



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1232644
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: _____

1232644

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: Yes No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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	Verna Poore 1-7
Doc ID	1232644

All Electric Logs Run

DIL
DUCP
MEL
BHCS

OPERATOR

Company: Murfin Drilling Company
 Address: 250 N. Water
 Suite 300
 Wichita, KS 67202
 Contact Geologist: Shauna Gunzelman
 Contact Phone Nbr: 316-267-3241
 Well Name: Verna Poore # 1-7
 Location: Sec. 7 - T1S - R35W
 API: 15-153-21046-0000
 Pool: _____
 State: Kansas
 Field: Wildcat
 Country: USA



Scale 1:240 Imperial

Well Name: Verna Poore # 1-7
 Surface Location: Sec. 7 - T1S - R35W
 Bottom Location:
 API: 15-153-21046-0000
 License Number: 30606
 Spud Date: 8/9/2014
 Region: Rawlins County
 Drilling Completed: 8/16/2014
 Surface Coordinates: 660' FNL & 1980' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 3210.00ft
 K.B. Elevation: 3215.00ft
 Logged Interval: 3800.00ft
 Total Depth: 4467.00ft
 Formation: Lansing/Kansas City
 Drilling Fluid Type: Chemical/Fresh Water Gel
 Time: 2:30 PM
 Time: 4:35 PM
 To: 4467.00ft

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 Latitude:
 N/S Co-ord: 660' FNL
 E/W Co-ord: 1980' FEL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530
 Phone Nbr: 620-617-4091
 Logged By: KLG #136
 Name: Keith Reavis

CONTRACTOR

Contractor: Murfin Drilling Company
 Rig #: 7
 Rig Type: mud rotary
 Spud Date: 8/9/2014
 TD Date: 8/16/2014
 Rig Release:
 Time: 2:30 PM
 Time: 4:35 PM
 Time:

ELEVATIONS

K.B. Elevation: 3215.00ft
 K.B. to Ground: 5.00ft
 Ground Elevation: 3210.00ft

NOTES

Due to results of Drill Stem Tests #3 and #4, it was determined that 5 1/2" production casing be set and cemented and the Verna Poore #1-7 be further evaluated through perforations and stimulation.

The samples from this well were saved and will be available for review at the Kansas Geological Survey well sample Library located in Wichita, KS.

Respectfully submitted,
 Keith Reavis

Murfin Drilling Company
daily drilling report

DATE	7:00 AM DEPTH	REMARKS
08/11/2014		Geologist Keith Reavis on location @ 2230 hrs, 3800 ft, bit trip
08/12/2014	3900	drilling ahead, Foraker, Stotler, show in Stotler warrants test, TOH w/bit, conduct and complete DST #1, successful test, TIH w/bit, resume drilling
08/13/2014	4035	drilling ahead, Topeka, Oread, Lansing, show in A & B warrant test, short otch, TOH for DST #2
08/14/2014	4210	TIH w/tools, conduct DST #2, complete DST #2, successful test, TIH w/bit, resume drilling, show in D and G warrant test, TOH for DST #3, conduct DST #3
08/15/2014	4290	complete DST #3, successful test, drill ahead, H, I, J, Stark, shows warrant test, TOH w/bit, in w/tools
08/16/2014	4390	conduct and complete DST #4, successful test, back in hole with PDC bit, rathole ahead to TD, low jack shaft broke at bearing on drawworks at 4467, hook up to high jack, limped out laying down (25 jts.) until weight down, stood balance of string back, lay down collars
08/17/2014	4467	conduct open hole logging operations, geologist off location @ 0530 hrs

Murfin Drilling Company
well comparison sheet

DRILLING WELL					COMPARISON WELL				
MDC - Verna Poore #1-7 660' FNL & 1980' FEL Sec 7-T1S-R35W					MDC - Sutton #3-8 1780' FNL & 420' FWL Sec 8-T1S-R35W				
3215 KB					3219 KB			Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	
Stotler	3886	-671	3884	-669	3886	-667	-4	-2	
Topeka	3954	-739	3947	-732	3950	-731	-8	-1	
Oread	4060	-845	4060	-845	4058	-839	-6	-6	
Lansing	4170	-955	4171	-956	4170	-951	-4	-5	
Lansing D	4223	-1008	4222	-1007	4223	-1004	-4	-3	
Lansing H	4324	-1109	4324	-1109	4324	-1105	-4	-4	
Stark	4384	-1169	4380	-1165	4380	-1161	-8	-4	
Base KC	4444	-1229	no log top		4437	-1218	-11	-	
Total Depth	4467	-1252	4466	-1251	4513	-1294	42	43	

Drill Stem Test #1

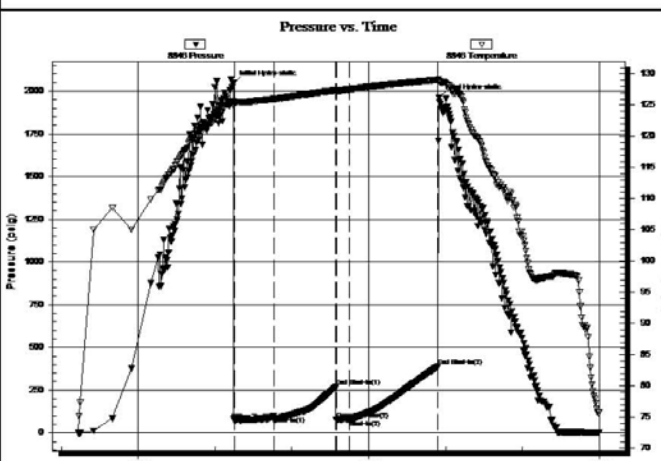
TRILOBITE TESTING, INC.		DRILL STEM TEST REPORT	
	Murfin Drilling Co. Inc. 250 N Water STE300 Wichita Ks 67202 ATTN: Keith Reavis	7-1-35 Rawlins Co KS Verna 1-7 Job Ticket: 59114 Test Start: 2014.08.12 @ 14:13:15	DST#: 1

GENERAL INFORMATION:

Formation: **Stutler**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 16:15:00
 Time Test Ended: 21:00:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Mike Roberts
 Unit Nbr: 65
 Interval: **3818.00 ft (KB) To 3940.00 ft (KB) (TVD)**
 Total Depth: 3940.00 ft (KB) (TVD)
 Reference Elevations: 3215.00 ft (KB)
 3210.00 ft (CF)
 Hole Diameter: 7.88 inches-Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: **8846** Inside
 Press@RunDepth: 78.96 psig @ 3822.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2014.08.12 End Date: 2014.08.12
 Last Calib.: 2014.08.12
 Start Time: 14:13:15 End Time: 21:00:00
 Time On Btm: 2014.08.12 @ 16:14:30
 Time Off Btm: 2014.08.12 @ 18:55:00

TEST COMMENT:
 IS:No return blow
 IF:No return blow
 FF:No blow
 FS:No return blow



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2042.20	125.55	Initial Hydro-static
1	73.72	125.37	Open To Flow (1)
32	97.99	126.01	Shut-In(1)
80	269.41	127.39	End Shut-In(1)
80	77.52	127.33	Open To Flow (2)
91	78.96	127.54	Shut-In(2)
160	387.10	129.06	End Shut-In(2)
161	1962.65	128.90	Final Hydro-static


Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100% m	0.01

Gas Rates

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

Drill Stem Test #2

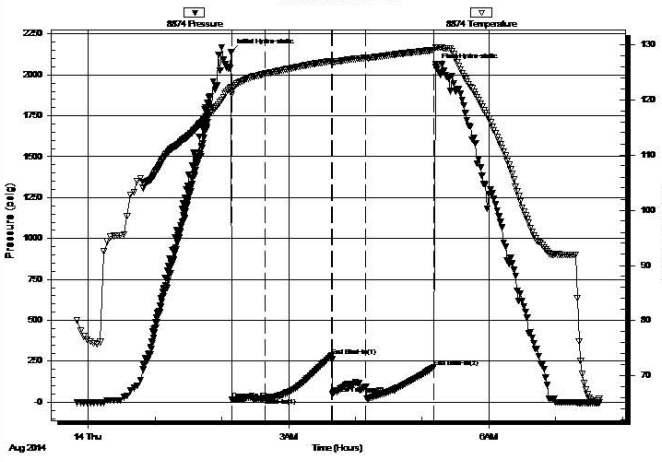
	DRILL STEM TEST REPORT	
	Murfin Drilling Co., Inc 250 N. Water STE300 Wichita, KS, 67202 ATTN: Keith Reavis	7-1S-35W Verna #1-7 Job Ticket: 60130 DST#: 2 Test Start: 2014.08.13 @ 23:49:00

GENERAL INFORMATION:

Formation: LKC "A&B"	Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 02:09:00	Time Test Ended: 07:40:00	Tester: Donovan Baumann
Unit No: 66	Interval: 4130.00 ft (KB) To 4210.00 ft (KB) (TVD)	Reference Elevations: 3215.00 ft (KB)
Total Depth: 4210.00 ft (KB) (TVD)	Hole Diameter: 7.88 inchesHole Condition: Good	3210.00 ft (CF)
		KB to GR/CF: 5.00 ft


Serial #: 8874 Inside	Press@RunDepth: 95.65 psig @ 4131.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2014.08.13	End Date: 2014.08.14	Last Calib.: 2014.08.14
Start Time: 23:50:00	End Time: 07:40:00	Time On Btm: 2014.08.14 @ 02:08:30
		Time Off Btm: 2014.08.14 @ 05:12:30

TEST COMMENT: 30 - IF - Surface blow built to 1/4"
 60 - ISI - No return
 30 - FF - Weak surface blow
 60 - FSI - No return

Pressure vs. Time		PRESSURE SUMMARY			
		Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
		0	2139.91	122.22	Initial Hydro-static
		1	16.12	120.94	Open To Flow (1)
		31	28.95	124.65	Shut-In(1)
		90	283.83	126.97	End Shut-In(1)
		91	50.82	126.89	Open To Flow (2)
		121	95.65	127.57	Shut-In(2)
		182	213.41	128.97	End Shut-In(2)
		184	2048.10	129.42	Final Hydro-static

Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2.00	Mud	0.01			

Drill Stem Test #3

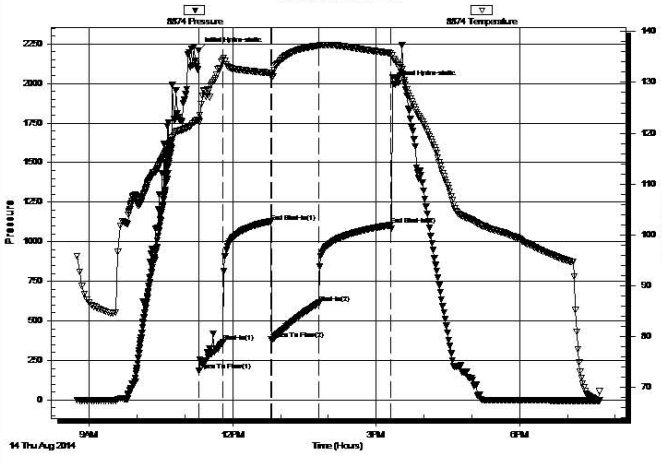
	DRILL STEM TEST REPORT	
	Murfin Drilling Co. Inc. 250 N Water STE300 Wichita Ks 67202 ATTN: Keith Reavis	7-1-35 Rawlins Co KS Verna Poore #1-7 Job Ticket: 60131 DST#: 3 Test Start: 2014.08.14 @ 08:44:00

GENERAL INFORMATION:

Formation: LKC "D&G"	Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 11:18:00	Time Test Ended: 19:40:00	Tester: Donovan Baumann
Unit No: 66	Interval: 4188.00 ft (KB) To 4290.00 ft (KB) (TVD)	Reference Elevations: 3215.00 ft (KB)
Total Depth: 4290.00 ft (KB) (TVD)	Hole Diameter: 7.88 inchesHole Condition: Good	3210.00 ft (CF)
		KB to GR/CF: 5.00 ft


Serial #: 8874 Inside	Press@RunDepth: 613.49 psig @ 4189.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2014.08.14	End Date: 2014.08.14	Last Calib.: 2014.08.15
Start Time: 08:45:00	End Time: 19:40:00	Time On Btm: 2014.08.14 @ 11:17:30
		Time Off Btm: 2014.08.14 @ 15:22:00

TEST COMMENT: 30 - IF - Surface blow built to BOB in 3 1/2 min
 60 - ISI - Return built to 6 1/4
 60 - FF - Surface blow built to BOB in 4 min.
 90 - FSI - Return built to BOB in 14 min.

