



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1080532
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1080532

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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> _____	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

May 08, 2012

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

Re: ACO1
API 15-193-20838-00-00
Frahm 'A' 1-20
SE/4 Sec.20-10S-34W
Thomas 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 Frahm 'A' #1-20 2298' FSL 1000' FEL Sec. 20-T10S-R34W 3244' KB							MDCI Steele 'A' #2-20 2200' FNL 550' FEL Sec. 20-T10S-R34W 3250' KB	
Formation	Sample Top	Datum	Ref	Log Tops	Datum	Ref	Log Top	Datum
Anhydrite	2750	+494	-4	2748	+496	-2	2752	+498
B/Anhydrite	2778	+466	-7	2776	+468	-5	2777	+473
Topeka	3900	-656	+2	3909	-665	-7	3908	-658
Heebner	4114	-870	+2	4122	-878	-6	4122	-872
Lansing	4157	-913	+2	4165	-921	-6	4165	-915
Stark	4383	-1139	-3	4392	-1148	-12	4386	-1136
Pawnee	4585	-1341	-11	4587	-1343	-13	4580	-1330
Lwr Pawn	4618	-1374	-4	4621	-1377	-7	4620	-1370
Fort Scott				4640	-1396	-8	4638	-1388
Johnson Zn				4710	-1466	-2	4714	-1464
Mississippi				4805	-1561	-7	4804	-1554
RTD	4900						4900	
LTD				4893			4900	

ADDRESS: 3470 W. 117th Street, Overland Park, Kansas 66205
PHONE: (913) 666-7777
FAX: (913) 666-7778
E-MAIL: rsto@ksgeology.com
WEBSITE: www.ksgeology.com

PROJECT: 3470 W. 117th Street, Overland Park, KS
CLIENT: J.D. Chemicals
DATE: 2/1/12
DRILLER: T.D. 4893
LOGGERS: J.D. & J.S. 4893
WELL NO.: 2098551, 1000' FEEL (S.W. 1/4, N. 1/2, E. 1/2, S. 1/2, Sec. 16, T. 40N, R. 15E)
STATE: KS
LOCALITY: Johnson Zone
FORMATION: Johnson Zone
DEPTH: 4102'-4180'

WELL NO.: 2098551, 1000' FEEL (S.W. 1/4, N. 1/2, E. 1/2, S. 1/2, Sec. 16, T. 40N, R. 15E)
STATE: KS
LOCALITY: Johnson Zone
FORMATION: Johnson Zone
DEPTH: 4102'-4180'

DST # 1 ZONE: Toronto Ls. and Lansing Az. Zone
Interval: 4102'-4180'
8677 Chart
Depth: 4105'

Pressures: Time Press. RECOVERY

1. Initial Hydrostatic 2027 psi 140' Salt Water
2. Initial Flow: Start 0 31 psi Water Mud
3. Initial Flow: End 30 146 psi (1% oil, 25% Mud)
4. Initial Shut-in: End 60 1228 psi 570' Mud cut water
5. Final Flow: Start 0 137 psi (10% Mud, oil spots)
6. Final Flow: End 60 1214 psi I.F. BOB 13 min.
7. Final Shut-in: End 60 1962 psi I.S.I. No blow
8. Final Hydrostatic 1962 psi F.F. BOB 19 min.

BHT: 122°F
 Rv: .14 @ 56°F
 Chl. 70,000 ppm Strap 1.40 short, Derivation 1.2°

DST # 2
Interval: 4183'-4391'
8677 Chart
Depth: 4286'

Pressures: Time Press. RECOVERY

1. Initial Hydrostatic 2104 psi 190' Mud Cut Water
2. Initial Flow: Start 0 336 psi (30% Mud)
3. Initial Flow: End 30 1122 psi 2540' Mud Water
4. Initial Shut-in: End 60 1221 psi (3% Mud)
5. Final Flow: Start 0 1120 psi 2730' Total Fluid
6. Final Flow: End 30 1281 psi ± 40 min to reach
7. Final Shut-in: End 90 1281 psi hydrostatic pressure
8. Final Hydrostatic 2029 psi

BHT: 125°F
 Rv: .099 @ 50°F
 75,000 ppm Chlorides
 I.F. BOB 11 min
 I.S.I. No blow
 F.F. BOB 2 min
 F.S.I. No blow

DST # 3
Interval: 4376'-4420'
8677 Chart
Depth: 4379'

Pressures: Time Press. RECOVERY

1. Initial Hydrostatic 2172 psi 510' Salt Water
2. Initial Flow: Start 0 33 psi
3. Initial Flow: End 30 145 psi I.F. BOB 12 min.
4. Initial Shut-in: End 60 1044 psi I.S.I. No blow
5. Final Flow: Start 0 137 psi F.F. BOB 24 min.
6. Final Flow: End 60 257 psi F.S.I. No blow
7. Final Shut-in: End 90 837 psi Slight plugging during initial flow.
8. Final Hydrostatic 2093 psi

BHT: 122°F
 Rv: .13 @ 59°F
 63,000 ppm Chlorides
 I.F. BOB 12 min
 I.S.I. No blow
 F.F. BOB 24 min
 F.S.I. No blow

DST # 4
Interval: 4612'-4635'
8677 Chart
Depth: 4615'

Pressures: Time Press. RECOVERY

1. Initial Hydrostatic 2385 psi 140' Mud cut water
2. Initial Flow: Start 0 34 psi (30% Mud)
3. Initial Flow: End 30 63 psi W/O oil on top - 15 min
4. Initial Shut-in: End 60 372 psi I.F. - 5" blow
5. Final Flow: Start 0 67 psi
6. Final Flow: End 60 105 psi I.S.I. No blow
7. Final Shut-in: End 90 372 psi F.F. - 5" blow
8. Final Hydrostatic 2158 psi

BHT: 128°F
 Rv: .185 @ 50°F
 75,000 ppm Chlorides
 I.F. - 5" blow
 I.S.I. No blow
 F.F. - 5" blow
 F.S.I. No blow

DST # 5
Interval: 4673'-4740'
8677 Chart
Depth: 4676'

Pressures: Time Press. RECOVERY

1. Initial Hydrostatic 2418 psi 5" Clean Oil
2. Initial Flow: Start 0 29 psi 140' Gas Mud Cut Oil
3. Initial Flow: End 30 48 psi (20% gas, 30% mud)
4. Initial Shut-in: End 60 360 psi 400' Gas in Pipe
5. Final Flow: Start 0 52 psi
6. Final Flow: End 60 84 psi I.F. - 5" blow
7. Final Shut-in: End 90 355 psi I.S.I. No blow
8. Final Hydrostatic 2328 psi

BHT: 122°F
 Rv: .185 @ 50°F
 75,000 ppm Chlorides
 I.F. - 5" blow
 I.S.I. No blow
 F.F. BOB 31 min
 F.S.I. No blow

ABBREVIATIONS USED

ROCK TYPES:
 Siltstone, Sandstone, Shale, Claystone, Gypsiferous, Carbonaceous, Dolomitic, Anhydritic, etc.

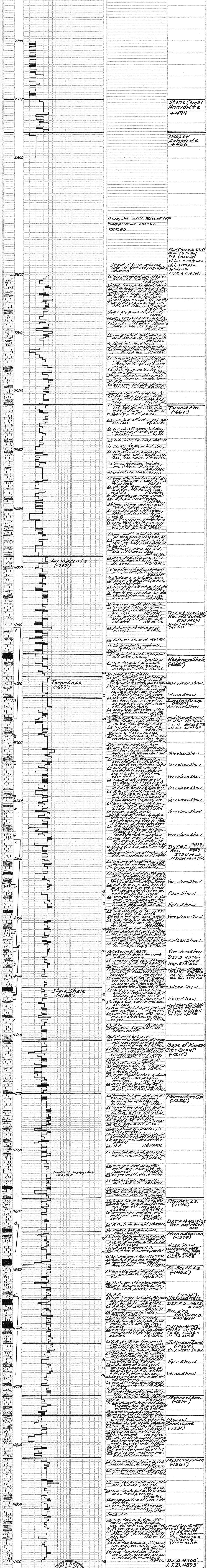
MODIFIERS:
 med - medium, fine - fine, coarse - coarse, etc.

TEXTURE:
 med - medium, fine - fine, coarse - coarse, etc.

OIL SHOWS:
 ○ Weak Oil Show, ○ Fair Oil Show, ○ Good Oil Show, ○ Excellent Oil Show

ROCK TYPE SYMBOLS

SHALE, SANDSTONE, SLT, CLAYSTONE, GYP, CARB, DOLO, ANHY, etc.





DRILL STEM TEST REPORT

Prepared For: **Murfin Oil Co, Inc.**

250 N Water STE 300
Wichita, KS 67202

ATTN: Robert Stolze

Frahm A #1-20

20-10s-34w Thomas,KS

Start Date: 2012.02.01 @ 07:02:00

End Date: 2012.02.01 @ 15:39:15

Job Ticket #: 44416 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.16 @ 10:32:25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Oil Co, Inc.

20-10s-34w Thomas,KS

250 N Water STE 300
Wichita, KS 67202

Frahm A #1-20

Job Ticket: 44416

DST#: 1

ATTN: Robert Stolze

Test Start: 2012.02.01 @ 07:02:00

GENERAL INFORMATION:

Formation: **Toronto - LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:41:45

Time Test Ended: 15:39:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 4102.00 ft (KB) To 4180.00 ft (KB) (TVD)

Reference Elevations: 3244.00 ft (KB)

Total Depth: 4180.00 ft (KB) (TVD)

3231.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8677

Inside

Press @ Run Depth: 311.21 psig @ 4105.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.01

End Date:

2012.02.01

Last Calib.:

2012.02.01

Start Time: 07:02:15

End Time:

15:39:15

Time On Btm:

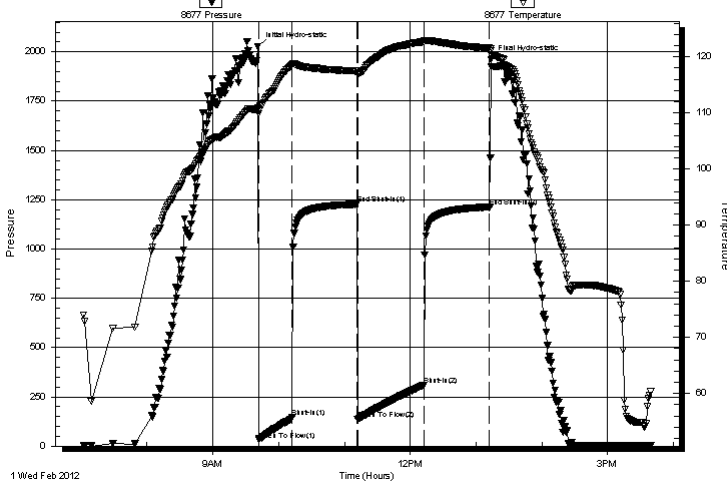
2012.02.01 @ 09:41:30

Time Off Btm:

2012.02.01 @ 13:13:45

TEST COMMENT: IF: BOB @ 13 min.
IS: No return.
FF: BOB @ 19 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2027.02	110.85	Initial Hydro-static
1	31.13	109.85	Open To Flow (1)
31	145.51	118.52	Shut-In(1)
90	1227.69	117.47	End Shut-In(1)
91	137.10	117.03	Open To Flow (2)
151	311.21	122.66	Shut-In(2)
210	1213.80	121.58	End Shut-In(2)
213	1961.60	121.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
570.00	mcw 10m 90w (oilspots)	2.80
140.00	sow cm 1o 25w 74m	0.69

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Oil Co, Inc.

