
STARK SHALE	4214	-1372	4211	-1369			
UP-PAWNEE LIME	4413	-1571	4403	-1561			
MISSISSIPPIAN	4541	-1699	4549	-1707			
MISS DOLOMITE	4600	-1758	4598	-1756			
Total Depth	4693	-1851	4690	-1848			

REMARKS  
 API 15-101-22300  
 Drilling Fluids: MORGAN MUD  
 Drill Stem Testing: TRILOBITE TESTERS  
 Gas Trailer: NONE  
 Reserve Pit Chlorides: 6000 PPM

DEPTH	DRILL TIME (MIN/FT)	SAMPLE DESCRIPTIONS	REMARKS
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Operator: MURFIN DRILLING CO., INC.  
 Lease: PINKSHU UNIT #1-13  
 Location: 150' FNL 660' FEL SEC. 13 TWPSP 18S RGE 30W  
 County: LANE State: KANSAS



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
2050 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Steve Miller

**Pinkusu Unit #1-13**  
**S13-18-30 Lane KS**  
Job Ticket: 43386      **DST#: 1**  
Test Start: 2011.07.16 @ 10:47:00

## GENERAL INFORMATION:

Formation: **LKC 'H,I,J'**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 12:53:00  
Time Test Ended: 19:03:00  
Interval: **4110.00 ft (KB) To 4198.00 ft (KB) (TVD)**  
Total Depth: 4198.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Chuck Smith  
Unit No: 37  
Reference Elevations: 2842.00 ft (KB)  
2831.00 ft (CF)  
KB to GR/CF: 11.00 ft

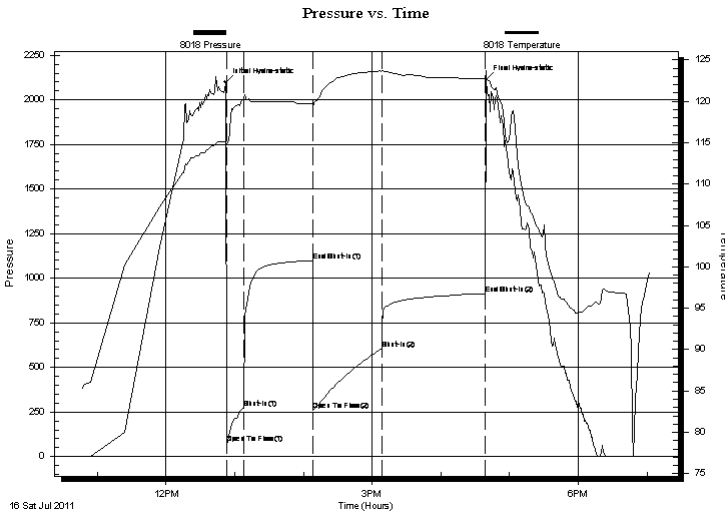
## Serial #: 8018

Inside

Press @ Run Depth: 603.42 psig @ 4114.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.07.16 End Date: 2011.07.16 Last Calib.: 2011.07.16  
Start Time: 10:47:02 End Time: 19:03:00 Time On Btm: 2011.07.16 @ 12:51:40  
Time Off Btm: 2011.07.16 @ 16:39:30

TEST COMMENT: IF: B.O.B. @ 5 min.  
IS: No return.  
FF: B.O.B. @ 6 1/2 min.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.87	115.03	Initial Hydro-static
2	75.55	114.81	Open To Flow (1)
16	271.21	120.38	Shut-In(1)
77	1098.88	119.70	End Shut-In(1)
77	259.84	119.33	Open To Flow (2)
137	603.42	123.65	Shut-In(2)
227	913.32	122.69	End Shut-In(2)
228	2113.07	122.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .120 @ 89 Degrees F = 47000 PPM	0.00
920.00	OSMW 5m 95w	11.02
310.00	GOCVM 5g 3o 42w 50m	4.35
110.00	OSM 4o 96m	1.54
5.00	CGO 5g 95o	0.07
0.00	10 Feet GIP	0.00

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**Pinkusu Unit #1-13**

2050 N.Water  
Suite 300  
Wichita, KS 67202  
ATTN: Steve Miller

**S13-18-30 Lane KS**

Job Ticket: 43386

**DST#: 1**

Test Start: 2011.07.16 @ 10:47:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 60.00 sec/qt  
Water Loss: 7.19 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3000.00 ppm  
Filter Cake: 2.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 34 deg API  
Water Salinity: 47000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW: .120 @ 89 Degrees F = 47000 PPM	0.000
920.00	OSMW 5m 95w	11.020
310.00	GOCWM 5g 3o 42w 50m	4.348
110.00	OSM 4o 96m	1.543
5.00	CGO 5g 95o	0.070
0.00	10 Feet GIP	0.000

Total Length: 1345.00 ft      Total Volume: 16.981 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: API:39 @ 110 Degrees F = 34.

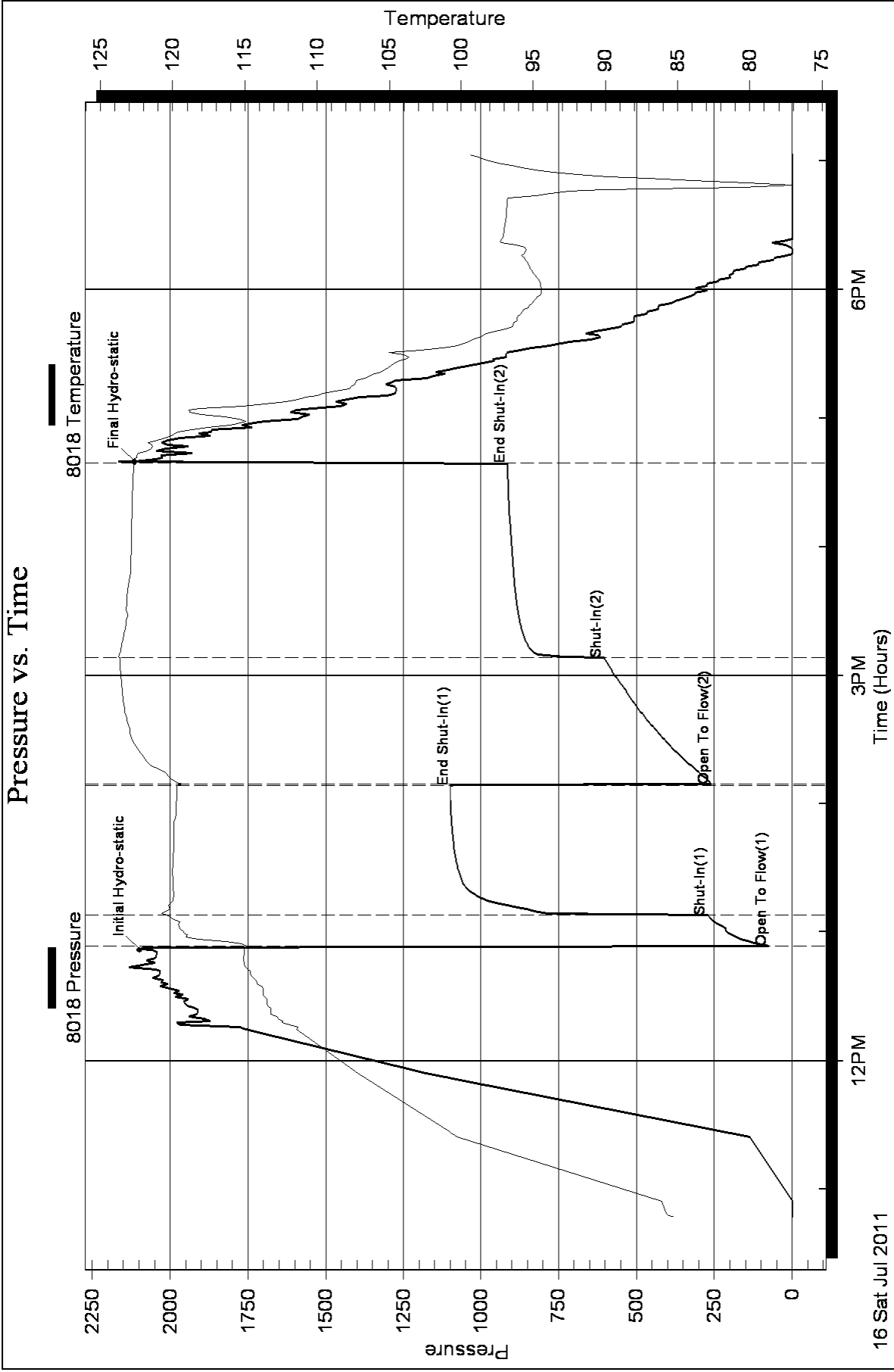
Serial #: 8018

Inside

Murfin Drilling Co.

