



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1232160
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: _____

1232160

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> _____				
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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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Virginia 'A' 1-11
Doc ID	1232160

All Electric Logs Run

DIL
DUCP
MEL
BHCS

ALLIED OIL & GAS SERVICES, LLC 063317

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Cadby

Virginia
A 1-11

DATE <u>8-6-14</u>	SEC <u>11</u>	TWP. <u>1</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION <u>8:00pm</u>	JOB START <u>8:30pm</u>	JOB FINISH <u>9:00pm</u>
LEASE <u>Virginia A</u>	WELL # <u>1-11</u>	LOCATION <u>Beardsley N to RR W 206</u>	COUNTY <u>Rawlins</u>	STATE <u>KS</u>			
OLD OR <u>NEW</u> (Circle one)			<u>2 1/2 N W + N into</u>				

CONTRACTOR MurFin 2
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 222'
CASING SIZE 8 5/8 DEPTH 222'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 13.05 BBL
EQUIPMENT
PUMP TRUCK CEMENTER Andrew Farmland
431 HELPER Brandon W. Kinross
BULK TRUCK
386 DRIVER Esteban (TWS)
BULK TRUCK
DRIVER

OWNER same
CEMENT
AMOUNT ORDERED 220 stb com 360
COMMON 220 stb @ 17.90 3938.00
POZMIX @
GEL @
CHLORIDE 620# @ 1.10 682.00
ASC @
Metric Total @ 4620.00
(1617.00/35%)
HANDLING 23/cy/ft @ 2.48 572.88
MILEAGE 2.25 mile @ 1065/mi 2489.43
TOTAL

REMARKS:

Cement did circulate
Thank you

CHARGE TO: MurFin
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 222'
PUMP TRUCK CHARGE 1512.25
EXTRA FOOTAGE @
MILEAGE 2.25 miles @ 2.20 495.00
MANIFOLD head @ 225.00
light vehicle @ 4.40 374.00
(2057.32/35%) TOTAL 5,878.06

PLUG & FLOAT EQUIPMENT

TOTAL _____

To: Allied Oil & Gas Services, 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 Armando Ceballos
SIGNATURE Armando Ceballos

SALES TAX (If Any) _____
TOTAL CHARGES 10,498.06
DISCOUNT 3,674.32 (35%) IF PAID IN 30 DAYS
6,823.73 Net.



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



Invoice

DATE	INVOICE #
8/15/2014	26685

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-11	Virginia A	Rawlins	Company Tools	Oil	Development	5-1/2" LongString	Wayne
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				170	Miles	6.00	1,020.00
579D	Pump Charge - Top To Bottom LongString - 4740 Feet				1	Job	2,000.00	2,000.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
403-5	5 1/2" Cement Basket				3	Each	300.00	900.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	375.00	375.00T
409-5	5 1/2" Turbolizer				15	Each	90.00	1,350.00T
413-5	5 1/2" Roto Wall Scratcher				10	Each	40.00	400.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				200	Sacks	14.50	2,900.00T
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	18.50	5,550.00T
276	Flocele				125	Lb(s)	2.50	312.50T
283	Salt				1,000	Lb(s)	0.20	200.00T
284	Calseal				9	Sack(s)	35.00	315.00T
285	CFR-1				150	Lb(s)	4.50	675.00T
290	D-Air				5	Gallon(s)	42.00	210.00T
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				4,324.38	Ton Miles	1.00	4,324.38
	Subtotal							22,731.88
	Sales Tax Rawlins County						7.90%	1,136.61
We Appreciate Your Business!							Total	\$23,868.49



TICKET 26685

CHARGE TO: MURPHY DRUGS CO. INC.
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

PAGE 1 OF 2

WELL PROJECT NO. 1-11 LEASE VERGINIA "A" COUNTY/PARISH RAWLINS STATE KS CITY _____ DATE 8-15-14 OWNER SAME

TICKET TYPE SERVICE SALES CONTRACTOR Co Tools RIG NAME/NO. _____ SHIPPED VIA CT ORDER NO. _____

WELL TYPE ORZ WELL CATEGORY Development JOB PURPOSE 5 1/2" LONGSTRING DELIVERED TO LOCATION WELL LOCATION W/ BEARDSLEY, KS

INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		1			MILEAGE # 111	170	MTE			6.00	1020.00
579		1			Pump Charge - Top to Bottom	1	NOB	4749	FT	2000.00	2000.00
221		1			LEADS KIL	4	GM			25.00	100.00
281		1			MUDFLUSH	500	GM			1.25	625.00
403		1			CEMENT BASKETS	3	EA	5 1/2"		300.00	900.00
406		1			LATCH DOWN PLUG - Baffle	1	EA			275.00	275.00
407		1			LASSY FLOAT SHADE w/AUTO FALL	1	EA			375.00	375.00
409		1			TURBOLIZERS	15	EA			90.00	1350.00
413		1			ROTOWALK SCRATCHERS	10	EA			40.00	400.00
419		1			ROTATING HEAD RENTAL	1	NOB			200.00	200.00

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

UN-DECIDED/AGREE _____ DIS-AGREE _____

PAGE TOTAL #1 7245.00

#2 15486.88

Subtotal 22,731.88
 TAX 1,136.61
 TOTAL 23,868.49

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 8-15-14 TIME SIGNED 0500 AM PM

SIGNED Wayne Wilson

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

SWIFT OPERATOR Wayne Wilson APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 8-15-14 PAGE NO.

CUSTOMER MURPHY DRUG, Co. Inc.

WELL NO. 1-11

LEASE VIRGINIA 1-11

JOB TYPE 5 1/2" LONGSTRENG

TICKET NO. 26685

CHART NO.	TIME	RATE (BPM)	VOLUME (BBQ) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0400							ON LOCATION
	0530							START 5 1/2" CASING TO WELL
								TD-4752 SETc 4740 TP-4740 5 1/2 # 15.5 SJ-21'
								TURBOLIZORS - 1,2,3,4,5,6,7,8,10,12,14,16,38,61 CMT BSKTS - 19,39,62
	0800							DROP BALL - CIRCULATE ROTATE
	0905	6	12		✓		500	PUMP 500 GAL MUD FLUSH
	0907	6	20		✓		500	PUMP 20BBLS KCL - FLUSH
	0912		7-5					PLUG RH (30SKS) MH (20SKS)
	0920	6 1/2	140		✓		400	MIX COMST - 250 SKS SMD @ 11.2 PPG
		5	48		✓		200	200 SKS EA2 @ 15.5 PPG
	0955							WASH OUT PUMP & LINES
	0955							RELEASE LATCH DOWN PLUG
	0957	7	0		✓			DISPLACE PLUG - 1 ST TANK KCL WATER
		6 1/2	110				1150	SHUT OFF ROTATING
	1015	6	112.3				1750	PLUG DOWN - PSE UP LATCH IN PLUG
	1020						OK	RELEASE PSE - HEAD WASH TRUCK
								CIRCULATED 40 SKS CEMENT TO POT
	1100							JOB COMPLETE
								THANK YOU WAYNE, DAVID E, CRAIG, PRESTON

Virginia 'A' #1-11
 Daily Drilling Report
 Page Two

8/14/14 RTD: 4752'. Cut 292'. DT: None. CT: 4¾ hrs. Dev.: None. HC @ 5:30AM 8/14. Wiper trip.