20-10s-34w Thomas,KS

250 N Water STE 300
Wichita, KS 67202

Frahm A #1-20

Job Ticket: 44416

DST#: 1

ATTN: Robert Stolzle

Test Start: 2012.02.01 @ 07:02:00

GENERAL INFORMATION:

Formation: **Toronto - LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:41:45

Time Test Ended: 15:39:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 4102.00 ft (KB) To 4180.00 ft (KB) (TVD)

Reference Elevations: 3244.00 ft (KB)

Total Depth: 4180.00 ft (KB) (TVD)

3231.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8522 Inside

Press @ Run Depth: psig @ 4105.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.01

End Date:

2012.02.01

Last Calib.:

2012.02.01

Start Time: 07:01:45

End Time:

15:40:15

Time On Btm:

Time Off Btm:

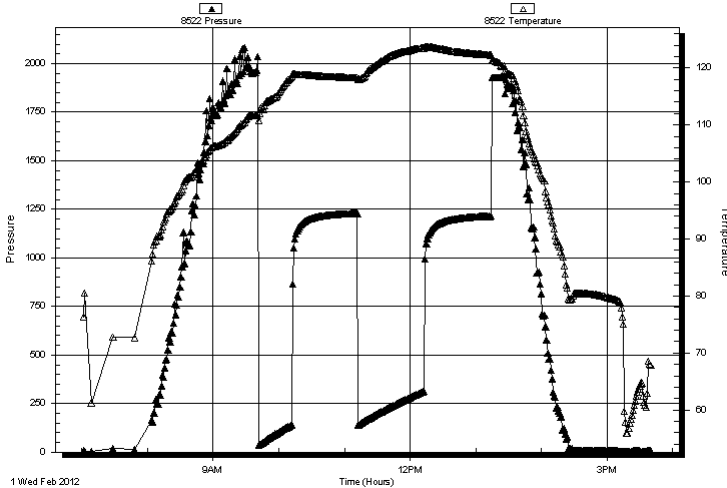
TEST COMMENT: IF: BOB @ 13 min.

IS: No return.

FF: BOB @ 19 min.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
570.00	mcw 10m 90w (oilspots)	2.80
140.00	sow cm 1o 25w 74m	0.69

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Oil Co, Inc.

20-10s-34w Thomas,KS

250 N Water STE 300
Wichita, KS 67202

Frahm A #1-20

Job Ticket: 44416

DST#: 1

ATTN: Robert Stolzle

Test Start: 2012.02.01 @ 07:02:00

Tool Information

Drill Pipe:	Length: 4103.00 ft	Diameter: 2.25 inches	Volume: 20.18 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 20.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4102.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	105.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4076.00	
Shut In Tool	5.00			4081.00	
Hydraulic tool	5.00			4086.00	
Jars	5.00			4091.00	
Safety Joint	2.00			4093.00	
Packer	5.00			4098.00	27.00 Bottom Of Top Packer
Packer	4.00			4102.00	
Stubb	1.00			4103.00	
Perforations	2.00			4105.00	
Recorder	0.00	8677	Inside	4105.00	
Recorder	0.00	8522	Inside	4105.00	
Perforations	6.00			4111.00	
Change Over Sub	1.00			4112.00	
Drill Pipe	64.00			4176.00	
Change Over Sub	1.00			4177.00	
Bullnose	3.00			4180.00	78.00 Bottom Packers & Anchor
Total Tool Length:	105.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Oil Co, Inc.

20-10s-34w Thomas,KS

250 N Water STE 300
Wichita, KS 67202

Frahm A #1-20

Job Ticket: 44416

DST#: 1

ATTN: Robert Stolzle

Test Start: 2012.02.01 @ 07:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

70000 ppm

Viscosity: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
570.00	mcw 10m 90w (oilspots)	2.803
140.00	sow cm 1o 25w 74m	0.688

Total Length: 710.00 ft Total Volume: 3.491 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .142 @ 56F = 70000 ppm

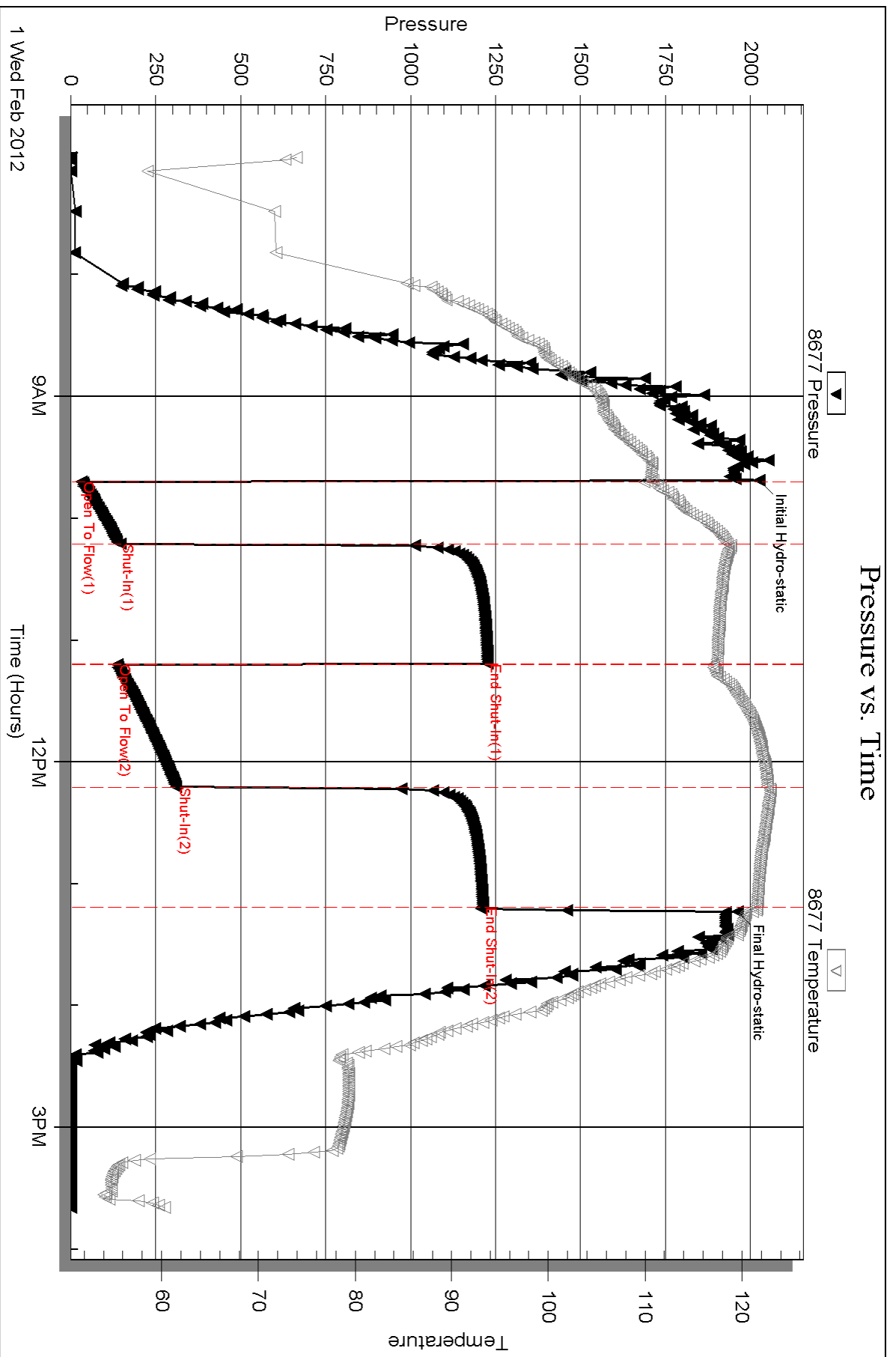
Serial #: 8677

Inside

Murfin Oil Co, Inc.

Frahm A #1-20

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 44416

Printed: 2012.02.16 @ 10:32:27

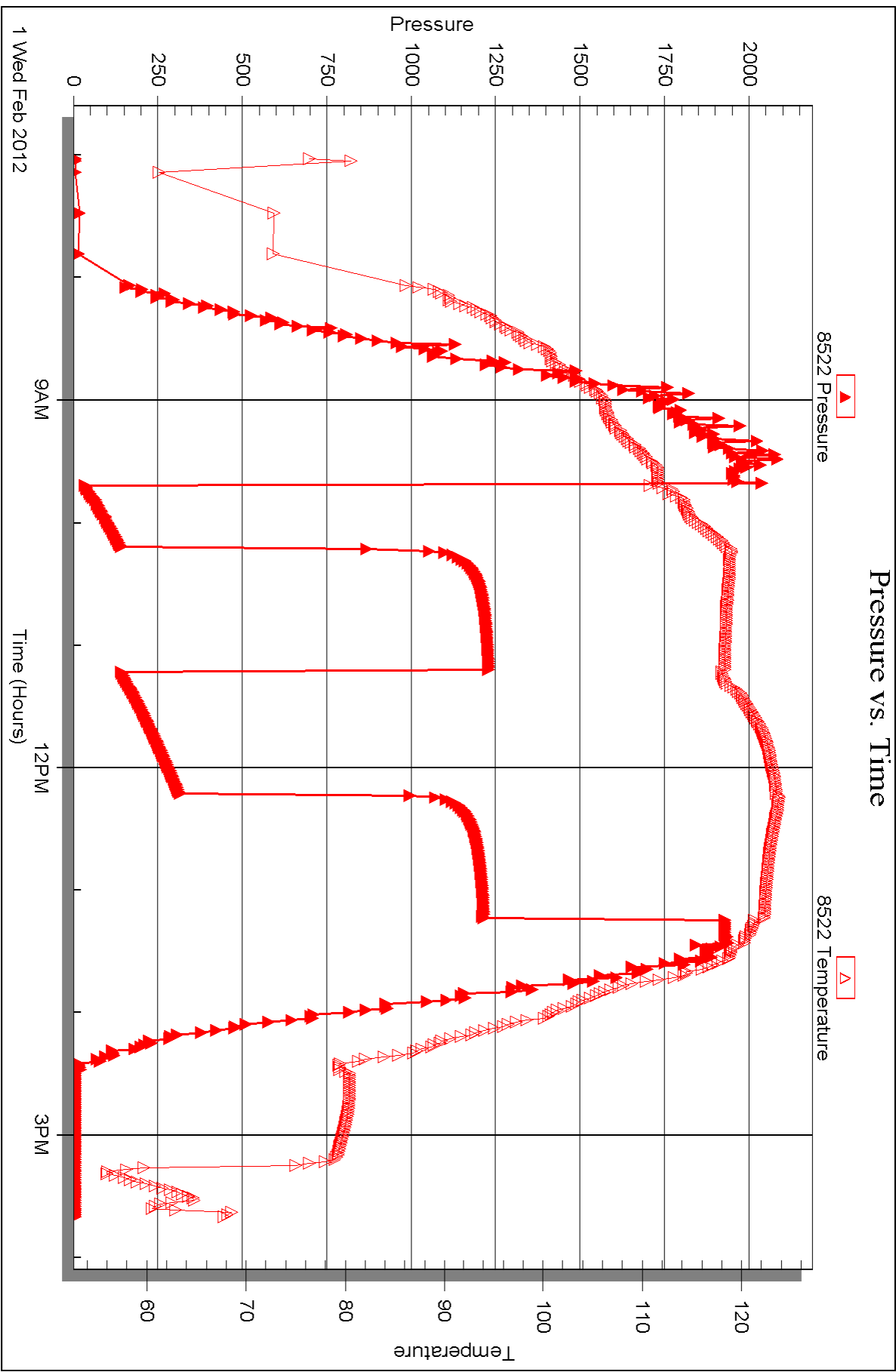
Serial #: 8522

Inside

Murfin Oil Co, Inc.

Frahm A #1-20

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 44416

Printed: 2012.02.16 @ 10:32:27



DRILL STEM TEST REPORT

Prepared For: **Murfin Oil Co, Inc.**

250 N Water STE 300
Wichita, KS 67202

ATTN: Robert Stolze

Frahm A #1-20

20-10s-34w Thomas,KS

Start Date: 2012.02.02 @ 10:47:00

End Date: 2012.02.02 @ 18:51:00

Job Ticket #: 44417 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.16 @ 10:24:59



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Oil Co, Inc.