S13-18-30 Lane KS

DST Test Number: 1







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
2050 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Steve Miller

**PinkSU Unit #1-13**  
**S13-18-30 Lane KS**  
Job Ticket: 43387      **DST#: 2**  
Test Start: 2011.07.17 @ 02:37:00

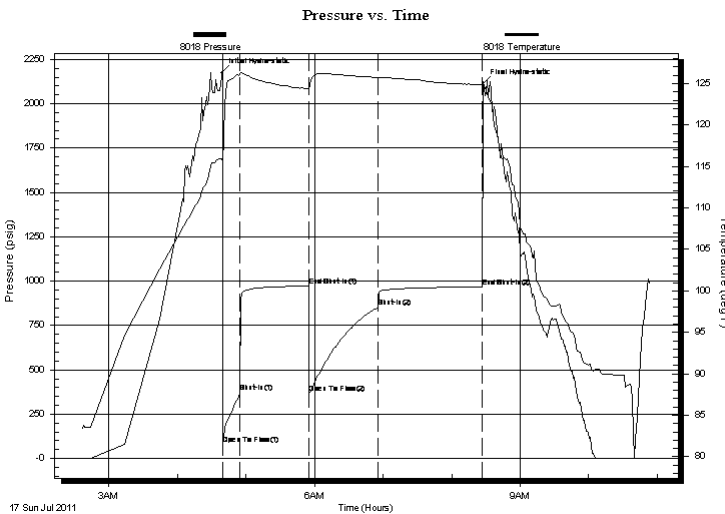
## GENERAL INFORMATION:

Formation: **LKC 'K'**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole  
Time Tool Opened: 04:39:40      Tester: Chuck Smith  
Time Test Ended: 10:53:30      Unit No: 37  
**Interval: 4208.00 ft (KB) To 4234.00 ft (KB) (TVD)**      Reference Elevations: 2842.00 ft (KB)  
Total Depth: 4234.00 ft (KB) (TVD)      2831.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 11.00 ft

**Serial #: 8018      Inside**  
Press @ Run Depth: 854.37 psig @ 4212.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.07.17      End Date: 2011.07.17      Last Calib.: 2011.07.17  
Start Time: 02:37:02      End Time: 10:53:30      Time On Btm: 2011.07.17 @ 04:38:50  
Time Off Btm: 2011.07.17 @ 08:27:30

**TEST COMMENT:** IF: B.O.B. @ 2 1/2 min.  
IS: No return.  
FF: B.O.B. @ 3 1/2 min.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2174.96	115.89	Initial Hydro-static
1	82.62	114.94	Open To Flow (1)
17	372.53	126.09	Shut-In(1)
77	971.75	124.36	End Shut-In(1)
77	367.28	124.02	Open To Flow (2)
137	854.37	125.73	Shut-In(2)
228	967.24	124.85	End Shut-In(2)
229	2115.06	125.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .135 @ 80 Degrees F = 52000 PPM	0.00
90.00	MW 20m 80w	0.44
1545.00	MW 10m 90w	20.61
186.00	MW 40m 60w	2.61
29.00	OSMW 40m 60w	0.41

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**Pinkusu Unit #1-13**

2050 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Steve Miller

**S13-18-30 Lane KS**

Job Ticket: 43387

**DST#: 2**

Test Start: 2011.07.17 @ 02:37:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 57.00 sec/qt  
Water Loss: 7.19 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3000.00 ppm  
Filter Cake: 2.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: 52000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW: .135 @ 80 Degrees F = 52000 PPM	0.000
90.00	MW 20m 80w	0.443
1545.00	MW 10m 90w	20.606
186.00	MW 40m 60w	2.609
29.00	OSMW 40m 60w	0.407

Total Length: 1850.00 ft      Total Volume: 24.065 bbl

Num Fluid Samples: 0

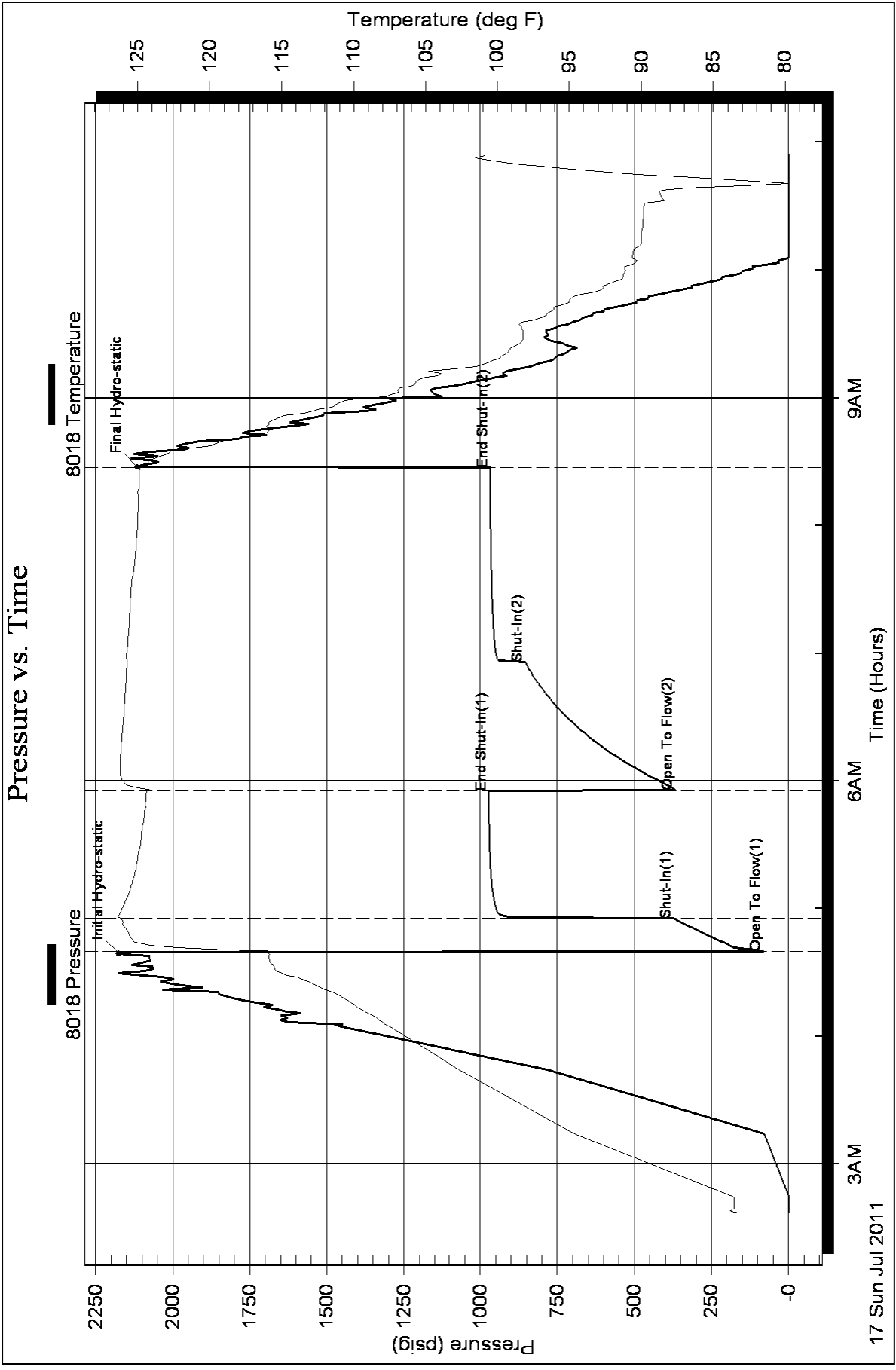
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
2050 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Steve Miller