Pressure vs. Time		PRESSURE SUMMARY			
		Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
		0	2206.57	122.57	Initial Hydro-static
		1	185.41	122.21	Open To Flow (1)
		31	365.78	134.55	Shut-h(1)
		91	1125.19	131.86	End Shut-h(1)
		91	382.18	131.38	Open To Flow (2)
		151	613.49	137.22	Shut-h(2)
		241	1104.84	135.74	End Shut-h(2)
		245	1996.16	134.55	Final Hydro-static

Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
252.00	MCO - 65o - 35M	1.83			
378.00	OCWM - 20o - 25W - 55M	5.30			
63.00	MCW - 80W - 20M	0.88			
378.00	MCO - 95o - 5M	5.30			
252.00	Oil - 100o	3.53			

Drill Stem Test #4

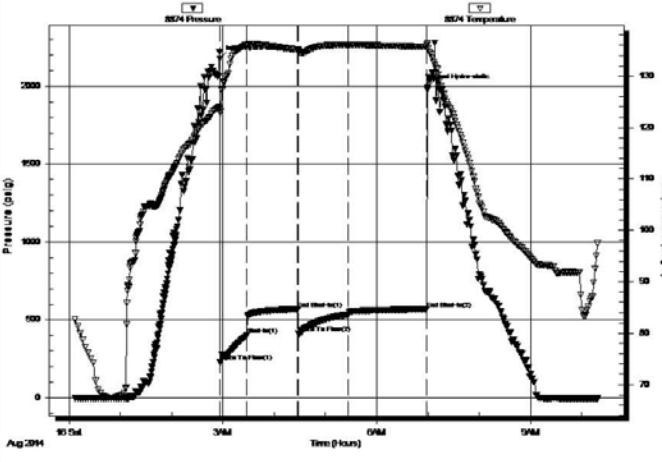
	DRILL STEM TEST REPORT	
	Murfin Drilling Co. Inc. 250 N Water STE300 Wichita Ks 67202 ATTN: Keith Reavis	7-1-35 Rawlins Co KS Verna Poore #1-7 Job Ticket: 60132 DST#: 4 Test Start: 2014.08.16 @ 00:06:00

GENERAL INFORMATION:

Formation: LSG "G-J"	Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 02:57:00	Time Test Ended: 10:19:00	Tester: Donovan Baumann
Unit No: 66	Interval: 4288.00 ft (KB) To 4390.00 ft (KB) (TVD)	Reference Elevations: 3215.00 ft (KB)
Total Depth: 4390.00 ft (KB) (TVD)	Hole Diameter: 7.88 inchesHole Condition: Good	3210.00 ft (CF)
		KB to GR/CF: 5.00 ft

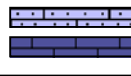
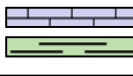





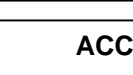

Serial #: 8874 Inside	Press@RunDepth: 534.07 psig @ 4289.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2014.08.16	End Date: 2014.08.16	Last Calib.: 2014.08.16
Start Time: 00:07:00	End Time: 10:19:00	Time On Btm: 2014.08.16 @ 02:56:30
		Time Off Btm: 2014.08.16 @ 05:59:30

TEST COMMENT: 30 - IF - valve shut
 60 - ISI - Return built to BOB in 10 mi.
 60 - FF - Surface blow built to BOB right after turning the tool
 90 - FSI - Return built to BOB in 30 min

Pressure vs. Time		PRESSURE SUMMARY			
		Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
		0	2175.73	124.02	Initial Hydro-static
		1	228.07	122.92	Open To Flow (1)
		31	399.26	135.87	Shut-In(1)
		91	566.36	135.11	End Shut-In(1)
		92	412.58	135.04	Open To Flow (2)
		151	534.07	136.08	Shut-In(2)
		242	567.60	135.67	End Shut-In(2)
		243	1991.34	136.46	Final Hydro-static

Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
438.00	VMCO - 65o - 30M - 5W	4.44			
315.00	MCO - 25M - 60o - 15G	4.42			
126.00	MCO - 20M - 60o - 20G	1.77			
126.00	MCO - 20M - 65o - 15G	1.77			
189.00	gassy oil - 90o - 10G	2.65			
191.00	Oil - 100o	2.68			

ROCK TYPES

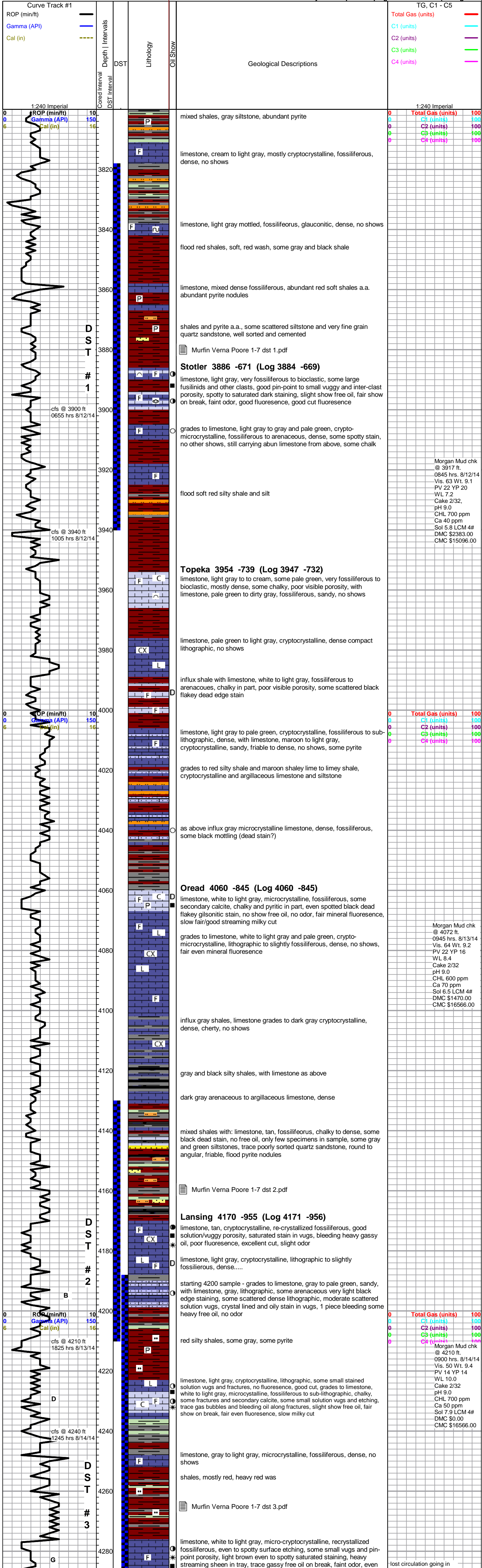
 sdymst	 Lmst fw7>	 shale, gry	 shale, red	 S1st
 Lmst fw<7	 shale, grn	 Carbon Sh	 Ss	

ACCESSORIES

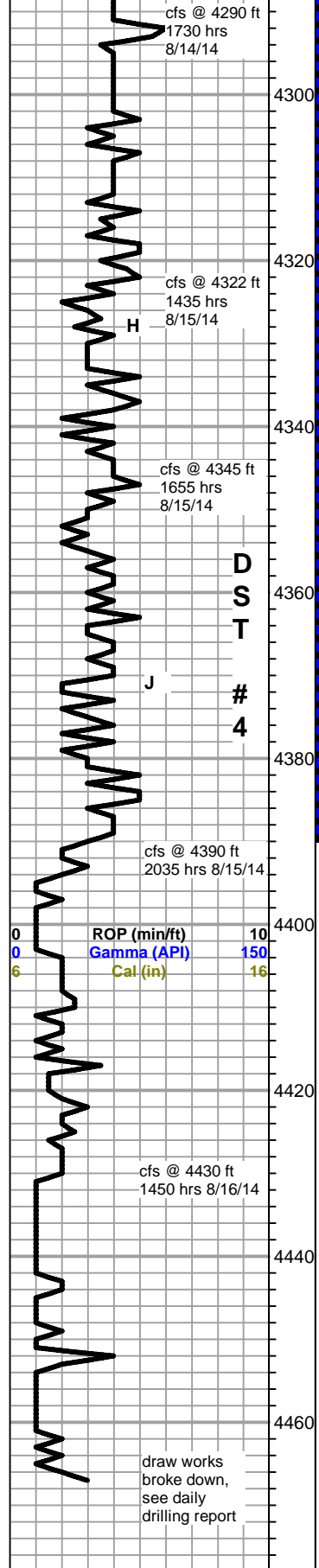
MINERAL G Glauconite P Pyrite S Silty	FOSSIL B Bioclastic or Fragmental F Fossils < 20% O Oolite P Pellets Fussulinid	STRINGER S Sandstone Siltstone	TEXTURE C Chalky CX Cryptocrystalline L Lithogr
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MISC DR Daily Report DP Digital Photo D Document F Folder L Link V Vertical Log File H Horizontal Log File C Core Log File DC Drill Cuttings Rpt	Oil Show ● Good Show ● Fair Show ● Poor Show ○ Spotted or Trace ○ Questionable Strn D Dead Oil Strn ■ Fluorescence * Gas	OTHER SYMBOLS DST ■ DST Int ■ DST alt ■ Core tail pipe
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lost circulation going in hole with bit after DST #3



Murfin Verna Poore 1-7 dst 4.pdf

limestone, white to light gray, microcrystalline, fossiliferous, some secondary calcite, chalky in part, spotty small vugs, overall poor visible porosity, spotty to fair black staining, live to gilsonitic, no show free oil, no odor, some spotty fluorescence, weak cut

limestone, cream to light gray to pale green, microcrystalline, fossiliferous, some arenaceous to sandy, pyritic in part, few specimens with small stained vugs, trace clingy heavy oil, no free oil or odor, light even mineral fluorescence, excellent cut on 1 specimen, some quartz and gray siltstone in samples

limestone, gray to tan, microcrystalline, fossiliferous to oolitic and pelletal, poor overall visible porosity, few pieces spotty dead stain, no free oil, no odor

increased limestone as above in 4370 sample

limestone, white to light gray, microcrystalline, fossiliferous, chalky in part, poor visible porosity, very light brown scattered stain, trace black dead stain, no free oil, few oil droplets on break, no odor, fair even fluorescence, weak cut, abundant chalk in samples

Stark Shale 4384 -1169 (Log 4380 -1165)

back in hole with PDC bit after DST #4

limestone, white, grainy bioclastic, some oolitic, chalky, poor overall visible porosity, barren

red shales with limestone, white to light gray and pale green, mixed fossiliferous, bioclastic and lithographic, no shows

Base KC 4444 -1229 (not covered by log)

no samples below 4460 sample

Rotary TD 4467 ft @ 1635 hrs 8/16/14
 Pioneer Log TD 4466 ft
 Complete Logging Operations 0500 hrs 8/17/14

Morgan Mud chk @ 4290 ft. 0900 hrs. 8/15/14 Vis. 72 Wt. 8.8 PV 22 YP 18 WL 8.0 Cake 2/32 pH 9.0 CHL 2000 ppm Ca 40 ppm DMC \$4750.00 CMC \$21316.00	
deviation survey 1/2 deg.	
Morgan Mud chk @ 4390 ft. 0930 hrs. 8/16/14 Vis. 48 Wt. 9.3	
0	Total GaPV 16 YP 16
0	C1 (u)WL 8.6
0	C2 (u)Cake 2/32
0	C3 (u)pH 10.0
0	C4 (u)CHL 1100 ppm Ca 40 ppm Sol 7.1 LCM 8# DMC \$2793.00 CMC \$24109.00



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202

ATTN: Keith Reavis

Verna Poore #1-7

7-1s-35w Rawlins,KS

Start Date: 2014.08.12 @ 14:13:15

End Date: 2014.08.12 @ 21:00:00

Job Ticket #: 59114 DST #: 1

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

Printed: 2014.08.19 @ 17:19:57



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

7-1s-35w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Verna Poore #1-7

Job Ticket: 59114

DST#: 1

ATTN: Keith Reavis

Test Start: 2014.08.12 @ 14:13:15

GENERAL INFORMATION:

Formation: **Stutler**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:15:00

Time Test Ended: 21:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 65

Interval: 3818.00 ft (KB) To 3940.00 ft (KB) (TVD)

Reference Elevations: 3215.00 ft (KB)

Total Depth: 3940.00 ft (KB) (TVD)

3210.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8846 Inside

Press@RunDepth: 78.96 psig @ 3822.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.12

End Date:

2014.08.12

Last Calib.: 2014.08.12

Start Time: 14:13:15

End Time:

21:00:00

Time On Btm: 2014.08.12 @ 16:14:30

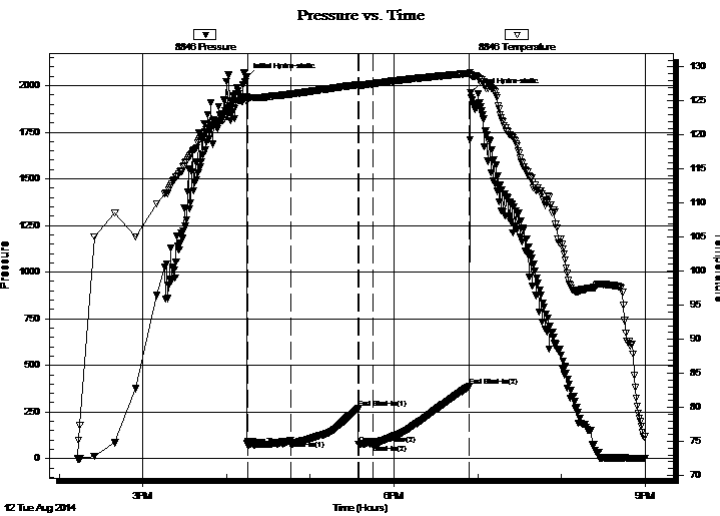
Time Off Btm: 2014.08.12 @ 18:55:00

TEST COMMENT: IF: Built to weak surface blow

IS: No return blow

FF: No blow

FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2042.20	125.55	Initial Hydro-static
1	73.72	125.37	Open To Flow (1)
32	97.99	126.01	Shut-In(1)
80	269.41	127.39	End Shut-In(1)
80	77.52	127.33	Open To Flow (2)
91	78.96	127.54	Shut-In(2)
160	387.10	129.06	End Shut-In(2)
161	1962.65	128.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100% m	0.01

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

7-1s-35w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Verna Poore #1-7

Job Ticket: 59114

DST#: 1

ATTN: Keith Reavis

Test Start: 2014.08.12 @ 14:13:15

GENERAL INFORMATION:

Formation: **Stutler**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:15:00

Time Test Ended: 21:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 65

Interval: **3818.00 ft (KB) To 3940.00 ft (KB) (TVD)**

Reference Elevations: 3215.00 ft (KB)

Total Depth: 3940.00 ft (KB) (TVD)

3210.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **8737 Outside**

Press@RunDepth: psig @ 3822.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.12

End Date: 2014.08.12

Last Calib.: 2014.08.12

Start Time: 14:13:15

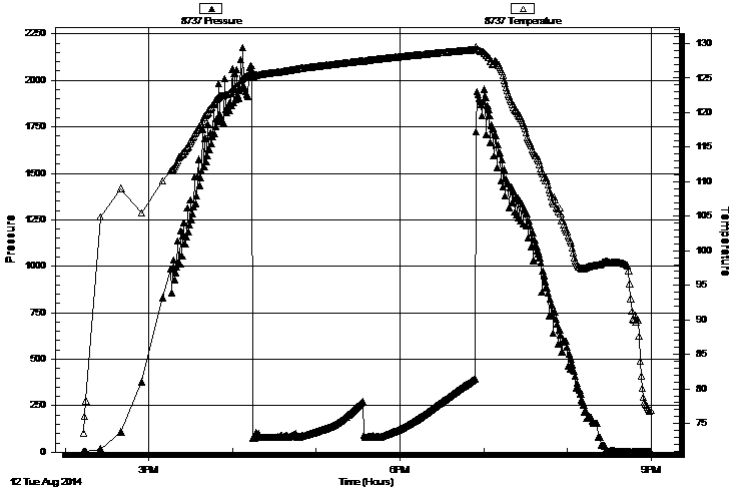
End Time: 21:00:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Built to weak surface blow
IS:No return blow
FF:No blow
FS:No return blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100% m	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

7-1s-35w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Verna Poore #1-7

Job Ticket: 59114

DST#: 1

ATTN: Keith Reavis

Test Start: 2014.08.12 @ 14:13:15

Tool Information

Drill Pipe:	Length: 3790.00 ft	Diameter: 3.80 inches	Volume: 53.16 bbl	Tool Weight:	1500.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 53.76 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	122.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	3818.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	122.00 ft				
Tool Length:	150.00 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			3791.00	
Shut In Tool	5.00			3796.00	
Hydraulic tool	5.00			3801.00	
Jars	5.00			3806.00	
Safety Joint	3.00			3809.00	
Packer	5.00			3814.00	28.00 Bottom Of Top Packer
Packer	4.00			3818.00	
Stubb	1.00			3819.00	
Perforations	3.00			3822.00	
Recorder	0.00	8846	Inside	3822.00	
Recorder	0.00	8737	Outside	3822.00	
Change Over Sub	1.00			3823.00	
Blank Spacing	96.00			3919.00	
Change Over Sub	1.00			3920.00	
Perforations	15.00			3935.00	
Bullnose	5.00			3940.00	122.00 Bottom Packers & Anchor
Total Tool Length:	150.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

7-1s-35w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Verna Poore #1-7

Job Ticket: 59114

DST#: 1

ATTN: Keith Reavis

Test Start: 2014.08.12 @ 14:13:15

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:

0 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100% m	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

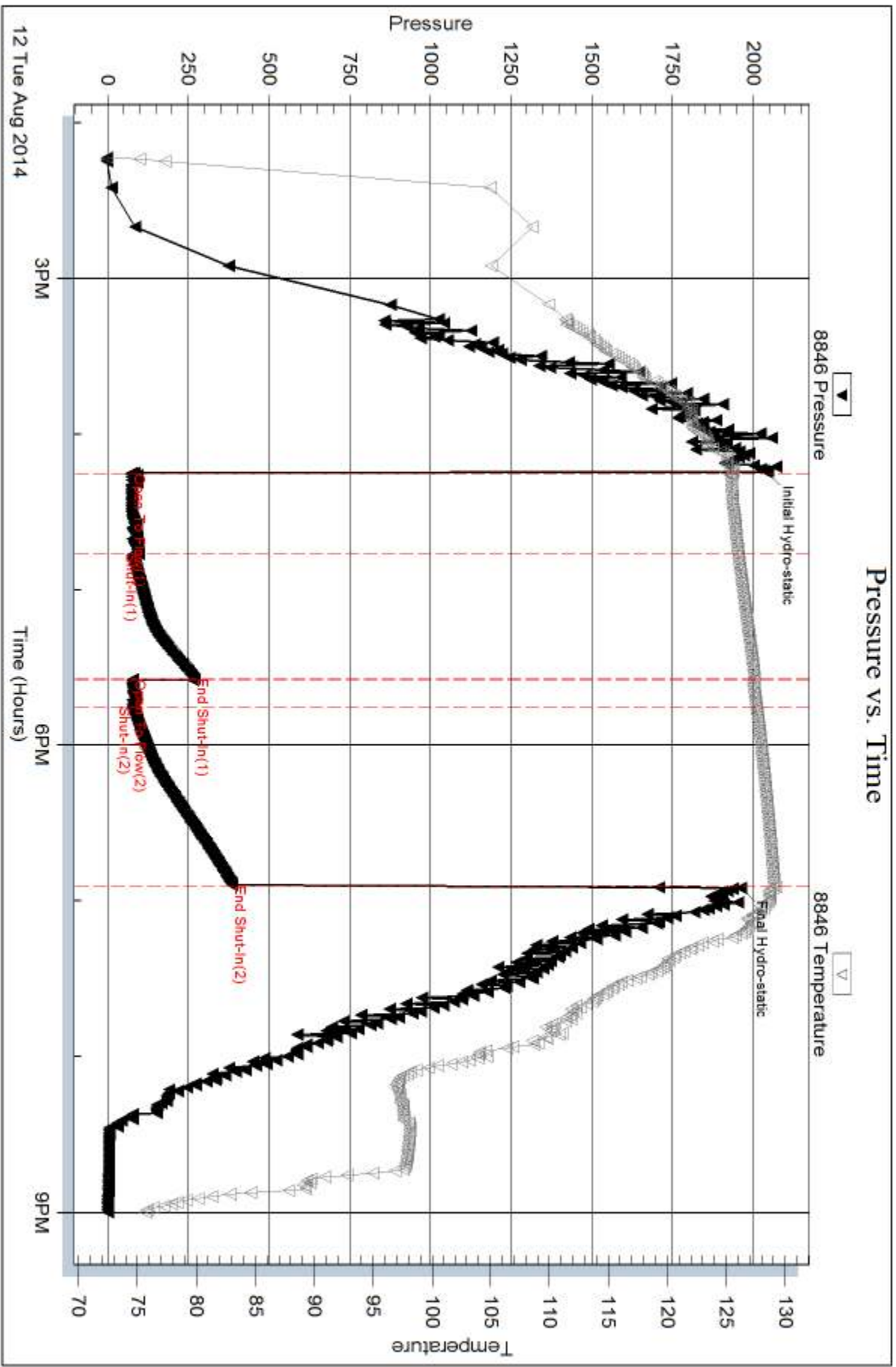
Serial #: 8846

Inside

Murfin Drilling Co. Inc.

Verna Poore #1-7

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 59114

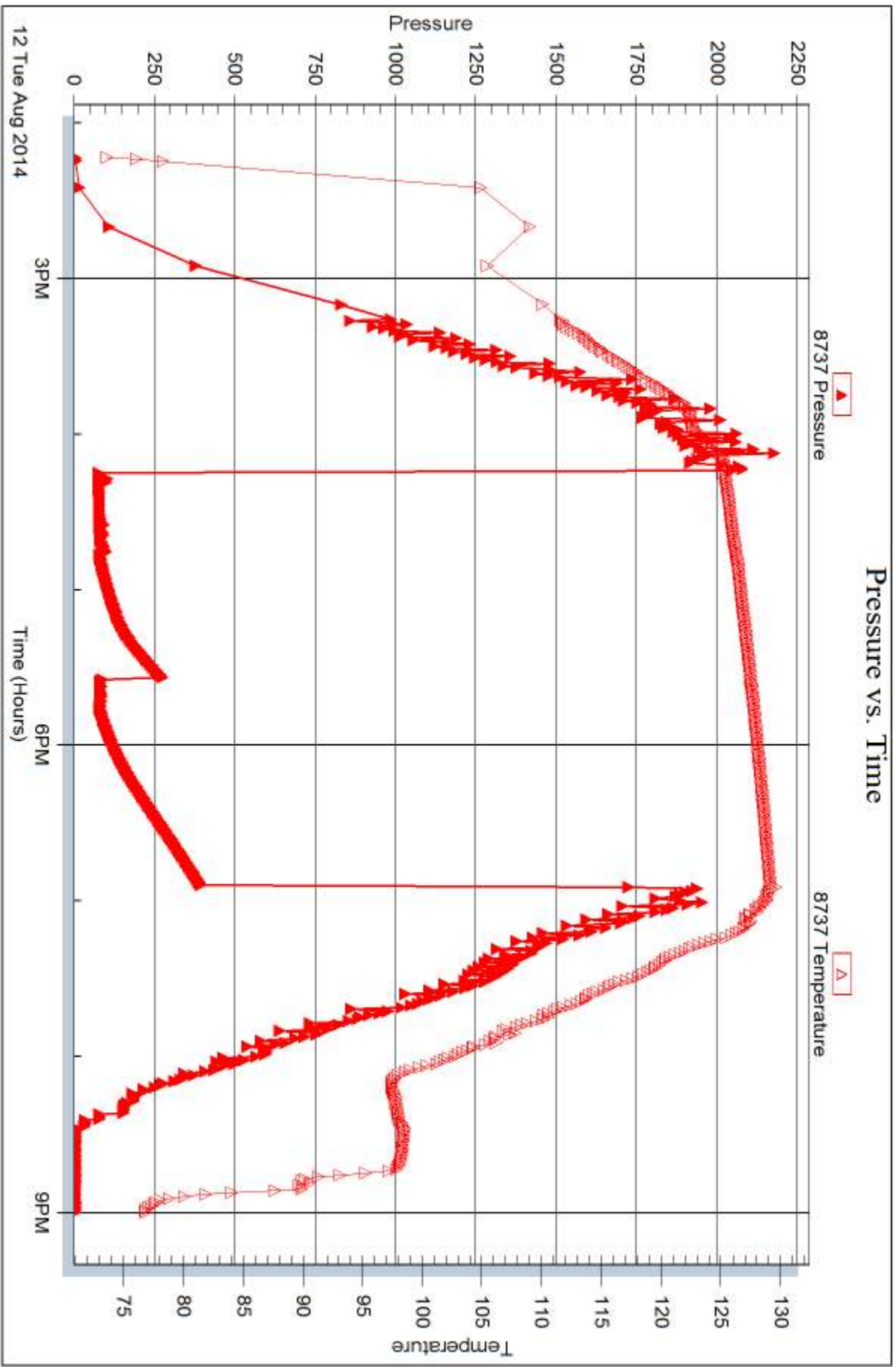
Printed: 2014.08.19 @ 17:20:45

Serial #: 8737

Outside Murfin Drilling Co. Inc.