8/15/14 RTD: 4752'. CT: 24 hrs. Dev.: 1° @ 4752'. Pioneer logged 1:15PM – 5:30PM 8/14. LTD: 4754'. Running 5 ½" prod csg.

8/16/14 RTD: 4752'. CT: 7¼ hrs. Ran 113jts of 5 ½" prod csg, set @ 4740'. Swift cmt w/450sxs (250SMD, 200EA-2), PD @ 10:15AM 8/15. 30sxs RH, 20sxs MH. Circ 40sxs. RR @ 2:15PM 8/15. FINAL REPORT

MDCI Virginia 'A' #1-11 2270' FNL 2250' FEL Sec. 11-T1S-R36W 3222' KB							MDCI Burk Trust 'B' #1-14 330' FNL 1920' FEL Sec. 14-T1S-R36W 3280' KB		
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum	
Anhydrite	3155	+67	-7	3156	+66	-8	3206	+74	
B/Anhydrite	3187	+35	-1	3190	+32	-4	3244	+36	
Neva				3636	-414	Flat	3694	-414	
Red Eagle				3699	-477	-1	3756	-476	
Foraker	3746	-524	-1	3747	-525	-2	3803	-523	
Topeka	3956	-734	-1	3958	-736	-3	4013	-733	
Oread	4069	-847	+2	4071	-849	Flat	4129	-849	
Lansing	4170	-948	+2	4171	-949	+1	4230	-950	
Stark	4392	-1170	-4	4388	-1166	Flat	4446	-1166	
BKC				4436	-1214	+3	4497	-1217	
Pawnee	4561	-1339	+1	4562	-1340	Flat	4620	-1340	
Cherokee	4640	-1418	+4	4642	-1420	+2	4702	-1422	
RTD	4752	-1530					4800	-1520	
LTD				4754			4810	-1530	



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Virginia #1-11

11-1s-36w Rawlins,KS

Start Date: 2014.08.01 @ 15:00:30

End Date: 2014.08.01 @ 22:06:00

Job Ticket #: 58922 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.06 @ 13:45:05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 58922

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.08.01 @ 15:00:30

GENERAL INFORMATION:

Formation: **LKC A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:14:50

Time Test Ended: 22:06:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 77

Interval: 4120.00 ft (KB) To 4270.00 ft (KB) (TVD)

Reference Elevations: 3222.00 ft (KB)

Total Depth: 4270.00 ft (KB) (TVD)

3211.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8898 Outside

Press@RunDepth: 104.70 psig @ 4252.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.01

End Date:

2014.08.01

Last Calib.: 2014.08.01

Start Time: 15:00:31

End Time:

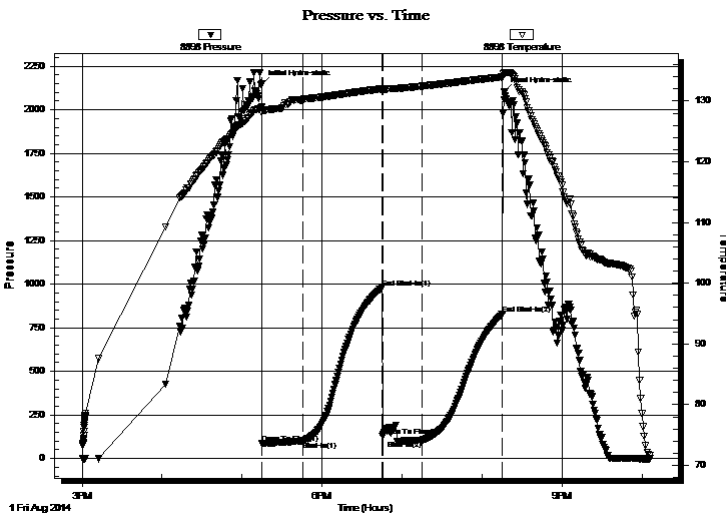
22:06:00

Time On Btm: 2014.08.01 @ 17:14:40

Time Off Btm: 2014.08.01 @ 20:16:50

TEST COMMENT: Weak surface blow built to 1/2 in
Dead no blow back
Dead no blow
Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2146.38	128.98	Initial Hydro-static
1	86.06	128.05	Open To Flow (1)
31	99.29	130.12	Shut-In(1)
91	976.93	132.00	End Shut-In(1)
91	128.69	131.67	Open To Flow (2)
121	104.70	132.45	Shut-In(2)
181	829.27	133.95	End Shut-In(2)
183	2103.87	134.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	OCM 30%O 70%M	0.27

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 58922

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.08.01 @ 15:00:30

GENERAL INFORMATION:

Formation: **LKC A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:14:50

Time Test Ended: 22:06:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 77

Interval: 4120.00 ft (KB) To 4270.00 ft (KB) (TVD)

Reference Elevations: 3222.00 ft (KB)

Total Depth: 4270.00 ft (KB) (TVD)

3211.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8897 Inside

Press@RunDepth: psig @ 4252.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.01

End Date:

2014.08.01

Last Calib.:

2014.08.01

Start Time: 15:00:31

End Time:

22:06:00

Time On Btm:

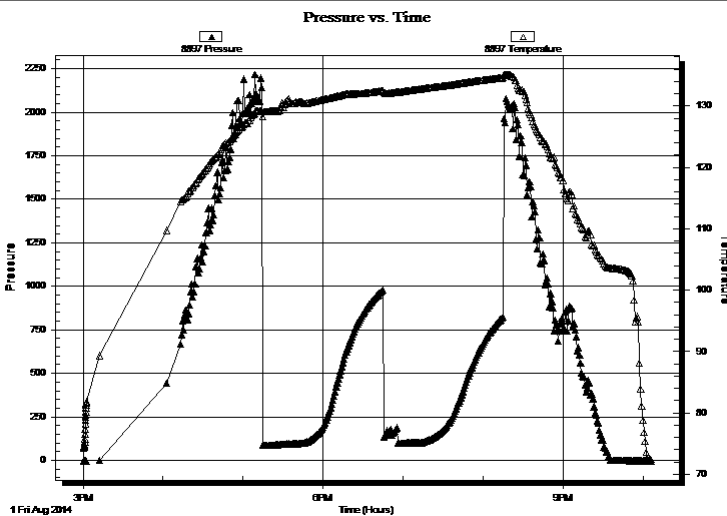
Time Off Btm:

TEST COMMENT: Weak surface blow built to 1/2 in

Dead no blow back

Dead no blow

Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
55.00	OCM 30%O 70%M	0.27

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 58922

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.08.01 @ 15:00:30

Tool Information

Drill Pipe:	Length: 3910.00 ft	Diameter: 3.80 inches	Volume: 54.85 bbl	Tool Weight: 2200.00 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 99000.00 lb
			<u>Total Volume: 55.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4120.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	150.00 ft			
Tool Length:	177.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4098.00	
Hydraulic tool	5.00			4103.00	
Jars	5.00			4108.00	
Safety Joint	2.00			4110.00	
Packer	5.00			4115.00	27.00 Bottom Of Top Packer
Packer	5.00			4120.00	
Stubb	1.00			4121.00	
Perforations	4.00			4125.00	
Change Over Sub	1.00			4126.00	
Drill Pipe	125.00			4251.00	
Change Over Sub	1.00			4252.00	
Recorder	0.00	8897	Inside	4252.00	
Recorder	0.00	8898	Outside	4252.00	
Perforations	15.00			4267.00	
Bullnose	3.00			4270.00	150.00 Bottom Packers & Anchor

Total Tool Length: 177.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 58922

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.08.01 @ 15:00:30

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	OCM 30%O 70%M	0.270

Total Length: 55.00 ft Total Volume: 0.270 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