**Pinksu Unit #1-13**  
**S13-18-30 Lane KS**  
Job Ticket: 43388      **DST#: 3**  
Test Start: 2011.07.17 @ 23:33:00

## GENERAL INFORMATION:

Formation: **LKC 'L'**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole  
Time Tool Opened: 01:27:40      Tester: Chuck Smith  
Time Test Ended: 08:31:00      Unit No: 37  
**Interval: 4248.00 ft (KB) To 4308.00 ft (KB) (TVD)**      Reference Elevations: 2842.00 ft (KB)  
Total Depth: 4308.00 ft (KB) (TVD)      2831.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 11.00 ft

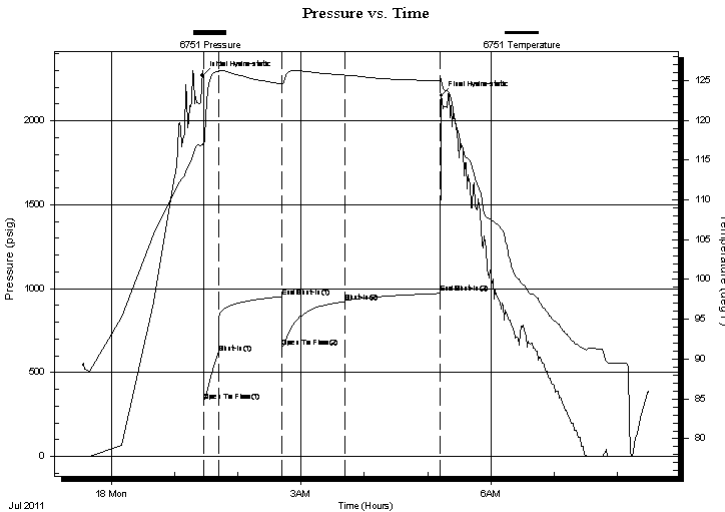
## Serial #: 6751

**Outside**

Press @ Run Depth: 922.62 psig @ 4251.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.07.17      End Date: 2011.07.18      Last Calib.: 2011.07.18  
Start Time: 23:33:02      End Time: 08:31:00      Time On Btm: 2011.07.18 @ 01:26:30  
Time Off Btm: 2011.07.18 @ 05:12:50

**TEST COMMENT:** IF: B.O.B. @ 1 min.  
IS: Weak return died @ 10 min.  
FF: B.O.B. @ 2 min.  
FS: 1" Return died @ 35 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2269.38	116.97	Initial Hydro-static
2	327.38	116.61	Open To Flow (1)
16	618.76	126.16	Shut-In(1)
76	953.14	124.59	End Shut-In(1)
76	650.23	124.47	Open To Flow (2)
136	922.62	125.66	Shut-In(2)
226	971.23	124.97	End Shut-In(2)
227	2149.98	125.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
609.00	OSMW 10m 90w	6.38
909.00	GOCMW 5g 15o 20m 60w	12.75
667.00	GWCOM 15g 20w 20o 45m	9.36
0.00	150 Feet GIP	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**Pinkusu Unit #1-13**

2050 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Steve Miller

**S13-18-30 Lane KS**

Job Ticket: 43388      **DST#: 3**

Test Start: 2011.07.17 @ 23:33:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	52000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
609.00	OSMW 10m 90w	6.384
909.00	GOCMW 5g 15o 20m 60w	12.751
667.00	GWCOM 15g 20w 20o 45m	9.356
0.00	150 Feet GIP	0.000

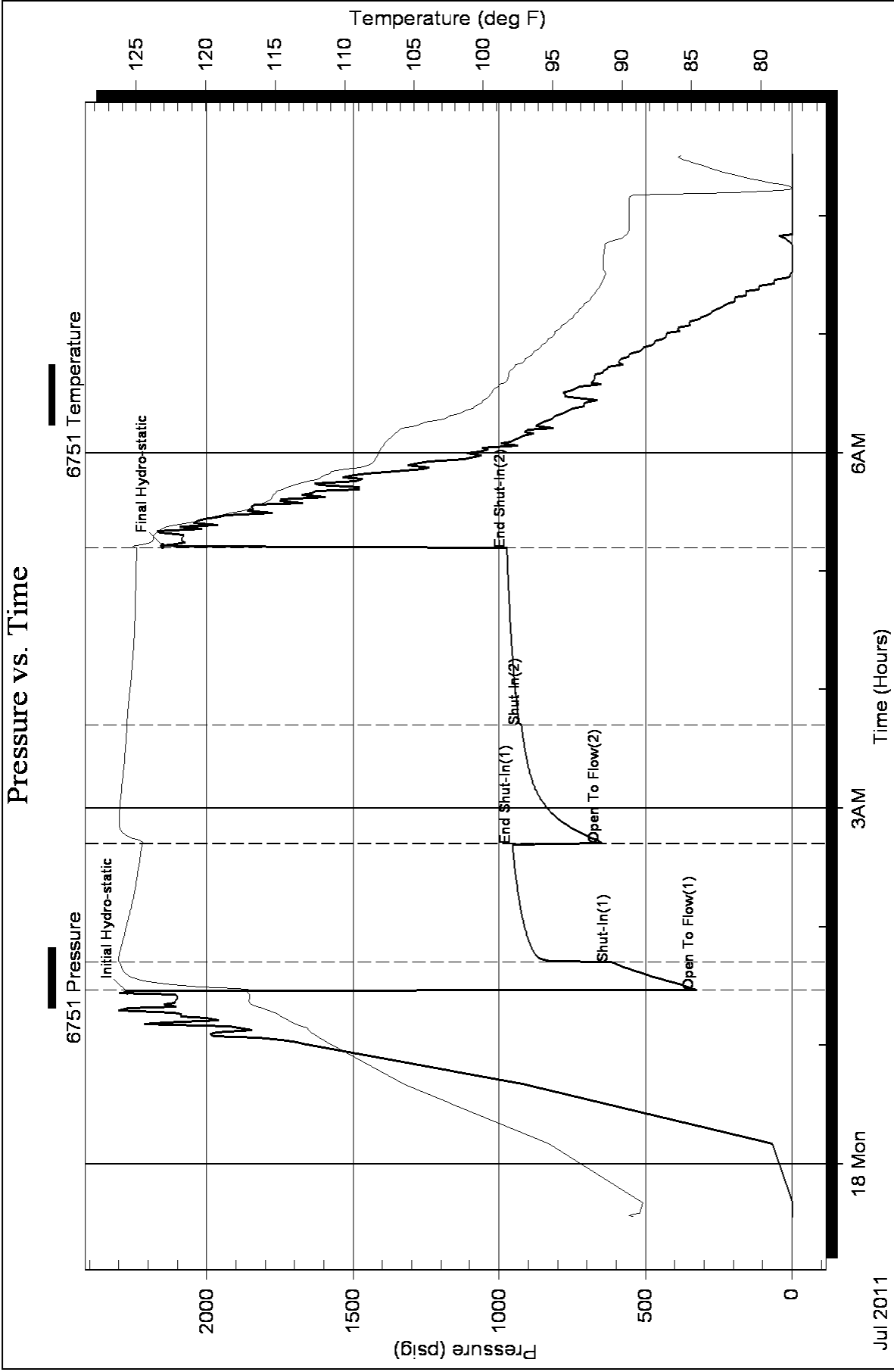
Total Length: 2185.00 ft      Total Volume: 28.491 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: RW: .137 @ 77 Degrees F = 52000 PPM

### Pressure vs. Time





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
2050 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Steve Miller