Verna Poore #1-7

DST Test Number: 1





DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202

ATTN: Keith Reavis

Verna Poore #1-7

7-1s-35w Rawlins,KS

Start Date: 2014.08.13 @ 23:49:00

End Date: 2014.08.14 @ 07:40:00

Job Ticket #: 60130 DST #: 2

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

Printed: 2014.08.19 @ 17:18:08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
250 N Water STE 300
Wichita KS 67202
ATTN: Keith Reavis

7-1s-35w Rawlins,KS
Verna Poore #1-7
Job Ticket: 60130 **DST#: 2**
Test Start: 2014.08.13 @ 23:49:00

GENERAL INFORMATION:

Formation: **LKC "A-B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:09:00
 Time Test Ended: 07:40:00
 Interval: **4130.00 ft (KB) To 4210.00 ft (KB) (TVD)**
 Total Depth: 4210.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Donovan Baumann
 Unit No: 66
 Reference Elevations: 3215.00 ft (KB)
 3210.00 ft (CF)
 KB to GR/CF: 5.00 ft

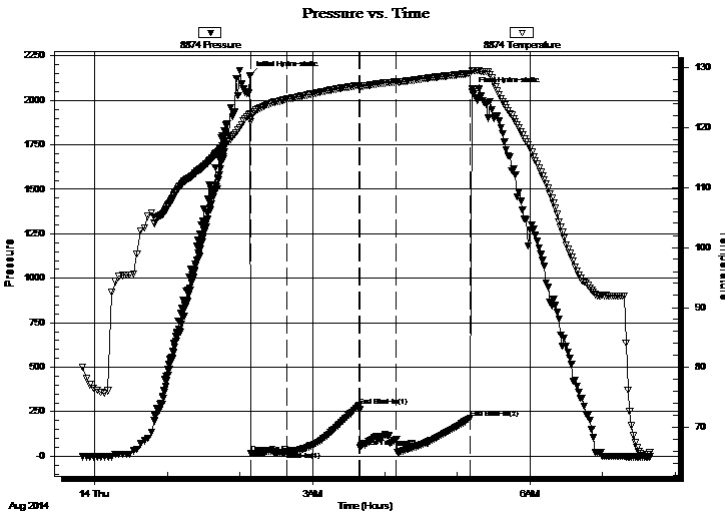
Serial #: 8874

Inside

Press@RunDepth: 95.65 psig @ 4131.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.13 End Date: 2014.08.14 Last Calib.: 2014.08.14
 Start Time: 23:50:00 End Time: 07:40:00 Time On Btm: 2014.08.14 @ 02:08:30
 Time Off Btm: 2014.08.14 @ 05:12:30

TEST COMMENT: 30 - IF - Surface blow built to 1/4"
 60 - ISI - No return
 30 - FF - Weak surface blow
 60 - FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2139.91	122.22	Initial Hydro-static
1	16.12	120.94	Open To Flow (1)
31	28.95	124.65	Shut-In(1)
90	283.83	126.97	End Shut-In(1)
91	50.82	126.89	Open To Flow (2)
121	95.65	127.57	Shut-In(2)
182	213.41	128.97	End Shut-In(2)
184	2048.10	129.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
250 N Water STE 300
Wichita KS 67202
ATTN: Keith Reavis

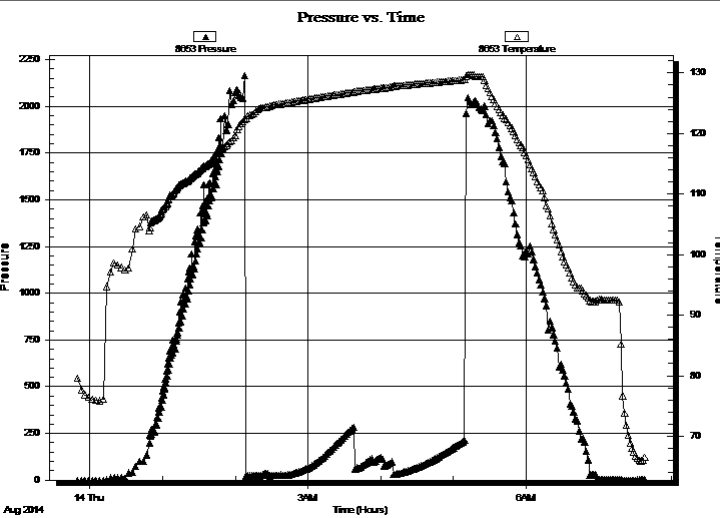
7-1s-35w Rawlins,KS
Verna Poore #1-7
Job Ticket: 60130 **DST#: 2**
Test Start: 2014.08.13 @ 23:49:00

GENERAL INFORMATION:

Formation: **LKC "A-B"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 02:09:00 Tester: Donovan Baumann
 Time Test Ended: 07:40:00 Unit No: 66
 Interval: **4130.00 ft (KB) To 4210.00 ft (KB) (TVD)** Reference Elevations: 3215.00 ft (KB)
 Total Depth: 4210.00 ft (KB) (TVD) 3210.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8653 Outside
 Press@RunDepth: psig @ 4131.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.13 End Date: 2014.08.14 Last Calib.: 2014.08.14
 Start Time: 23:50:00 End Time: 07:38:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF - Surface blow built to 1/4"
 60 - ISI - No return
 30 - FF - Weak surface blow
 60 - FSI - No return



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

Recovery		
Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

7-1s-35w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Verna Poore #1-7

Job Ticket: 60130

DST#: 2

ATTN: Keith Reavis

Test Start: 2014.08.13 @ 23:49:00

Tool Information

Drill Pipe:	Length: 3930.00 ft	Diameter: 3.80 inches	Volume: 55.13 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:	70000.00 lb
			<u>Total Volume: 56.05 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4130.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	80.00 ft				
Tool Length:	108.00 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			4103.00	
Shut In Tool	5.00			4108.00	
Hydraulic tool	5.00			4113.00	
Jars	5.00			4118.00	
Safety Joint	3.00			4121.00	
Packer	5.00			4126.00	28.00 Bottom Of Top Packer
Packer	4.00			4130.00	
Stubb	1.00			4131.00	
Recorder	0.00	8653	Outside	4131.00	
Recorder	0.00	8874	Inside	4131.00	
Perforations	9.00			4140.00	
Change Over Sub	1.00			4141.00	
Drill Pipe	63.00			4204.00	
Change Over Sub	1.00			4205.00	
Bullnose	5.00			4210.00	80.00 Bottom Packers & Anchor

Total Tool Length: 108.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

7-1s-35w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Verna Poore #1-7

Job Ticket: 60130

DST#: 2

ATTN: Keith Reavis

Test Start: 2014.08.13 @ 23:49:00

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: 90.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

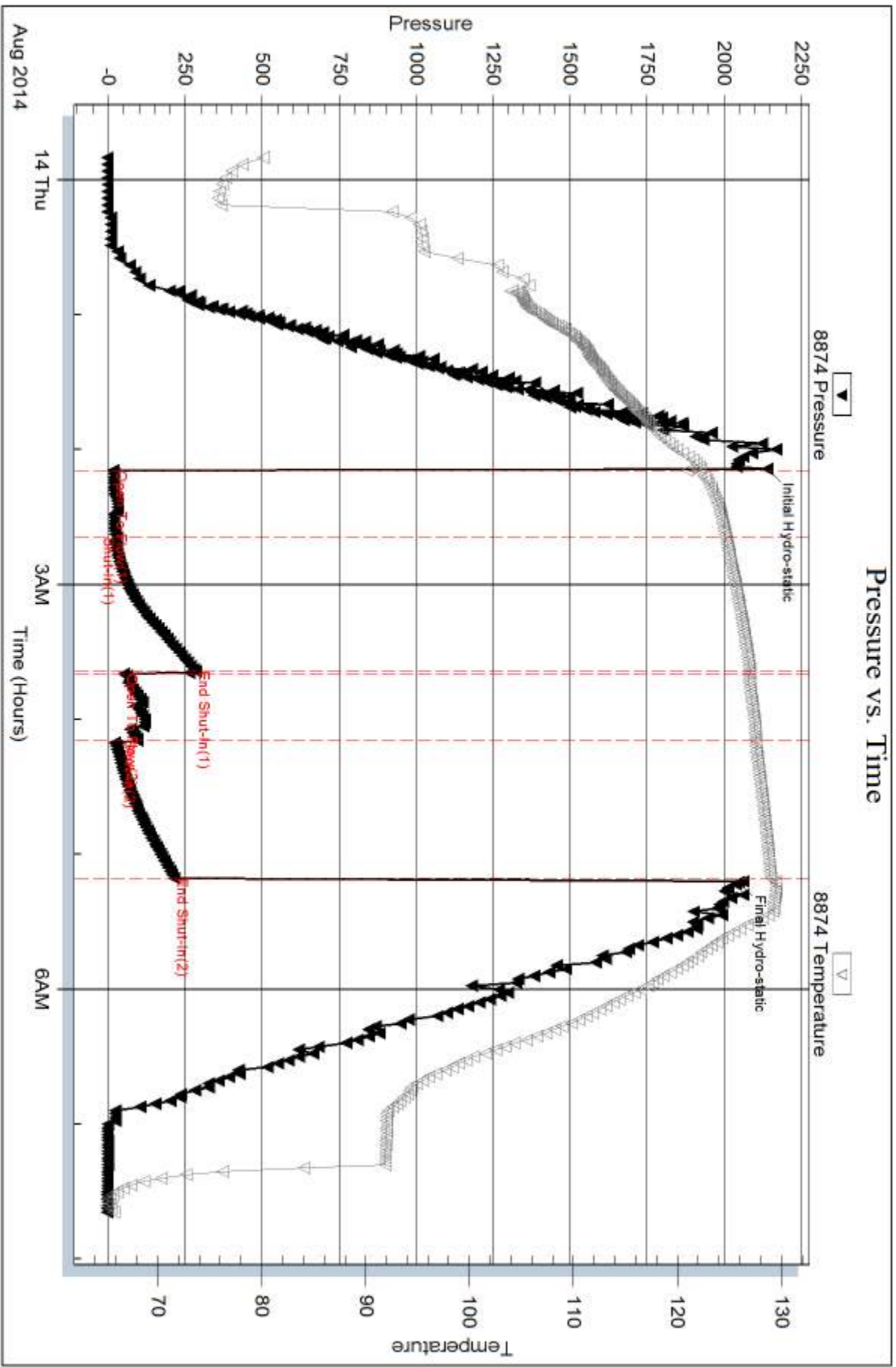
Serial #: 8874

Inside

Murfin Drilling Co. Inc.

Verna Roore #1-7

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 60130

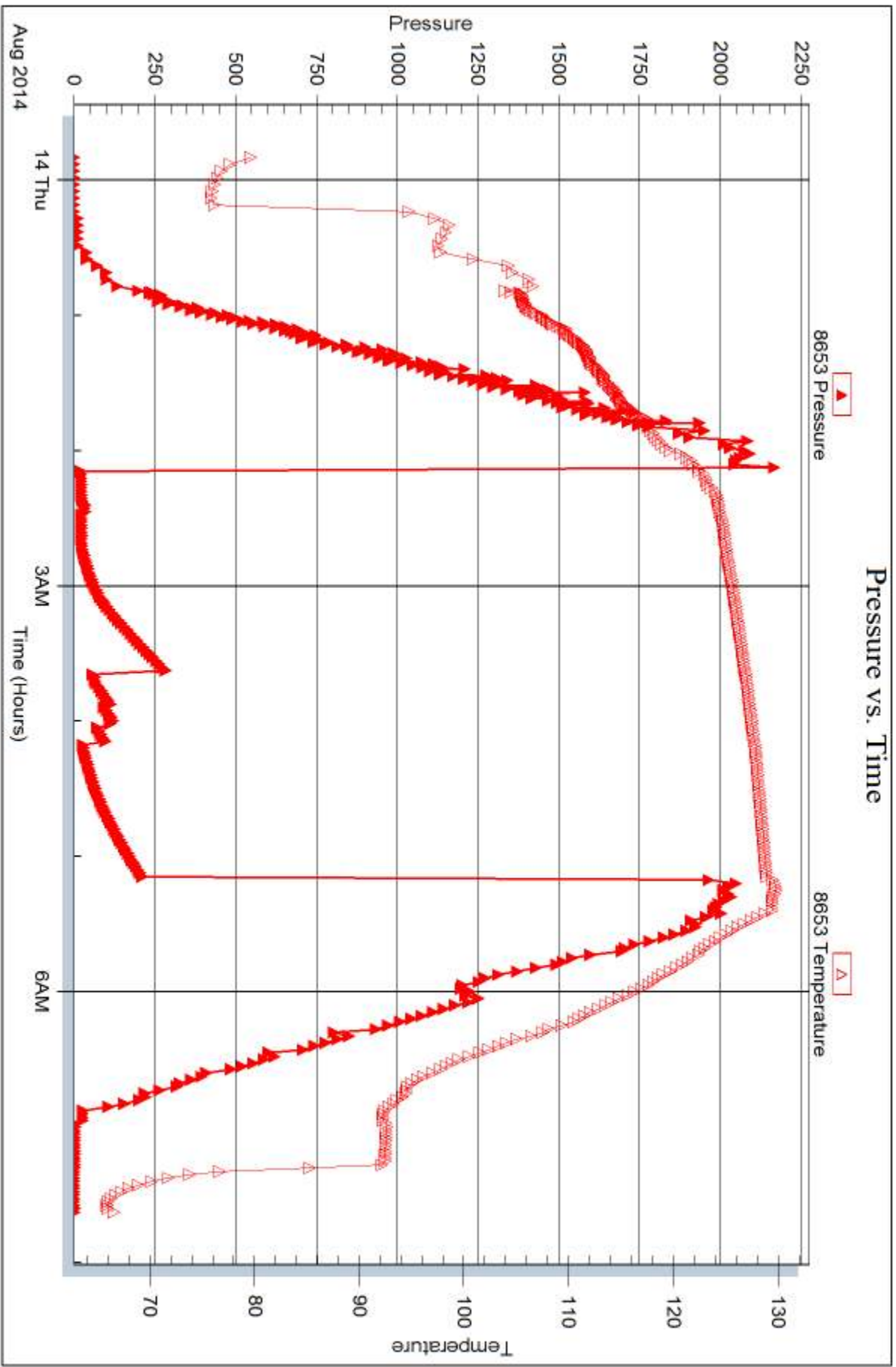
Printed: 2014.08.19 @ 17:19:08

Serial #: 8653

Outside Murfin Drilling Co. Inc.