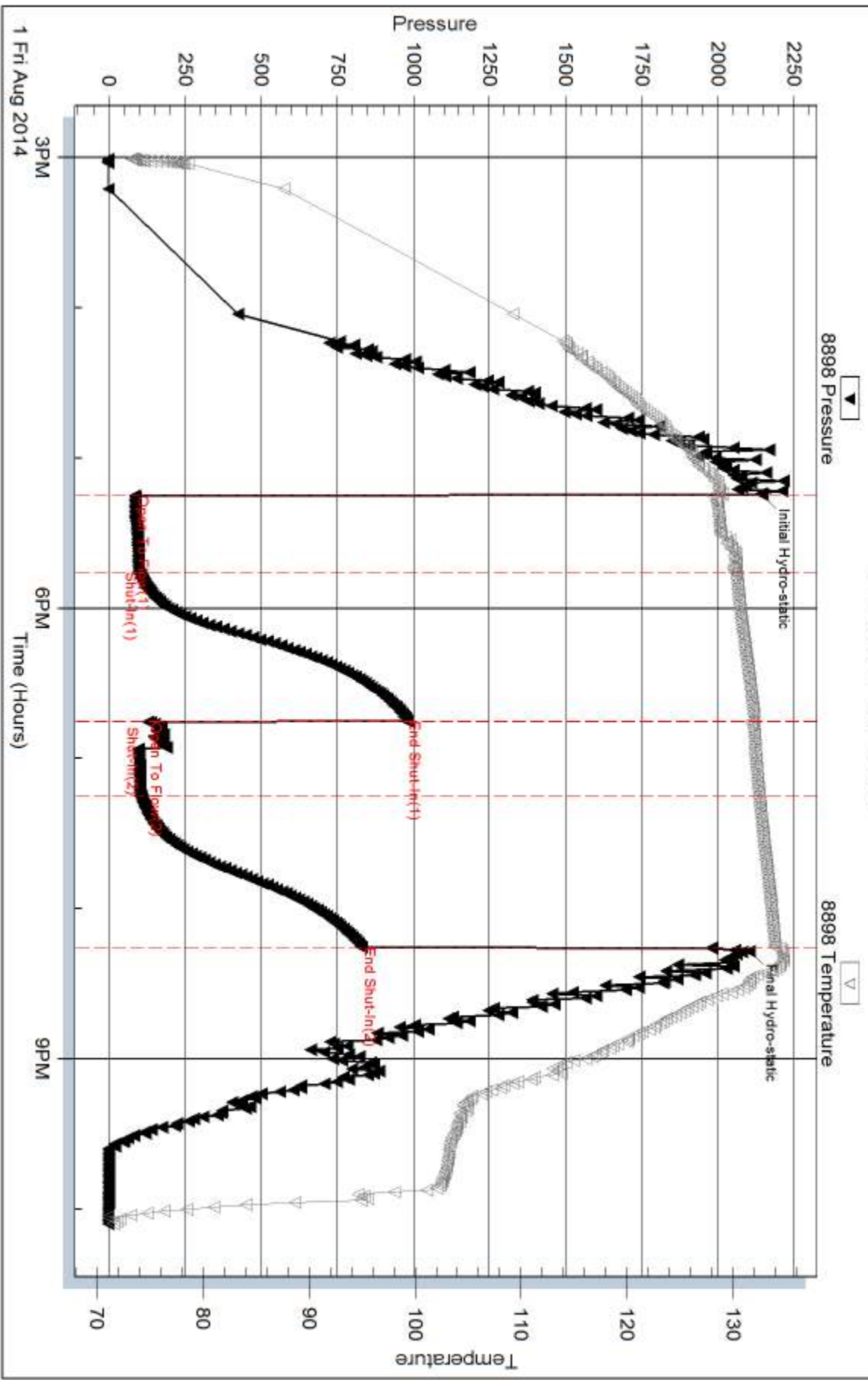
Serial #: 8898

Outside Murfin Drilling Company

Virginia #1-11

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 58922

Printed: 2014.08.06 @ 13:45:06

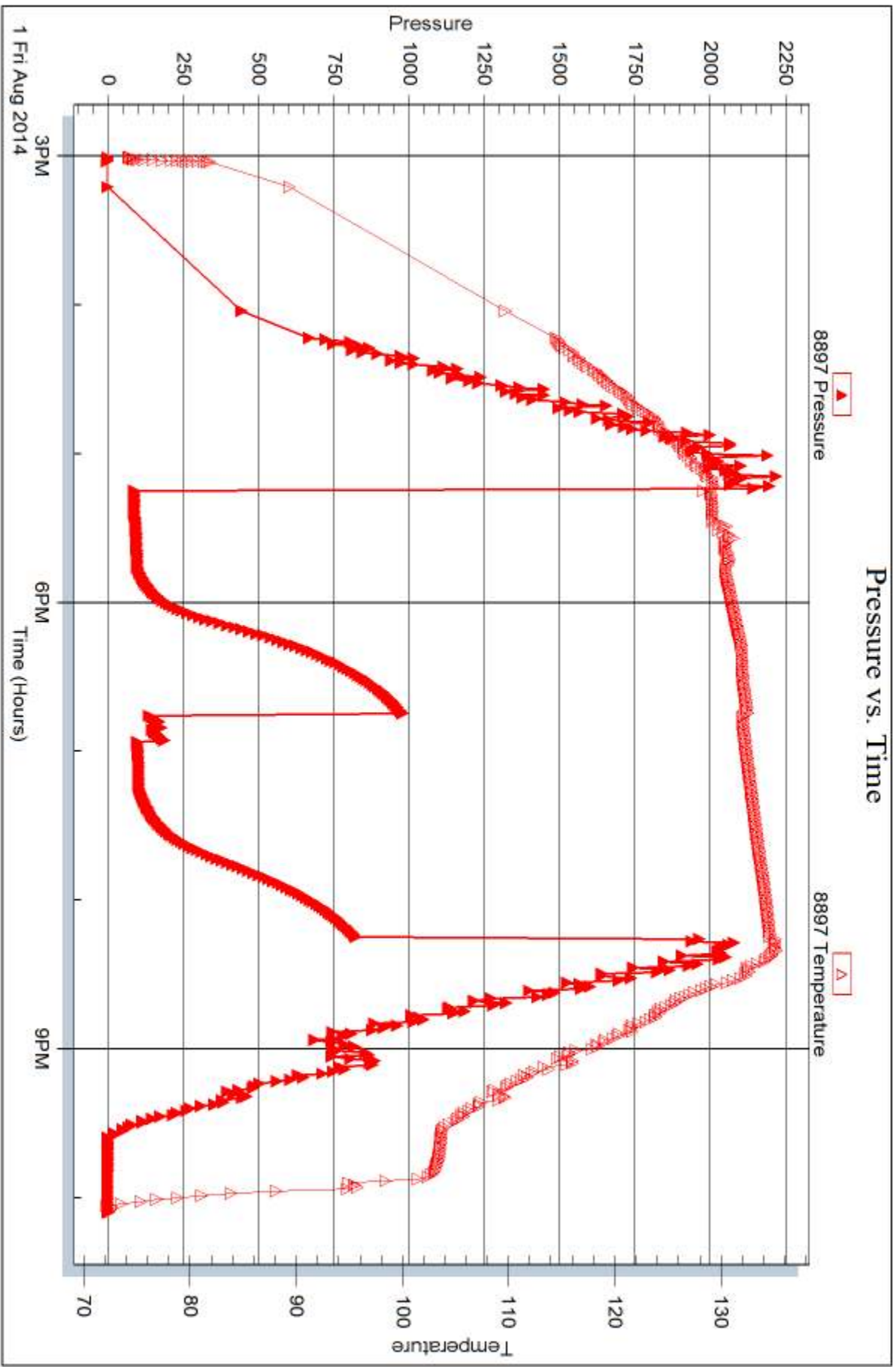
Serial #: 8897

Inside

Murfin Drilling Company

Virginia #1-11

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58922

Printed: 2014.08.06 @ 13:45:06



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Virginia #1-11

11-1s-36w Rawlins,KS

Start Date: 2014.08.02 @ 06:38:43

End Date: 2014.08.02 @ 13:21:03

Job Ticket #: 58923 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.06 @ 13:44:45



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 58923

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.08.02 @ 06:38:43

GENERAL INFORMATION:

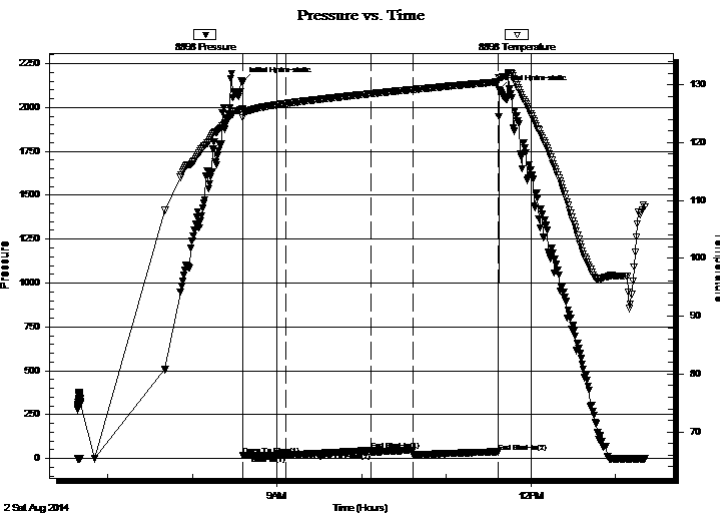
Formation: **LKC "G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:35:53
 Time Test Ended: 13:21:03
 Interval: **4252.00 ft (KB) To 4310.00 ft (KB) (TVD)**
 Total Depth: 4310.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Tate Lang
 Unit No: 77
 Reference Elevations: 3222.00 ft (KB)
 3211.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8898

Outside

Press@RunDepth: 48.41 psig @ 4292.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.02 End Date: 2014.08.02 Last Calib.: 2014.08.02
 Start Time: 06:38:44 End Time: 13:21:03 Time On Btm: 2014.08.02 @ 08:35:43
 Time Off Btm: 2014.08.02 @ 11:37:33

TEST COMMENT: Weak surface blow built to 1/4 in
 Dead no blow back
 Dead no blow
 Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2144.69	125.76	Initial Hydro-static
1	20.58	124.29	Open To Flow (1)
31	20.72	126.73	Shut-In(1)
91	46.44	128.43	End Shut-In(1)
91	35.51	128.42	Open To Flow (2)
121	48.41	129.15	Shut-In(2)
182	38.72	130.48	End Shut-In(2)
182	2103.41	131.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 5%O 95%M	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company

11-1s-36w Rawlins, KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 58923

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.08.02 @ 06:38:43

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:35:53

Time Test Ended: 13:21:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 77

Interval: 4252.00 ft (KB) To 4310.00 ft (KB) (TVD)

Reference Elevations: 3222.00 ft (KB)

Total Depth: 4310.00 ft (KB) (TVD)

3211.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8897

Inside

Press@RunDepth: psig @ 4292.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.02

End Date:

2014.08.02

Last Calib.:

2014.08.02

Start Time: 06:38:31

End Time:

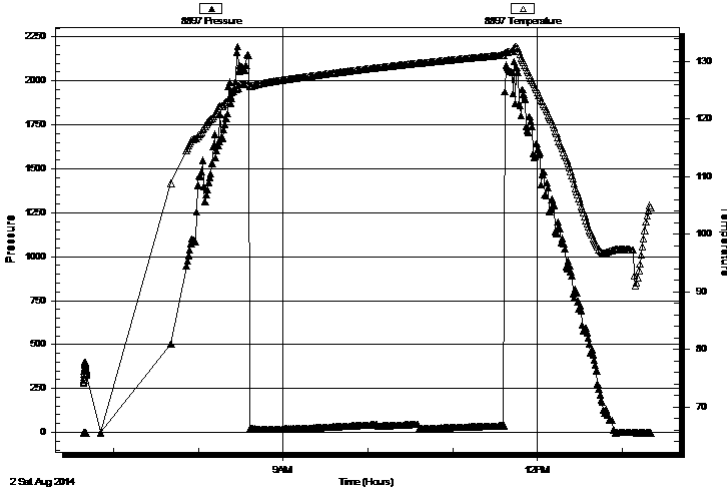
13:20:50

Time On Btm:

Time Off Btm:

TEST COMMENT: Weak surface blow built to 1/4 in
Dead no blow back
Dead no blow
Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 5%O 95%M	0.02

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 Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 58923