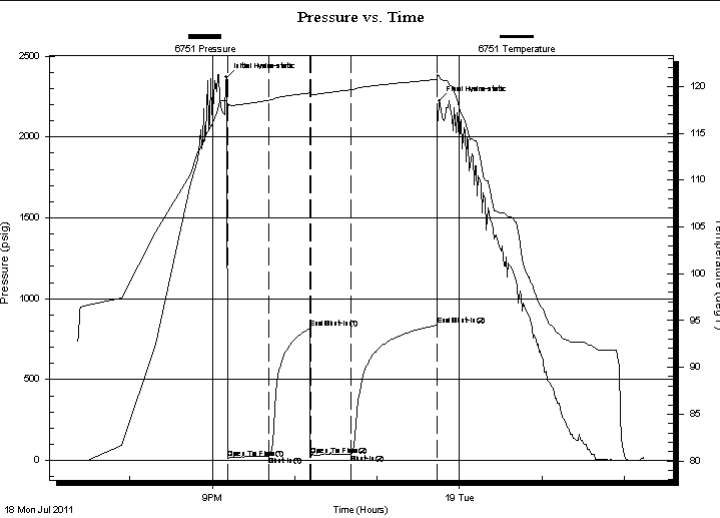
**Pinkus Unit #1-13**  
**S13-18-30 Lane KS**  
Job Ticket: 43389 **DST#: 4**  
Test Start: 2011.07.18 @ 19:22:00

## GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:11:20  
Time Test Ended: 02:14:39  
Interval: **4316.00 ft (KB) To 4368.00 ft (KB) (TVD)**  
Total Depth: 4368.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Chuck Smith  
Unit No: 37  
Reference Elevations: 2842.00 ft (KB)  
2831.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6751 Outside**  
Press @ Run Depth: 38.32 psig @ 4319.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.07.18 End Date: 2011.07.19 Last Calib.: 2011.07.19  
Start Time: 19:22:02 End Time: 02:14:40 Time On Btm: 2011.07.18 @ 21:10:10  
Time Off Btm: 2011.07.18 @ 23:45:09

**TEST COMMENT:** IF: 1/4" Blow receded to surface blow.  
IS: No return.  
FF: No blow.  
FS: No return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2367.23	118.54	Initial Hydro-static
2	15.18	117.60	Open To Flow (1)
32	25.93	118.51	Shut-In(1)
61	816.40	119.31	End Shut-In(1)
62	30.52	118.92	Open To Flow (2)
91	38.32	119.64	Shut-In(2)
154	836.48	120.73	End Shut-In(2)
155	2222.72	121.13	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	OSM 100m	0.07

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**Pinkusu Unit #1-13**

2050 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Steve Miller

**S13-18-30 Lane KS**

Job Ticket: 43389      **DST#: 4**  
Test Start: 2011.07.18 @ 19:22:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3900.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OSM 100m	0.074

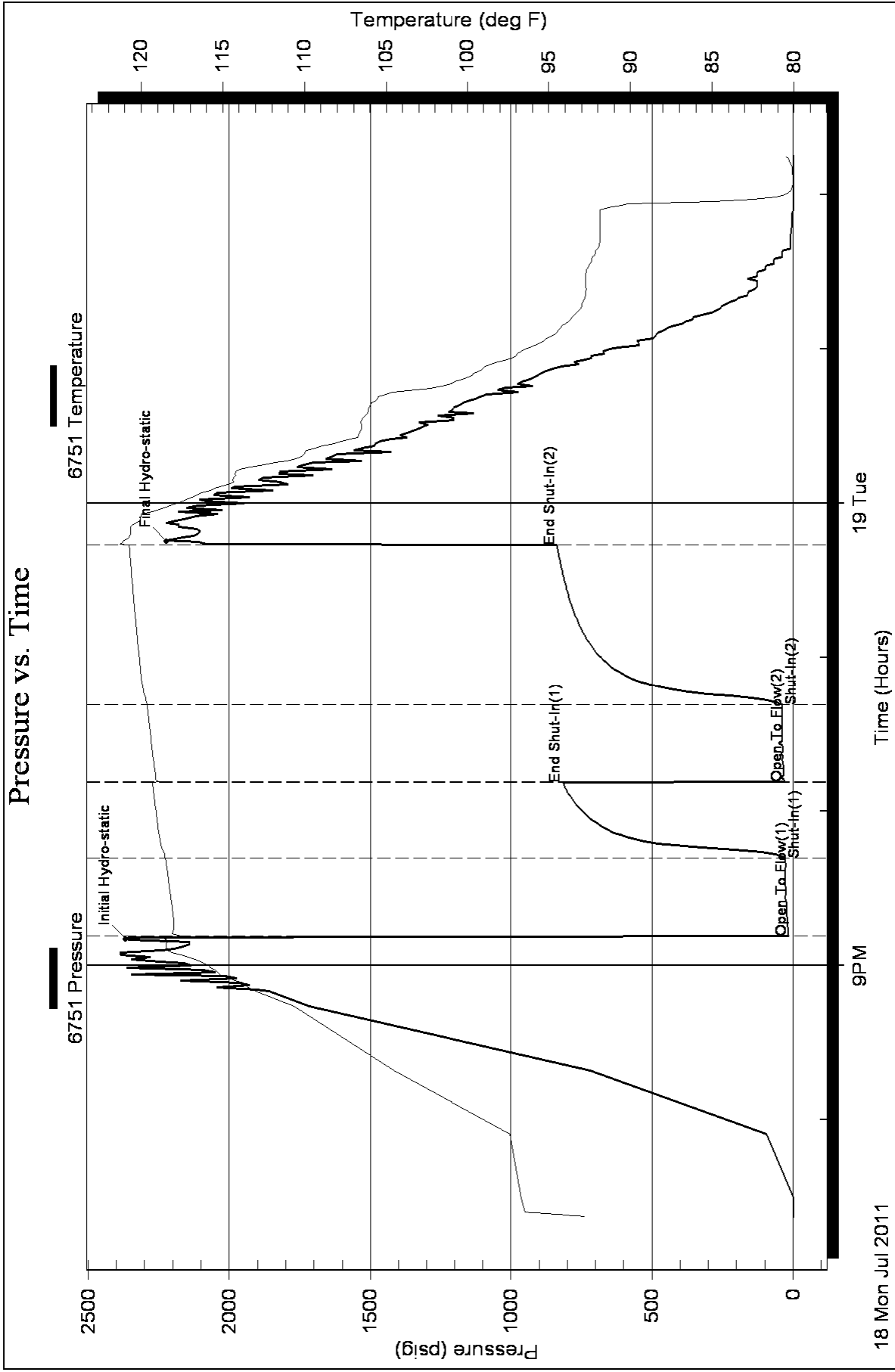
Total Length: 15.00 ft      Total Volume: 0.074 bbl

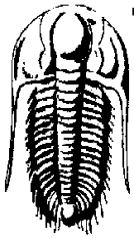
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Murfin Drilling Co.  
2050 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Steve Miller

**Pinkus Unit #1-13**

**S13-18-30 Lane KS**

Job Ticket: 43391

**DST#: 5**

Test Start: 2011.07.19 @ 14:25:03

### GENERAL INFORMATION:

Formation: **Lower Marmaton - Upp**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:18:23

Time Test Ended: 22:25:53

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

**Interval: 4356.00 ft (KB) To 4424.00 ft (KB) (TVD)**

Total Depth: 4424.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2842.00 ft (KB)

2831.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8018**

**Inside**

Press @ Run Depth: 74.74 psig @ 4359.00 ft (KB)

Start Date: 2011.07.19

End Date:

2011.07.19

Start Time: 14:25:05

End Time:

22:25:53

Capacity: 8000.00 psig

Last Calib.:

2011.07.19

Time On Btm:

2011.07.19 @ 16:17:33

Time Off Btm:

2011.07.19 @ 20:18:42

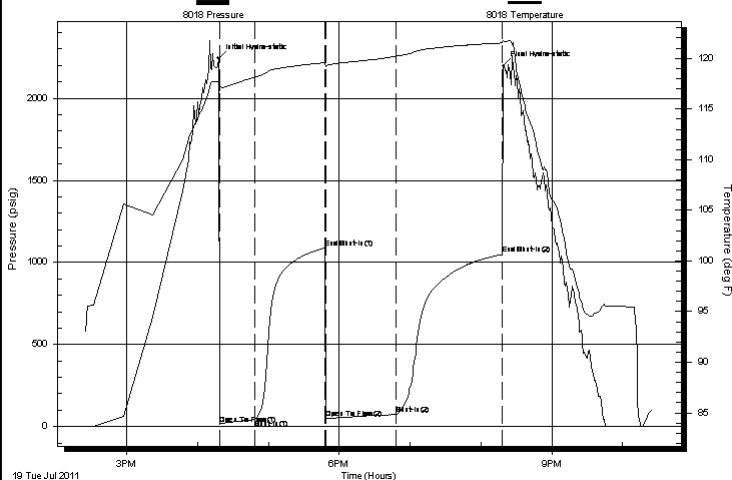
**TEST COMMENT:** IF: 1 1/2" Building blow .