Verna Poore #1-7

DST Test Number: 2





DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202

ATTN: Keith Reavis

Verna Poore #1-7

7-1s-35w Rawlins,KS

Start Date: 2014.08.14 @ 08:44:00

End Date: 2014.08.14 @ 19:40:00

Job Ticket #: 60131 DST #: 3

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

Printed: 2014.08.19 @ 17:16:17

Murfin Drilling Co. Inc.

7-1s-35w Rawlins,KS

Verna Poore #1-7

DST # 3

LKC "D-G"

2014.08.14



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
 250 N Water STE 300
 Wichita KS 67202
 ATTN: Keith Reavis

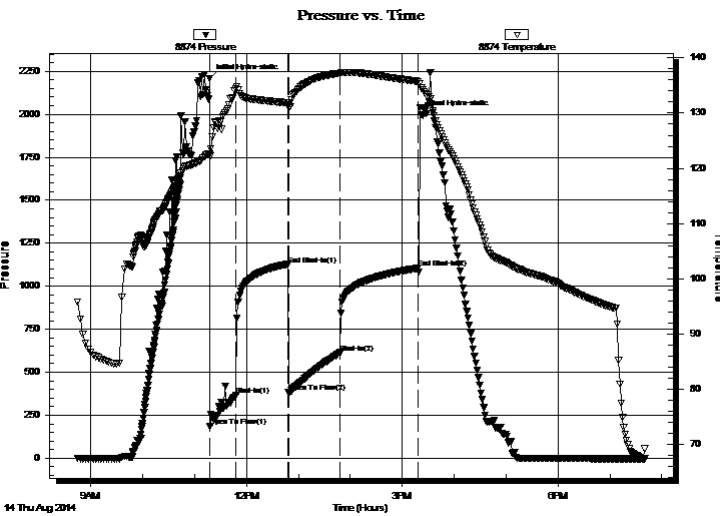
7-1s-35w Rawlins,KS
Verna Poore #1-7
 Job Ticket: 60131 **DST#: 3**
 Test Start: 2014.08.14 @ 08:44:00

GENERAL INFORMATION:

Formation: **LKC "D-G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:18:00
 Time Test Ended: 19:40:00
 Interval: **4188.00 ft (KB) To 4290.00 ft (KB) (TVD)**
 Total Depth: 4290.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Donovan Baumann
 Unit No: 66
 Reference Elevations: 3215.00 ft (KB)
 3210.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8874 Inside
 Press@RunDepth: 613.49 psig @ 4189.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.14 End Date: 2014.08.14 Last Calib.: 2014.08.15
 Start Time: 08:45:00 End Time: 19:40:00 Time On Btm: 2014.08.14 @ 11:17:30
 Time Off Btm: 2014.08.14 @ 15:22:00

TEST COMMENT: 30 - IF - Surface blow built to BOB in 3 1/2 min
 60 - ISI - Return built to 6 1/4"
 60 - FF - Surface blow built to BOB in 4 min.
 90 - FSI - Return built to BOB in 14 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2206.57	122.57	Initial Hydro-static
1	185.41	122.21	Open To Flow (1)
31	365.78	134.55	Shut-In(1)
91	1125.19	131.86	End Shut-In(1)
91	382.18	131.38	Open To Flow (2)
151	613.49	137.22	Shut-In(2)
241	1104.84	135.74	End Shut-In(2)
245	1996.16	134.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	MCO - 65o - 35M	1.83
378.00	OCWM - 20o - 25W - 55M	5.30
63.00	MCW - 80W - 20M	0.88
378.00	MCO - 950 - 5M	5.30
252.00	Oil - 100o	3.53

Gas Rates

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



DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
 250 N Water STE 300
 Wichita KS 67202
 ATTN: Keith Reavis

7-1s-35w Rawlins, KS
Verna Poore #1-7
 Job Ticket: 60131 **DST#: 3**
 Test Start: 2014.08.14 @ 08:44:00

GENERAL INFORMATION:

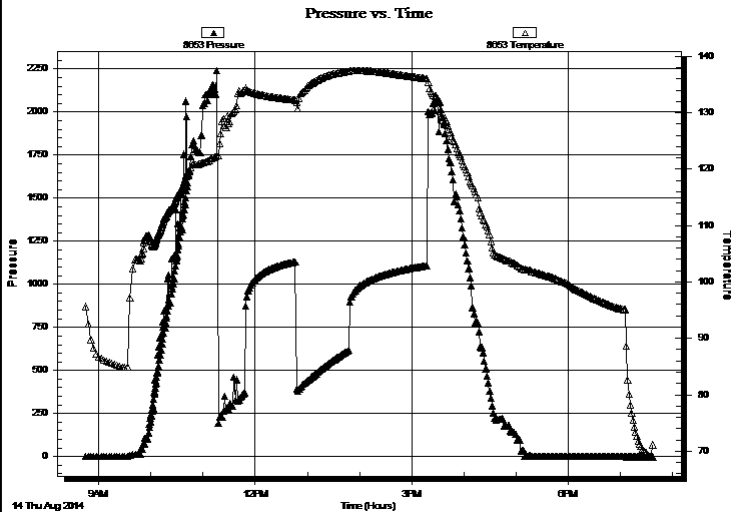
Formation: **LKC "D-G"**
 Deviater: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:18:00 Tester: Donovan Baumann
 Time Test Ended: 19:40:00 Unit No: 66
 Interval: **4188.00 ft (KB) To 4290.00 ft (KB) (TVD)** Reference Elevations: 3215.00 ft (KB)
 Total Depth: 4290.00 ft (KB) (TVD) 3210.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8653

Outside

Press@RunDepth: psig @ 4189.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.14 End Date: 2014.08.14 Last Calib.: 2014.08.15
 Start Time: 08:45:00 End Time: 19:37:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF - Surface blow built to BOB in 3 1/2 min
 60 - ISI - Return built to 6 1/4"
 60 - FF - Surface blow built to BOB in 4 min.
 90 - FSI - Return built to BOB in 14 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
252.00	MCO - 65o - 35M	1.83
378.00	OCWM - 20o - 25W - 55M	5.30
63.00	MCW - 80W - 20M	0.88
378.00	MCO - 95o - 5M	5.30
252.00	Oil - 100o	3.53

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

7-1s-35w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Verna Poore #1-7

Job Ticket: 60131

DST#: 3

ATTN: Keith Reavis

Test Start: 2014.08.14 @ 08:44:00

Tool Information

Drill Pipe:	Length: 3992.00 ft	Diameter: 3.80 inches	Volume: 56.00 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: 74000.00 lb
			<u>Total Volume: 56.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4188.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	130.00 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			4161.00	
Shut In Tool	5.00			4166.00	
Hydraulic tool	5.00			4171.00	
Jars	5.00			4176.00	
Safety Joint	3.00			4179.00	
Packer	5.00			4184.00	28.00 Bottom Of Top Packer
Packer	4.00			4188.00	
Stubb	1.00			4189.00	
Recorder	0.00	8653	Outside	4189.00	
Recorder	0.00	8874	Inside	4189.00	
Perforations	31.00			4220.00	
Change Over Sub	1.00			4221.00	
Drill Pipe	63.00			4284.00	
Change Over Sub	1.00			4285.00	
Bullnose	5.00			4290.00	102.00 Bottom Packers & Anchor

Total Tool Length: 130.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

7-1s-35w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Verna Poore #1-7

Job Ticket: 60131

DST#: 3

ATTN: Keith Reavis

Test Start: 2014.08.14 @ 08:44:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 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
252.00	MCO - 65o - 35M	1.831
378.00	OCWM - 20o - 25W - 55M	5.302
63.00	MCW - 80W - 20M	0.884
378.00	MCO - 950 - 5M	5.302
252.00	Oil - 100o	3.535

Total Length: 1323.00 ft Total Volume: 16.854 bbl

Num Fluid Samples: 0

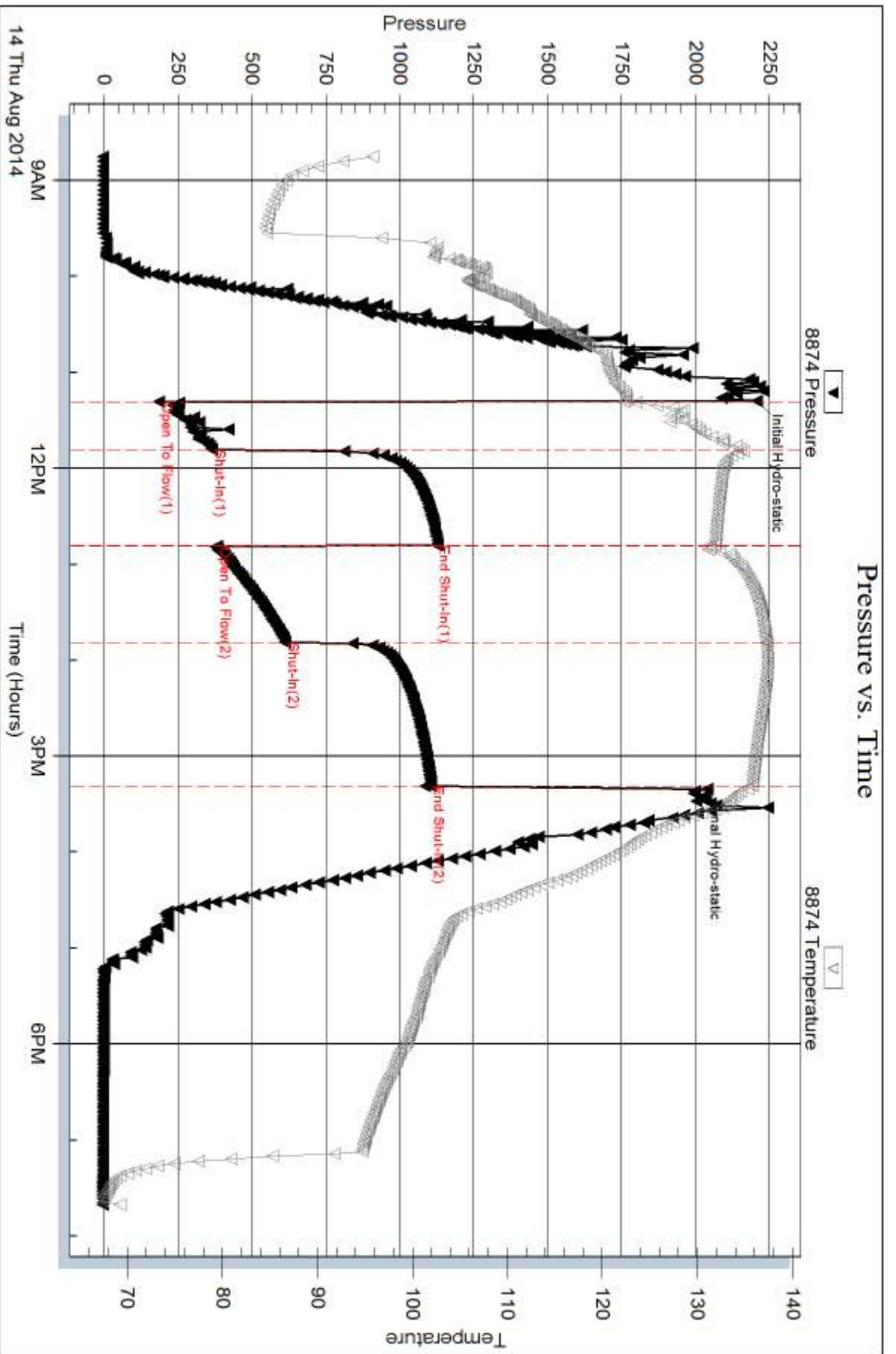
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