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.08.02 @ 06:38:43

Tool Information

Drill Pipe:	Length: 4036.00 ft	Diameter: 3.80 inches	Volume: 56.61 bbl	Tool Weight:	2200.00 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 57.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	83000.00 lb
Depth to Top Packer:	4252.00 ft			Final	83000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.00 ft				
Tool Length:	85.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4230.00	
Hydraulic tool	5.00			4235.00	
Jars	5.00			4240.00	
Safety Joint	2.00			4242.00	
Packer	5.00			4247.00	27.00 Bottom Of Top Packer
Packer	5.00			4252.00	
Stubb	1.00			4253.00	
Perforations	5.00			4258.00	
Change Over Sub	1.00			4259.00	
Drill Pipe	32.00			4291.00	
Change Over Sub	1.00			4292.00	
Recorder	0.00	8897	Inside	4292.00	
Recorder	0.00	8898	Outside	4292.00	
Perforations	15.00			4307.00	
Bullnose	3.00			4310.00	58.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 58923

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.08.02 @ 06:38:43

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: 74.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	VSOCM 5%O 95%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

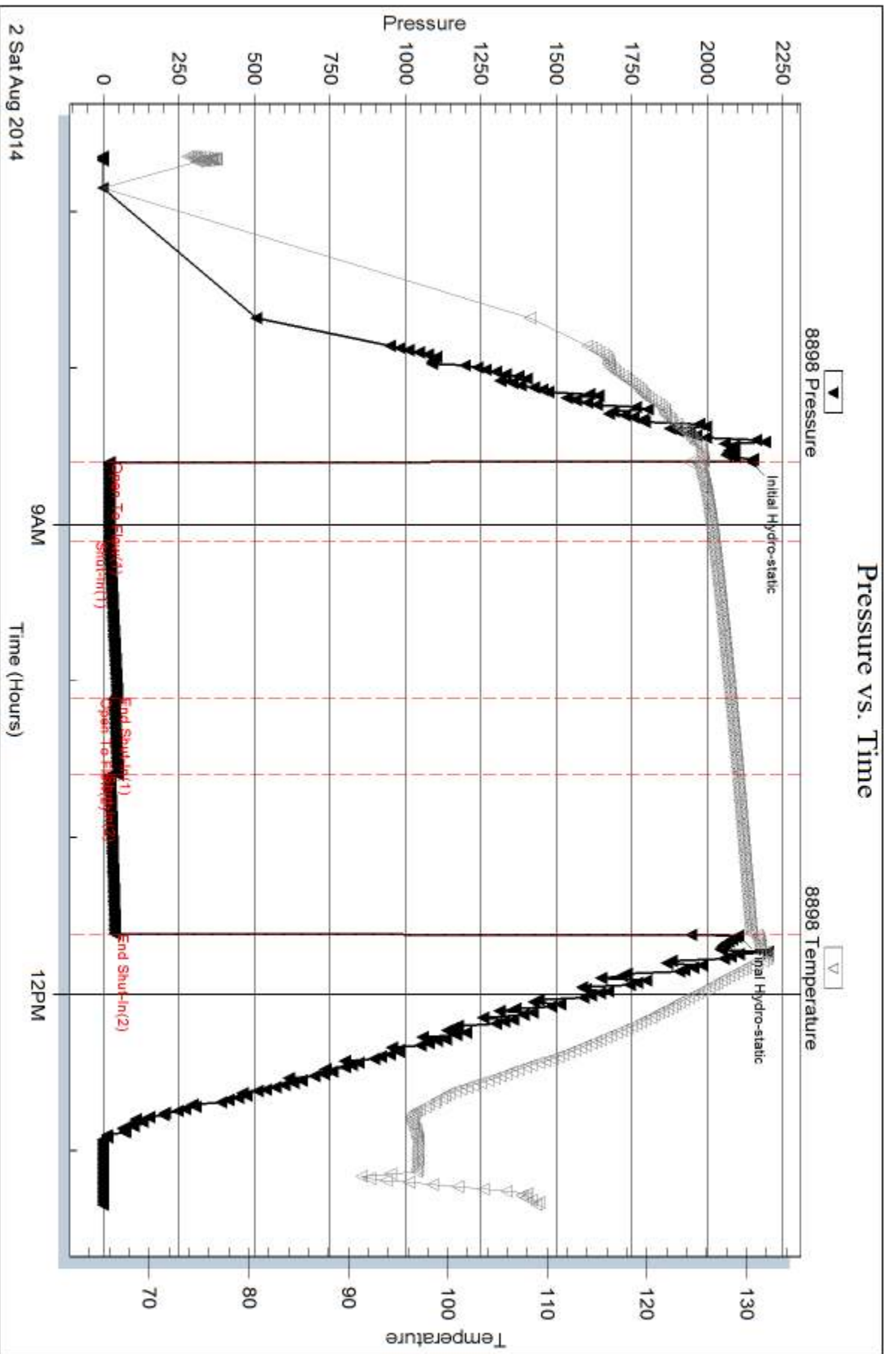
Num Gas Bombs: 0

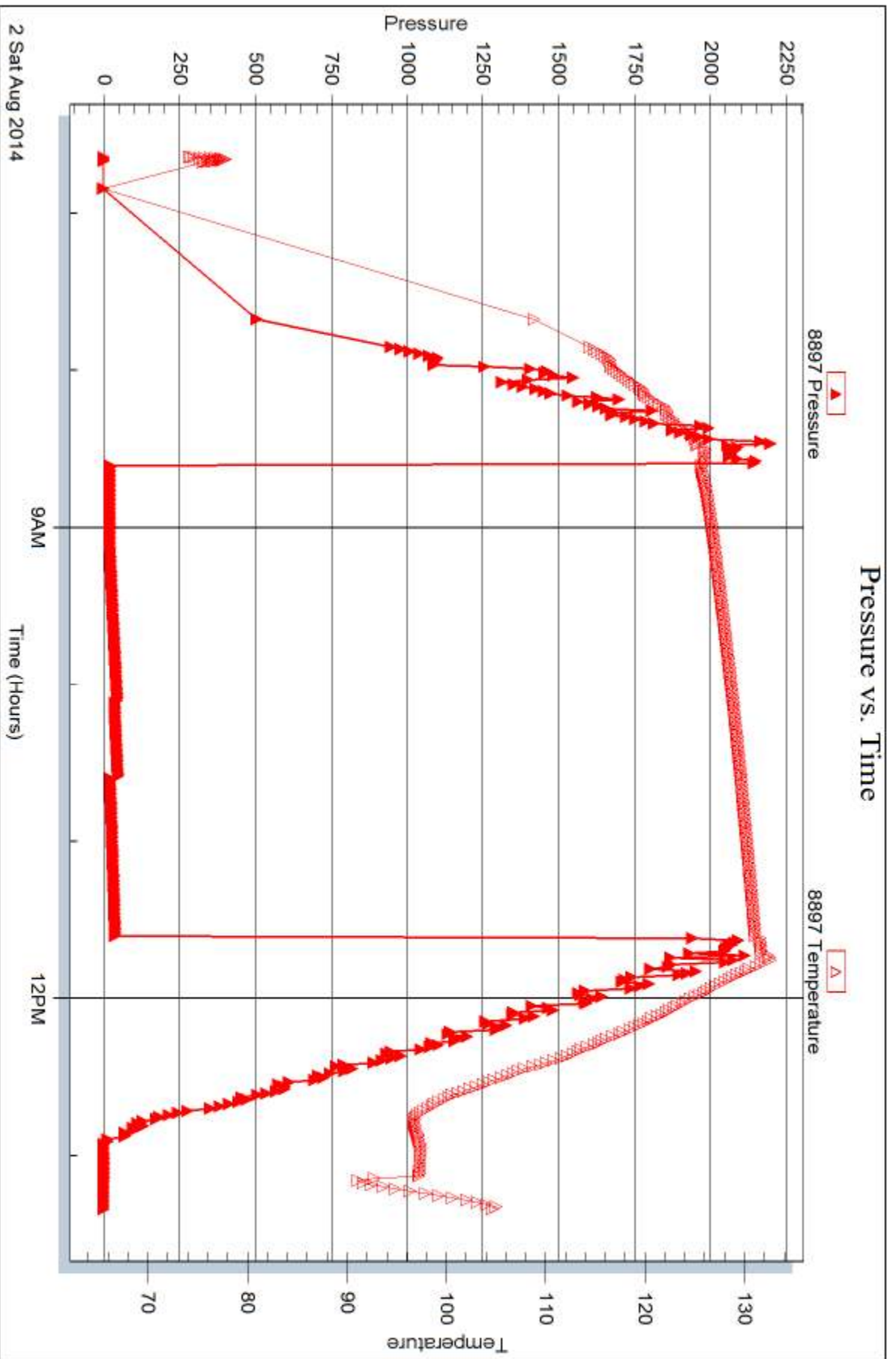
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Virginia #1-11