IS: No return.

FF: 1" Building blow .

FS: Weak surface return died at 30 min.

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.99	117.65	Initial Hydro-static
1	15.59	116.81	Open To Flow (1)
31	41.69	118.12	Shut-In(1)
91	1090.55	119.58	End Shut-In(1)
91	48.84	119.17	Open To Flow (2)
151	74.74	120.20	Shut-In(2)
241	1049.64	121.52	End Shut-In(2)
242	2198.57	121.74	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	GO 50g 50o	0.15
120.00	OCM 20o 80m	0.59
0.00	90 Feet GIP	0.00

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**Pinkusu Unit #1-13**

2050 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Steve Miller

**S13-18-30 Lane KS**

Job Ticket: 43391      **DST#: 5**  
Test Start: 2011.07.19 @ 14:25:03

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.80 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3600.00 ppm		
Filter Cake: 2.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GO 50g 50o	0.148
120.00	OCM 20o 80m	0.590
0.00	90 Feet GIP	0.000

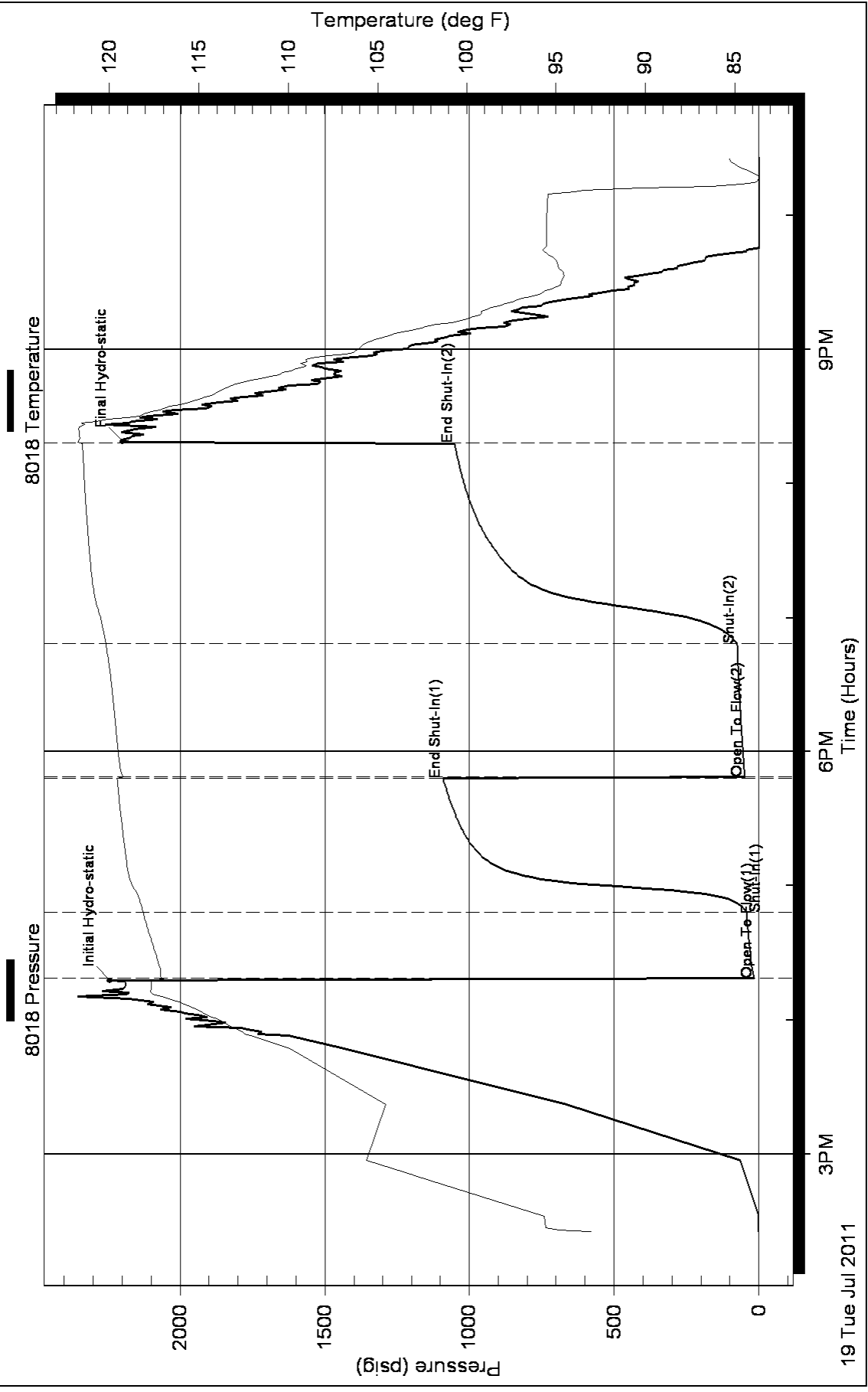
Total Length: 150.00 ft      Total Volume: 0.738 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: API:40 @ 90 Dgrees F = 37

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
2050 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Steve Miller

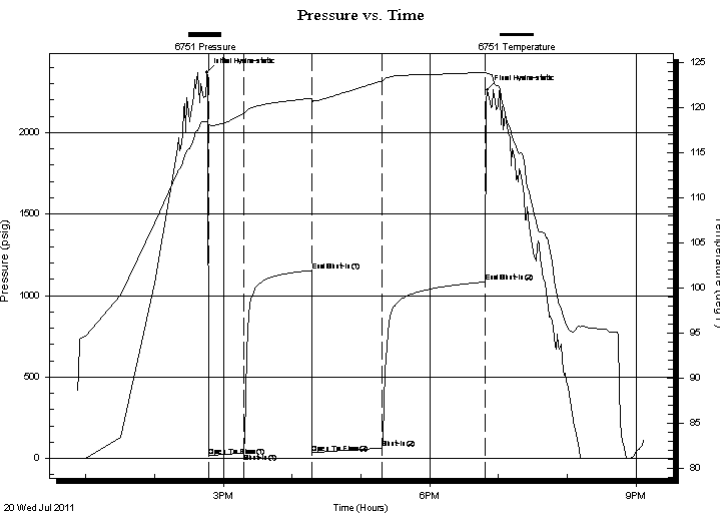
**Pinkusu Unit #1-13**  
**S13-18-30 Lane KS**  
Job Ticket: 43392      **DST#: 6**  
Test Start: 2011.07.20 @ 12:53:00

## GENERAL INFORMATION:

Formation: **Ft. Scott**  
Deviated: No Whipstock:                      ft (KB)      Test Type: Conventional Bottom Hole  
Time Tool Opened: 14:47:00      Tester: Chuck Smith  
Time Test Ended: 21:07:30      Unit No: 37  
**Interval: 4428.00 ft (KB) To 4498.00 ft (KB) (TVD)**      Reference Elevations: 2842.00 ft (KB)  
Total Depth: 4498.00 ft (KB) (TVD)      2831.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 11.00 ft

**Serial #: 6751      Outside**  
Press @ Run Depth: 64.08 psig @ 4432.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.07.20      End Date: 2011.07.20      Last Calib.: 2011.07.20  
Start Time: 12:53:02      End Time: 21:07:30      Time On Btm: 2011.07.20 @ 14:45:50  
Time Off Btm: 2011.07.20 @ 18:50:20

**TEST COMMENT:** IF: 1 1/4" Blow.  
IS: No return.  
FF: No blow.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2368.42	118.42	Initial Hydro-static
2	16.01	117.47	Open To Flow (1)
32	33.30	119.29	Shut-In(1)
92	1154.29	121.01	End Shut-In(1)
92	33.88	120.29	Open To Flow (2)
153	64.08	122.91	Shut-In(2)
243	1083.66	123.84	End Shut-In(2)
245	2262.38	123.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .220 @ 84 Degrees F = 27000 PPM	0.00
60.00	WCM 10w 90m	0.30
40.00	OSM 100m	0.20