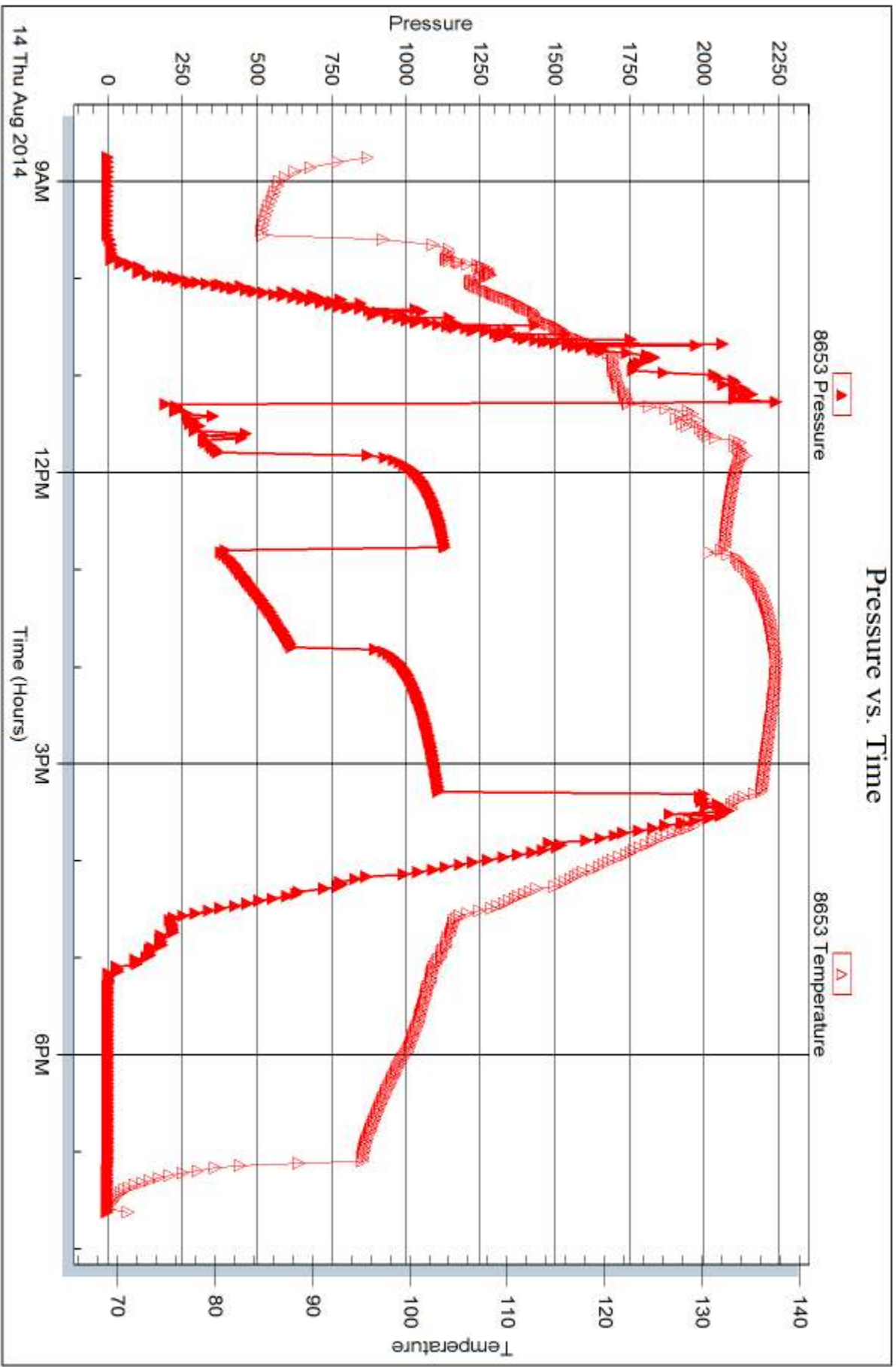


Serial #: 8653

Outside Murfin Drilling Co. Inc.

Verna Roore #1-7

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 60131

Printed: 2014.08.19 @ 17:17:12



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202

ATTN: Keith Reavis

Verna Poore #1-7

7-1s-35w Rawlins,KS

Start Date: 2014.08.16 @ 00:06:00

End Date: 2014.08.16 @ 10:19:00

Job Ticket #: 60132 DST #: 4

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

Printed: 2014.08.19 @ 17:15:09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
250 N Water STE 300
Wichita KS 67202
ATTN: Keith Reavis

7-1s-35w Rawlins,KS
Verna Poore #1-7
Job Ticket: 60132 **DST#: 4**
Test Start: 2014.08.16 @ 00:06:00

GENERAL INFORMATION:

Formation: **LSG "G-J"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 02:57:00 Tester: Donovan Baumann
Time Test Ended: 10:19:00 Unit No: 66
Interval: 4288.00 ft (KB) To 4390.00 ft (KB) (TVD) Reference Elevations: 3215.00 ft (KB)
Total Depth: 4390.00 ft (KB) (TVD) 3210.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

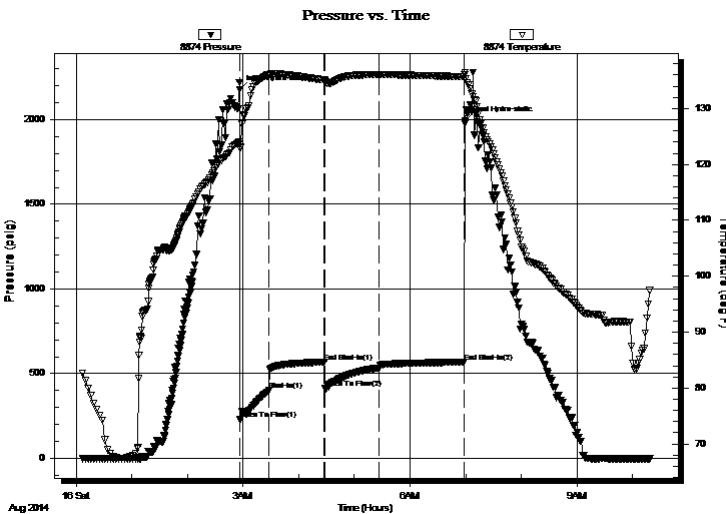
Serial #: 8874

Inside

Press@RunDepth: 534.07 psig @ 4289.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.16 End Date: 2014.08.16 Last Calib.: 2014.08.16
Start Time: 00:07:00 End Time: 10:19:00 Time On Btm: 2014.08.16 @ 02:56:30
Time Off Btm: 2014.08.16 @ 06:59:30

TEST COMMENT: 30 - IF - valve shut
60 - ISI - Return built to BOB in 10 mi.
60 - FF - Surface blow built to BOB right after turning the tool
90 - FSI - Return built to BOB in 30 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.73	124.02	Initial Hydro-static
1	228.07	122.92	Open To Flow (1)
31	399.26	135.87	Shut-In(1)
91	566.36	135.11	End Shut-In(1)
92	412.58	135.04	Open To Flow (2)
151	534.07	136.08	Shut-In(2)
242	567.60	135.67	End Shut-In(2)
243	1991.34	136.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
438.00	WMCO - 65o - 30M - 5W	4.44
315.00	MCGO - 25M - 60o - 15G	4.42
126.00	MCGO - 20M - 60o - 20G	1.77
126.00	MCGO - 20M - 65o - 15G	1.77
189.00	gassy oil - 90o - 10G	2.65
191.00	Oil - 100o	2.68

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

7-1s-35w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Verna Poore #1-7

Job Ticket: 60132

DST#: 4

ATTN: Keith Reavis

Test Start: 2014.08.16 @ 00:06:00

GENERAL INFORMATION:

Formation: **LSG "G-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:57:00

Time Test Ended: 10:19:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Donovan Baumann

Unit No: 66

Interval: 4288.00 ft (KB) To 4390.00 ft (KB) (TVD)

Reference Elevations: 3215.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

3210.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8653 Outside

Press@RunDepth: psig @ 4289.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.16

End Date: 2014.08.16

Last Calib.: 2014.08.16

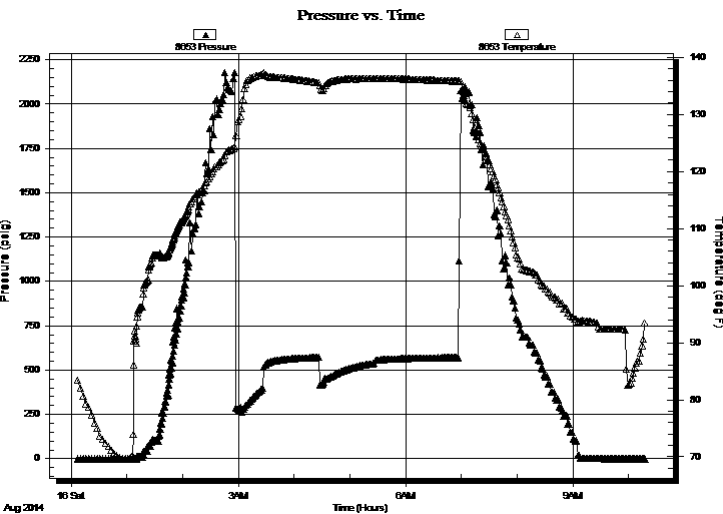
Start Time: 00:07:00

End Time: 10:17:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF - valve shut
60 - ISI - Return built to BOB in 10 mi.
60 - FF - Surface blow built to BOB right after turning the tool
90 - FSI - Return built to BOB in 30 min



PRESSURE SUMMARY

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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
438.00	WMCO - 65o - 30M - 5W	4.44
315.00	MCGO - 25M - 60o - 15G	4.42
126.00	MCGO - 20M - 60o - 20G	1.77
126.00	MCGO - 20M - 65o - 15G	1.77
189.00	gassy oil - 90o - 10G	2.65
191.00	Oil - 100o	2.68

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

7-1s-35w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Verna Poore #1-7

Job Ticket: 60132

DST#: 4

ATTN: Keith Reavis

Test Start: 2014.08.16 @ 00:06:00

Tool Information

Drill Pipe:	Length: 4088.00 ft	Diameter: 3.80 inches	Volume: 57.34 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: 72000.00 lb
			<u>Total Volume: 58.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4288.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	130.00 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			4261.00	
Shut In Tool	5.00			4266.00	
Hydraulic tool	5.00			4271.00	
Jars	5.00			4276.00	
Safety Joint	3.00			4279.00	
Packer	5.00			4284.00	28.00 Bottom Of Top Packer
Packer	4.00			4288.00	
Stubb	1.00			4289.00	
Recorder	0.00	8653	Outside	4289.00	
Recorder	0.00	8874	Inside	4289.00	
Perforations	31.00			4320.00	
Change Over Sub	1.00			4321.00	
Drill Pipe	63.00			4384.00	
Change Over Sub	1.00			4385.00	
Bullnose	5.00			4390.00	102.00 Bottom Packers & Anchor

Total Tool Length: 130.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

7-1s-35w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Verna Poore #1-7

Job Ticket: 60132

DST#: 4

ATTN: Keith Reavis

Test Start: 2014.08.16 @ 00:06:00

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: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
438.00	WMCO - 65o - 30M - 5W	4.441
315.00	MCGO - 25M - 60o - 15G	4.419
126.00	MCGO - 20M - 60o - 20G	1.767
126.00	MCGO - 20M - 65o - 15G	1.767
189.00	gassy oil - 90o - 10G	2.651
191.00	Oil - 100o	2.679

Total Length: 1385.00 ft Total Volume: 17.724 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