11-1s-36w Rawlins,KS

Start Date: 2014.08.03 @ 01:25:00

End Date: 2014.08.03 @ 10:09:00

Job Ticket #: 55903 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.06 @ 13:43:50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 55903

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2014.08.03 @ 01:25:00

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:46:30
 Time Test Ended: 10:09:00
 Interval: **4348.00 ft (KB) To 4410.00 ft (KB) (TVD)**
 Total Depth: 4410.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 66
 Reference Elevations: 3222.00 ft (KB)
 3211.00 ft (CF)
 KB to GR/CF: 11.00 ft

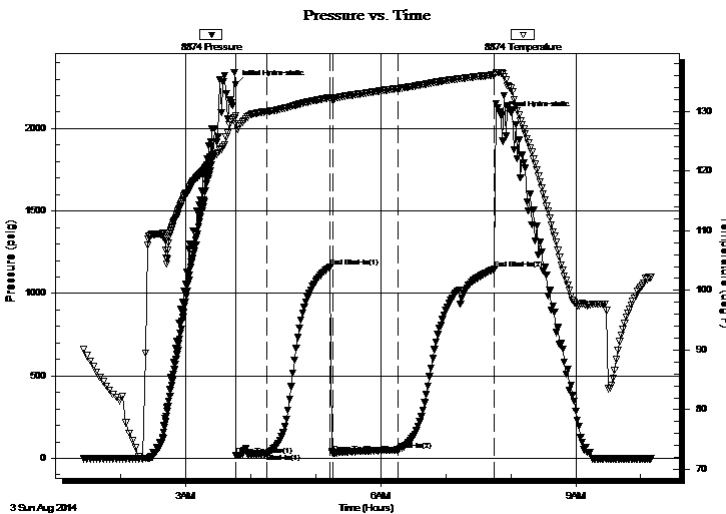
Serial #: 8874

Inside

Press@RunDepth: 51.56 psig @ 4349.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.03 End Date: 2014.08.03 Last Calib.: 2014.08.03
 Start Time: 01:26:00 End Time: 10:09:00 Time On Btm: 2014.08.03 @ 03:46:00
 Time Off Btm: 2014.08.03 @ 07:51:30

TEST COMMENT: 30 - IF- Surface Blow built to 1"
 60 - IS- No Return
 30 - FF- Surface Blow built to 2"
 60 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2265.38	129.31	Initial Hydro-static
1	18.41	127.89	Open To Flow (1)
29	28.62	129.95	Shut-In(1)
88	1161.60	132.30	End Shut-In(1)
90	31.57	132.01	Open To Flow (2)
150	51.56	133.81	Shut-In(2)
239	1146.95	136.11	End Shut-In(2)
246	2079.35	136.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCO 50M 50o	0.30
15.00	Free Oil 10G 90o	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 55903

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2014.08.03 @ 01:25:00

Tool Information

Drill Pipe:	Length: 4130.00 ft	Diameter: 3.80 inches	Volume: 57.93 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 58.96 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4348.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	90.00 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			4321.00	
Shut In Tool	5.00			4326.00	
Hydraulic tool	5.00			4331.00	
Jars	5.00			4336.00	
Safety Joint	3.00			4339.00	
Packer	5.00			4344.00	28.00 Bottom Of Top Packer
Packer	4.00			4348.00	
Stubb	1.00			4349.00	
Recorder	0.00	8653	Outside	4349.00	
Recorder	0.00	8874	Inside	4349.00	
Perforations	23.00			4372.00	
Change Over Sub	1.00			4373.00	
Drill Pipe	31.00			4404.00	
Change Over Sub	1.00			4405.00	
Bullnose	5.00			4410.00	62.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 55903

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2014.08.03 @ 01:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCO 50M 50o	0.295
15.00	Free Oil 10G 90o	0.074