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**Pinksu Unit #1-13**

2050 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Steve Miller

**S13-18-30 Lane KS**

Job Ticket: 43392      **DST#: 6**  
Test Start: 2011.07.20 @ 12:53:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	27000 ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW: .220 @ 84 Degrees F = 27000 PPM	0.000
60.00	WCM 10w 90m	0.295
40.00	OSM 100m	0.197

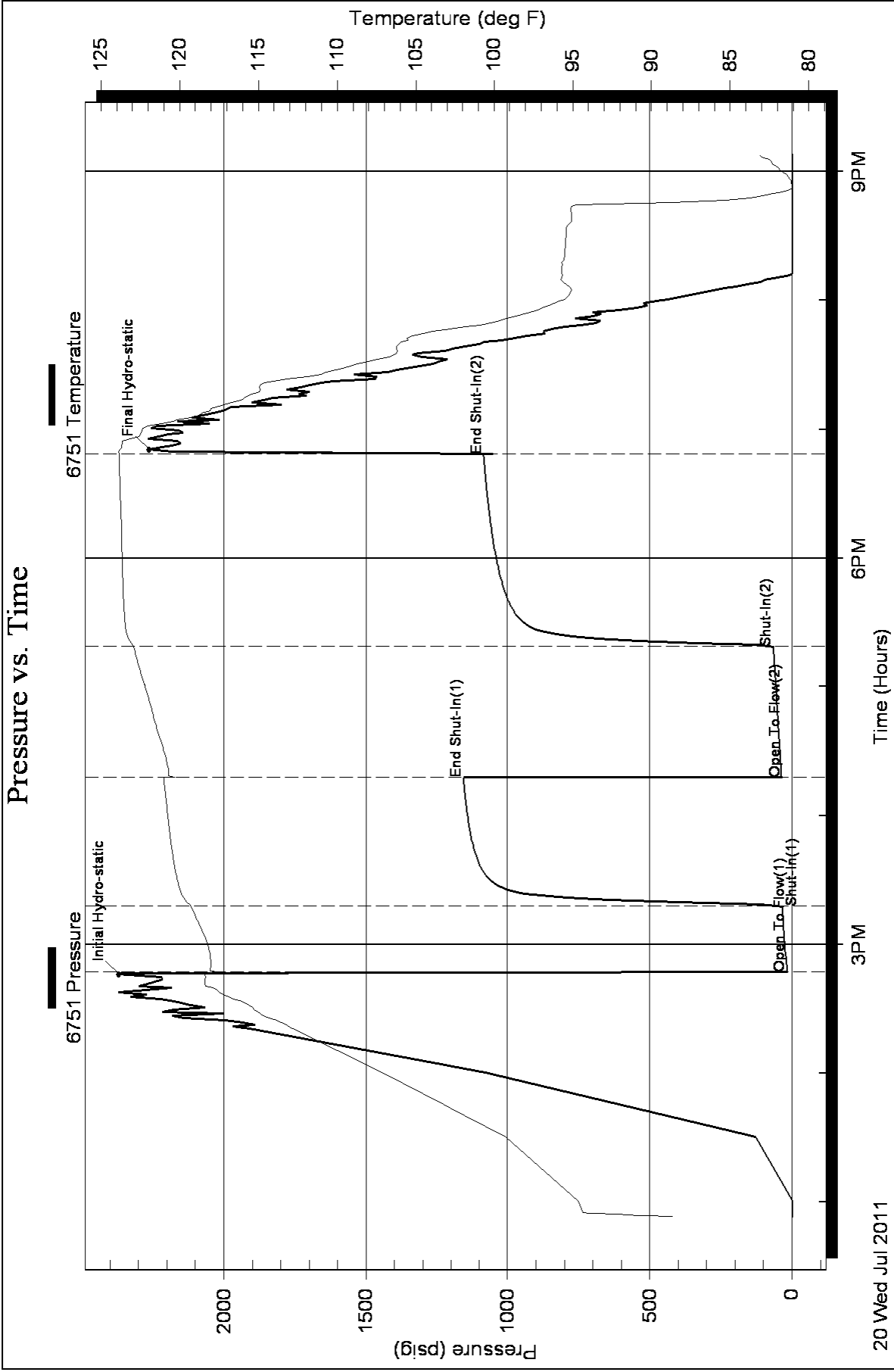
Total Length: 100.00 ft      Total Volume: 0.492 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
 2050 N. Water  
 Suite 300  
 Wichita, KS 67202  
 ATTN: Steve Miller

**Pinkusu Unit #1-13**  
**S13-18-30 Lane KS**  
 Job Ticket: 43393 **DST#: 7**  
 Test Start: 2011.07.21 @ 12:48:00

## GENERAL INFORMATION:

Formation: **Mississippian**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:49:10  
 Time Test Ended: 21:16:50  
**Interval: 4596.00 ft (KB) To 4610.00 ft (KB) (TVD)**  
 Total Depth: 4610.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Chuck Smith  
 Unit No: 37  
 Reference Elevations: 2842.00 ft (KB)  
 2831.00 ft (CF)  
 KB to GR/CF: 11.00 ft

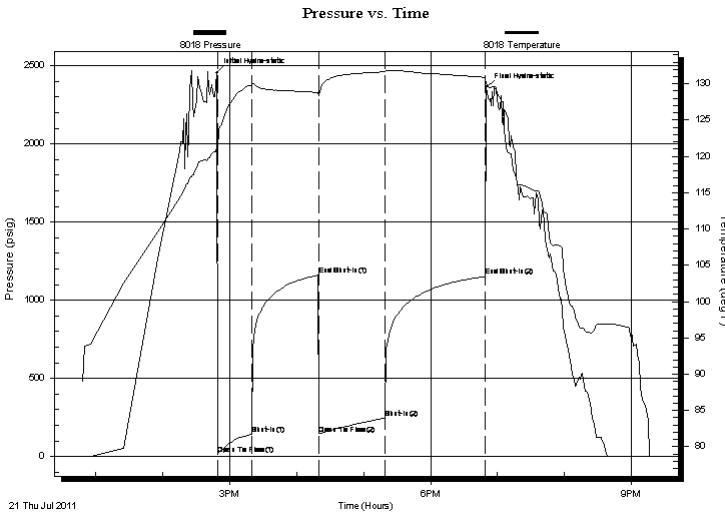
## Serial #: 8018

Inside

Press @ Run Depth: 247.42 psig @ 4597.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.07.21 End Date: 2011.07.21 Last Calib.: 2011.07.21  
 Start Time: 12:48:02 End Time: 21:16:50 Time On Btm: 2011.07.21 @ 14:48:20  
 Time Off Btm: 2011.07.21 @ 18:50:09

TEST COMMENT: IF: B.O.B. @ 29 min.  
 IS: No return.  
 FF: B.O.B. @ 43 min.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2452.75	121.21	Initial Hydro-static
1	16.96	120.51	Open To Flow (1)
31	141.36	129.84	Shut-In(1)
92	1160.08	128.82	End Shut-In(1)
92	145.47	128.39	Open To Flow (2)
151	247.42	131.67	Shut-In(2)
241	1152.29	130.90	End Shut-In(2)
242	2359.94	130.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .188 @ 82 Degrees F = 32000 PPM	0.00
485.00	MW 10m 90w	4.92

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**Pinkusu Unit #1-13**

2050 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Steve Miller

**S13-18-30 Lane KS**

Job Ticket: 43393

**DST#: 7**

Test Start: 2011.07.21 @ 12:48:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW: .188 @ 82 Degrees F = 32000 PPM	0.000
485.00	MW 10m 90w	4.918

Total Length: 485.00 ft

Total Volume: 4.918 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

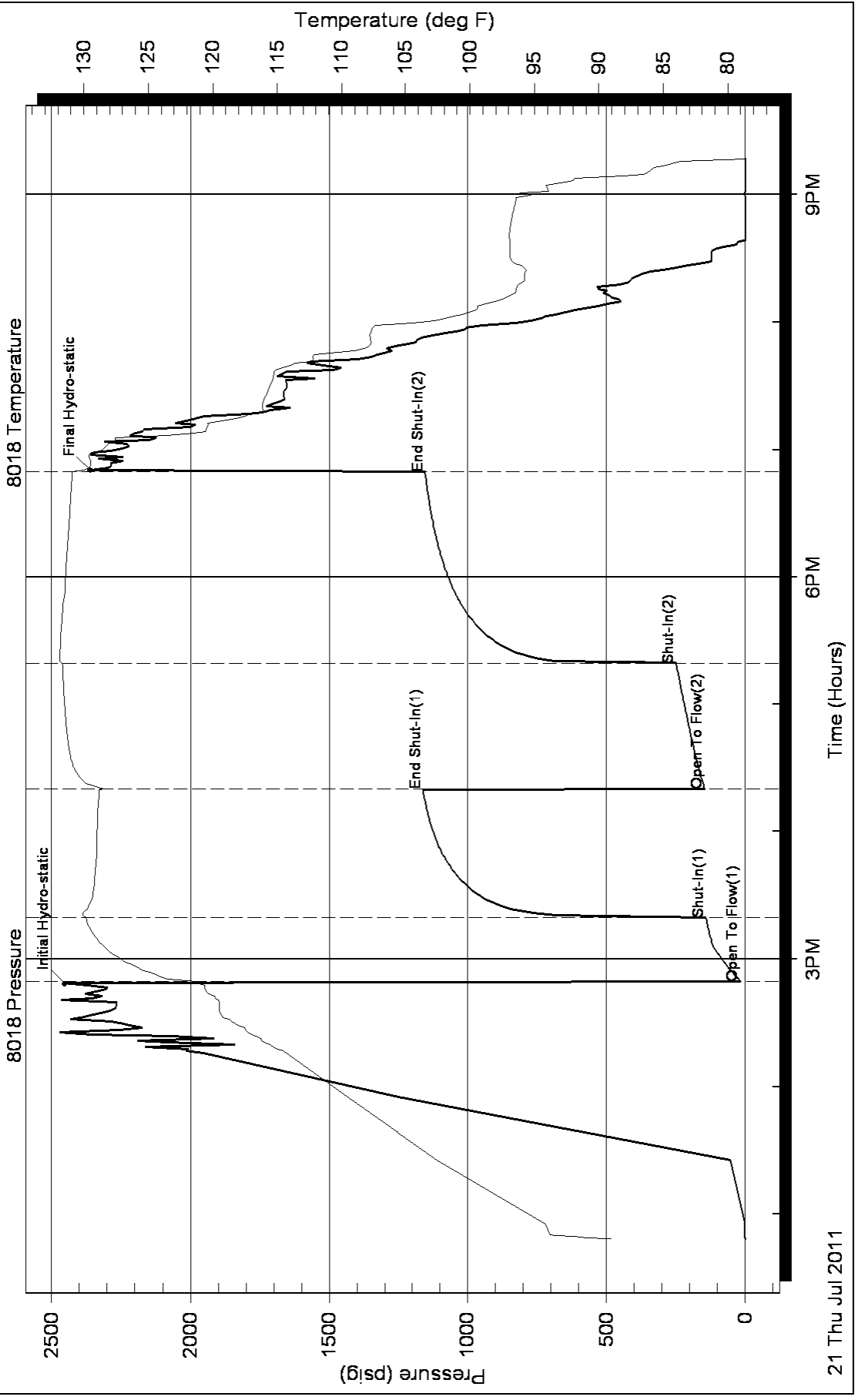
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





PO BOX 31 Russell, KS 67665

**PROD COPY**

**INVOICE**

Invoice Number: 127991

Invoice Date: Jul 17, 2011

Page: 1

Voice: (785) 483-3887  
 Fax: (785) 483-5566

**Bill To:**  
 Murfin Drlg. Co., Inc.  
 250 N. Water  
 STE #300  
 Wichita, KS 67202

Federal Tax I.D.#: 20-5975804

*moc pay*

*Pinkshu Unit 1-13*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Pinkshu #1-13	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jul 12, 2011	8/16/11

Quantity	Item	Description	Unit Price	Amount
195.00	MAT	Class A Common	16.25	3,168.75
7.00	MAT	Chloride	58.20	407.40
202.00	SER	Handling	2.25	454.50
50.00	SER	Mileage	22.22	1,111.00
1.00	SER	Surface	1,125.00	1,125.00
100.00	SER	Heavy Vehicle Mileage	7.00	700.00
100.00	SER	Light Vehicle Mileage	4.00	400.00
1.00	CEMENTER	Andrew Forslund		
1.00	OPER ASSIST	Jerry Yates		
1.00	OPER ASSIST	Earl Rebarck		

Account: *70203*  
*3.6211.0001*  
*7591.95*  
*(3352.18)*  
*Consent S. Csg., #1-13*  
*OK*

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

**\$ 3352.18**

ONLY IF PAID ON OR BEFORE

**Aug. 11, 2011**

Subtotal	7,366.65
Sales Tax	225.30
Total Invoice Amount	7,591.95
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,591.95</b>

*mw - 3352.18*  
*4239.77*

# ALLIED CEMENTING CO., LLC. 043443

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

*Oakley*

DATE <i>7-12-11</i>	SEC. <i>13</i>	TWP. <i>18S</i>	RANGE <i>30W</i>	CALLED OUT	ON LOCATION	JOB START <i>6:30pm</i>	JOB FINISH <i>7:00pm</i>
LEASE <i>Pinkshu Unit</i>	WELL # <i>1-13</i>	LOCATION <i>Amy 2 E 1 N Winton Lane</i>	COUNTY <i>KS</i>	STATE <i>KS</i>			
OLD OR NEW (Circle one)							

CONTRACTOR *Murfin 22*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. *228'*

CASING SIZE *8 5/8* DEPTH *228'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT *15'*

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *13.56 BBL*

EQUIPMENT

OWNER *Same*

CEMENT

AMOUNT ORDERED *195 sks com*

*36cc*

PUMP TRUCK CEMENTER *Andrew*

# *43281* HELPER *Jerry*

BULK TRUCK

# *396* DRIVER *Earl*

BULK TRUCK

# DRIVER

COMMON	<i>195 sks</i>	@	<i>16.25</i>	<i>3168.75</i>
POZMIX		@		
GEL		@		
CHLORIDE	<i>7 sks</i>	@	<i>58.20</i>	<i>407.40</i>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<i>202 sks</i>	@	<i>2.25</i>	<i>454.50</i>
MILEAGE	<i>118 sk/mile</i>			<i>111.00</i>
				TOTAL <i>514.65</i>

REMARKS:

*Cement did circulate*

SERVICE

DEPTH OF JOB	<i>228</i>		
PUMP TRUCK CHARGE			<i>1125.00</i>
EXTRA FOOTAGE	@		
MILEAGE	<i>50 miles</i>	@	<i>2.00</i> <i>700.00</i>
MANIFOLD	@		
<i>Light vehicle</i>	@	<i>4.00</i>	<i>400.00</i>
	@		
TOTAL <i>2225.00</i>			

CHARGE TO: *Murfin*

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
TOTAL _____			

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME *Kelly Wilson*

SIGNATURE *Kelly Wilson*

Liz



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



# Invoice

DATE	INVOICE #
8/12/2011	20990

BILL TO
Murfin Drilling Co Inc P. O. Box 130 Hill City, KS 67642-0130

- Acidizing
- Cement
- Tool Rental

USED FOR  
APPROVED

IC 103  
J.T. R

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-13	Pinkshu Unit	Lane	Fritzler Trucking	Oil	Development	Cement Port Collar	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	6.00	240.00
576D-D	Pump Charge - Port Collar				1	Job	1,250.00	1,250.00
330	Swift Multi-Density Standard (MIDCON II)				210	Sacks	16.50	3,465.00T
276	Flocele				50	Lb(s)	2.00	100.00T
279	Bentonite Gel				6	Sack(s)	25.00	150.00T
581D	Service Charge Cement				300	Sacks	2.00	600.00
583D	Drayage				617.06	Ton Miles	1.00	617.06
	Subtotal							6,422.06
	Sales Tax Lane County						6.30%	234.05
<b>Thank You For Your Business!</b>							<b>Total</b>	\$6,656.11



CHARGE TO: **MURFIN DRILLING**  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET  
**20990**

PAGE 1 OF 1

SERVICE LOCATIONS: **Moody KS** WELL/PROJECT NO. **1-13** LEASE **Pinkshu Unit** COUNTY/PARISH **Lane** STATE **KS** CITY **Amory** DATE **12 AUG - 11** OWNER  
 1. **Moody KS** TICKET TYPE  SERVICE CONTRACTOR **FDLIZIER** RIG NAME/NO. **location** SHIPPED  DELIVERED TO **location** ORDER NO.  
 2.  SALES WELL TYPE **017** WELL CATEGORY **Development** JOB PURPOSE **concrete post collar** WELL PERMIT NO. **13-185-3000**  
 3. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE	40	mi			6.00	240.00
576D					Pump Charge	1	ea			125.00	125.00
330					SMD cement	210	sk			16.50	3465.00
276					fluid	50	lb			2.00	100.00
279					Bentonite gel	6	sk			25.00	150.00
581					service charge	300	sk			2.00	600.00
583					Drayage	30853	lb	617.06	TM	1.00	6017.06

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY**, and **LIMITED WARRANTY** provisions.  
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

REMIT PAYMENT TO:  
**SWIFT SERVICES, INC.**  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL **6422.06**

TOTAL **6056.11**

DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_

SWIFT OPERATOR **APPROVAL** **Thank You!**

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

**JOB LOG**

**SWIFT Services, Inc.**

DATE 12 AUG 11 PAGE NO. 1

CUSTOMER WULFEN DRILLING

WELL NO. 1-13

LEASE Pinksho Unit

JOB TYPE CEMENT PORT COLLAR

TICKET NO. 20990

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								300 sks SAND 1/2 floccul 10 bags bentonite gel 2 1/2 x 5 1/2
	1300							on loc TRK 114
	1320	2	34			1100	1100	test to 1100 - held
						300		in rate - open tool
	1325	4	30			250		start down hole w/ gel
		4				250		30 bbl circulation to surface
	1405	4	117			400		start cement @ 11.2 fpg cement to surface <u>210 sks mixed</u>
								Close port collar
	1425					900	900	test to 900 psi - held
								Run 10 joints
	1445	3	30			200		tubing to 2549' circulate clean - 2 floccul -
	1500							wash truck
								Back up
								job complete
								{ 210 sks mixed } 25 to pit
								Blair Dave & DAVID

Accty -

rc:wl  
cc:pl  
Saginaw



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



# Invoice

DATE	INVOICE #
7/22/2011	20939

BILL TO
Murfin Drilling Co Inc P. O. Box 130 Hill City, KS 67642-0130

- Acidizing
- Cement
- Tool Rental

USED FOR  
APPROVED

IC 103  
J.T.K.

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-13	Pinkshu Unit	Lane	Murfin Drilling Ri...	Oil	Development	5-1/2" LongString	Jason
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	6.00	240.00
578D-L	Pump Charge - Long String - 4689 Feet				1	Job	1,500.00	1,500.00
402-5	5 1/2" Centralizer				10	Each	70.00	700.00T
403-5	5 1/2" Cement Basket				1	Each	250.00	250.00T
404-5	5 1/2" Port Collar				1	Each	2,400.00	2,400.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	350.00	350.00T
411-5	5 1/2" Recipo Scratcher				8	Each	45.00	360.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
276	Flocele				55	Lb(s)	2.00	110.00T
283	Salt				1,100	Lb(s)	0.20	220.00T
284	Calseal				10	Sack(s)	35.00	350.00T
285	CFR-1				150	Lb(s)	4.00	600.00T
290	D-Air				2.5	Gallon(s)	35.00	87.50T
325	Standard Cement				220	Sacks	13.50	2,970.00T
581D	Service Charge Cement				220	Sacks	2.00	440.00
583D	Drayage				459.7	Ton Miles	1.00	459.70
	Subtotal							12,637.20
	Sales Tax Lane County						6.30%	629.84

**We Appreciate Your Business!**

**Total**

\$13,267.04





CHARGE TO: MUREIN DRILLING  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET  
 20939

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. NESS CITY, KS. WELL PROJECT NO. LEASE PUKSHU UNIT F13 COUNTY/PARISH LAKE STATE KS. CITY DIGHTON, KS. DATE 23 July 11 OWNER  
 2. TICKET TYPE CONTRACTOR MURFIN DRILLING RIG #222 RIG NAME NO. SHIPPED VIA DELIVERED TO LOCATION ORDER NO.  
 3. WELL TYPE BIL WELL CATEGORY DEVELOPMENT JOB PURPOSE 520 LONGSTRINGS WELL PERMIT NO. WELL LOCATION  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #110	40	mi			60	2400
578					Pump Charge	1	hrs	4689	ft.	1500	1500
402					NEUTRALIZERS	10	ea.			70	700
403					CEMENT BASKET	1	ea.			250	250
404					PORT COLLAR	1	ea.	2223	ft.	2400	2400
406					LATCH DOWN PILE & BARREL	1	ea.			250	250
407					INSERT FLOAT SHOE w/AUTO FILL	1	ea.			350	350
411					REGRD SCRATCHER	8	ea.			45	360
230					FUDCHECK	500	gr			2.50	1250
<del>230</del> 231					AIRWAID RCL	4	gr			25	100

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.  
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.  
 X DATE SIGNED 23 July 11 TIME SIGNED 0815  A.M.  P.M.  
 Wacke Nung

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY  
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  
 WE UNDERSTOOD AND MET YOUR NEEDS?  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  
 ARE YOU SATISFIED WITH OUR SERVICE?  
 CUSTOMER DID NOT WISH TO RESPOND

AGREE UN-DECIDED DIS-AGREE

PAGE TOTAL 1 7400 2 5237

Subtotal 121037  
 TAX 629  
 TOTAL 121666

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 SWIFT OPERATOR *Jane E Kelly* APPROVAL  
 Thank You!



PO Box 466,  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 20939

CUSTOMER  
MURKIN DRILLING

WELL  
TINKSHU UNIT 1-13

DATE  
2/25/41

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	UM	QTY.	UM		
276						ELDGE	55	lbs			2.00	110.00
283						SALT	1100	lbs			20.00	220.00
284						CASEAL	10	5X			35.00	350.00
285						CFR-1	150	lbs			4.00	600.00
290						D-AIR	22	gpc			35.00	87.50
325						STANDARD CEMENT	220	5X			13.50	2970.00
581						SERVICE CHARGE	220	5X			2.00	440.00
583						MILEAGE CHARGE	459	70			1.00	459.70
CONTINUATION TOTAL												5237.20

JOB LOG

SWIFT Services, Inc.

DATE 22 July 11 PAGE NO. 1

CUSTOMER MURPIN DRILLING

WELL NO.

LEASE PINKSHU UNIT 1-13

JOB TYPE 5 1/2 LONGSTRING

TICKET NO. 20939

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2145							ON LOCATION
	0238							START PIPE 5 1/2 - 15.5#
								RTD 4690 LTD @ 4693
								SHOE JT. 22.35'
								CENTRALIZERS 1, 2, 3, 4, 6, 8, 10, 12, 14, 23
								BASKET # 58
								PORT COLLAR # 59 @ 2223'
								RECIPRO SCRATCHERS 8, 9, 10, 11
	0544							DROP BALL CIRCULATE
	0653	6	15				300	Pump 15 Bbl KCL FLUSH
		6	12				300	Pump 500 gal FLOCHECK
		6	5				300	Pump 5 Bbl FRESHWATER FLUSH
	0701		7.5					PLUG RH/MH (30SX-20SX)
	0705	4	41				200	MIX 170 SX EA 2
	0721							WASH OUT PUMPING LINES.
	0724	6						RELEASE PLUG START DISPLACEMENT 1 <sup>ST</sup> TANK W/ KCL
	0745		111				1500	PLUG DOWN PRESSURE UP LATCH PLUG IN
	0748							RELEASE PRESSURE DRY
								WASH TRUCK
								RACK TRUCK UP
	0815							JOB COMPLETE.
								THANKS # 110
								JASON JEFF ROB.