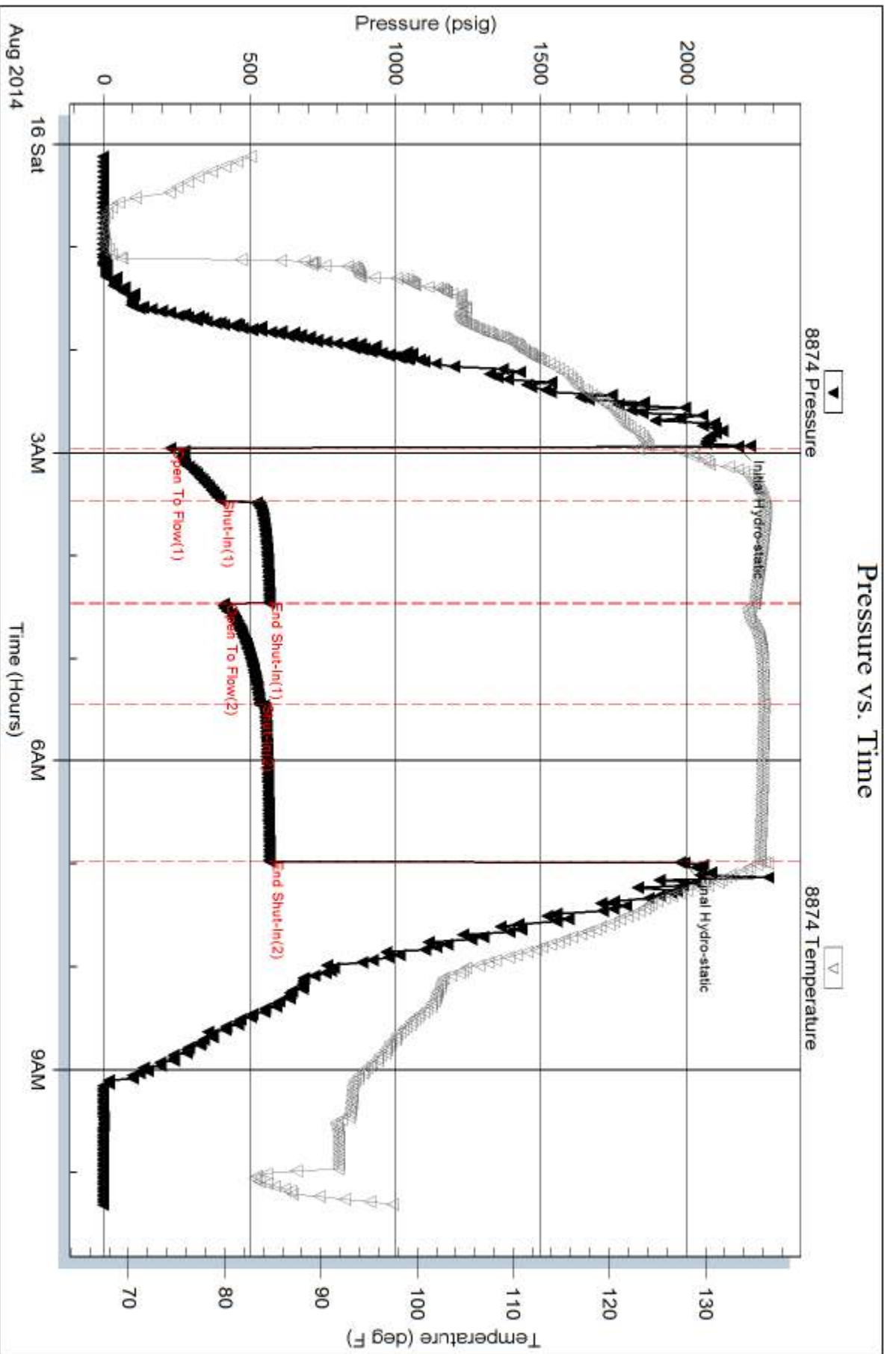
Serial #: 8874

Inside

Murfin Drilling Co. Inc.

Verna Roore #1-7

DST Test Number: 4

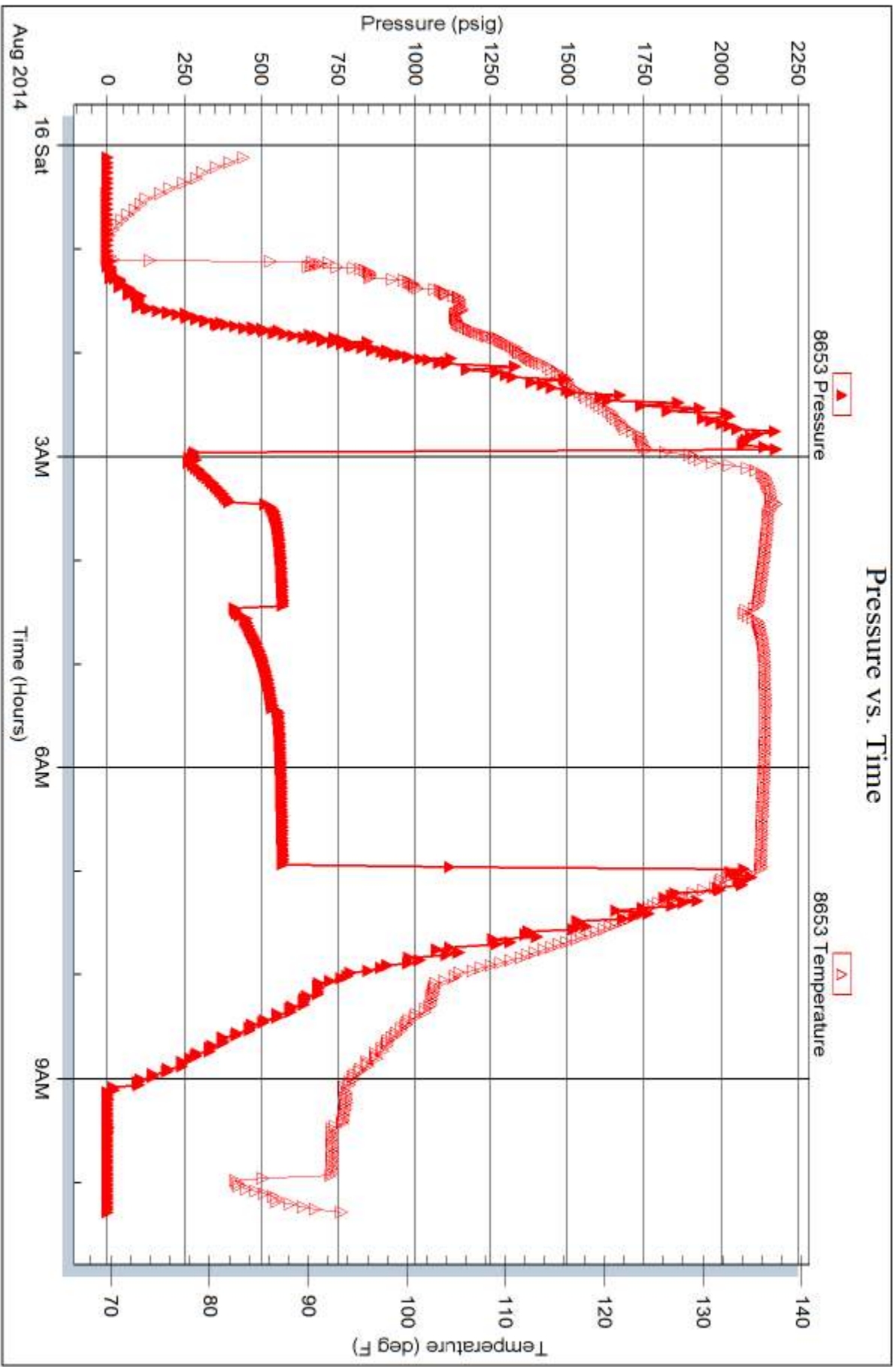


Serial #: 8653

Outside Murfin Drilling Co. Inc.

Verna Poore #1-7

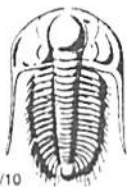
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 60132

Printed: 2014.08.19 @ 17:15:33



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59114

Well Name & No. Verna 1-7 Test No. 1 Date 8-12-14
 Company Murton Drilling Co Inc. Elevation 3215 KB 3210 GL _____
 Address 250. N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Keith Reavis Rig Murton 7
 Location: Sec. 7 Twp. 1 Rge. 35 Co. Rawlins State KS

Interval Tested 3818-3940 Zone Tested Statler
 Anchor Length ~~3818~~ 122 Drill Pipe Run ~~122~~ 3790 Mud Wt. 9.1
 Top Packer Depth ~~3818~~ 3813 Drill Collars Run 187 Vis 63
 Bottom Packer Depth 3818 Wt. Pipe Run Ø WL 7.2
 Total Depth 3940 Chlorides 700 ppm System LCM 4

Blow Description DF: Weak Surface Blow
IS: NO Return Blow
FF: NO Blow
FS: NO Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 128 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 2042 Test 1150.00 T-On Location 1:45
 (B) First Initial Flow 73 Jars 250.00 T-Started 2:13 KS Time
 (C) First Final Flow 97 Safety Joint 75.00 T-Open 15:15
 (D) Initial Shut-In 269 Circ Sub NC T-Pulled 18:15
 (E) Second Initial Flow 77 Hourly Standby _____ T-Out 21:00
 (F) Second Final Flow 78 Mileage 260 RT 403.00 Comments Motel / Night
 (G) Final Shut-In 387 Sampler 110rt 170.50
 (H) Final Hydrostatic 1962 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1645.50
 Accessibility 1645.50 MP/DST Disc't _____
 Sub Total 1828.97

Initial Open 30
 Initial Shut-In 60
 Final Flow 10
 Final Shut-In 70
 Approved By Keith Reavis Our Representative Mike Robert

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. **60130**

Well Name & No. verna # 1-7 Test No. 2 Date 8-13-14
 Company Murfin Drilling Co., Inc. Elevation 3215 KB 3210 GL
 Address 250 N. water STE 300 Wichita, KS, 67202
 Co. Rep / Geo. Keith Reavis Rig murfin #7
 Location: Sec. 7 Twp. 1S Rge. 35W Co. Rawlins State KS

Interval Tested 4130' - 4210' Zone Tested LKC "A+B"
 Anchor Length 80 Drill Pipe Run 3930' Mud Wt. 9.2
 Top Packer Depth 4125' Drill Collars Run 1870 Vis 64
 Bottom Packer Depth 4130' Wt. Pipe Run 0 WL 8.4
 Total Depth 4210' Chlorides 600 ppm System LCM 4#
 Blow Description IF - Surface blow built to 1/4"
ISI - NO return
FF - weak surface blow
FSI - NO return

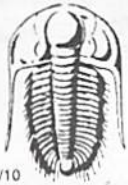
Rec	Feet of	%gas	%oil	%water	%mud
<u>2'</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT 129 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2140 Test 1250 T-On Location 10:50pm
 (B) First Initial Flow 16 Jars 250 T-Started 11:49p.m.
 (C) First Final Flow 29 Safety Joint 75 T-Open 2:09 a.m.
 (D) Initial Shut-In 284 Circ Sub n/c T-Pulled 5:10 a.m.
 (E) Second Initial Flow 51 Hourly Standby _____ T-Out 7:40 a.m.
 (F) Second Final Flow 96 Mileage 110 R/T 170.50 Comments _____
 (G) Final Shut-In 213 Sampler _____
 (H) Final Hydrostatic 2048 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 1745.50
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1745.50

Approved By _____ Our Representative Dencrow Penmann

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. 60131

Well Name & No. Verna #1-7 Test No. 3 Date 8-14-14
 Company Murfin Drilling Co., Inc Elevation 3215 KB 3210 GL
 Address 250 N. Water STE 300 Wichita, KS, 67202
 Co. Rep / Geo. Keith Reavis Rig Murfin #7
 Location: Sec. 7 Twp. 1S Rge. 35W Co. Rawlins State KS

Interval Tested 4188' - 4290' Zone Tested LKC "D+G"
 Anchor Length 102' Drill Pipe Run 3992' Mud Wt. 9.4
 Top Packer Depth 4183' Drill Collars Run 187 Vis 50
 Bottom Packer Depth 4188' Wt. Pipe Run Ø WL 10
 Total Depth 4290' Chlorides 700 ppm System LCM 4#
 Blow Description IF - Surface blow built to BOB in 3 1/2 min.
ISI - Return built to
FF - Surface blow built to BOB in 4 min
FSI - Return built to BOB in 14 min.

Rec	Feet of	%gas	%oil	%water	%mud
252	oil	100			
378	MCO	95			5
63	mcw		80		20
378	OCWM	20	25		55
252	mco	65			35

Rec Total 1323 BHT 136 Gravity _____ API RW .2 @ 69 ° F Chlorides 39000 ppm
 (A) Initial Hydrostatic 2207 Test 1250 T-On Location 7:50 p.m.
 (B) First Initial Flow 185 Jars 250 T-Started 8:44 p.m.
 (C) First Final Flow 366 Safety Joint 75 T-Open 11:18 p.m.
 (D) Initial Shut-In 1125 Circ Sub n/c T-Pulled 3:18 a.m.
 (E) Second Initial Flow 382 Hourly Standby _____ T-Out 7:40 a.m.
 (F) Second Final Flow 613 Mileage 110 R/T 170.50 Comments _____
 (G) Final Shut-In 1105 Sampler _____
 (H) Final Hydrostatic 1996 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 0
 Total 1745.50
 MP/DST Disc't _____
 Sub Total 1745.50

Approved By _____ Our Representative Jonathan Reavis

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. 60132

Well Name & No. Verna Poore #1-7 Test No. 4 Date 8-15-14
 Company Murfin Drilling Co., Inc Elevation 3215 KB 3210 GL
 Address 250 N. water STE 300 Wichita, KS, 67202
 Co. Rep / Geo. Keith Reavis Rig Murfin #7
 Location: Sec. 7 Twp. 1S Rge. 35w Co. Rawlins State KS

Interval Tested 4288' - 4390' Zone Tested LSG "G-J"
 Anchor Length 102' Drill Pipe Run 4088' Mud Wt. 8.8
 Top Packer Depth 4283' Drill Collars Run 187' Vis 72
 Bottom Packer Depth 4288' Wt. Pipe Run 0 WL 8
 Total Depth 4390' Chlorides 2,000 ppm System LCM 16#

Blow Description IF - Valveshut
ISF - Return built to BoB in 10 min.
FF - Surface blow built to BoB right after turning tool
FSI - Return built to BoB in 30 min.

Rec	Feet of	%gas	%oil	%water	%mud
191	oil		100		
189	gassy oil	10	90		
126	mcgo	15	65		20
120	mcgo	20	60		20
315	mcgo	15	60		25

Rec Total 1385 BHT 136 Gravity _____ API RW 43 @ 60 ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2176 Test 1250 T-On Location 10:35pm
 (B) First Initial Flow 228 Jars 250 T-Started 12:06a.m.
 (C) First Final Flow 399 Safety Joint 75 T-Open 2:57am
 (D) Initial Shut-In 566 Circ Sub n/c T-Pulled 6:58a.m.
 (E) Second Initial Flow 413 Hourly Standby _____ T-Out 10:19am
 (F) Second Final Flow 534 Mileage 110 R/T 170.50 Comments _____
 (G) Final Shut-In 568 Sampler _____
 (H) Final Hydrostatic 1991 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 60 Extra Packer _____ Extra Copies _____
 Final Flow 60 Extra Recorder _____ Sub Total 0
 Final Shut-In 90 Day Standby _____ Total 1745.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1745.50

Approved By _____ Our Representative Jameson Baumann

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.

ALLIED OIL & GAS SERVICES, LLC 063372

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

Dakley, TX

DATE <i>8/19/14</i>	SEC. <i>7</i>	TWP. <i>1</i>	RANGE <i>35</i>	CALLED OUT	ON LOCATION	JOB START <i>7:00</i>	JOB FINISH <i>7:30</i>
LEASE <i>Ver Ng</i>	WELL# <i>7-1</i>	LOCATION <i>Buddy 1670 702 W 7</i>			COUNTY <i>Hoodless</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)			<i>STO CL 0 3/4 E W-E-N-E-Exp</i>				

CONTRACTOR *Murkin 7* OWNER *Same*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. *220*

CASING SIZE *8 5/8* DEPTH *220*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT

CEMENT AMOUNT ORDERED *225 Com 3070 CC*

270 gals

COMMON <i>225</i>	@ <i>17.90</i>	<i>4027.50</i>
POZMIX	@	
GEL <i>403 lb</i>	@ <i>7.05</i>	<i>2841.15</i>
CHLORIDE <i>635 lb</i>	@ <i>1.10</i>	<i>698.50</i>
ASC	@	
	@	
<i>Material Total</i>	@	<i>5170.15</i>
<i>(1809.55 / 35%)</i>	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <i>243.30</i>	@ <i>2.48</i>	<i>603.38</i>
MILEAGE <i>22 70/mile 11.104 700</i>	@ <i>2595</i>	<i>570.10</i>

EQUIPMENT

PUMP TRUCK	CEMENTER <i>Alan Ragan</i>
# <i>423-281</i>	HELPER <i>Kevin Ragan</i>
BULK TRUCK	
# <i>812</i>	DRIVER <i>Bernice (TUS)</i>
BULK TRUCK	
#	DRIVER

REMARKS:

Am Coy, Calculators, Mix Cement

Asphalte Cement Shred in

Cement Bldg Calculators P

GBT to P.T

Thank U

M.A., Kevin, Bernice to Vehicle 85

CHARGE TO: *Murkin Drilling* (*2105.11 / 35% 7*)

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL _____

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		<i>1812.25</i>
EXTRA FOOTAGE	@	
MILEAGE <i>85</i>	@ <i>7.70</i>	<i>654.50</i>
MANIFOLD <i>2 Head</i>	@	<i>225.00</i>
<i>to Vehicle 85</i>	@ <i>4.40</i>	<i>374.00</i>
	@	

TOTAL *6016.69*

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 *FRED Williams*

SIGNATURE *[Signature]*

SALES TAX (If Any) _____

TOTAL CHARGES *11184.84*

DISCOUNT *3914.69 (35%)* IF PAID IN 30 DAYS

7270.15 NET



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 270656

Invoice Date: 08/28/2014 Terms: 10/10/10,n/30

Page 1

MURFIN DRILLING
P.O. BOX 288
RUSSELL KS 67665
() -

VERNA 1-7
46708
7-1-35
8-17-14
KS

USED FOR IC 103

APPROVED JS/FH

Part Number	Description	Qty	Unit Price	Total
1104D	CLASS "A" CEMENT CMD	350.00	27.9200	9772.00
1126	OIL WELL CEMENT	200.00	23.7000	4740.00
1101	CAL SEAL	1000.00	.5200	520.00
1107	FLO-SEAL (25#)	175.00	2.9700	519.75
1142A	KCL SUB MB6875 CC3107 (1	2.00	41.1000	82.20
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
4104	CEMENT BASKET 5 1/2"	3.00	290.0000	870.00
4136	TURBOLIZER 5 1/2"	15.00	75.7500	1136.25
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4315	ROTATING SCRATCHERS	20.00	94.5000	1890.00
4310	MISC. EQUIPMENT	1.00	150.0000	150.00

Sublet Performed	Description	Total
9995-130	CEMENT EQUIPMENT DISCOUNT	-677.83
9996-130	CEMENT MATERIAL DISCOUNT	-2118.10

Description	Hours	Unit Price	Total
397 TON MILEAGE DELIVERY	1.00	1604.75	1604.75
399 SINGLE PUMP	1.00	3175.00	3175.00
399 EQUIPMENT MILEAGE (ONE WAY)	75.00	5.25	393.75
399 TON MILEAGE DELIVERY	1.00	1604.75	1604.75

Amount Due 29632.49 if paid after 09/07/2014

Parts:	21180.95	Freight:	.00	Tax:	1505.96	AR	26669.23
Labor:	.00	Misc:	.00	Total:	26669.23		
Sublt:	-2795.93	Supplies:	.00	Change:	.00		

Signed _____

Date _____

BARTLESVILLE, OK
918/338-0808

EL DORADO, KS
316/322-7022

EUREKA, KS
620/583-7664

PONCA CITY, OK
580/762-2303

OAKLEY, KS
785/672-8822

OTTAWA, KS
785/242-4044

THAYER, KS
620/839-5269

GILLETTE, WY
307/686-4914

CUSHING, OK
918/225-2650



CONSOLIDATED
Oil Well Services, LLC

270656

TICKET NUMBER 46708

LOCATION Oakley KS

FOREMAN Dane Pätzloff

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	KS COUNTY
8-17-14	5406	Verna 1-7	7	1	35	Rawlins
CUSTOMER			Bentley North RO CC West North int			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
Murfyn Drlg.			399	Jordan		
CITY			539	Cody		
STATE			397	Mike		
ZIP CODE						

JOB TYPE Production HOLE SIZE 7 7/8 HOLE DEPTH 4467 CASING SIZE & WEIGHT 5 1/2 15.5
 CASING DEPTH 4462 DRILL PIPE 4.5 TUBING _____ OTHER _____
 SLURRY WEIGHT 1100/142 SLURRY VOL 3.00/1.56 WATER gal/sk 21.00/6.97 CEMENT LEFT in CASING 27.12
 DISPLACEMENT 105.69 DISPLACEMENT PSI 300 MIX PSI 100 RATE mix 6 BBLs displace 7 BBLs

REMARKS: Safety meeting. Rig up. Run float equipment. Turbos on 1-5, 7-11, 14, 17, 20, 31, 42. Baskets on 11, 32, 43. Circulate on joint 60. Run casing to bottom. Circulate on bottom. Use pump mudflush. Cement mix + RH. Mix 300 sks of CMD Tailled in by 200 sks of OWC. Release plug. Displace 106 BBLs of water. Final lift psi was 1600 psi. Plug landed at 1700 psi. Wash up and rig down. Ball through at 600 psi. Lost circulation 10 BBLs into displacement. RH 30 sks. MW 20 sks.

✓ Thanks Dane + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5406	1	PUMP CHARGE	3178.00	3178.00
5406	75	MILEAGE	5.25	393.75
5407a	24.4	Ten Mileage Delivery	1.75	3209.50
1104d	350 sks	CMD	27.92	9772.00
1126	200 sks	OWC	23.70	4740.00
1101	1000	Kal Seal	.52	520.00
1107	175	Flo Seal	2.97	519.75
1142a	2 gal	KCL	41.10	82.20
11446	500 gal	Mudflush	1.00	500.00
4104	3	5/8 Baskets	290.00	870.00
4258 4136	15	5/8 Turbolizers	75.75	1136.25
4459 4151	1	5/8 AFU Float shoe	433.75	433.75
4454	1	5/8 Latchdown Plug Assembly	567.00	567.00
4315	20	5 Scratchers	94.50	1890.00
4310	1	5/8 Rotating Head	150.00	150.00
			Sub	27959.20
			10%	2795.92
			Total	25162.38
			SALES TAX	1505.96
			ESTIMATED TOTAL	26668.38

✓ completed

Ravin 3737

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Verna Poore #1-7
 Daily Drilling Report
 Page Two

8/16/14 Depth 4390'. Cut 100'. DT: None. CT: 17½ hrs. Dev.: ½° @ 4390'. Lost 150BBL while TIH after DST #3. Had bridge @ 2000 kelly up & no circ, mix mud & raise LCM to 16#. **LKC G'**: ls, microxtln, foss some secondary calcite, chalky in prt, spty small vugs, overall pr vis por, spty - fr blk stn, live - gilsonitic, no SFO, no odr. **LKC H'**: ls, microxtln, foss, some arenaceous - sandy, pyritic in prt, few specimens w/small stained vugs, trc clingy hvy oil, no FO or odr. **LKC J'**: ls, wht - lt gry, microxtln, foss, chlky in prt, pr vis por, v lt brn scattered stn, trc blk dead stn, no FO, few oil droplets on brk, no odr. **DST #4 4288-4390 (LKC G-J)**: 30-60-60-90. IF: valve shut. ISI: BOB 10mins. FF: surf blw built to BOB right after turning the tool. FSI: BOB 30mins. Rec.: 191'O, 189'GO (10%G, 90%O), 126'MCGO (20%M, 65%O, 15%G), 126'MCGO (20%M, 60%O, 20%G), 315' MCGO (25%M, 60%O, 15%G), 438'WMCO (65%O, 30%M, 5%W). HP: 2176-1991. FP: 228-399, 413/534. SIP: 566-568. BHT: 136°.

8/17/14 RTD 4467'. Cut 77'. DT: 2hrs DW. CT: 16hrs. Dev.: None. HC @ 4:30PM 8/16. When making conn @ 4467' & drum shaft under low clutch broke. Called 4467TD. Circ & Cond hole. Used high clutch bolts to pull pipe. Had to lay down 1st 26jts pipe till string got lighter so could pull a stand @ a time. When getting to drill collars, laid them down so there wouldn't be as much weight when TIH after logs. Pioneer logged 12:30AM – 5:30AM 8/17. LTD: 4466'. After logging TIH w/bit sub & just drill pipe for less string weight. OB @ 8:00AM circ till 9:30AM then will lay down pipe & run csg.

8/18/14 RTD: 4467'. CT: 15¾ hrs. Ran 107jts of 15.5# 5½" prod csg, set @ 4462'. C.O.W.S. cmt w/500sxs (200OWC, 300CMD) PD @ 6:45PM 8/17. 30sxs @ RH, 20sxs MH. Lost circ on disp. RR @ 10:45PM 8/17/14. FINAL REPORT.

Verna Poore #1-7 660 FNL 1980 FEL Sec. 7-1S-35W 3215' KB							Sutton #3-8 1780 FNL 420 FWL Sec. 8-1S-35W 3219' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	3133	+82	-8	3129	+86	-4	3129	+90
B/Anhydrite	3167	+48	-6	3165	+50	-4	3165	+54
Foraker				3734	-519	Flat	3738	-519
Topeka	3954	-739	-8	3947	-732	-1	3950	-731
Oread	4060	-845	-4	4061	-846	-5	4060	-841
Lansing	4170	-955	-3	4170	-955	-3	4171	-952
BKC	4444	-1229	-18	4434	-1219	-8	4430	-1211
RTD	4467						4513	
LTD				4466				