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

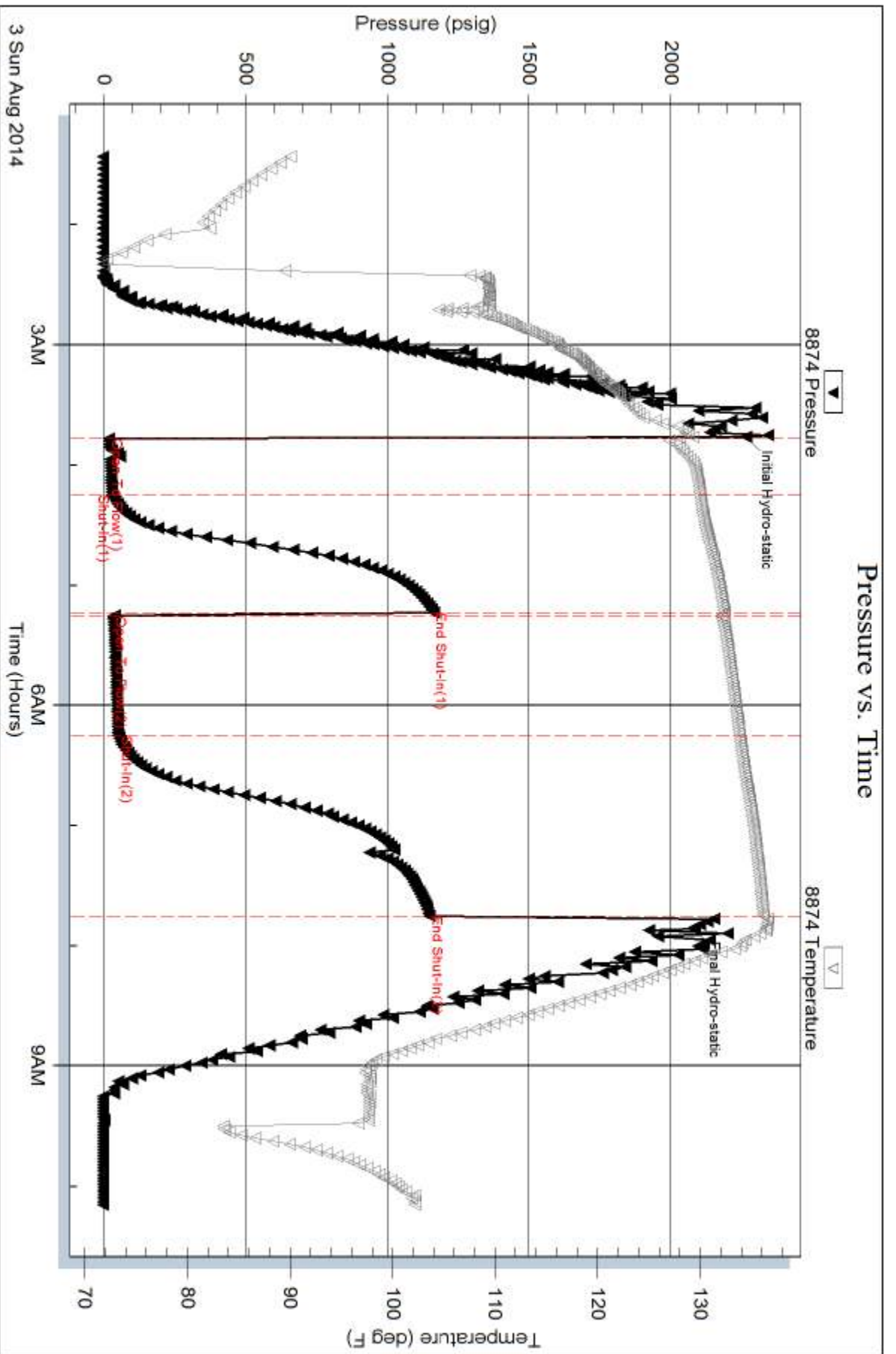
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 37 @ 100 deg = 33 corrected

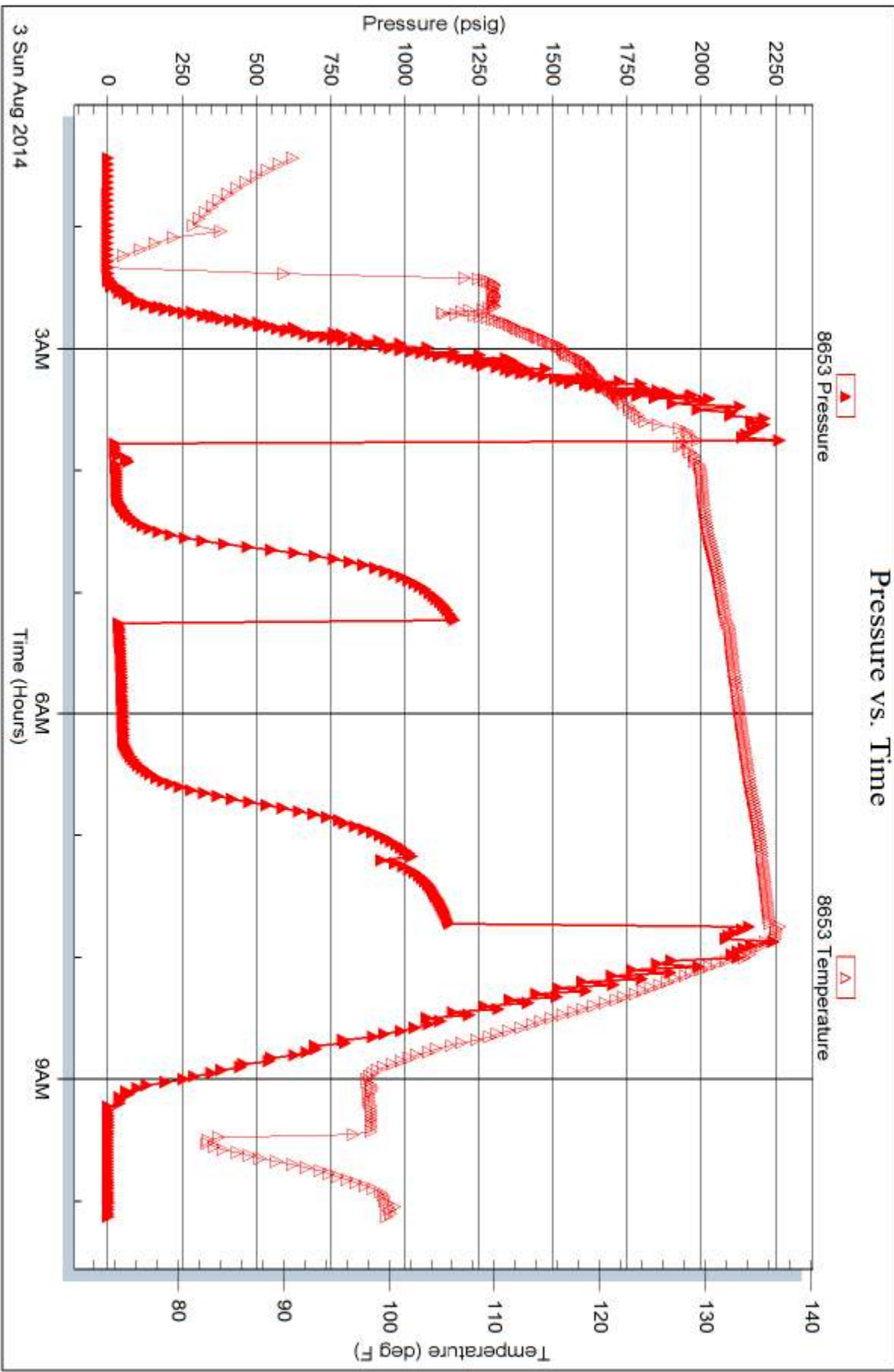


Serial #: 8653

Outside Murfin Drilling Company

Virginia #1-11

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55903

Printed: 2014.08.06 @ 13:43:52



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58922

4/10

Well Name & No. Virginia "A" #1-11 Test No. 1 Date 8-1-14
 Company Murfin Drilling Company Elevation 3222 KB 3211 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Samir Sharifaie Rig Murfin #2
 Location: Sec. 11 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4120 4270 Zone Tested LKC A-D
 Anchor Length 150 Drill Pipe Run 3910 Mud Wt. 9.0
 Top Packer Depth 4115 Drill Collars Run 206 Vis 62
 Bottom Packer Depth 4120 Wt. Pipe Run 0 WL 8.0
 Total Depth 4270 Chlorides 700 ppm System LCM 10[#]