20-10s-34w Thomas,KS

250 N Water STE 300
Wichita, KS 67202

Frahm A #1-20

Job Ticket: 44417

DST#: 2

ATTN: Robert Stolze

Test Start: 2012.02.02 @ 10:47:00

GENERAL INFORMATION:

Formation: **LKC H-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:40:00
 Time Test Ended: 18:51:00
 Interval: **4283.00 ft (KB) To 4379.00 ft (KB) (TVD)**
 Total Depth: 4379.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 3244.00 ft (KB)
 3231.00 ft (CF)
 KB to GR/CF: 13.00 ft

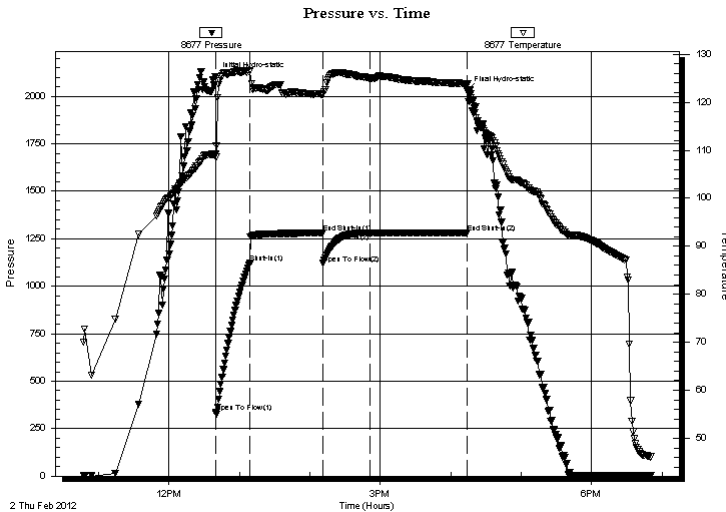
Serial #: 8677

Inside

Press @ Run Depth: 1280.53 psig @ 4286.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.02 End Date: 2012.02.02 Last Calib.: 2012.02.02
 Start Time: 10:47:15 End Time: 18:51:00 Time On Btm: 2012.02.02 @ 12:39:45
 Time Off Btm: 2012.02.02 @ 16:14:15

TEST COMMENT: IF: BOB @ 1 min.
 IS: No return.
 FF: BOB @ 2 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.45	109.14	Initial Hydro-static
1	335.70	108.54	Open To Flow (1)
30	1121.70	126.47	Shut-In (1)
92	1280.56	121.62	End Shut-In (1)
92	1120.36	121.61	Open To Flow (2)
132	1280.53	124.99	Shut-In (2)
214	1281.07	123.81	End Shut-In (2)
215	2028.75	123.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2540.00	mcw 3m 97w	12.49
190.00	mcw 30m 70w	0.93

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Oil Co, Inc.

20-10s-34w Thomas, KS

250 N Water STE 300
Wichita, KS 67202

Frahm A #1-20

Job Ticket: 44417

DST#: 2

ATTN: Robert Stolzle

Test Start: 2012.02.02 @ 10:47:00

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:40:00

Time Test Ended: 18:51:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4283.00 ft (KB) To 4379.00 ft (KB) (TVD)

Reference Elevations: 3244.00 ft (KB)

Total Depth: 4379.00 ft (KB) (TVD)

3231.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8522 Inside

Press @ Run Depth: psig @ 4286.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.02 End Date: 2012.02.02

Last Calib.: 2012.02.02

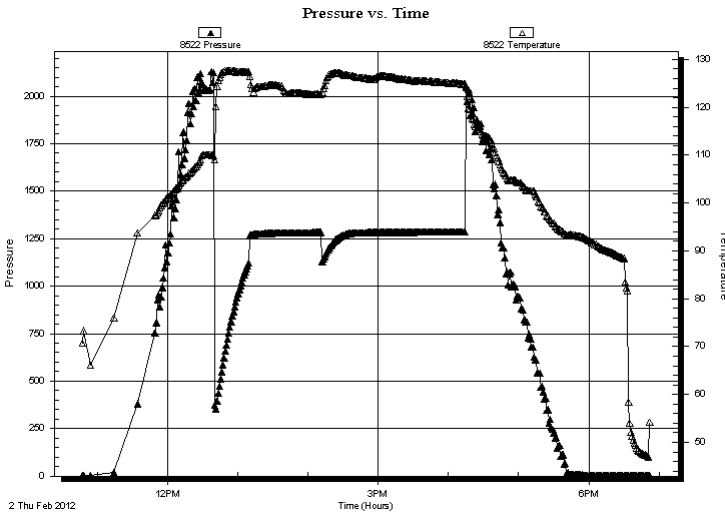
Start Time: 10:47:00 End Time: 18:52:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 1 min.
IS: No return.
FF: BOB @ 2 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
2540.00	mcw 3m 97w	12.49
190.00	mcw 30m 70w	0.93

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Oil Co, Inc.

20-10s-34w Thomas,KS

250 N Water STE 300
Wichita, KS 67202

Frahm A #1-20

Job Ticket: 44417

DST#: 2

ATTN: Robert Stolzle

Test Start: 2012.02.02 @ 10:47:00

Tool Information

Drill Pipe:	Length: 4262.00 ft	Diameter: 2.25 inches	Volume: 20.96 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 20.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4283.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	96.00 ft			
Tool Length:	123.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4257.00	
Shut In Tool	5.00			4262.00	
Hydraulic tool	5.00			4267.00	
Jars	5.00			4272.00	
Safety Joint	2.00			4274.00	
Packer	5.00			4279.00	27.00 Bottom Of Top Packer
Packer	4.00			4283.00	
Stubb	1.00			4284.00	
Perforations	2.00			4286.00	
Recorder	0.00	8677	Inside	4286.00	
Recorder	0.00	8522	Inside	4286.00	
Perforations	24.00			4310.00	
Change Over Sub	1.00			4311.00	
Drill Pipe	64.00			4375.00	
Change Over Sub	1.00			4376.00	
Bullnose	3.00			4379.00	96.00 Bottom Packers & Anchor
Total Tool Length:	123.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Oil Co, Inc.

20-10s-34w Thomas,KS

250 N Water STE 300
Wichita, KS 67202

Frahm A #1-20

Job Ticket: 44417

DST#: 2

ATTN: Robert Stolzle

Test Start: 2012.02.02 @ 10:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

115000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2540.00	mcw 3m 97w	12.491
190.00	mcw 30m 70w	0.934

Total Length: 2730.00 ft Total Volume: 13.425 bbl

Num Fluid Samples: 0

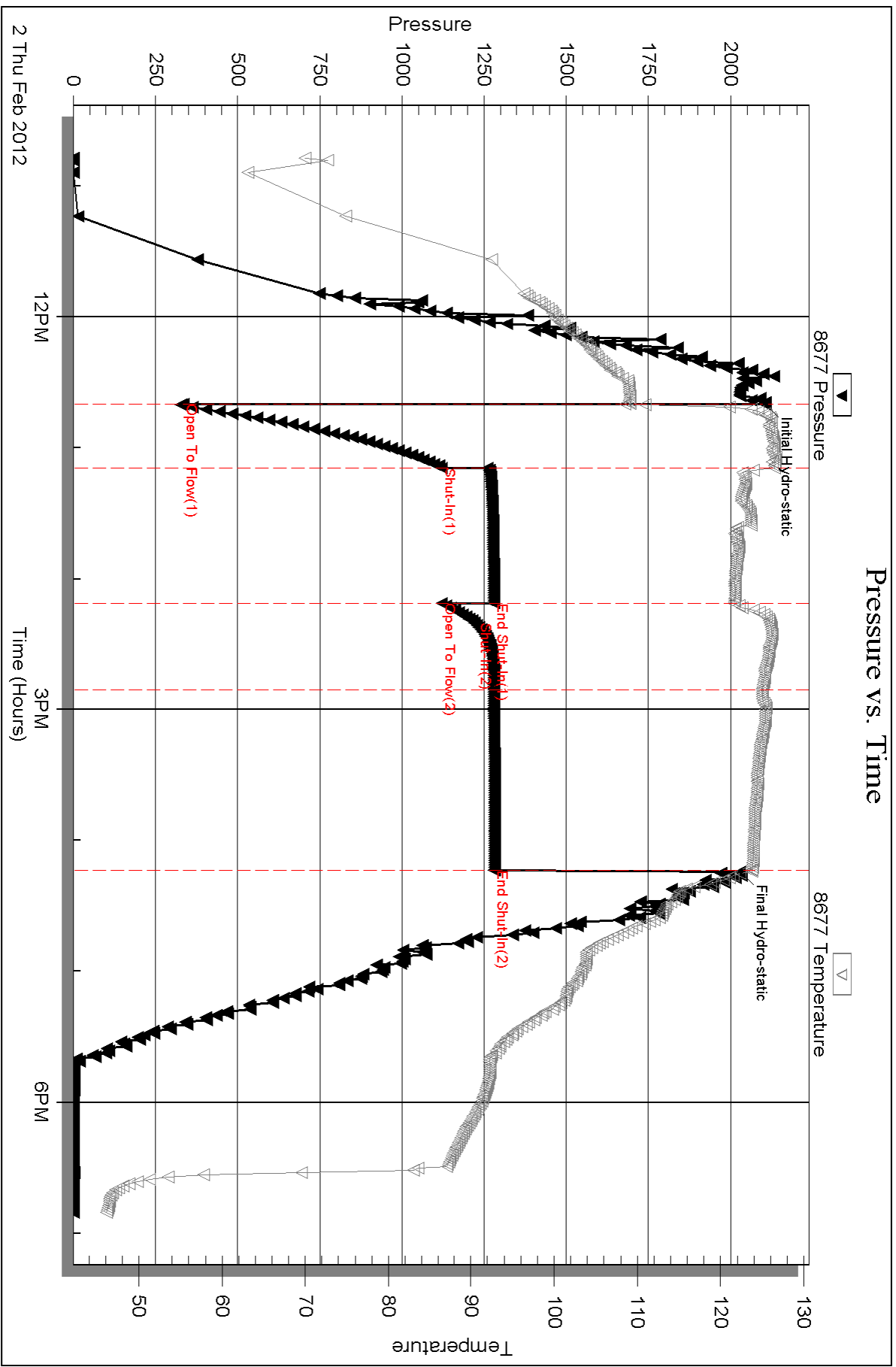
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .099 @ 50



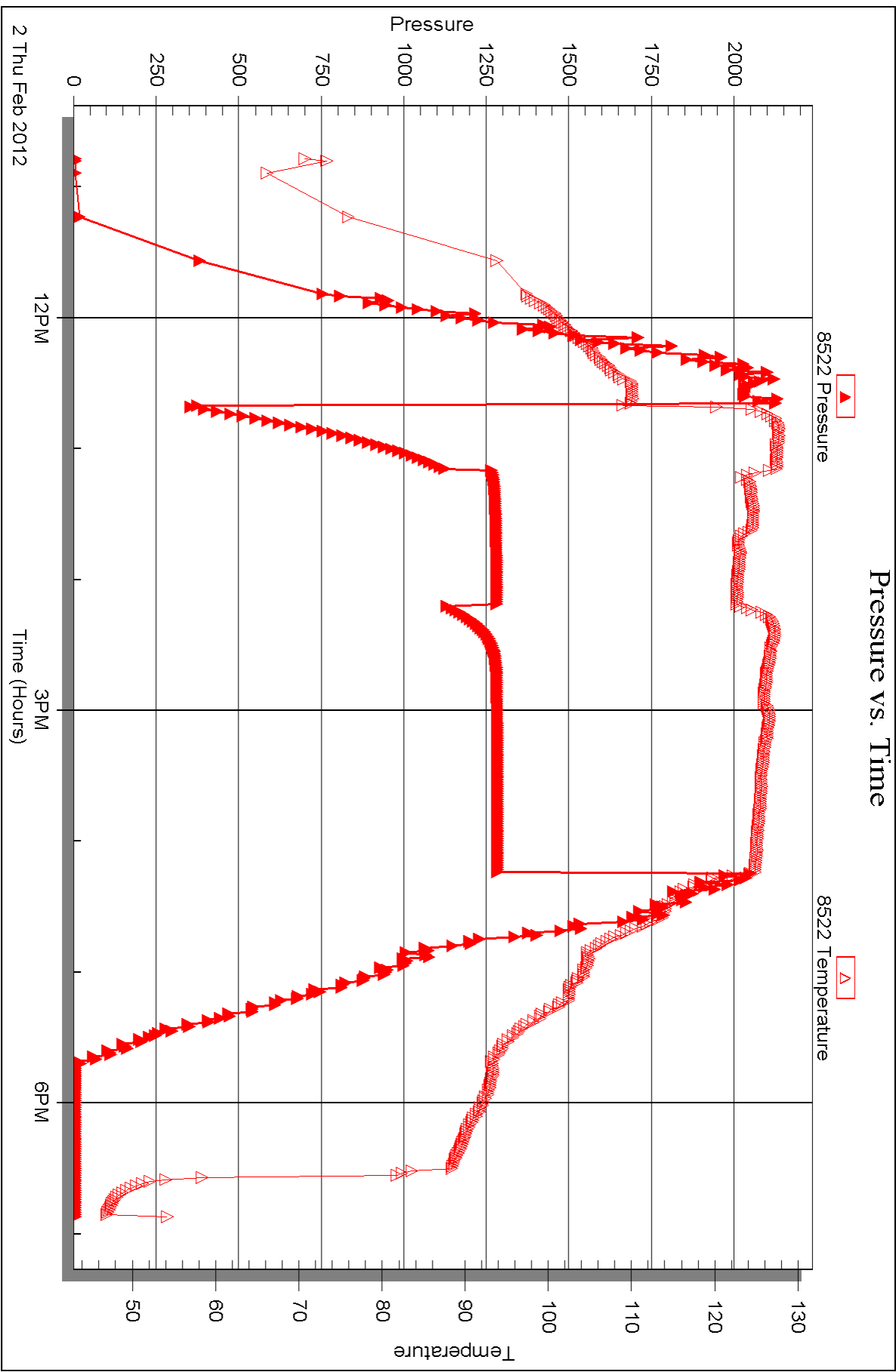
Serial #: 8522

Inside

Murfin Oil Co, Inc.

Frahm A #1-20

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Oil Co, Inc.**

250 N Water STE 300
Wichita, KS 67202

ATTN: Robert Stolzle

Frahm A #1-20

20-10s-34w Thomas,KS

Start Date: 2012.02.03 @ 04:07:00

End Date: 2012.02.03 @ 13:37:15

Job Ticket #: 44418 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.16 @ 10:24:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Oil Co, Inc.

20-10s-34w Thomas, KS

250 N Water STE 300
Wichita, KS 67202

Frahm A #1-20

Job Ticket: 44418

DST#: 3

ATTN: Robert Stolzle

Test Start: 2012.02.03 @ 04:07:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:48:30

Time Test Ended: 13:37:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4376.00 ft (KB) To 4420.00 ft (KB) (TVD)

Reference Elevations: 3244.00 ft (KB)

Total Depth: 4420.00 ft (KB) (TVD)

3231.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8677

Inside

Press @ Run Depth: 257.38 psig @ 4379.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.03

End Date: 2012.02.03

Last Calib.: 2012.02.03

Start Time: 04:07:15

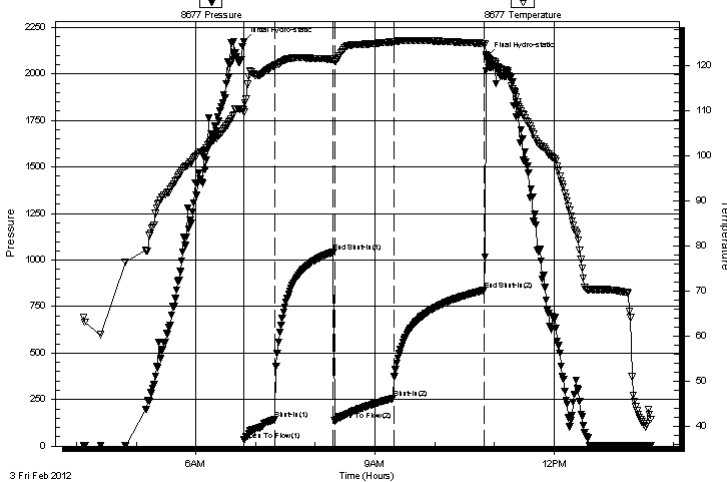
End Time: 13:37:15

Time On Btm: 2012.02.03 @ 06:48:15

Time Off Btm: 2012.02.03 @ 10:52:00

TEST COMMENT: IF: BOB @ 12 min.
IS: No return.
FF: BOB @ 22 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2171.54	110.31	Initial Hydro-static
1	33.31	109.69	Open To Flow (1)
31	145.00	120.07	Shut-In(1)
90	1043.68	121.42	End Shut-In(1)
91	136.69	120.97	Open To Flow (2)
151	257.38	125.27	Shut-In(2)
242	837.34	124.92	End Shut-In(2)
244	2092.51	122.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
510.00	10m 90w	2.51

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Oil Co, Inc.

20-10s-34w Thomas,KS

250 N Water STE 300
Wichita, KS 67202

Frahm A #1-20

Job Ticket: 44418

DST#: 3

ATTN: Robert Stolzle

Test Start: 2012.02.03 @ 04:07:00

Tool Information

Drill Pipe:	Length: 4357.00 ft	Diameter: 2.25 inches	Volume: 21.43 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 73000.00 lb
			<u>Total Volume: 21.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4376.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4350.00	
Shut In Tool	5.00			4355.00	
Hydraulic tool	5.00			4360.00	
Jars	5.00			4365.00	
Safety Joint	2.00			4367.00	
Packer	5.00			4372.00	27.00 Bottom Of Top Packer
Packer	4.00			4376.00	
Stubb	1.00			4377.00	
Perforations	2.00			4379.00	
Recorder	0.00	8677	Inside	4379.00	
Recorder	0.00	8522	Inside	4379.00	
Perforations	5.00			4384.00	
Change Over Sub	1.00			4385.00	
Drill Pipe	31.00			4416.00	
Change Over Sub	1.00			4417.00	
Bullnose	3.00			4420.00	44.00 Bottom Packers & Anchor
Total Tool Length:	71.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Oil Co, Inc.

20-10s-34w Thomas,KS

250 N Water STE 300
Wichita, KS 67202

Frahm A #1-20

Job Ticket: 44418

DST#: 3

ATTN: Robert Stolze

Test Start: 2012.02.03 @ 04:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

63000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
510.00	10m90w	2.508

Total Length: 510.00 ft Total Volume: 2.508 bbl

Num Fluid Samples: 0

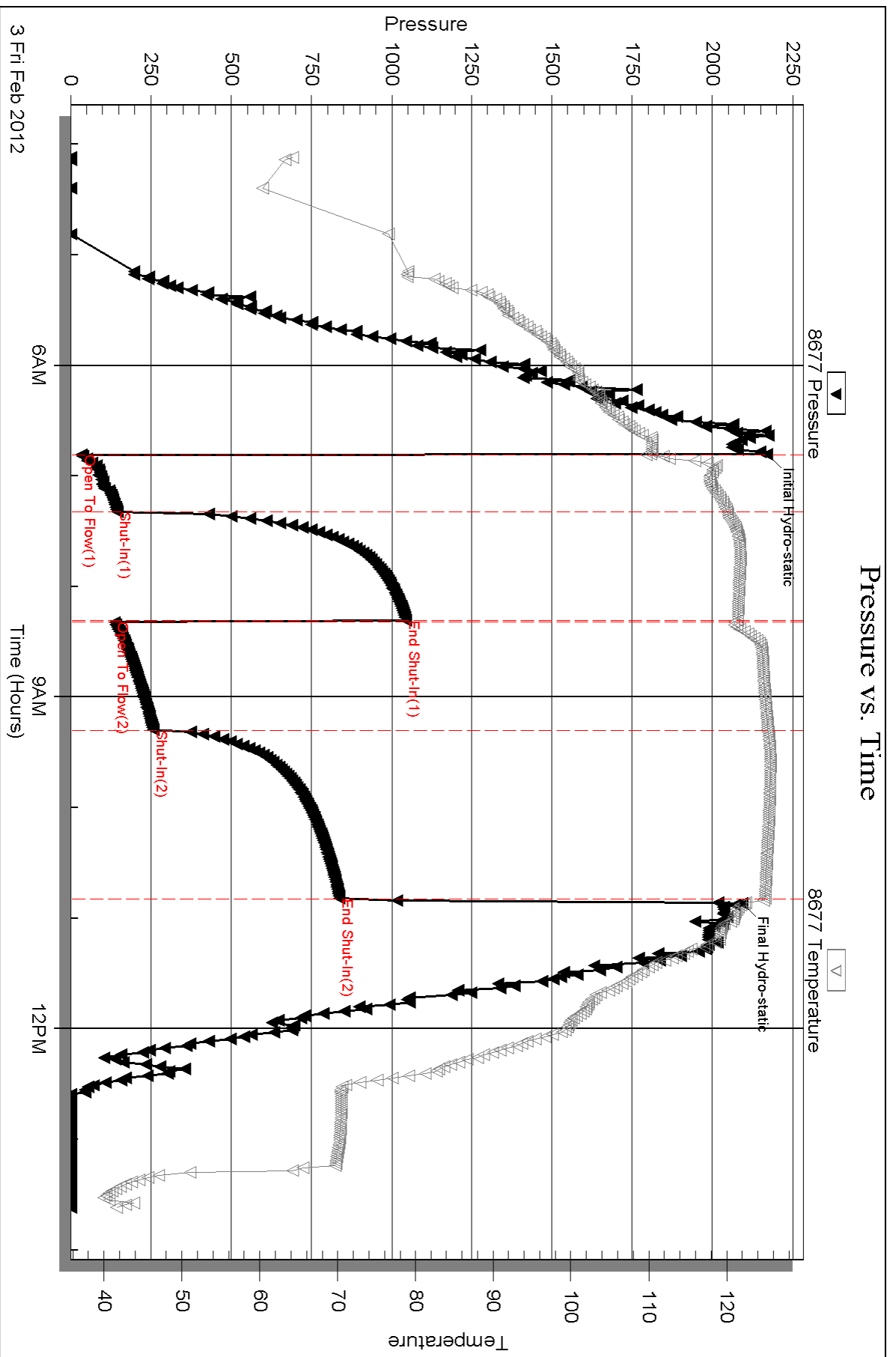
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .130 @ 59 = 63000ppm



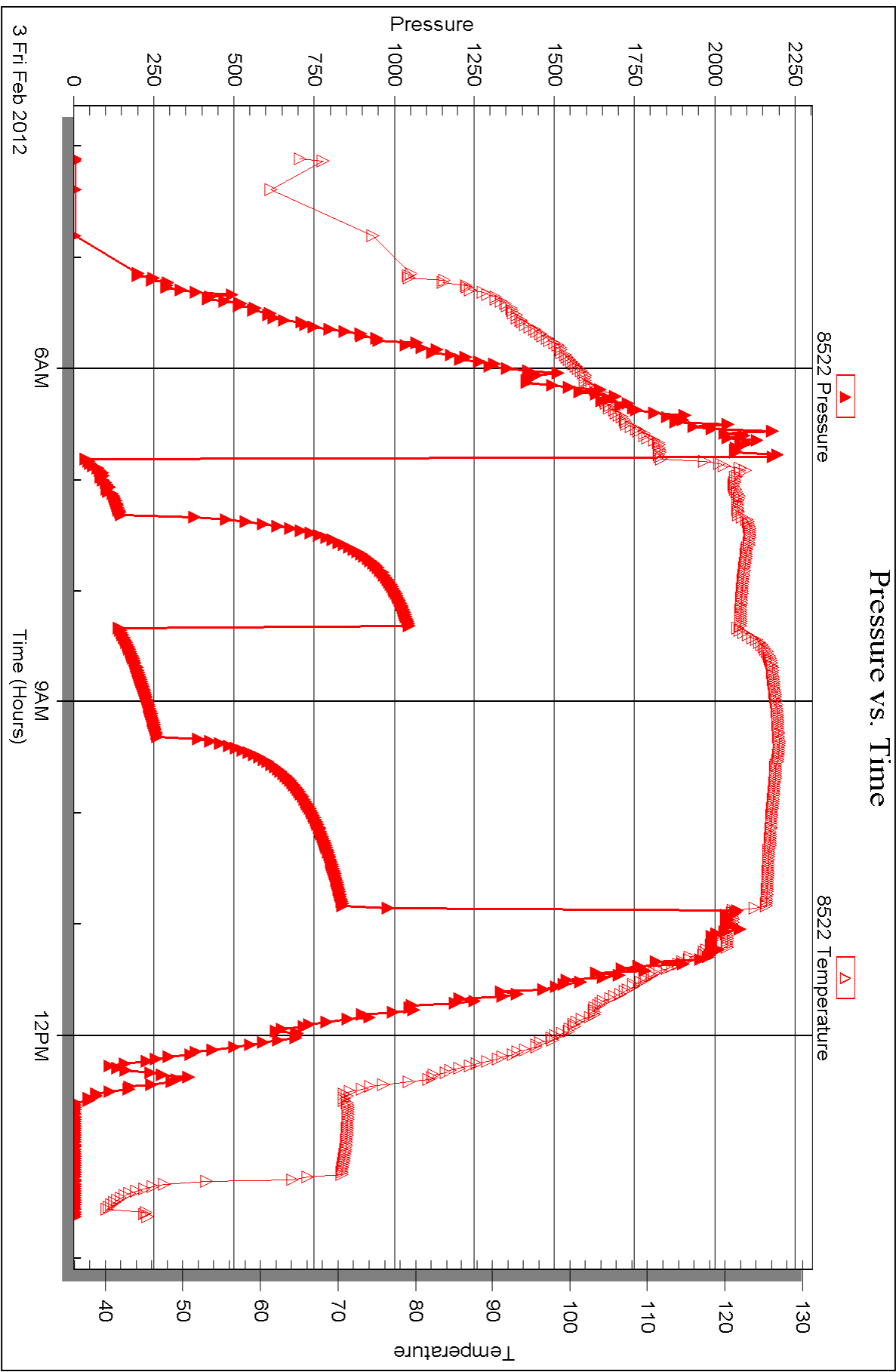
Serial #: 8522

Inside

Murfin Oil Co, Inc.

Frahm A #1-20

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Oil Co, Inc.**

250 N Water STE 300
Wichita, KS 67202

ATTN: Robert Stolze

Frahm A #1-20

20-10s-34w Thomas,KS

Start Date: 2012.02.04 @ 13:35:00

End Date: 2012.02.04 @ 23:38:45

Job Ticket #: 44419 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.16 @ 10:23:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Oil Co, Inc.

20-10s-34w Thomas, KS

250 N Water STE 300
Wichita, KS 67202

Frahm A #1-20

Job Ticket: 44419

DST#: 4

ATTN: Robert Stolzle

Test Start: 2012.02.04 @ 13:35:00

GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:05:30

Time Test Ended: 23:38:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4612.00 ft (KB) To 4635.00 ft (KB) (TVD)

Reference Elevations: 3244.00 ft (KB)

Total Depth: 4635.00 ft (KB) (TVD)

3231.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8677 Inside

Press @ Run Depth: 104.84 psig @ 4615.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.04

End Date: 2012.02.04

Last Calib.: 2012.02.04

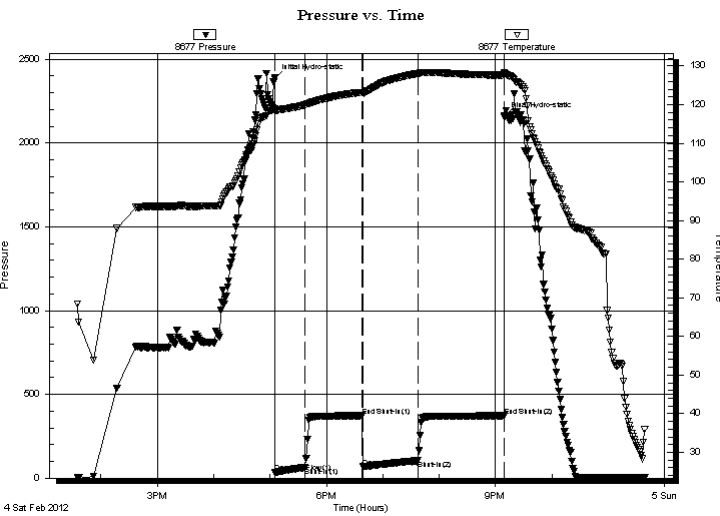
Start Time: 13:35:15

End Time: 23:38:45

Time On Btm: 2012.02.04 @ 17:05:00

Time Off Btm: 2012.02.04 @ 21:09:00

TEST COMMENT: IF: 3" blow.
IS: No return.
FF: 5" blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2385.19	118.90	Initial Hydro-static
1	34.33	118.31	Open To Flow (1)
32	63.45	119.94	Shut-In(1)
93	372.19	123.19	End Shut-In(1)
94	67.19	123.12	Open To Flow (2)
152	104.84	128.03	Shut-In(2)
244	371.66	127.59	End Shut-In(2)
244	2157.72	128.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	mcw 30m 70w (oil puddle on top)	1.96

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Oil Co, Inc.

20-10s-34w Thomas,KS

250 N Water STE 300
Wichita, KS 67202

Frahm A #1-20

Job Ticket: 44419

DST#: 4

ATTN: Robert Stolzle

Test Start: 2012.02.04 @ 13:35:00

Tool Information

Drill Pipe:	Length: 4605.00 ft	Diameter: 3.80 inches	Volume: 64.60 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 64.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4612.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4586.00	
Shut In Tool	5.00			4591.00	
Hydraulic tool	5.00			4596.00	
Jars	5.00			4601.00	
Safety Joint	2.00			4603.00	
Packer	5.00			4608.00	27.00 Bottom Of Top Packer
Packer	4.00			4612.00	
Stubb	1.00			4613.00	
Perforations	2.00			4615.00	
Recorder	0.00	8677	Inside	4615.00	
Recorder	0.00	8522	Inside	4615.00	
Perforations	17.00			4632.00	
Bullnose	3.00			4635.00	23.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Oil Co, Inc.

20-10s-34w Thomas,KS

250 N Water STE 300
Wichita, KS 67202

Frahm A #1-20

Job Ticket: 44419

DST#: 4

ATTN: Robert Stolze

Test Start: 2012.02.04 @ 13:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

95000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	mcw 30m 70w (oil puddle on top)	1.964

Total Length: 140.00 ft Total Volume: 0.688 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .185 @ 50 = 95000ppm

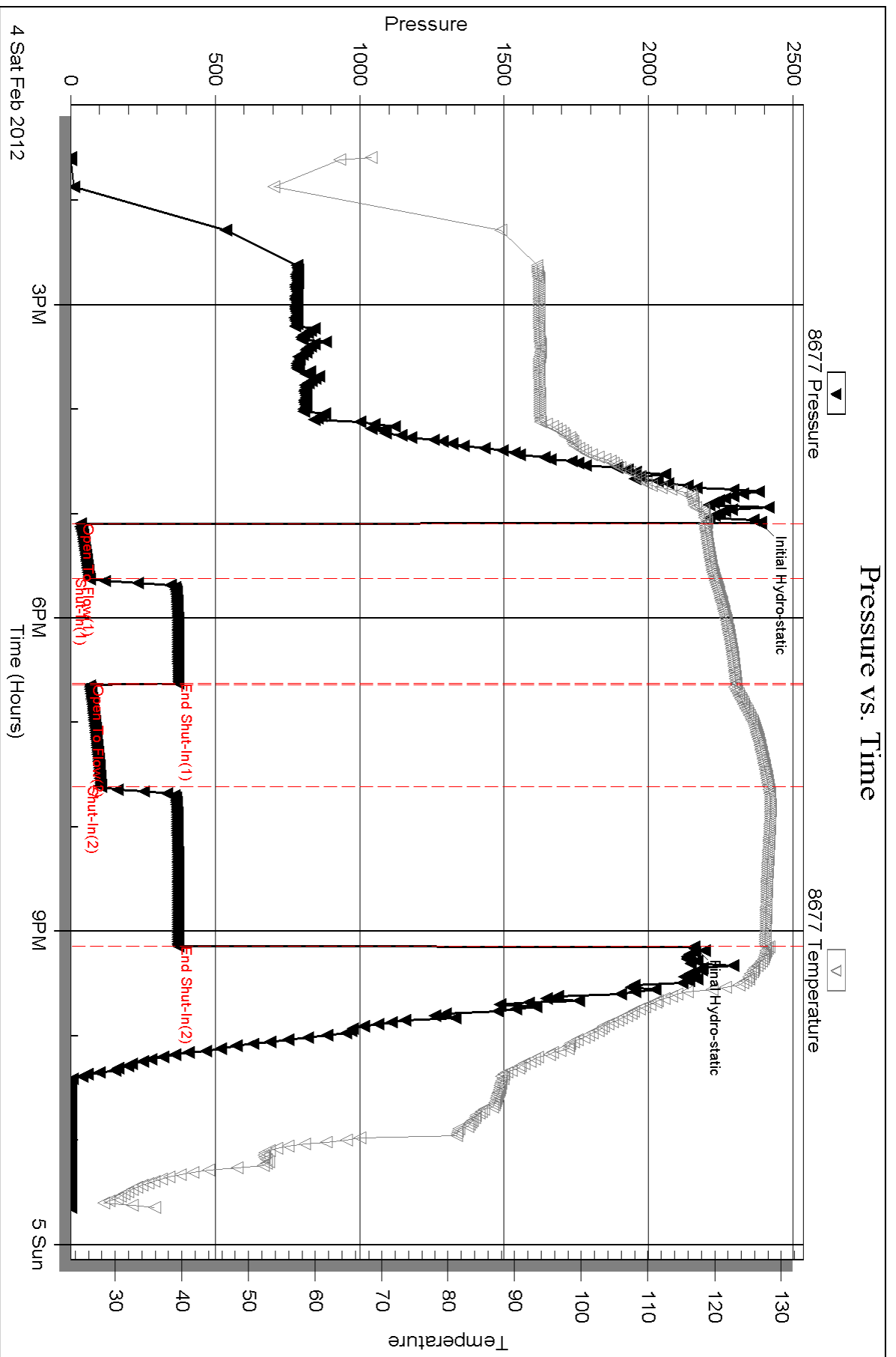
Serial #: 8677

Inside

Murfin Oil Co, Inc.

Frahm A #1-20

DST Test Number: 4



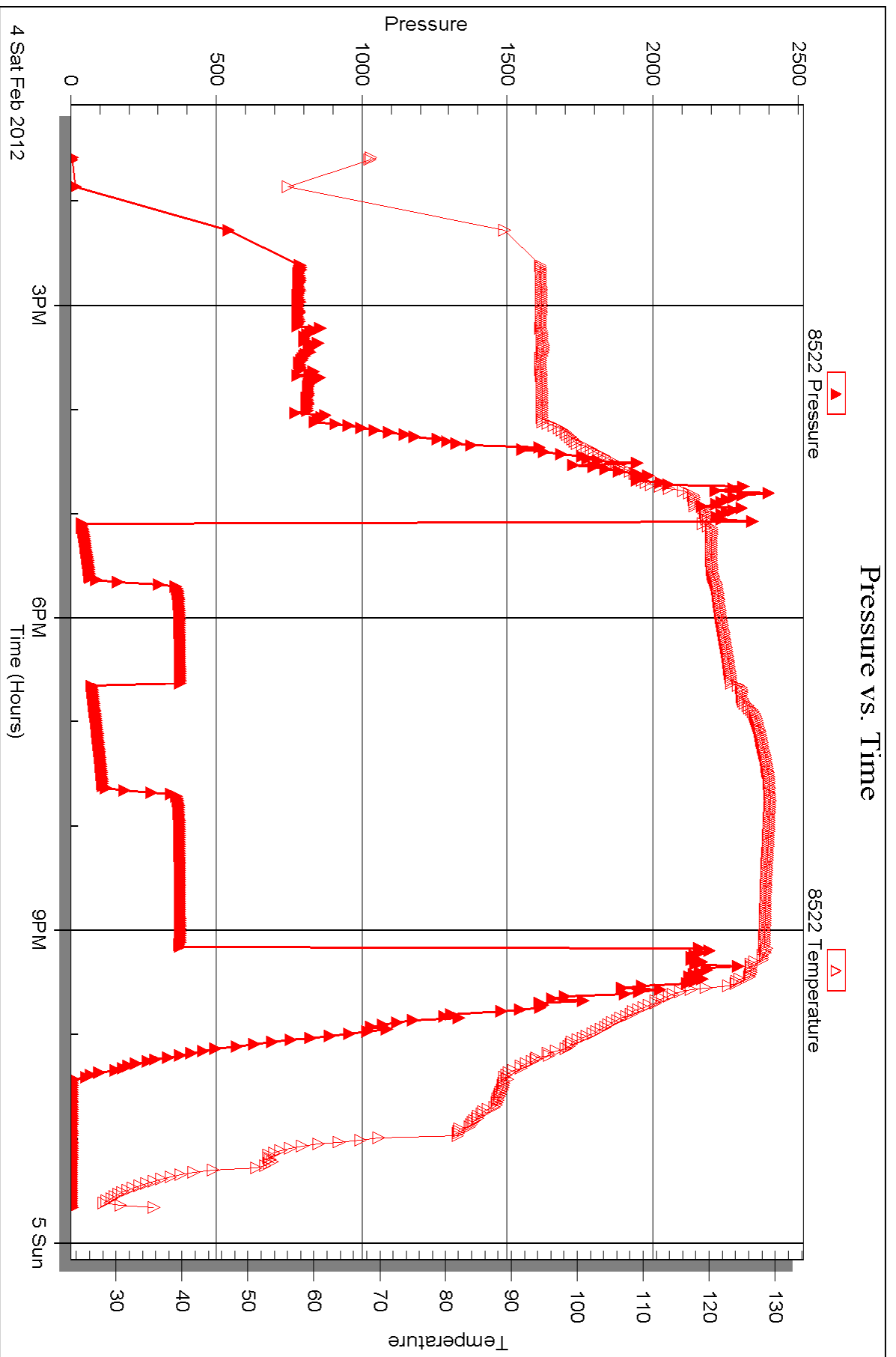
Serial #: 8522

Inside

Murfin Oil Co., Inc.

Frahm A #1-20

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Drake #1-22

22-5s-33w Rawlins KS

Start Date: 2012.02.12 @ 13:36:00

End Date: 2012.02.12 @ 20:04:30

Job Ticket #: 45569 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.16 @ 10:01:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N. Water Suite 300
 Wichita, KS 67202
 ATTN: Rocky Milford

22-5s-33w Rawlins KS

Drake #1-22

Job Ticket: 45569

DST#: 5

Test Start: 2012.02.12 @ 13:36:00

GENERAL INFORMATION:

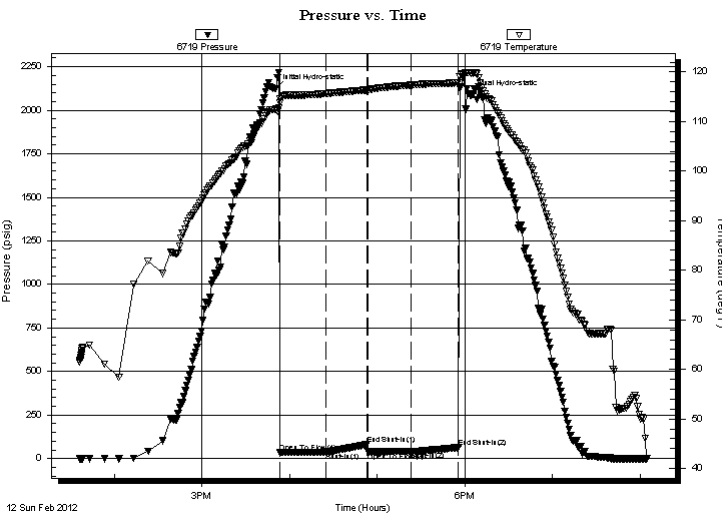
Formation: **Ft. Scott - Celia**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:53:00
 Time Test Ended: 20:04:30
 Interval: **4342.00 ft (KB) To 4402.00 ft (KB) (TVD)**
 Total Depth: 4402.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 3014.00 ft (KB)
 3009.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 40.25 psig @ 4343.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.12 End Date: 2012.02.12 Last Calib.: 2012.02.12
 Start Time: 13:36:05 End Time: 20:04:29 Time On Btm: 2012.02.12 @ 15:50:30
 Time Off Btm: 2012.02.12 @ 18:03:30

TEST COMMENT: 30 - IF: 1 1/2" surge blow, Bled off, Blow built to 1/8" in 15 min., on/off blow at 1/8" till close
 30 - IS: Bled off, No blow back (Diesel in Bucket)
 30 - FF: on/off surface blow, dead after 18 min.
 30 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.46	112.49	Initial Hydro-static
3	34.00	113.73	Open To Flow (1)
34	37.59	115.66	Shut-In(1)
63	81.76	116.39	End Shut-In(1)
63	38.89	116.40	Open To Flow (2)
93	40.25	117.37	Shut-In(2)
125	63.42	117.85	End Shut-In(2)
133	2087.52	119.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	Mud 100%	0.29
0.00	Trace of oil in Tool	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

22-5s-33w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Drake #1-22

Job Ticket: 45569

DST#: 5

ATTN: Rocky Milford

Test Start: 2012.02.12 @ 13:36:00

Tool Information

Drill Pipe:	Length: 4134.00 ft	Diameter: 3.80 inches	Volume: 57.99 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 58.91 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4342.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Tool chased 2' to bottom at open - No mud loss at top

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4319.00	
Hydraulic tool	5.00			4324.00	
Jars	5.00			4329.00	
Safety Joint	3.00			4332.00	
Packer	5.00			4337.00	28.00 Bottom Of Top Packer
Packer	5.00			4342.00	
Stubb	1.00			4343.00	
Recorder	0.00	6719	Inside	4343.00	
Recorder	0.00	8320	Outside	4343.00	
Perforations	20.00			4363.00	
Blank Spacing	32.00			4395.00	
Perforations	4.00			4399.00	
Bullnose	3.00			4402.00	60.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

22-5s-33w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Drake #1-22

Job Ticket: 45569

DST#: 5

ATTN: Rocky Milford

Test Start: 2012.02.12 @ 13:36:00

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:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

dbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume dbl
58.00	Mud 100%	0.285
0.00	Trace of oil in Tool	0.000

Total Length: 58.00 ft Total Volume: 0.285 dbl

Num Fluid Samples: 0

Num Gas Bombs: 0

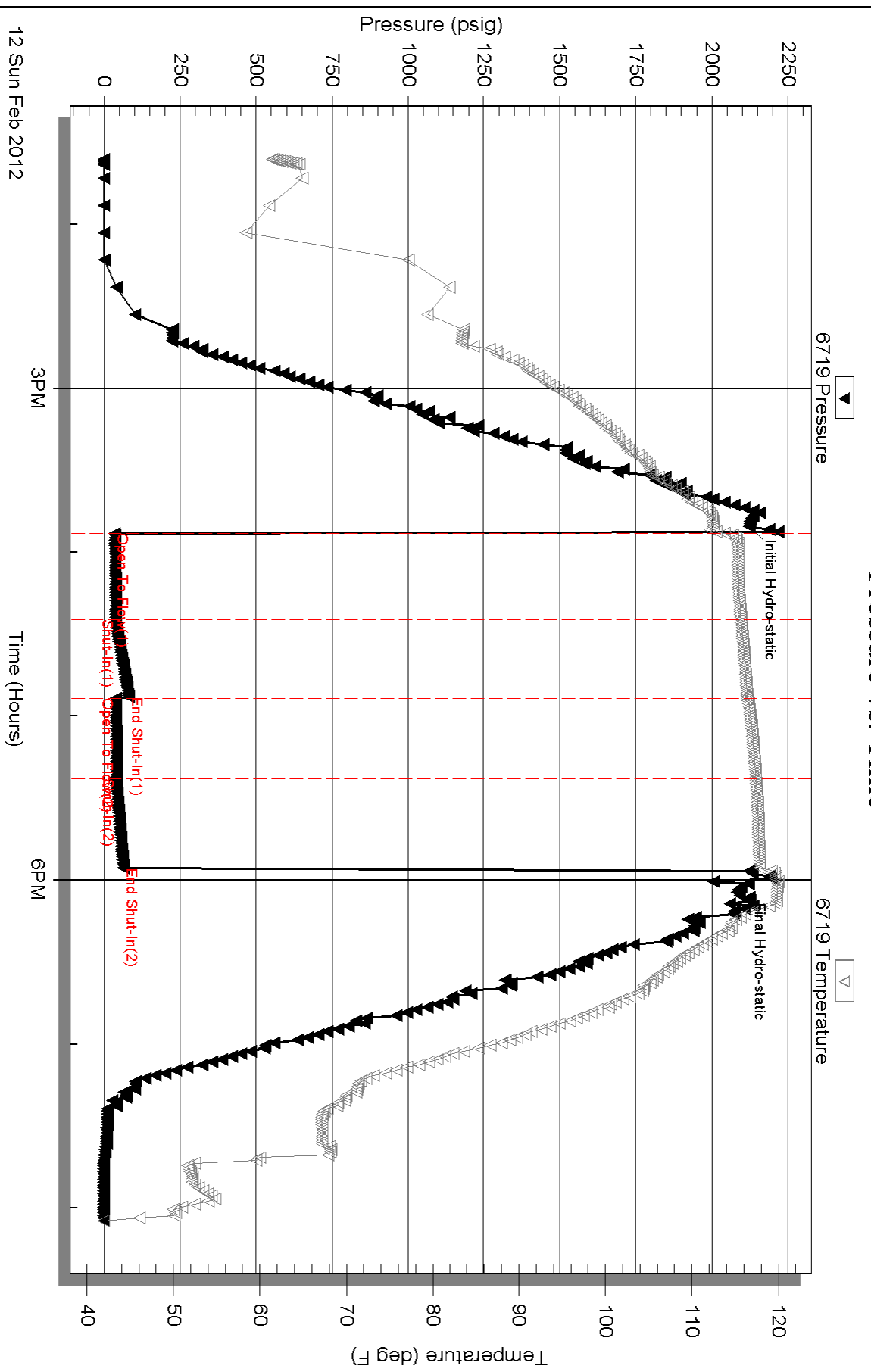
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

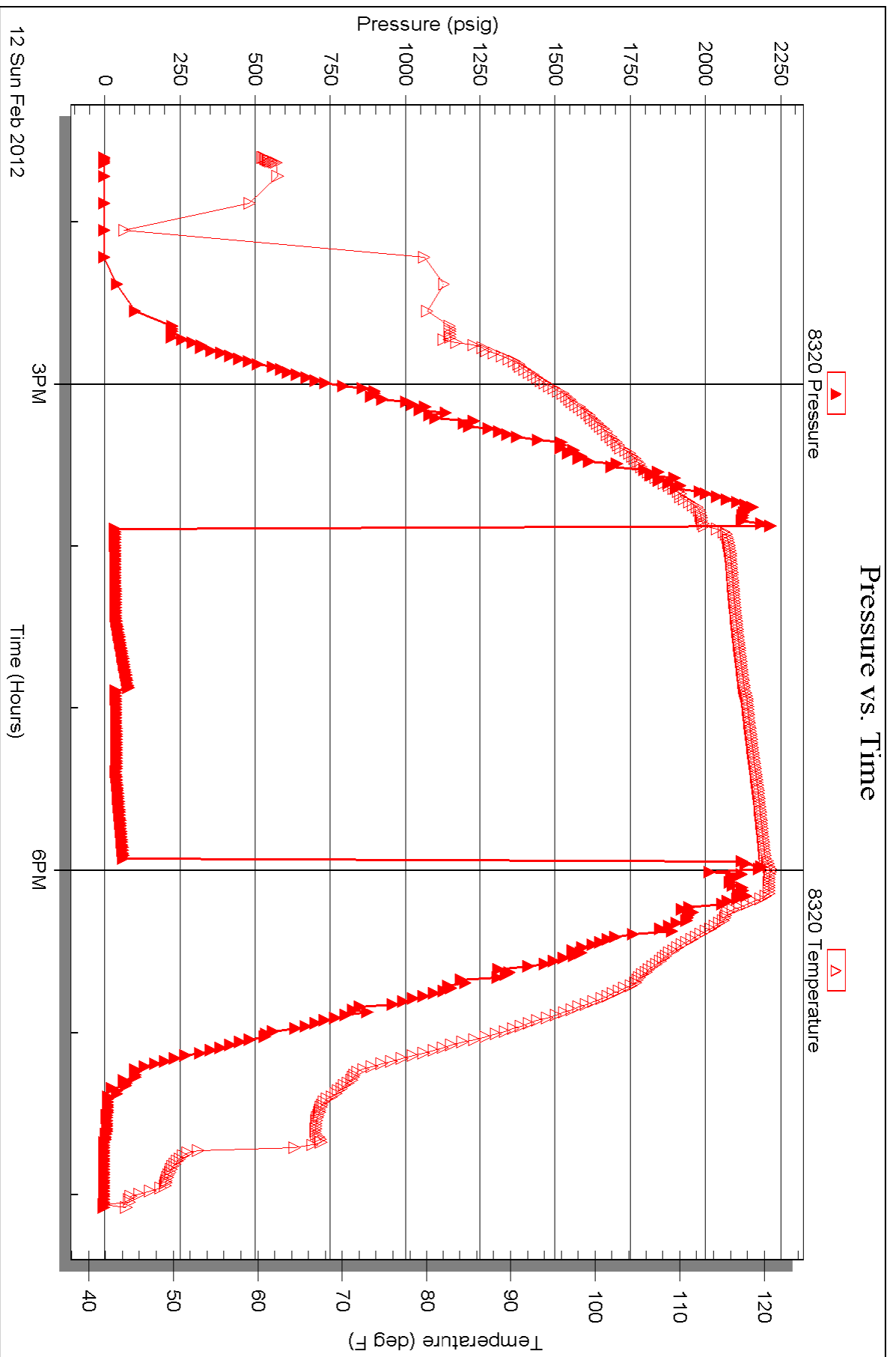


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Drake #1-22

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 15 2012

Test Ticket

NO. 44416

4/10

BY: _____

Well Name & No. Frahn A #1-20 Test No. 1 Date 02/01/12
 Company Murkin Drilling Co, Inc. Elevation 3244 KB 3231 GL
 Address 250 N Water STE 300 Wichita, ks 67202
 Co. Rep / Geo. Robert Stolze Rig Murkin 25
 Location: Sec. 20 Twp. 10S Rge. 34W Co. Thomas State Ks

Interval Tested 4102 - 4180 Zone Tested Toronto - Lkc "A"
 Anchor Length 78 Drill Pipe Run 4103 Mud Wt. 9.1
 Top Packer Depth 4097 Drill Collars Run 0 Vis 22
 Bottom Packer Depth 4102 Wt. Pipe Run 0 WL 6.0
 Total Depth 4180 Chlorides 4,000 ppm System LCM 6#

Blow Description IF: BOB @ 13 min.
BSJ: No return.
FF: BOB @ 19 min
FSI: No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>170</u>	<u>SO WCM</u>		<u>1</u>	<u>25</u>	<u>74</u>
<u>570</u>	<u>MCW (OIL SPOTS)</u>			<u>90</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 710 BHT 122 Gravity — API RW .142 @ 56 °F Chlorides 70,000 ppm

(A) Initial Hydrostatic 2027 Test 1225' T-On Location 0600
 (B) First Initial Flow 31 Jars 250 T-Started 0702
 (C) First Final Flow 146 Safety Joint 75' T-Open 0943
 (D) Initial Shut-In 1228 Circ Sub N/C T-Pulled 1313
 (E) Second Initial Flow 137 Hourly Standby _____ T-Out 1541
 (F) Second Final Flow 311 Mileage 134 67 R/T 187.60 Comments _____
 (G) Final Shut-In 1214 Sampler _____
 (H) Final Hydrostatic 1962 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 60 Day Standby _____ Total 1737.60
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____

Sub Total 1737.60
 Approved By Robert Stolze, Agent Our Representative [Signature]

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 15 2012

Test Ticket

NO. 44417

4/10

BY: _____

Well Name & No. Frahm A #1-20 Test No. 2 Date 02/02/12
 Company Murkin Drilling Co, Inc Elevation 3244 KB 3231 GL
 Address 250 N Water STE 300 Wichita, Ks 67202
 Co. Rep / Geo. Robert Stolze Rig Murkin 25
 Location: Sec. 20 Twp. 10s Rge. 34w Co. Thomas State Ks

Interval Tested 4283 - 4397 Zone Tested LKC-HI&J
 Anchor Length 96' Drill Pipe Run 4262 Mud Wt. 9.1
 Top Packer Depth 4278 Drill Collars Run Ø Vis 53
 Bottom Packer Depth 4283 Wt. Pipe Run Ø WL 5.6
 Total Depth 4397 Chlorides 4800 ppm System LCM 8#
 Blow Description IF: BOB 1 min.
ISI: No return
FF: BOB 2 min.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>190</u>	<u>MCW</u>			<u>70</u>	<u>30</u>
<u>2540</u>	<u>MCW</u>			<u>97</u>	<u>3</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2730 BHT 125 Gravity - API RW 0.99 @ 50 °F Chlorides 115,000 ppm

(A) Initial Hydrostatic	<u>2104</u>	<input checked="" type="checkbox"/> Test	<u>1225'</u>	T-On Location	<u>Ø740</u>
(B) First Initial Flow	<u>336</u>	<input checked="" type="checkbox"/> Jars	<u>250'</u>	T-Started	<u>1047</u>
(C) First Final Flow	<u>1122</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75'</u>	T-Open	<u>1240</u>
(D) Initial Shut-In	<u>1281</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>1610</u>
(E) Second Initial Flow	<u>1120</u>	<input type="checkbox"/> Hourly Standby	<u>1 hr 100'</u>	T-Out	<u>1852</u>
(F) Second Final Flow	<u>1281</u>	<input checked="" type="checkbox"/> Mileage	<u>134 R/T 187.60</u>	Comments	
(G) Final Shut-In	<u>1281</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2029</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>Ø</u>
Final Shut-In	<u>90</u>	<input type="checkbox"/> Day Standby		Total	<u>1837.60</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1837.60</u>		

Approved By Robert Stolze

Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 15 2012

Test Ticket

NO. 44418

4/10

BY: _____

Well Name & No. Frahn A* 1-20 Test No. 3 Date 02/03/12
 Company Martin Drilling Co, Inc Elevation 3244 KB 3231 GL
 Address 250 N Water STE 300 Wichita, Ks 67202
 Co. Rep / Geo. Robert Stolze Rig Martin 25
 Location: Sec. 20 Twp. 16s Rge. 34w Co. Thomas State Ks

Interval Tested 4376 ~~4420 4283 4347~~ Zone Tested LKC "K"
 Anchor Length 44' Drill Pipe Run 4357 Mud Wt. 9.10
 Top Packer Depth 4371 Drill Collars Run 0 Vis 53
 Bottom Packer Depth 4376 Wt. Pipe Run 0 WL 5.6
 Total Depth 4420 Chlorides 4600 ppm System LCM 6#
 Blow Description IF: BOB @ 12 min.
ISI: No return.
FF: BOB @ 24 min.
FSI: No return.

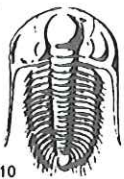
Rec	Feet of	%gas	%oil	%water	%mud
<u>510</u>					

Rec Total 510 BHT 127 Gravity — API RW .130 @ 59 °F Chlorides 63,000 ppm

(A) Initial Hydrostatic <u>2172</u>	<input checked="" type="checkbox"/> Test <u>1225'</u>	T-On Location <u>0330</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0644 0403</u>
(C) First Final Flow <u>145</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>0649</u>
(D) Initial Shut-In <u>1044</u>	<input checked="" type="checkbox"/> Circ Sub <u>1/2</u>	T-Pulled <u>1049</u>
(E) Second Initial Flow <u>137</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1337</u>
(F) Second Final Flow <u>257</u>	<input checked="" type="checkbox"/> Mileage <u>134 2/2 187.60</u>	Comments _____
(G) Final Shut-In <u>837</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2093</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1737.60</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1737.60</u>	

Approved By Robert Stolze, Agent Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 15 2012
BY: _____

Test Ticket

NO. 44419

Well Name & No. Frahm #1-20 Test No. 4 Date 02/04/12
 Company Murkin Drilling Co, Inc Elevation 3244 KB 3231 GL
 Address 250 N Water STE 300 Wichita, Ks 67202
 Co. Rep / Geo. Robert Stolzle Rig Murkin 25
 Location: Sec. 20 Twp. 10S Rge. 34W Co. Thomas State Ks

Interval Tested 4612 - 4635 Zone Tested Myrc Station
 Anchor Length 23 Drill Pipe Run 4605 Mud Wt. 0.1
 Top Packer Depth 4607 Drill Collars Run 0 Vis 53
 Bottom Packer Depth 4612 Wt. Pipe Run 0 WL 6.6
 Total Depth 4635 Chlorides 8200 ppm System LCM 8th
 Blow Description IF: 3" blow.
ISI: No return.
FF: 5" blow.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>mcw 30</u>		<u>70</u>	<u>30</u>	
	<u>ore puddle at Top</u>				

Rec Total 140 BHT 128 Gravity API RW .183 @ 50 ° F Chlorides 75,000 ppm

(A) Initial Hydrostatic 2385 Test 1225 T-On Location 0730
 (B) First Initial Flow 34 Jars 250 T-Started 1335
 (C) First Final Flow 63 Safety Joint 75 T-Open 1707
 (D) Initial Shut-In 372 Circ Sub N/C T-Pulled 2107
 (E) Second Initial Flow 67 Hourly Standby 6 1/4 hrs 625 T-Out 2340
 (F) Second Final Flow 105 Mileage 134 R/T 187.60 Comments Survey stuck in string
 (G) Final Shut-In 372 Sampler _____ 5 hrs to locate/remove
 (H) Final Hydrostatic 2158 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby 5 hrs Total 2362.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2362.60

Approved By Robert Stolzle Agent

Our Representative _____



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 15 2012

Test Ticket

NO. 44420

Well Name & No. Frahm #1-20 BY: _____ Test No. 5 Date 02/05/12
 Company Mudra Drilling Co, Inc Elevation 3244 KB 3231 GL _____
 Address 250 N Water STE 300 Wichita, Ks 67202
 Co. Rep / Geo. Robert Stolze Rig Mudra 25
 Location: Sec. 20 Twp. 10s Rge. 34w Co. Thomas State Ks

Interval Tested 4673 4740 Zone Tested Johnson
 Anchor Length 67 Drill Pipe Run 4666 Mud Wt. 9.2
 Top Packer Depth 4668 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 4673 Wt. Pipe Run 0 WL 7.2
 Total Depth 4740 Chlorides 9700 ppm System LCM 8#
 Blow Description IF: 5" blow
ISI: No return
FF: Bob @ 31 min.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OIL</u>		<u>100</u>		
<u>140</u>	<u>GMCO</u>	<u>20</u>	<u>50</u>		<u>30</u>
	<u>400' GIP</u>				

Rec Total 145 BHT 122 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2418</u>	<input checked="" type="checkbox"/> Test <u>1225"</u>	T-On Location <u>1400</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>250"</u>	T-Started <u>1557</u>
(C) First Final Flow <u>48</u>	<input checked="" type="checkbox"/> Safety Joint <u>75"</u>	T-Open <u>1817</u>
(D) Initial Shut-In <u>360</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2217</u>
(E) Second Initial Flow <u>52</u>	<input type="checkbox"/> Hourly Standby <u>1 1/4 hrs 125"</u>	T-Out <u>0113 02/06/12</u>
(F) Second Final Flow <u>84</u>	<input checked="" type="checkbox"/> Mileage <u>134 RT 187.60</u>	Comments _____
(G) Final Shut-In <u>355</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2328</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1862.60</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1862.60</u>	

Approved By Robert Stolze, Agent Our Representative [Signature]

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Sig H. acct.

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 129994
Invoice Date: Jan 27, 2012
Page: 1

Voice: (817) 546-7282
Fax: (817) 246-3361

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

Federal Tax I.D.#: 20-8651475

OPERATOR PAY MDC

LEASE: Frahm A 1-20 / *brm*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Frahm A #1-20	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jan 27, 2012	2/26/12

Quantity	Item	Description	Unit Price	Amount
200.00	MAT	Class A Common	16.25	3,250.00
7.00	MAT	Chloride	21.25	148.75
207.00	SER	Handling	2.25	465.75
20.00	SER	Mileage 207 sx @.11	22.77	455.40
1.00	SER	Surface	1,125.00	1,125.00
20.00	SER	Pump Truck Mileage	7.00	140.00
1.00	SER	Manifold Head Rental	200.00	200.00
20.00	SER	Light Vehicle Mileage	4.00	80.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Jerry Yates		
1.00	OPER ASSIST	Chris Helpingstine		

Subtotal	5,864.90
Sales Tax	248.11
Total Invoice Amount	6,113.01
Payment/Credit Applied	
TOTAL	6,113.01

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

\$ 2052.71

ONLY IF PAID ON OR BEFORE
Feb 21, 2012

PKD

WV

- 2052.71

4060.30

ALLIED CEMENTING CO., LLC. 035323

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Oakley

DATE <u>1-27-12</u>	SEC. <u>20</u>	TWP. <u>10</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00</u>	JOB FINISH <u>12:30 AM</u>
LEASE <u>Frahm A</u>	WELL # <u>1-20</u>	LOCATION <u>monument 2W 2N</u>			COUNTY <u>Thomas</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		4W 2 1/2 N W into					

CONTRACTOR <u>Murfin 25</u>	OWNER <u>same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>220'</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>269'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>16.17</u>	
EQUIPMENT	
PUMP TRUCK # <u>423-281</u>	CEMENTER <u>Andrew</u>
BULK TRUCK # <u>404</u>	HELPER <u>Jerry</u>
BULK TRUCK #	DRIVER <u>Chris</u>
BULK TRUCK #	DRIVER
REMARKS:	
<u>Cement did circulate</u>	
<u>Thank you</u>	

CEMENT	AMOUNT ORDERED <u>200 sks com 3%cc</u>
COMMON	<u>200 sks @ 16.25 3250.00</u>
POZMIX	@
GEL	@
CHLORIDE	<u>7 sks @ 21.25 148.75</u>
ASC	@
	@
	@
	@
	@
	@
	@
	@
HANDLING	<u>207 sks @ 2.125 465.75</u>
MILEAGE	<u>110.55/mile 455.40</u>
TOTAL <u>4319.90</u>	

CHARGE TO: Murfin

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE	
DEPTH OF JOB <u>269'</u>	
PUMP TRUCK CHARGE	<u>1125.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>20 miles</u>	<u>@ 7.00 140.00</u>
MANIFOLD <u>head</u>	<u>@ 200.00</u>
<u>Light vehicle</u>	<u>@ 4.00 80.00</u>
	@
TOTAL <u>1545.00</u>	

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.

PRINTED NAME Raymond Blank

SIGNATURE [Signature]

SALES TAX (if Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS



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



Invoice

DATE	INVOICE #
2/16/2012	21198

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661
USED FOR <u>IC 103</u>
APPROVED <u>JR</u>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-20	Frahm A	Thomas	Murfin Drilling	Oil	Development	Cement Port Collar	Dave
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				90	Miles	6.00	540.00
576D-D	Pump Charge - Port Collar				1	Job	1,250.00	1,250.00
290	D-Air				2	Gallon(s)	35.00	70.00T
330	Swift Multi-Density Standard (MIDCON II)				200	Sacks	16.50	3,300.00T
276	Flocele				200	Lb(s)	2.00	400.00T
581D	Service Charge Cement				400	Sacks	2.00	800.00
583D	Drayage				1,846.8	Ton Miles	1.00	1,846.80
	Subtotal							8,206.80
	Sales Tax Thomas County						7.30%	275.21
We Appreciate Your Business!							Total	\$8,482.01



CHARGE TO: Murphy Oil
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET No 21198

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>MKS</u>	WELL/PROJECT NO. <u>1-20</u>	LEASE <u>FRALIM A</u>	COUNTY/PARISH <u>Thomas</u>	STATE <u>KS</u>	CITY	DATE <u>08-16-12</u>	OWNER
2. <u>MKS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME NO. <u>MURPHY</u>	SHIPPED VIA <u>EX</u>	DELIVERED TO <u>S. COBBY</u>	ORDER NO.	
3.	WELL TYPE <u>OIL</u>	WELL CATEGORY <u>JEWELOP</u>	JOB PURPOSE <u>CMT. Part Culum</u>	WELL PERMIT NO.		WELL LOCATION	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE #/12	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575		1			MILEAGE #/12	92	m				6.00	540.00
576-D		1			Pump Service	1	ea				1250.00	1250.00
290		1			D-Air	2	hr				35.00	70.00
330		2			SMD CMT	200	hr				16.50	3300.00
276		2			FLOCE	200	lb				2.00	400.00
581		2			SERVICE CMT CMT	400	hr				2.00	800.00
583		2			MATERIALS	1846.8	tm				1.00	1846.80

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 08-16-12 TIME SIGNED 11:15 A.M. P.M.

SWIFT OPERATOR Dave Blair APPROVAL _____

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

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	8206.30
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Thomas TAX 07 7.376	275.21
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	8482.01
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

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 03-16-12 PAGE NO. 1

CUSTOMER MURPHY DRILL WELL NO. 1-20 LEASE FRAHM A JOB TYPE CMT: PORT COLUMN TICKET NO. 21198

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1115							ON LOCATION CMT: 400 SXS SMD w/ 1/2" FROGGER 10 SXS GEL 2 3/8 x 4 1/2 PORT COLUMN @ 2704
	1125		1.0	-	✓	1000	1000	PSZ TEST OPEN PC
	1127	3.0	3.0	✓		500		INJECTION RATE, CROWN BLOW
	1128	3.5	0	✓		600		START CMT
		4.5	7.0	-	✓	800		CIRC MUD
		4.5	100.0	-	✓	900		CIRC CMT TO PIT!
		4.5	107.0	-		900		END CMT
		4.5	0	-		900		START DISP
	1157	4.5	9.5	-		900		END CLOSE AC
	1200			-	✓	1200	1200	PSZ TEST HOLD RUN IN 6 JOINTS
	1215	2.5	0		✓		400	REVI. OUT
			10.0		-			1ST FLM
			14.0		-			2ND FLM
			16.0		-			CLEAN
	1230		30.0		-			END
								TOTAL CMT 000565 155-45 TO PIT
	1315							JOB COMPLETE THANK YOU! DAVE, JERRY B. WAYNE



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



Invoice

DATE	INVOICE #
2/7/2012	21280

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661
APPROVED _____

USED FOR 10103
APPROVED SM

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-20	Frahm A	Thomas	Company Rig	Oil	Development	Cement LongStri...	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	6.00	480.00
578D-L	Pump Charge - Long String - 4898 Feet				1	Job	1,500.00	1,500.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
403-4	4 1/2" Cement Basket				2	Each	250.00	500.00T
404-4	4 1/2" Port Collar				1	Each	2,400.00	2,400.00T
406-4	4 1/2" Latch Down Plug & Baffle				1	Each	225.00	225.00T
407-4	4 1/2" Insert Float Shoe With Auto Fill				1	Each	300.00	300.00T
409-4	4 1/2" Turbolizer				15	Each	70.00	1,050.00T
413-4	4 1/2" Roto Wall Scratcher				5	Each	40.00	200.00T
419-4	4 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				275	Sacks	13.50	3,712.50T
276	Flocele				69	Lb(s)	2.00	138.00T
283	Salt				1,375	Lb(s)	0.20	275.00T
284	Calseal				13	Sack(s)	35.00	455.00T
285	CFR-1				130	Lb(s)	4.00	520.00T
581D	Service Charge Cement				275	Sacks	2.00	550.00
583D	Drayage				1,148.68	Ton Miles	1.00	1,148.68
	Subtotal							15,004.18
	Sales Tax Thomas County						7.30%	826.76

We Appreciate Your Business!

Total

\$15,830.94



CHARGE TO: Merwin Day, Co.
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET No 21280
 PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <u>Yogas</u>	<u>1-20</u>	<u>Erham A'</u>	<u>Thomas</u>	<u>Ks</u>		<u>2-7-12</u>	
2. <u>Ness City, Ks</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>A-Ris</u>	RIG NAME/NO. <u># 25</u>	SHIPPED VIA <u>315</u>	DELIVERED TO <u>S/Calby, Ks</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Infield</u>	JOB PURPOSE <u>Revent Longstring</u>	WELL PERMIT NO.		WELL LOCATION	
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					MILEAGE #113	80	mi				600	48000
578					Revent Change - cut Longstring	1	ea			4698	At	150000
231					Liquid KCL	4	gal					22000
280					Fls - Check 31	500	gal					125000
403					Revent Brackets	2	ea			4 1/2	in	50000
404					Revent Brackets	1	ea			4 1/2	in	24000
406					Left Drill Plug & Baffle	1	ea			4 1/2	in	22500
407					Insert Flapshoe w/ A&S-All	1	ea			4 1/2	in	30000
409					Toolbars	15	ea			4 1/2	in	20000
413					Rot Well Scrapers	5	ea			5 1/2	ft.	30000
419					Ratings Head Reel	1	ea			4 1/2	in	30000

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

DATE SIGNED 2-7-12 TIME SIGNED 12:00 A.M. P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	820500
WE UNDERSTOOD AND MET YOUR NEEDS?				2	673418
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				3	150004
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				4	1498418
ARE YOU SATISFIED WITH OUR SERVICE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	150004
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				6	82676
TOTAL					15,830,194

SWIFT OPERATOR: Alan Swanson APPROVAL: Alan Swanson
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 Thank You!



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

TICKET CONTINUATION

TICKET No. 21280

CUSTOMER *Martin Dig Co*

WELL *1-20 Fraham 'A'*

DATE *2-7-12*

PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT		
		LOC	ACCT	DF			QTY	UM			QTY	UM
<i>385</i>		<i>2</i>				<i>Structural Cement</i>	<i>275</i>	<i>SKS</i>	<i>35852</i>	<i>lbs</i>	<i>1352</i>	<i>3712.50</i>
<i>276</i>		<i>2</i>				<i>Flux</i>	<i>69</i>	<i>lbs</i>	<i>200</i>		<i>200</i>	<i>138.00</i>
<i>283</i>		<i>2</i>				<i>Salt</i>	<i>1375</i>	<i>lbs</i>	<i>180</i>		<i>180</i>	<i>275.00</i>
<i>284</i>		<i>2</i>				<i>Colseal</i>	<i>1293</i>	<i>lbs</i>	<i>13</i>	<i>SKS</i>	<i>35</i>	<i>455</i>
<i>285</i>		<i>2</i>				<i>CFR-1</i>	<i>130</i>	<i>lbs</i>	<i>400</i>		<i>400</i>	<i>520.00</i>
<i>581</i>		<i>2</i>				<i>Cement</i>	<i>275</i>	<i>SKS</i>	<i>200</i>		<i>200</i>	<i>550.00</i>
<i>583</i>		<i>2</i>				<i>MILEAGE CHARGE</i>	<i>28717</i>	<i>lbs</i>	<i>570</i>		<i>100</i>	<i>1148.08</i>
SERVICE CHARGE							<i>275</i>	<i>SKS</i>	<i>200</i>		<i>200</i>	<i>550.00</i>
TOTAL WEIGHT							<i>28717</i>	<i>lbs</i>	<i>570</i>		<i>100</i>	<i>1148.08</i>
LOADED MILES							<i>1148.08</i>	<i>Ton</i>	<i>700</i>		<i>79</i>	<i>6734.18</i>
CUBIC FEET							<i>275</i>	<i>SKS</i>	<i>200</i>		<i>200</i>	<i>550.00</i>
TON MILES							<i>1148.08</i>	<i>Ton</i>	<i>700</i>		<i>79</i>	<i>6734.18</i>

CONTINUATION TOTAL *79*

JOB LOG

SWIFT Services, Inc.

DATE 2-7-12 PAGE NO. 1

CUSTOMER Marlow Drilling Co. WELL NO. 1-20 LEASE Frahm 'A' JOB TYPE Cement Logging TICKET NO. 21980

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	NOON	1200				10 1/2"	4 1/2"	4900' On location w/ float equip - Rechanging over to run 4 1/2" to 4898' (114 JTs)
	1330							St. casing - Insert Float Shoe w/ Auto-fill LD Baffle - 5J-21 1/2 @ 4876'
								Cent - 1 thru 14 and #50
								Cut Baskets 50 & 51
								P.C #51 @ 2748'
	1430							Cir 1/2 way in @ #58' - 1/2 Hr.
								Drop fill up ball - 5 JTs out.
	1615							Fin run csng - Tag bottom.
	1625							st. cir / Rotate casing
	1725							Fin cir. - Hook to Swift
	1735	5"	15"				400	Pump 75 BBI KCL Flush
		5"	12"				400	Pump 50 gal Mochack-21
		5"	5"				400	Pump 5 BBI KCL spacer
								Fill Tanks
		4 1/2"					350	Start 2.25 SKS EA-2 - Down Hole
			55"				vac	Fin out - Wash out Pump lines
	1800	9					400	Drop LD Plug - Start Displ
		9/7	52				500	Caught out - slow rate
		6	70				500 500	slow rate
	1815		77 1/2"				1050 1600	Plug Down - Held - Release & Held
								Plug RH - 30 SKS EA-2
								LH - 20 SKS EA-2
	1830							Job Complete Wash up / Rekey
								Thanks Dan, Brian & Doug
	1900							