Blow Description Weak surface blow built to 1/2 in
Dead no blow back
Dead no blow
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>55</u>	Feet of <u>OCM</u>	%gas	<u>30</u> %oil	%water	<u>70</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 55 BHT 133 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2146 Test 1150 T-On Location 1220
 (B) First Initial Flow 86 Jars 250 T-Started 1500
 (C) First Final Flow 99 Safety Joint 75 T-Open 1715
 (D) Initial Shut-In 977 Circ Sub _____ T-Pulled 2015
 (E) Second Initial Flow 129 Hourly Standby _____ T-Out 2206
 (F) Second Final Flow 105 Mileage 333 RT! 176.70 Comments _____
 (G) Final Shut-In 829 Sampler _____
 (H) Final Hydrostatic 2104 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1651.70
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1651.70

Approved By _____ 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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58923

Well Name & No. Virginia "A" #1-11 Test No. 2 Date 8-2-14
 Company Murfin Drilling Company Elevation 3222 KB 3211 GL
 Address 250 N Water St 300 Wichita KS 67202
 Co. Rep / Geo. Soram Rig Murfin #2
 Location: Sec. 11 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4252 4310 Zone Tested LHC "G"
 Anchor Length 58 Drill Pipe Run 4036 Mud Wt. 8.8
 Top Packer Depth 4247 Drill Collars Run 206 Vis 7.4
 Bottom Packer Depth 4252 Wt. Pipe Run 0 WL 8.0
 Total Depth 4310 Chlorides 700 ppm System LCM 9.7

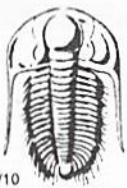
Blow Description Weak surface blow built to 1/4 in
Dead No blow back
Dead No blow
Dead No blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>5</u>	Feet of <u>1500M</u>	%gas	<u>5</u> %oil	%water	<u>95</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>5</u>	%gas	%oil	%water	%mud

Rec Total 5 BHT 129 Gravity 1150 API RW 250 @ 75 ° F Chlorides 700 ppm

(A) Initial Hydrostatic 2145 Test 1150 T-On Location 0535
 (B) First Initial Flow 21 Jars 250 T-Started 0638
 (C) First Final Flow 21 Safety Joint 75 T-Open 0835
 (D) Initial Shut-In 46 Circ Sub _____ T-Pulled 1135
 (E) Second Initial Flow 36 Hourly Standby _____ T-Out 1321
 (F) Second Final Flow 48 Mileage 176.70 Comments Loaded
 (G) Final Shut-In 39 Sampler _____ after test
 (H) Final Hydrostatic 2103 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1651.70
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1651.70

Approved By _____ 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.



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55903**

Well Name & No. Virginia 'A' #1-11 Test No. 3 Date 8-3-14
 Company Murfin Drilling Co, Inc. Elevation 3222 KB 3211 GL
 Address 2500 N Wenter STE # 3000 Wichita, KS 67202
 Co. Rep / Geo. Samra Sharifovic Rig Murfin #2
 Location: Sec. 11 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4348-4410 Zone Tested LKC "J"
 Anchor Length 62' Drill Pipe Run 4130' Mud Wt. 9.2
 Top Packer Depth 4344 Drill Collars Run 210' Vis 64
 Bottom Packer Depth 4348 Wt. Pipe Run 0 WL 7.6
 Total Depth 4410 Chlorides 700 ppm System LCM 10#
 Blow Description IF- Surface Blow built to 1"
ISI- No Return
FF- Blow built to 2"
FSI- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	Feet of <u>Free Oil</u>	<u>100</u>	<u>900</u>		
<u>60</u>	Feet of <u>MCO</u>		<u>50</u>		<u>50</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 75' BHT 136 Gravity 33 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2265</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12:00 AM</u>
(B) First Initial Flow <u>18'</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1:25 AM</u>
(C) First Final Flow <u>28</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:45 AM</u>
(D) Initial Shut-In <u>1161</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>7:45 AM</u>
(E) Second Initial Flow <u>31</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:09 AM</u>
(F) Second Final Flow <u>57</u>	<input checked="" type="checkbox"/> Mileage <u>114 RT</u> X2 353.40	Comments <u>Oil API</u>
(G) Final Shut-In <u>1146</u>	<input type="checkbox"/> Sampler	<u>370 100 deg.</u>
(H) Final Hydrostatic <u>2079</u>	<input type="checkbox"/> Straddle	<u>Was released at</u>
	<input type="checkbox"/> Shale Packer	<u>800 AM 8-5-14</u>
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input checked="" type="checkbox"/> Day Standby <u>X 1.5 1d 22h</u>	Sub Total <u>800</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	Total <u>2728.40</u>
	Sub Total <u>1928.40</u>	MP/DST Disc't

Approved By _____

Our Representative

Tribolite 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.

Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Murfin Drilling Co. Inc.**

LEASE **Virginia A #1-11**

FIELD **Wickcat**

LOCATION **22701n1 & 22501e1**

SEC. **11** TWPSP **1s** RGE **36w**

COUNTY **Rawlins** STATE **Kansas**

CONTRACTOR **Murfin Drilling Co. Inc. Rig #2**

SPUD **8/6/2014** COMP **8/14/2014**

RTD **4/752'** LTD **4/754'**

RWD UP **3253'** TYP MUD **Chemical**

SAMPLES SAVED FROM **3540'** TO **1TD**

DRILLING TIME KEPT FROM **3540'** TO **1TD**

SAMPLES EXAMINED FROM **3540'** TO **1TD**

GEOLOGICAL SUPERVISION FROM **3560'**

GEOLOGIST ON WELL **Robert D. Hendrix**

FORMATION TOPS

ELECTRIC LOG

SAMPLE

ANhydrite

Neva

Topeka

Oread

Lansing

Stark Shale

BKC

Pawnee

Cherokee Shale

ELEVATIONS

KB **3222'**

DF

GL **3211'**

Measurements Are All From **Kelly Bushing**

CASING

CONDUCTOR

SURFACE **8-7/8" 84' 2225'**

PRODUCTION **5 1/2"**

Best/Whitaker/MidCont/Sonic
Pioneer Weather Services

FORMATION TOPS	ELECTRIC LOG	SAMPLE
ANhydrite	31561 (.666)	31551 (.672)
Neva	36361 (.414)	36353 (.413)
Topeka	38571 (.285)	38569 (.284)
Oread	40711 (.849)	40691 (.847)
Lansing	41711 (.849)	41701 (.848)
Stark Shale	43801 (.118)	43892 (.1170)
BKC	44411 (.1219)	44411 (.1219)
Pawnee	45611 (.1339)	45611 (.1339)
Cherokee Shale	46421 (.1420)	46401 (.1418)

REMARKS:

