



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1098466
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: _____



1098466

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 24, 2012

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

Re: ACO1
API 15-171-20897-00-00
Schowalter 1-17
NW/4 Sec.17-16S-32W
Scott County, Kansas

Dear Production Department:

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

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

Respectfully,
Leon Rodak

MDCI Schowalter #1-17 1980' FNL 1400' FWL Sec. 17-T16S-R32W 3013' KB							MDCI Agnes #1-7 1650' FNL 330' FEL Sec. 7-T16S-R32W 3021' KB	
Formation	sample tops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum
Anhydrite	2398	+615	-48	2356	+657	-6	2358	+663
B/Anhydrite	2420	+593	-5	2418	+595	-3	2423	+598
Topeka	3728	-715	-11	3730	-717	-13	3725	-704
Heebner	3962	-949	-12	3962	-949	-12	3958	-937
Lansing	4002	-989	-13	4003	-990	-14	3997	-976
Stark	4258	-1245	-3	4273	-1260	-18	4263	-1242
Pawnee	4488	-1475	-17	4486	-1473	-15	4479	-1458
Fort Scott	4529	-1516	-15	4529	-1516	-15	4522	-1501
Mississippi	4670	-1657	-29	4671	-1658	-30	4649	-1628
RTD	4770						4800	
LTD				4772			4800	

OPERATOR

Company: Murfin Drilling Company, Inc.
 Address: 250 N. Water
 Suite 300
 Wichita, KS 67202
 Contact Geologist: Shauna Gunzelman
 Contact Phone Nbr: 316-267-3241
 Well Name: Showalter #1-17
 Location: Sec. 17 - T16S - R32W
 Pool:
 State: Kansas
 API: 15-171-20897-0000
 Field: Wildcat
 Country: USA



Scale 1:240 Imperial

Well Name: Showalter #1-17
 Surface Location: Sec. 17 - T16S - R32W
 Bottom Location:
 API: 15-171-20897-0000
 License Number: 30606
 Spud Date: 7/28/2012 Time: 00:00
 Region: Scott County
 Drilling Completed: 8/2/2012 Time: 21:40
 Surface Coordinates: 1980' FNL & 1400' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 3002.00ft
 K.B. Elevation: 3013.00ft
 Logged Interval: 3610.00ft To: 4770.00ft
 Total Depth: 4770.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 1980' FNL
 E/W Co-ord: 1400' 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, Inc
 Rig #: 21
 Rig Type: mud rotary
 Spud Date: 7/28/2012 Time: 00:00
 TD Date: 8/2/2012 Time: 21:40
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 3013.00ft
 K.B. to Ground: 11.00ft

Ground Elevation: 3002.00ft

NOTES

After evaluation of drill stem tests and electrical logs, it was determined by the operator that the Showalter #1-17 should be plugged and abandoned as a dry hole.

The gamma ray and caliper curves were imported into this mudlog from the electrical log data. Sample tops were generally 2 to 3 ft high to measured log tops. No curves were shifted to provide an exact match, but rather left as recorded in the field.

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
07/30/2012		Geologist Keith Reavis on location @ 2310 hrs, 3598 ft.
07/31/2012	3676	Bit trip at 3610', out with PDC in with tri-cone - on bottom and drilling ahead, Topeka, Queen Hill, Heebner, Toronto
08/01/2012	4081	drilling Lansing, cfs B zone, C-E, show in B warrants test, short trip, ctch and TOH for DST #1, conduct DST #1, complete DST #1, successful test
08/02/2012	4173	TIH w/bit, resume drilling, cfs F zone, cfs H zone, cfs J zone, stop in Stark, Operator calls for test of I - J zones, ctch, TOH, conduct DST #2
08/03/2012	4293	complete DST #2, successful test, out w/tools, in w/bit, resume drilling base KC, Marmaton, Pawnee
08/04/2012	4525	cfs Pawnee, shows in Marmatone warrant condemnation test, short trip, ctch, TOH w/bit in w/tools, conducting DST #3 - misrun, packer failure, TOH and reset packer interval, back in w/tools, conduct and complete DST #4, successful test, TIH w/bit, resume drilling, Ft. Scott, Cherokee
08/05/2012	4620	drilling Cherokee, Johnson Zone, show in Johnson warrants DST, TOH w/bit conduct and complete DST #5, successful test, TIH w/bit, resume drilling Atoka, show warrants test, start OOH w/bit
08/06/2012	4634	conduct and complete DST #6, successful test, TIH w/bit, resume drilling Morrow, Mississippian, rathole to TD for logs
08/07/2012	4770	conduct and complete logging operations, done @ 0700 hrs

Murfin Drilling Company

well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Murfin - Showalter #1-17 1980' FNL & 1400' FWL Sec. 17 - T16S - R32W 3013 KB					Murfin - Agnes #1-7 1650' FNL & 330' FEL Sec. 7 - T16S - R32W 3021 KB				Grand Mesa - Hoeme #1-4 2650' FSL & 1413' FWL Sec. 4 - T16S - R32W 3004 KB			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Topeka	3728	-715	3731	-718	3726	-705	-10	-13	3720	-716	1	-2
Queen Hill	3897	-884	3899	-886	3896	-875	-9	-11	3890	-886	2	0
Heebner	3962	-949	3962	-949	3958	-937	-12	-12	3952	-948	-1	-1
Lansing	4002	-989	4003	-990	3997	-976	-13	-14	3996	-992	3	2
Lansing G	4122	-1109	4124	-1111	4120	-1099	-10	-12	4120	-1116	7	5
Muncie Creek	4168	-1155	4174	-1161	4169	-1148	-7	-13	4164	-1160	5	-1
Stark	4258	-1245	4272	-1259	4262	-1241	-4	-18	4255	-1251	6	-8
Base KC	4341	-1328	4352	-1339	4339	-1318	-10	-21	4338	-1334	6	-5
Marmaton	4407	-1394	4404	-1391	4402	-1381	-13	-10	4404	-1400	6	9
Pawnee	4488	-1475	4487	-1474	4480	-1459	-16	-15	4471	-1467	-8	-7
Cherokee	4554	-1541	4554	-1541	4549	-1528	-13	-13	4541	-1537	-4	-4

Johnson	4596	-1583	4593	-1580	4592	-1571	-12	-9	4584	-1580	-3	0
Atoka	4622	-1609	4619	-1606	4616	-1595	-14	-11	4610	-1606	-3	0
Morrow Sand	4650	-1637	4654	-1641	4643	-1622	-15	-19	4626	-1622	-15	-19
Mississippian	4670	-1657	4671	-1658	4648	-1627	-30	-31	4671	-1667	10	9
Total Depth	4770	-1757	4772	-1759	4800	-1779	22	20	4783	-1779	22	20

Note: purple depths are Morrow Shale Tops

ROCK TYPES

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

ACCESSORIES

MINERAL

- ▲ Chert, dark
- ∩ Glauconite
- ✕ Mineral Crystals
- P Pyrite
- Silty
- △ Chert White

FOSSIL

- ∩ Bioclastic or Fragmental
- F Fossils < 20%
- Oolite
- ⊕ Pellets
- ⊕ Oomoldic

STRINGER

-
-
-
-
-
-

TEXTURE

- C Chalky
- CX Cryptocrystalline
- L Lithogr

OTHER SYMBOLS

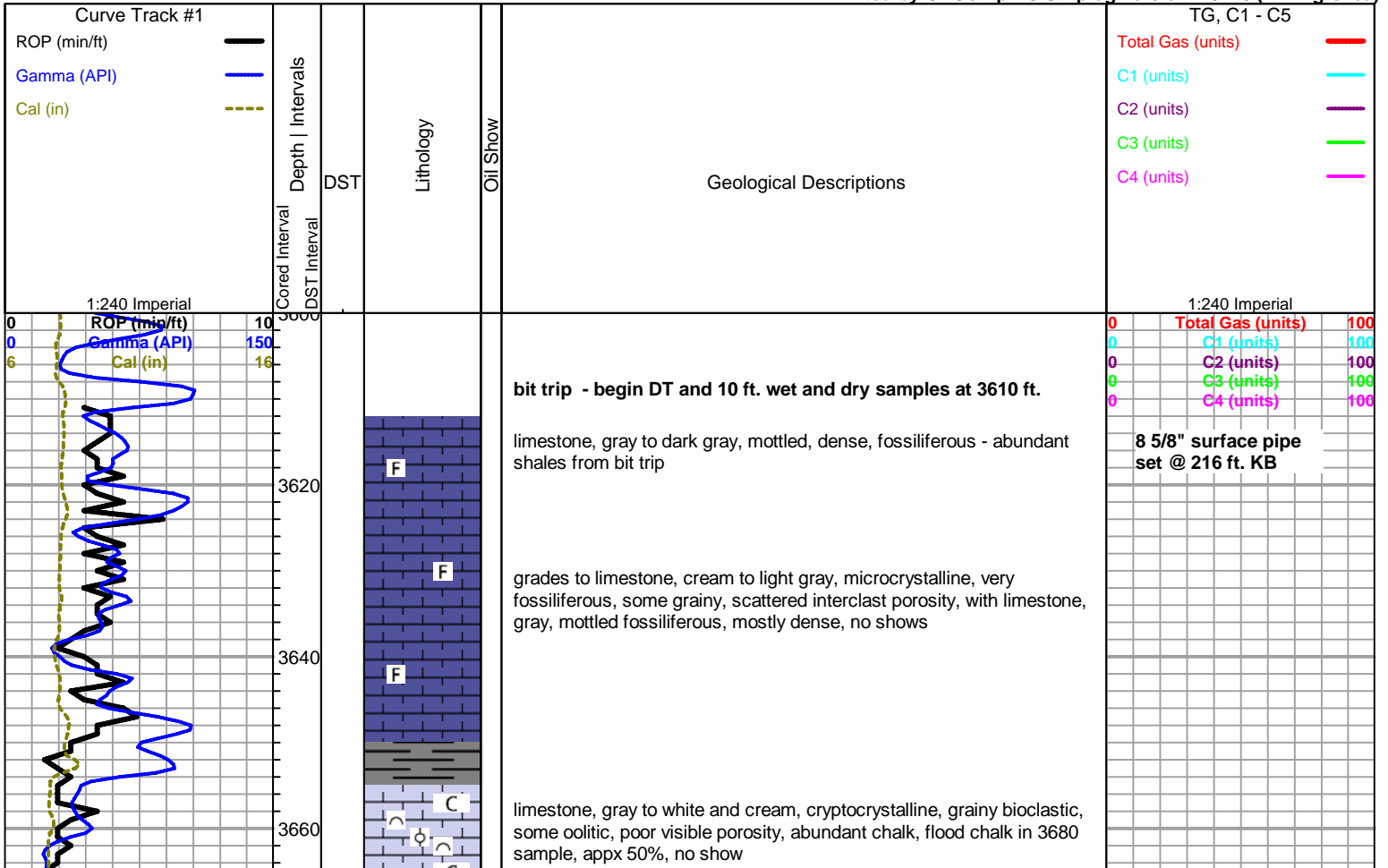
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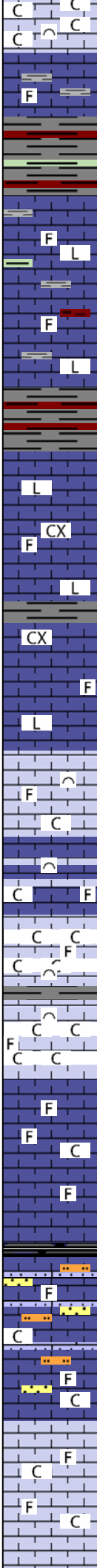
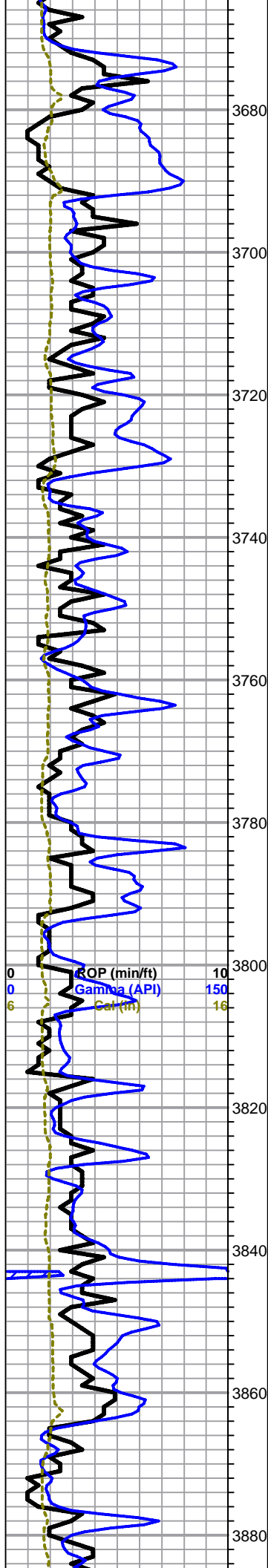
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limestone, gray to dark gray, dense mottled fossiliferous, abundant gray shale, red and some gray/green, soft

poor samples, some tight connections, gray cryptocrystalline limestone, lithographic, dense, with mixed grainy fossiliferous, abundant shale in samples, no show

Topeka 3728 -715

poor samples, abundant red and gray shales, some tan and gray grainy fossiliferous

limestone, tan to cream, cryptocrystalline, lithographic to slightly fossiliferous, with: limestone, gray to brown, small specimens, grainy, fossiliferous, some scattered pin-point porosity, no shows, shale cleaning up

limestone, tan to gray, microcrystalline, bioclastic to sub-sucrosic microcrystalline, with gray mottled fossiliferous, some very weathered, soft, chalky, abundant chalk, no shows

limestone, tan to cream and light gray, microcrystalline, bioclastic to fossiliferous, poor visible porosity, flood chalk in samples, 40-50%, no shows

limestone, light gray to cream, microcrystalline, fossiliferous, sub-sucrosic in part, chalky, poor visible porosity, no shows

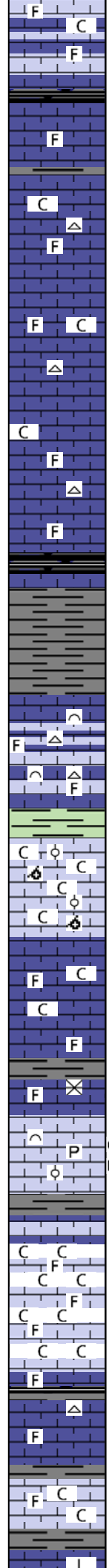
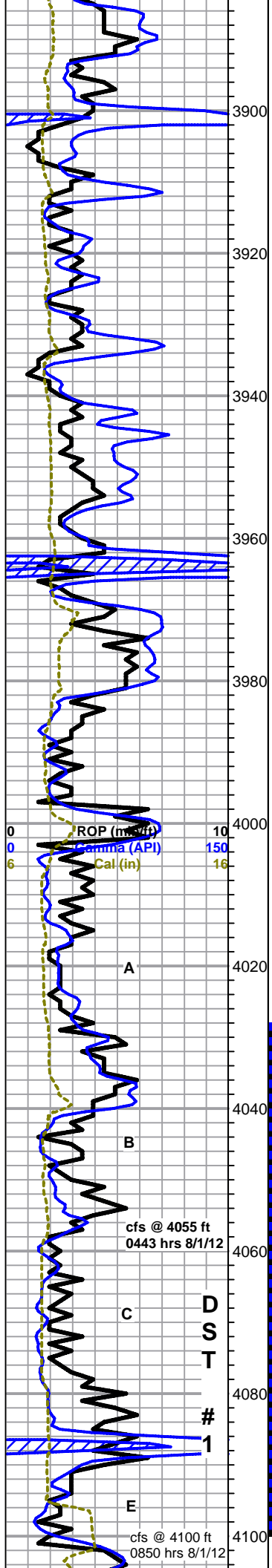
shale, black carbonaceous, some gold mica

limestone, light gray, chalky fossiliferous, some argillaceous, with very fine grain sandstone to siltstone, gray green, poor visible porosity, friable and soft, no shows

limestone, light gray to cream, microcrystalline, fossiliferous, grainy, chalky, some scattered interclast porosity, no shows, moderate chalk in samples

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

Morgan Mud chk @ 3849 ft.
1630 hrs. 7/31/12
Vis. 55 Wt. 9.3
PV 21 YP 14
WL 6.4
Cake 2/32,
pH 10.5
CHL 3000 ppm
Ca 10 ppm
Sol 7.2
LCM 7#
DMC \$2333.00
CMC \$12233.00



as above

Queen Hill 3897 -884

black carbonaceous shale

limestone, cream to light gray, microcrystalline, fossiliferous, chalky, some large clasts, some mottled, poor visible porosity, moderate chalk in samples, some scattered white to cream fossiliferous chert, no shows

as above

Heebner 3962 -949

shale, black carbonaceous

Toronto

limestone, light gray to cream, fossiliferous to bioclastic, some pin-point porosity, chalky, some chert inclusions, with: chert, light gray, fossiliferous, fresh, some chalk, faint fluorescence, no shows

Lansing 4002 -989

limestone, light gray, oolitic to oomoldic, cryptocrystalline slightly fossiliferous, some scattered moldic and interoolite porosity, appx 40% chalk in samples, barren, faint fluorescence

grades to light gray limestone, cryptocrystalline, dense, slightly fossiliferous, decreasing chalk, no shows, even light fluorescence

limestone, gray, microcrystalline, fossiliferous, dense, some secondary calcite, no shows

limestone, light gray, oolitic to bioclastic, chalky in part, pyritic in part, fair pinpoint porosity, even black gilsonitic staining in voids, show free oil on break, no odor, good milky white cut

chalk, 60% plus, with limestone, light gray, dense, fossiliferous, poor visible porosity, no shows

limestone, mixed gray to cream fossiliferous, poor visible porosity, no shows, with: chert, white, sharp, fresh, abundant shale

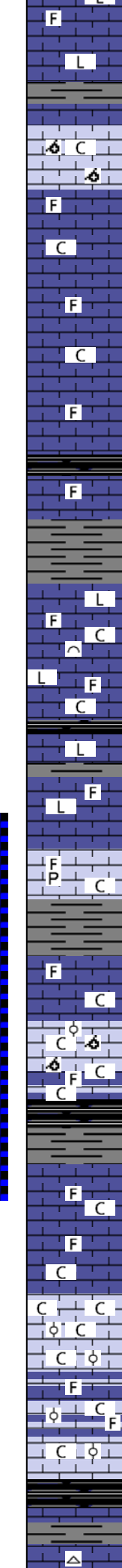
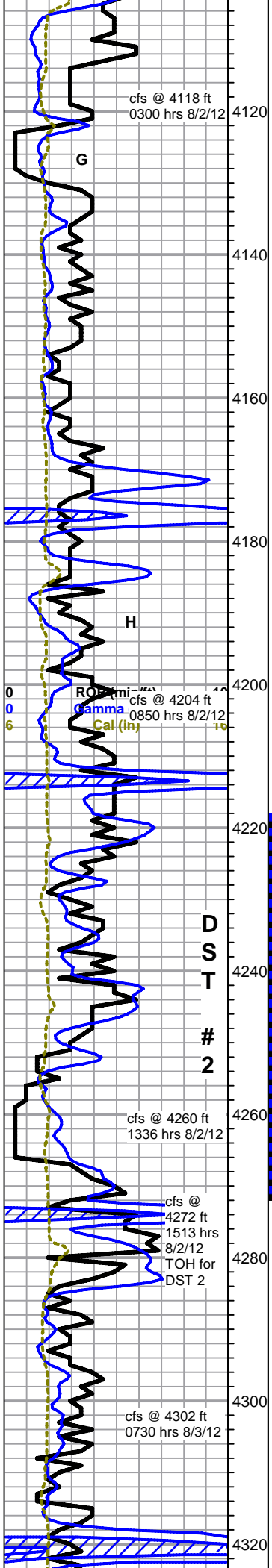
limestone, light gray, microcrystalline, grainy fossiliferous, dense, poor visible porosity, some fractures, no shows or odor, some scattered fair mineral fluorescence, abundant chalk

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

Showalter 1-17 dst 1.jpg

strap 0.51 ft short to board - deviation 1/2 deg

Morgan Mud chk @ 4100 ft. 1640 hrs 8/1/12



limestone, white to light gray, micro-cryptocrystalline, dense, slightly fossiliferous to lithographic, no shows

limestone, cream to light gray, oomoldic, good porosity, barren, no fluorescence, abundant chalk

limestone, cream to light gray and white, microcrystalline, fossiliferous, chalky, some small vugs, no shows, abundant chalk

a.a., with: limestone, blue/gray, cryptocrystalline, fossiliferous, some fractured, some large clasts

Muncie Creek 4168 -1155

limestone, gray to brown, dense fossiliferous

limestone, cream to light gray, gainy fossiliferous to bioclastic, very chalky, with limestone, gray, dnese lithographic, some scattered light gray chert, abundant chalk, no shows

limestone, gray to light brown, micro-cryptocrystalline, lithographic to fossiliferous, dense, with green and black shale, no shows

4240 sample - limestone, cream to white and light gray, fossiliferous, some very chalky and pyritic, scattered vugs with spotty dark brown edge to wormy staining, show stringy free oil, some gas bubbles, faint odor, no fluorescence, excellent milky white cut

limestone, pale green to gray, cryptocrystalline, dense, fossiliferous, abundant chalk, few scattered pieces with show similar to above (from above?)

cfs 30 min, limestone, light gray, oomoldic and oolitic, good oomold porosity, barren, flood chalk - 60 min sample, a.a. with abun. limestone, cream to gray, dense, fossiliferous, chalky in part, some scattered edge staining, no odor, no fluorescence

Stark 4258 -1245

shale, black carbonaceous, soft gray and green shale

limestone, gray to blue gray, mottled, fossiliferous, dense, no shows, abundant chalk and soft gray shale in 30 min sample, heavy gray wash - 60 min sample, a.a still abund oomoldic a.a.

Stark Log Top 4272 -1259

as above with tan to gray dense cherty fossiliferous, no shows

limestone, light gray, oolitic to flattened oolitic, dense to chalky, poor visible porosity, flood chalk, 40%+ in samples, no show or odor, pale fluorescence

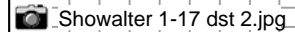
as above, with limestone, gray, dense, fossilifeorous, some secondary calcite crystals, no shows, abundant chalk

shale, black carbonaceous

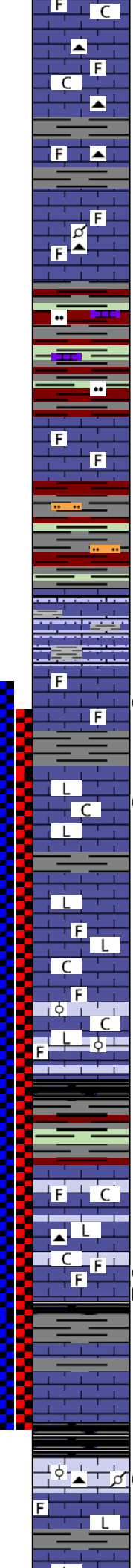
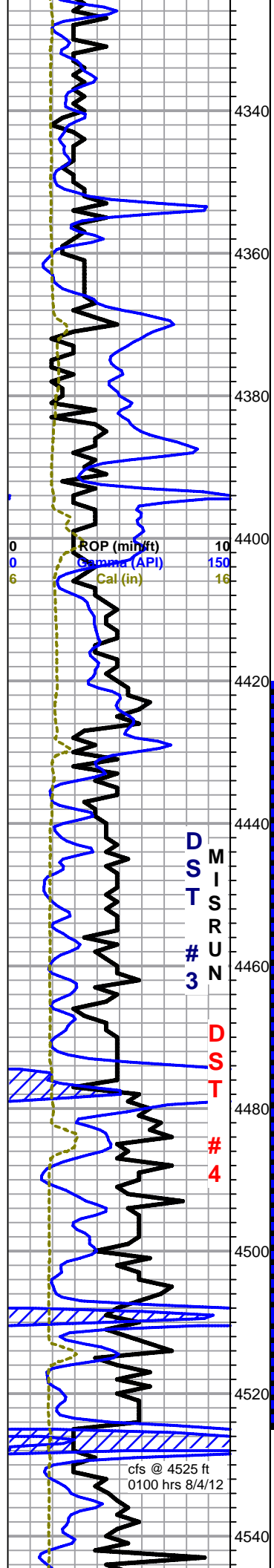
limestone, gray, microcrystalline, fossiliferous, grainy, grading to: limestone, gray to cream, fossiliferous, chalky, with chert, tan to smokey

1640 hrs. 8/1/12
 Vis. 57 Wt. 9.2
 PV 22 YP 16
 WL 6.4
 Cake 2/32,
 pH 10.5
 CHL 2200 ppm
 Ca 10 ppm
 Sol 6.4
 LCM 6#
 DMC \$3487.00
 CMC \$15720.00

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



Morgan Mud chk
 @ 4260 ft.
 1615 hrs. 8/2/12
 Vis. 58 Wt. 9.2
 PV 19 YP 16
 WL 6.4
 Cake 2/32,
 pH 10.5
 CHL 2100 ppm
 Ca 10 ppm
 Sol 6.4
 LCM 6#
 DMC \$884.00
 CMC \$16604.00



gray, spiculitic, no shows

Base KC 4341 -1328

limestone, mixed gray to cream, fossiliferous, some pelletal, trace pyritic, some secondary calcite, with some chert, tan and gray, fossiliferous, no shows

shale, reddish brown, very silty, micaceous, soft gray to green silty shale, red wash, with stingers limestone, gray/green to light gray, dense, fossiliferous, no shows

limestone as above

shale, reddish brown as above, with orange to brick red, lavender, gray and green, red wash in samples, with stringers siltstone, light gray, very dense and well cemented

Marmaton 4407 -1394

limestone, gray to light gray, argillaceous/sandy, with abundant soft gray sandy/silty shales, heavy gray wash in samples

4440 sample - limestone, brown to cream and tan, microcrystalline, dense to chalky, fossiliferous, some pin-point porosity and edge etching, slight staining, show heavy black oil on break, no odor, no fluorescence, fair cut

as above with abundant cream cryptocrystalline limestone, dense, mostly lithographic, some secondary calcite, trace spotty stain and cream very chalky limestone and chalk

limestone, cream to light gray, cryptocrystalline, some secondary calcite, dense, fossiliferous to lithographic, no shows, moderate chalk in samples

as above with cream to gray, some white, oolitic to flattened oolitic, chalky to dense, no shows

black carbonaceous with mixed brick red, gray and green shales

Pawnee 4488 -1475

limestone, gray to white, microcrystalline, fossiliferous, chalky, with limestone, gray, cryptocrystalline, lithographic, secondary calcite, no shows, some fair mineral fluorescence - moderate chalk, trace chert

4520 sample, flood brown and gray mottled fossiliferous limestone, 1 piece with pinpoint porosity, spotty stain, slight show scaley oil on break - with gray to cream and brown, earthy chalky limestone, abundant black carbonaceous shale, no other shows, faint fluor.

limestone, cream to light gray, microcrystalline, fossiliferous, some bryozoan frags, chalky to dense, no shows, abundant gray to tan translucent fossiliferous cherts, sharp, fresh, no shows

limestone, gray to tan, oolitic/pelletal, mostly dense, cherty, some chalky, scattered small inter-oolite vugs and solution vugs, some staining in vugs, trace free oil on break, no odor, no fluorescence, excellent cut, abundant gray oolitic -fossiliferous chert, some pyrite

limestone, cream to gray, micro-cryptocrystalline, lithographic to

Morgan Mud chk @ 4374 ft. 1250 hrs. 8/3/12 Vis. 58 Wt. 9.3 PV 20 YP 15 WL nr Cake 2/32, pH 9.5 CHL 3000 ppm Ca 10 ppm Sol 7.2 LCM 6#

0	Total Gas	DMC \$450.00
0	C1 (units)	CMC \$17054.00
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

Note: packer failure on DST #3

Showalter 1-17 dst 4.jpg

deveiation survey 1/4 deg

Morgan Mud chk @ 4525 ft. 1625 hrs. 8/4/12 Vis. 43 Wt. 9.3 PV 14 YP 18 WL 8.0 Cake 2/32, pH 9.5 CHL 3000 ppm

fossiliferous, mostly dense, some chalky, good mineral fluorescence, no shows or odor

Ca 10 ppm
Sol 7.2
LCM 4#
DMC \$252.00
CMC \$17306.00

Cherokee 4554 -1541

black carbonaceous shale

limestone, tan, pelletal, poor visible porosity, some pyritic, some friable but mostly dense, with limestones, mixed gray to cream fossiliferous to oolitic, dense to very chalky, no shows, faint even fluorescence

black carbonaceous and other mixed shales, mixed fossiliferous to oolitic limestones, dense to chalky, abundant pyrite nodules, no visible shows

Johnson Zone 4596 -1583

limestone, cream to tan, fossiliferous and oolitic, mostly cryptocrystalline, dense to weathered friable chalky, fair pinpoint porosity to wormy solution vugs, fair to spotty wormy saturated staining, fair show free oil, good odor, faint spotty fluorescence, slow streaming cut, some chalk, scattered chert

as above, with influx gray mottled pelletal, chalk/weathered, no show in this facies

Atoka 4622 -1609

4634 sample - light gray to cream, mostly bioclastic, abun. secondary calcite, grainy, chalky, glauconitic in part, some pinpoint porosity, no odor or stain, show clear oil droplets in tray, trace gas bubbles, bright green fluorescence, faint cut - cfs: influx gray limestone, cryptocrystalline, dense, slightly fossiliferous, some scattered vugs and fractures, staining in vugs, bleeding heavy dark free oil, good odor, faint fluorescence, excellent cut

bright green shale, pyritic, with limestone, mixed gray to blue/gray fossiliferous with some tan oolitic, pyritic, no shows, sandstone, quartz, white to pale green, very fine grain, pyritic, fair sorting and rounding, well cemented, barren

Morrow Sand 4658 -1645

sandstone, quartz, fine to very fine grain, angular to sub-round, poorly sorted, pyritic, friable to fairly cemented, saturated brown stain, loaded with asphalt-gilsonite, no show free oil, no odor, no fluorescence, no cut (slight halo)

Mississippian 4670 -1657

sandstone, quartz, white to light gray, very fine grain, well rounded and sorted, lime/chalk loaded, well cemented, to very sandy limestone, with streaks, limestone, tan, cryptocrystalline, slightly fossiliferous, very dense, no shows or fluorescence

as above, tan limestone drops out, with some sandstone as above but green, no shows, abundant orange chert

limestone, cream to gray, microcrystalline, chalky fossiliferous, no shows, some sand stringers as above, abundant chalk

as above

limestone, cream to light gray, flattened oolitic to oolitic, some fossiliferous, chalky, no visible porosity, no shows or fluorescence

(some sheen in 4770 sample, no odor or stain - pipe dope?)

as above

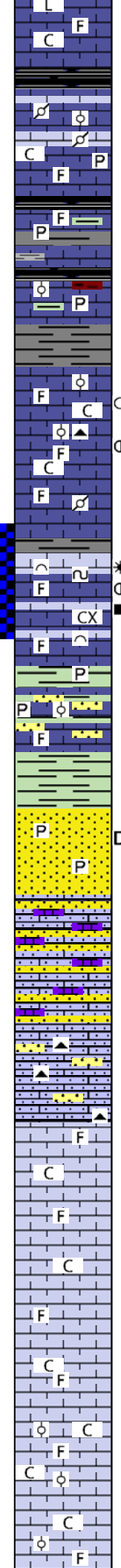
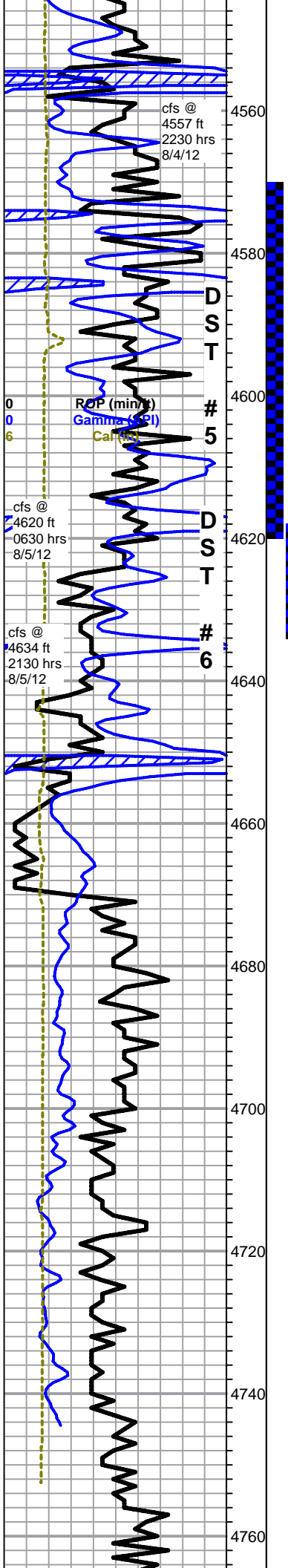
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Showalter 1-17 dst 6.jpg

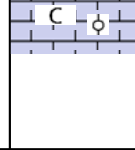
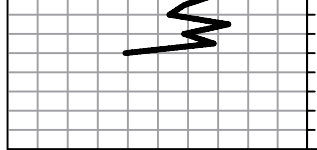
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

Morgan Mud chk
@ 4620 ft.
1530 hrs. 8/5/12
Vis. 56 Wt. 9.2
PV 18 YP 17
WL 7.6
Cake 2/32,
pH 10.0
CHL 3000 ppm
Ca 10 ppm
Sol 6.4
LCM 4#
DMC \$1378.00
CMC \$18684.00

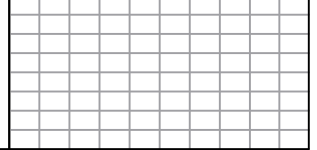
Morgan Mud chk
@ 4698 ft.
1525 hrs. 8/6/12
Vis. 69 Wt. 9.2
PV 22 YP 21
WL 7.2
Cake 2/32,
pH 10.5
CHL 3400 ppm
Ca 10 ppm
Sol 6.4
LCM 6#
DMC \$1304.00
CMC \$19988.00



4560
4580
4600
4620
4640
4660
4680
4700
4720
4740
4760



rotary TD @ 4770 ft. @ 2140 hrs 8/6/12
Pioneer Log TD 4772 ft.
Complete Logging Operation @ 0700 hrs 8/6/12





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

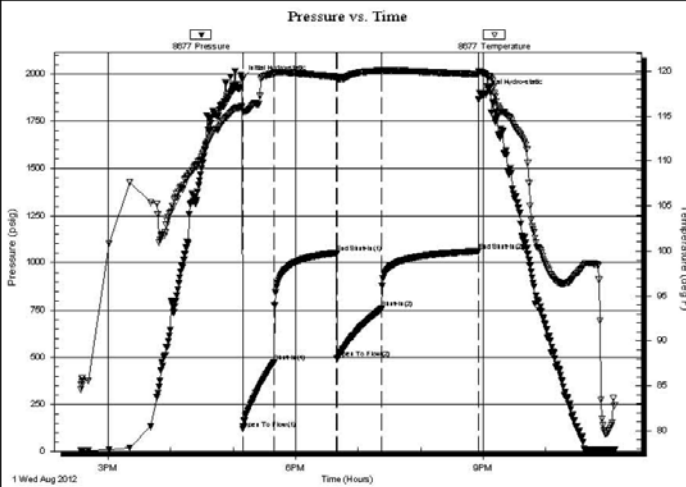
17 16s 32w Scott, KS
Showalter #1-17
Job Ticket: 48970 **DST#: 1**
Test Start: 2012.08.01 @ 14:34:00

GENERAL INFORMATION:

Formation: **LKC B - E**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:09:15
Time Test Ended: 23:06:15
Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 53
Interval: **4028.00 ft (KB) To 4100.00 ft (KB) (TVD)**
Total Depth: 4100.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 3013.00 ft (KB)
3002.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8677 Inside
Press@RunDepth: 758.39 psig @ 4029.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.08.01 End Date: 2012.08.01 Last Calib.: 2012.08.01
Start Time: 14:34:05 End Time: 23:06:15 Time On Btm: 2012.08.01 @ 17:08:45
Time Off Btm: 2012.08.01 @ 20:56:30

TEST COMMENT: IF: BOB @ 2 min.
ISI: No return
FF: BOB @ 4 min.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1974.53	116.03	Initial Hydro-static
1	120.47	115.55	Open To Flow (1)
31	472.28	119.71	Shut-In(1)
91	1050.51	119.39	End Shut-In(1)
91	492.87	119.22	Open To Flow (2)
134	758.39	120.06	Shut-In(2)
227	1062.81	119.68	End Shut-In(2)
228	1903.21	119.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
850.00	smcw 2m 98w (oil spots in tool)	9.51
795.00	mcw 10m 90w	11.15

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

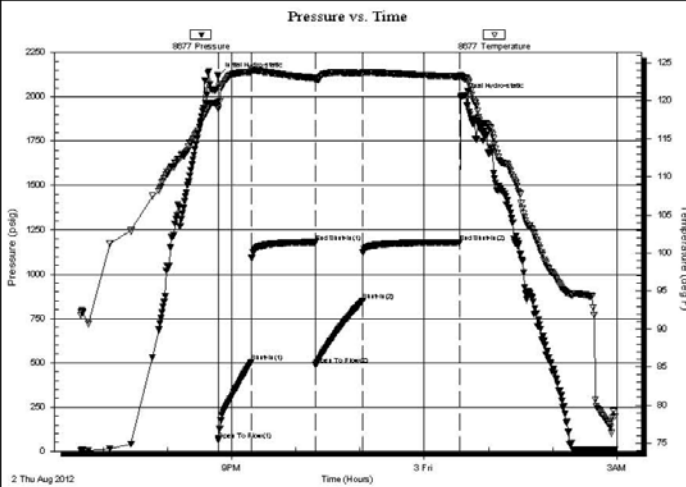
17 16s 32w Scott, KS
Showalter #1-17
 Job Ticket: 48971 **DST#: 2**
 Test Start: 2012.08.02 @ 18:32:00

GENERAL INFORMATION:

Formation: **LKC "I-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:47:30
 Time Test Ended: 02:51:00
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
Interval: 4218.00 ft (KB) To 4272.00 ft (KB) (TVD)
 Total Depth: 4272.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Reference Elevations: 3013.00 ft (KB)
 3002.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8677 Inside
 Press@RunDepth: 848.38 psig @ 4219.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.02 End Date: 2012.08.03 Last Calib.: 2012.08.03
 Start Time: 18:39:05 End Time: 02:57:59 Time On Btm: 2012.08.02 @ 20:47:15
 Time Off Btm: 2012.08.03 @ 00:34:15

TEST COMMENT: IF: BOB @ 3 min.
 IS: No return.
 FF: BOB @ 4 min.
 FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2119.30	119.74	Initial Hydro-static
1	61.79	118.91	Open To Flow (1)
31	503.11	123.79	Shut-In(1)
91	1178.99	123.01	End Shut-In(1)
92	489.37	122.75	Open To Flow (2)
135	848.38	123.63	Shut-In(2)
226	1179.75	123.20	End Shut-In(2)
227	2000.45	123.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	mcw 10m 90w	6.42
1220.00	smcw 2m 98w	17.11

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

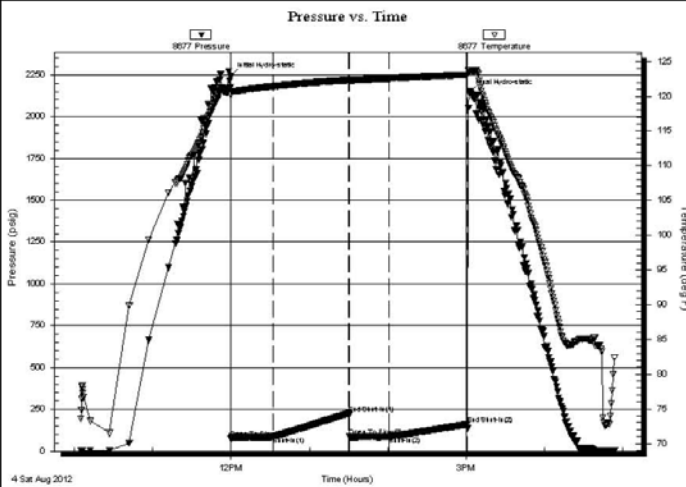
17 16s 32w Scott, KS
Showalter #1-17
 Job Ticket: 48973 **DST#: 4**
 Test Start: 2012.08.04 @ 10:05:00

GENERAL INFORMATION:

Formation: **Marmaton-Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:00:00
 Time Test Ended: 16:53:30
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
Interval: 4424.00 ft (KB) To 4525.00 ft (KB) (TVD)
 Total Depth: 4525.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 Reference Elevations: 3013.00 ft (KB)
 3002.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8677 Inside
 Press@RunDepth: 88.02 psig @ 4425.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.04 End Date: 2012.08.04 Last Calib.: 2012.08.04
 Start Time: 10:05:05 End Time: 16:53:29 Time On Btm: 2012.08.04 @ 11:59:45
 Time Off Btm: 2012.08.04 @ 15:02:00

TEST COMMENT: IF: 5", receded to 1/4". Packer seat failed initially then seated. Mud fell approx. 10' before packer set.
 IS: No return.
 FF: No blow.
 FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2240.38	121.32	Initial Hydro-static
1	75.68	120.17	Open To Flow (1)
33	88.95	121.45	Shut-In(1)
91	226.53	122.34	End Shut-In(1)
91	86.68	122.29	Open To Flow (2)
121	88.02	122.59	Shut-In(2)
181	161.19	123.08	End Shut-In(2)
183	2139.69	123.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	socm 2o 98m	0.15
70.00	mud 100m (oil spots)	0.34

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

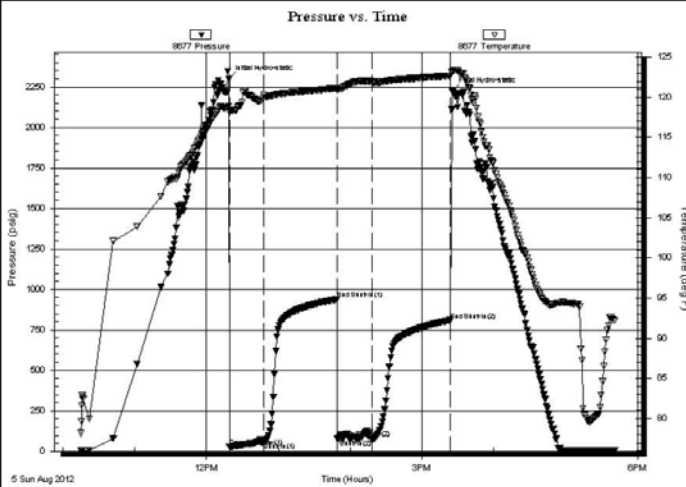
17 16s 32w Scott, KS
Showalter #1-17
 Job Ticket: 48972 **DST#: 5**
 Test Start: 2012.08.05 @ 10:15:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:19:00
 Time Test Ended: 17:41:15
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
Interval: 4570.00 ft (KB) To 4620.00 ft (KB) (TVD)
 Total Depth: 4620.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Reference Elevations: 3013.00 ft (KB)
 3002.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8677 Inside
 Press@RunDepth: 73.07 psig @ 4571.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.05 End Date: 2012.08.05 Last Calib.: 2012.08.05
 Start Time: 10:15:05 End Time: 17:41:14 Time On Btm: 2012.08.05 @ 12:18:45
 Time Off Btm: 2012.08.05 @ 15:25:00

TEST COMMENT: IF: 1" blow.
 IS: No return.
 FF: Surface blow.
 FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2297.31	118.93	Initial Hydro-static
1	26.47	118.15	Open To Flow (1)
29	55.42	120.23	Shut-In(1)
90	939.07	121.13	End Shut-In(1)
91	81.65	120.89	Open To Flow (2)
120	73.07	121.91	Shut-In(2)
185	807.01	122.68	End Shut-In(2)
187	2222.65	123.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	socm 2o 98m	0.37

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

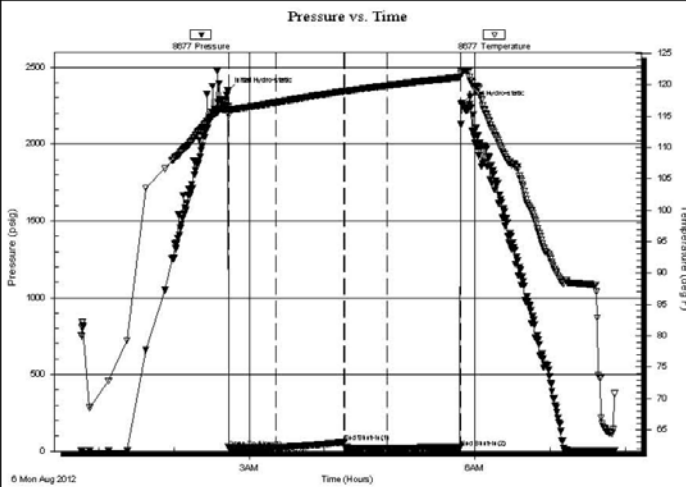
17 16s 32w Scott, KS
Showalter #1-17
Job Ticket: 48975 **DST#: 6**
Test Start: 2012.08.06 @ 00:46:00

GENERAL INFORMATION:

Formation: **Atoka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:43:30
Time Test Ended: 07:51:15
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 53
Interval: 4618.00 ft (KB) To 4634.00 ft (KB) (TVD)
Total Depth: 4634.00 ft (KB) (TVD)
Reference Elevations: 3013.00 ft (KB)
3002.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good
KB to GR/CF: 11.00 ft

Serial #: 8677 Inside
Press@RunDepth: 24.10 psig @ 4619.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.08.06 End Date: 2012.08.06 Last Calib.: 2012.08.06
Start Time: 00:46:05 End Time: 07:51:14 Time On Btm: 2012.08.06 @ 02:43:15
Time Off Btm: 2012.08.06 @ 05:49:00

TEST COMMENT: IF: Surface blow, Died @ 9 min.
ISI: No return.
FF: No blow
FSI: no return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2347.43	116.53	Initial Hydro-static
1	25.23	115.17	Open To Flow (1)
38	25.24	117.17	Shut-In(1)
93	59.55	118.97	End Shut-In(1)
93	25.20	118.95	Open To Flow (2)
127	24.10	119.88	Shut-In(2)
185	25.41	121.21	End Shut-In(2)
186	2259.90	122.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100m (oil puddle on top)	0.01

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Keith Reavis

Showalter #1-17

17 16s 32w Scott, KS

Start Date: 2012.08.01 @ 14:34:00

End Date: 2012.08.01 @ 23:06:15

Job Ticket #: 48970 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.10 @ 11:06:53



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

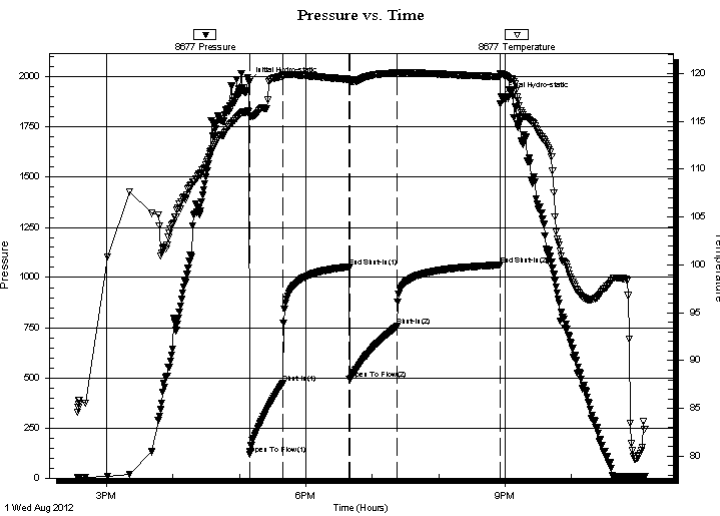
17 16s 32w Scott, KS
Showalter #1-17
 Job Ticket: 48970 **DST#: 1**
 Test Start: 2012.08.01 @ 14:34:00

GENERAL INFORMATION:

Formation: **LKC B - E**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:09:15
 Time Test Ended: 23:06:15
 Interval: **4028.00 ft (KB) To 4100.00 ft (KB) (TVD)**
 Total Depth: 4100.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 3013.00 ft (KB)
 3002.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8677 Inside
 Press @ Run Depth: 758.39 psig @ 4029.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.01 End Date: 2012.08.01 Last Calib.: 2012.08.01
 Start Time: 14:34:05 End Time: 23:06:15 Time On Btm: 2012.08.01 @ 17:08:45
 Time Off Btm: 2012.08.01 @ 20:56:30

TEST COMMENT: IF: BOB @ 2 min.
 IS: No return
 FF: BOB @ 4 min.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1974.53	116.03	Initial Hydro-static
1	120.47	115.55	Open To Flow (1)
31	472.28	119.71	Shut-In(1)
91	1050.51	119.39	End Shut-In(1)
91	492.87	119.22	Open To Flow (2)
134	758.39	120.06	Shut-In(2)
227	1062.81	119.68	End Shut-In(2)
228	1903.21	119.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
850.00	smcw 2m 98w (oil spots in tool)	9.51
795.00	mcw 10m 90w	11.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

17 16s 32w Scott, KS

250 N. Water Suite 300
Wichita, KS 67202

Showalter #1-17

Job Ticket: 48970

DST#: 1

ATTN: Keith Reavis

Test Start: 2012.08.01 @ 14:34:00

Tool Information

Drill Pipe:	Length: 3767.00 ft	Diameter: 3.80 inches	Volume: 52.84 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: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 87000.00 lb
			<u>Total Volume: 54.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4028.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	99.00 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
Change Over Sub	1.00			4002.00	
Shut In Tool	5.00			4007.00	
Hydraulic tool	5.00			4012.00	
Jars	5.00			4017.00	
Safety Joint	2.00			4019.00	
Packer	5.00			4024.00	27.00 Bottom Of Top Packer
Packer	4.00			4028.00	
Stubb	1.00			4029.00	
Recorder	0.00	8677	Inside	4029.00	
Recorder	0.00	8522	Outside	4029.00	
Perforations	3.00			4032.00	
Change Over Sub	1.00			4033.00	
Drill Pipe	63.00			4096.00	
Change Over Sub	1.00			4097.00	
Bullnose	3.00			4100.00	72.00 Bottom Packers & Anchor

Total Tool Length: 99.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

17 16s 32w Scott, KS

250 N. Water Suite 300
Wichita, KS 67202

Showalter #1-17

Job Ticket: 48970

DST#: 1

ATTN: Keith Reavis

Test Start: 2012.08.01 @ 14:34:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

33000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
850.00	smcw 2m 98w (oil spots in tool)	9.509
795.00	mcw 10m 90w	11.152

Total Length: 1645.00 ft Total Volume: 20.661 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .165 @ 89F = 33,000ppm

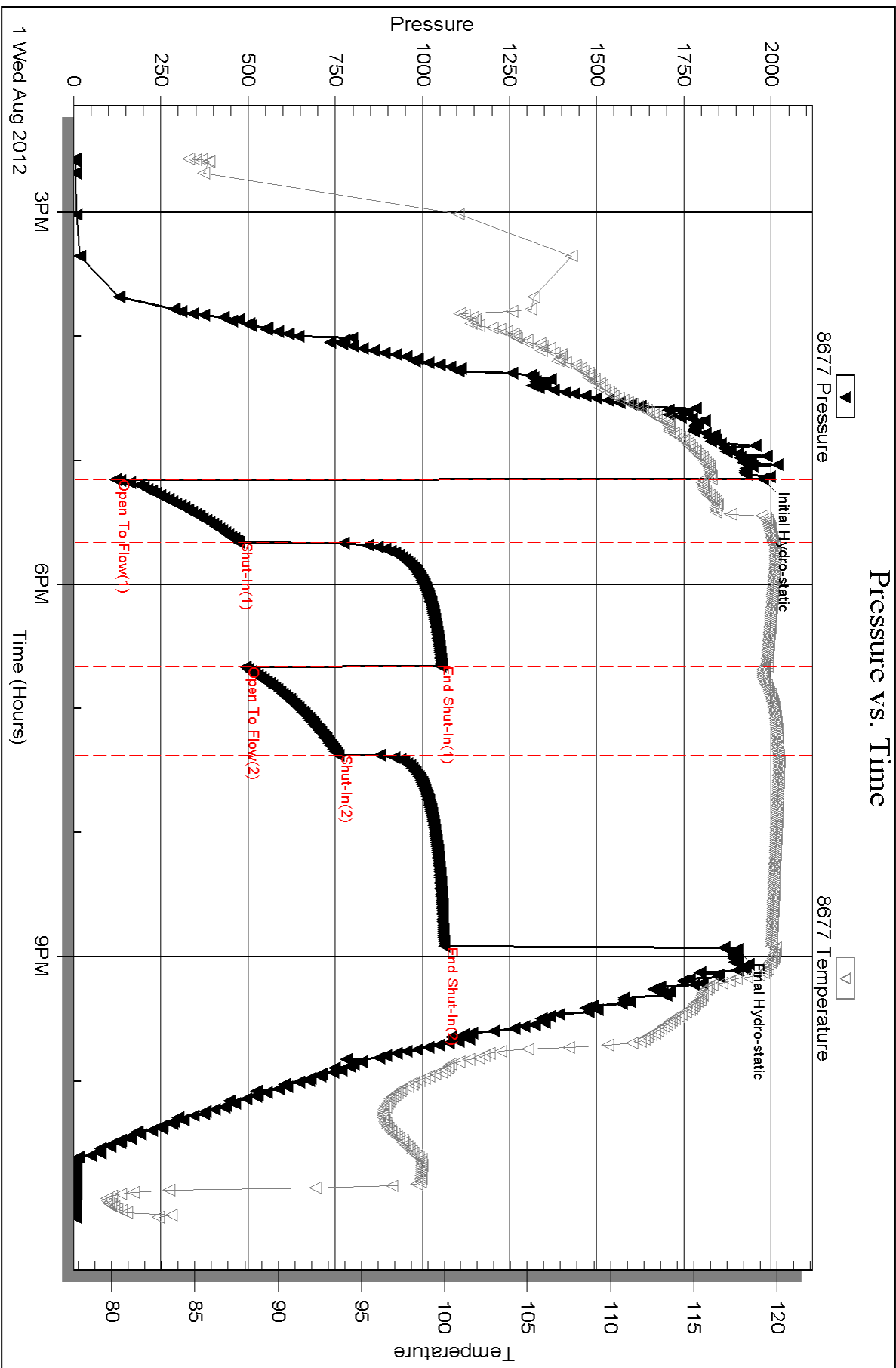
Serial #: 8677

Inside

Murfin Drilling Co Inc

Show after #1-17

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 48970

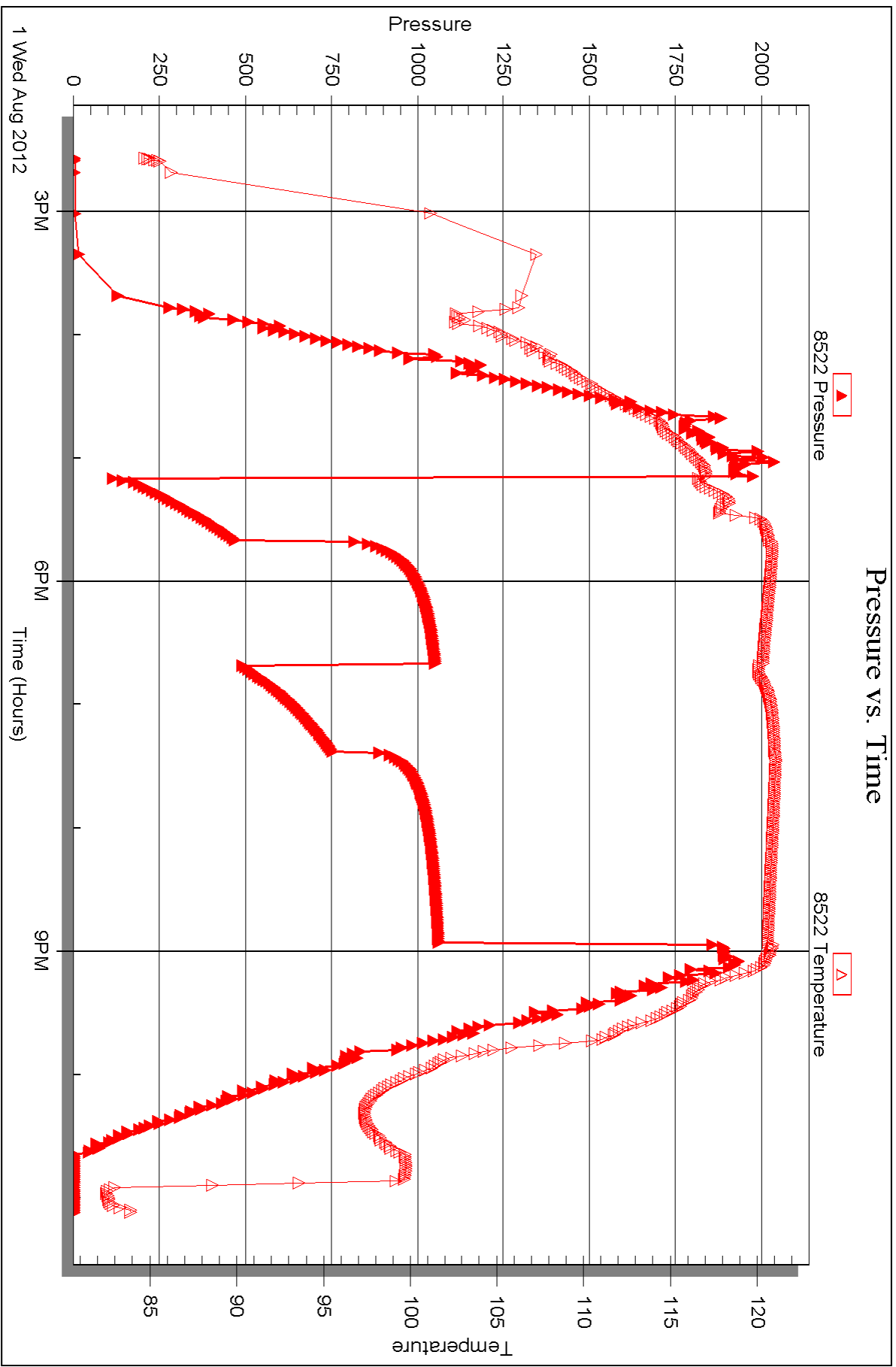
Printed: 2012.08.10 @ 11:06:57

Serial #: 8522

Outside Murfin Drilling Co Inc

Show after #1-17

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Keith Reavis

Showalter #1-17

17 16s 32w Scott, KS

Start Date: 2012.08.02 @ 18:32:00

End Date: 2012.08.03 @ 02:51:00

Job Ticket #: 48971 DST #: 2

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

Printed: 2012.08.10 @ 11:06:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

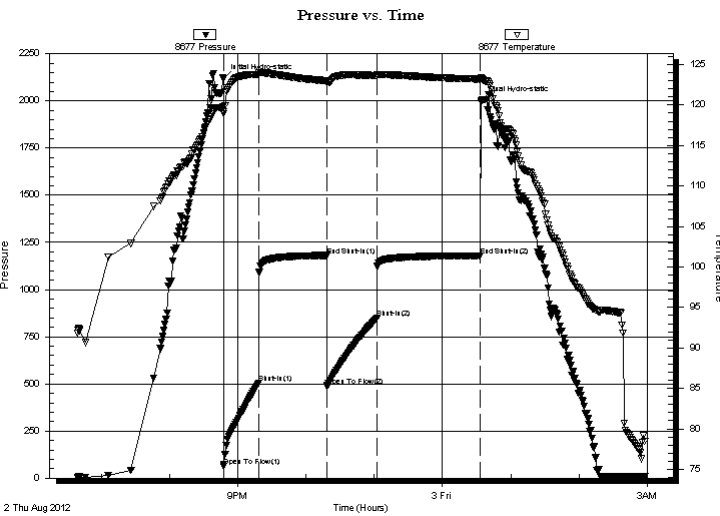
17 16s 32w Scott, KS
Showalter #1-17
 Job Ticket: 48971 **DST#: 2**
 Test Start: 2012.08.02 @ 18:32:00

GENERAL INFORMATION:

Formation: **LKC "I-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:47:30
 Time Test Ended: 02:51:00
 Interval: **4218.00 ft (KB) To 4272.00 ft (KB) (TVD)**
 Total Depth: 4272.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 3013.00 ft (KB)
 3002.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8677 Inside
 Press @ Run Depth: 848.38 psig @ 4219.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.02 End Date: 2012.08.03 Last Calib.: 2012.08.03
 Start Time: 18:39:05 End Time: 02:57:59 Time On Btm: 2012.08.02 @ 20:47:15
 Time Off Btm: 2012.08.03 @ 00:34:15

TEST COMMENT: IF: BOB @ 3 min.
 IS: No return.
 FF: BOB @ 4 min.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2119.30	119.74	Initial Hydro-static
1	61.79	118.91	Open To Flow (1)
31	503.11	123.79	Shut-In(1)
91	1178.99	123.01	End Shut-In(1)
92	489.37	122.75	Open To Flow (2)
135	848.38	123.63	Shut-In(2)
226	1179.75	123.20	End Shut-In(2)
227	2000.45	123.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	mcw 10m 90w	6.42
1220.00	smcw 2m 98w	17.11

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

17 16s 32w Scott, KS
Showalter #1-17
Job Ticket: 48971 **DST#: 2**
Test Start: 2012.08.02 @ 18:32:00

Tool Information

Drill Pipe:	Length: 3956.00 ft	Diameter: 3.80 inches	Volume: 55.49 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: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 92000.00 lb
			<u>Total Volume: 56.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4218.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4192.00	
Shut In Tool	5.00			4197.00	
Hydraulic tool	5.00			4202.00	
Jars	5.00			4207.00	
Safety Joint	2.00			4209.00	
Packer	5.00			4214.00	27.00 Bottom Of Top Packer
Packer	4.00			4218.00	
Stubb	1.00			4219.00	
Recorder	0.00	8677	Inside	4219.00	
Recorder	0.00	8522	Outside	4219.00	
Perforations	17.00			4236.00	
Change Over Sub	1.00			4237.00	
Drill Pipe	31.00			4268.00	
Change Over Sub	1.00			4269.00	
Bullnose	3.00			4272.00	54.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

17 16s 32w Scott, KS

250 N. Water Suite 300
Wichita, KS 67202

Showalter #1-17

Job Ticket: 48971

DST#: 2

ATTN: Keith Reavis

Test Start: 2012.08.02 @ 18:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

27000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
630.00	mcw 10m 90w	6.423
1220.00	smcw 2m 98w	17.113

Total Length: 1850.00 ft Total Volume: 23.536 bbl

Num Fluid Samples: 0

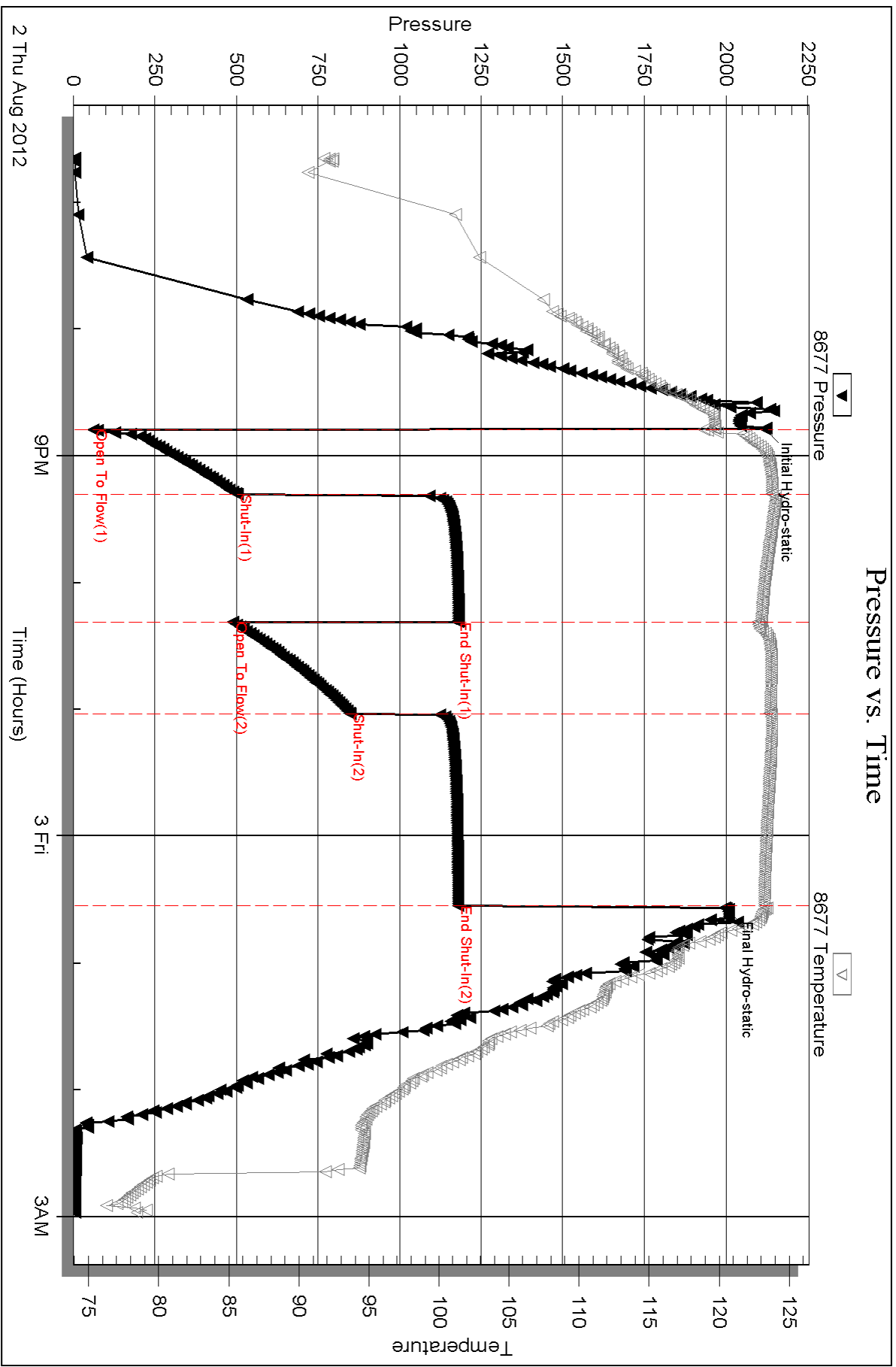
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .270 @ 67F = 27,000ppm

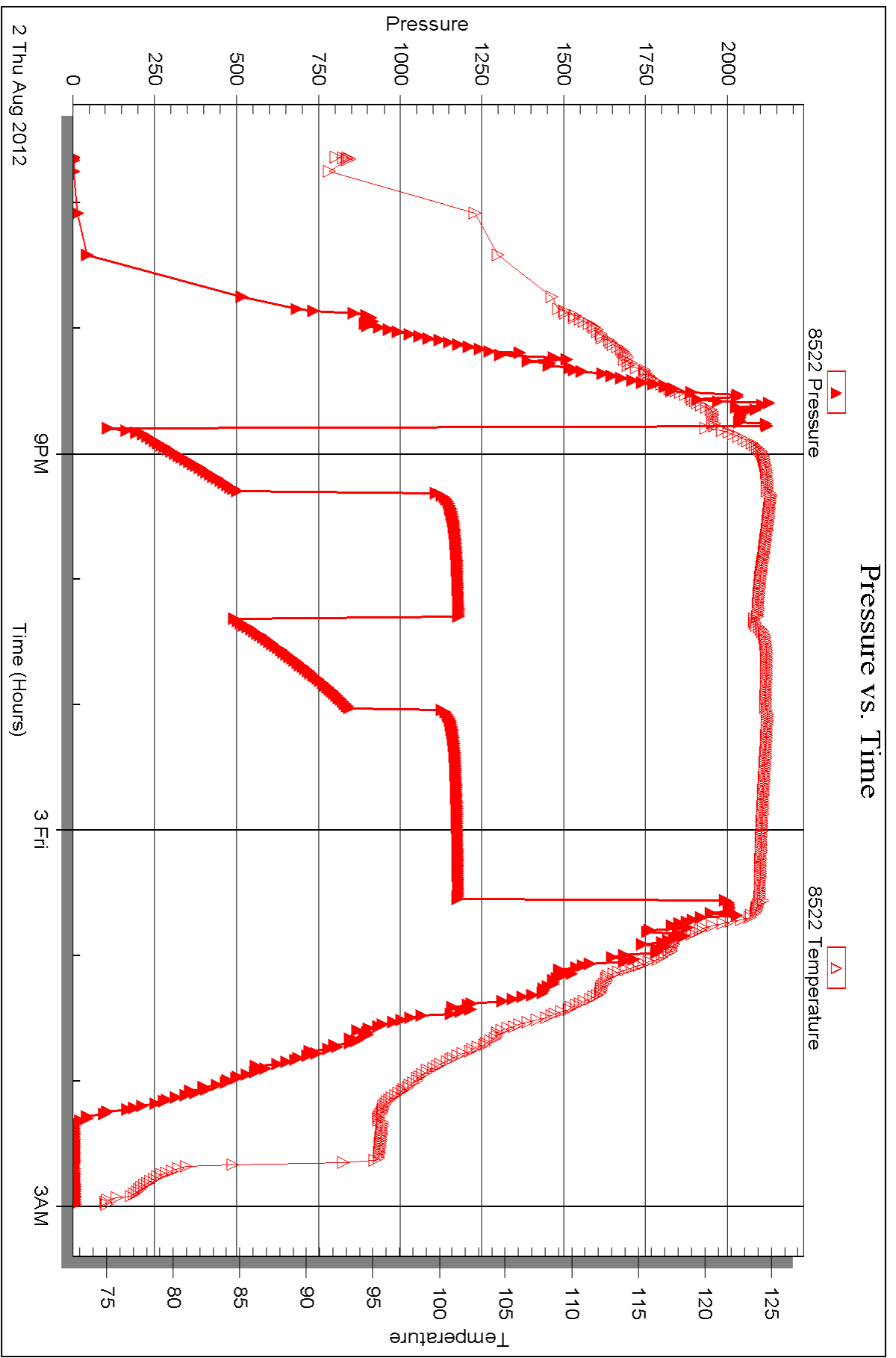


Serial #: 8522

Outside Murfin Drilling Co Inc

Show alter #1-17

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Keith Reavis

Showalter #1-17

17 16s 32w Scott, KS

Start Date: 2012.08.04 @ 05:17:00

End Date: 2012.08.04 @ 09:34:45

Job Ticket #: 48972 DST #: 3

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

Printed: 2012.08.10 @ 11:05:13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

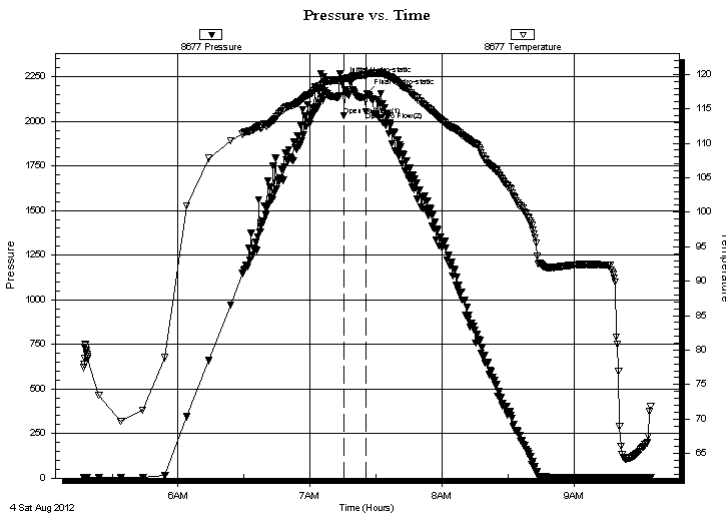
17 16s 32w Scott, KS
Showalter #1-17
Job Ticket: 48972 **DST#: 3**
Test Start: 2012.08.04 @ 05:17:00

GENERAL INFORMATION:

Formation: **Marmaton-Pawnee**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 07:15:15 Tester: Bradley Walter
Time Test Ended: 09:34:45 Unit No: 53
Interval: 4420.00 ft (KB) To 4525.00 ft (KB) (TVD) Reference Elevations: 3013.00 ft (KB)
Total Depth: 4525.00 ft (KB) (TVD) 3002.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8677 Inside
Press @ Run Depth: psig @ 4421.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.08.04 End Date: 2012.08.04 Last Calib.: 2012.08.04
Start Time: 05:17:05 End Time: 09:34:44 Time On Btm: 2012.08.04 @ 07:15:00
Time Off Btm: 2012.08.04 @ 07:25:45

TEST COMMENT: IF: Packer failure, attempt to reseat failed.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2220.06	119.30	Initial Hydro-static
1	2031.00	119.20	Open To Flow (1)
11	2055.29	119.81	Open To Flow (2)
11	2154.93	119.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
330.00	mud 100m	2.22

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

17 16s 32w Scott, KS

250 N. Water Suite 300
Wichita, KS 67202

Showalter #1-17

Job Ticket: 48972

DST#: 3

ATTN: Keith Reavis

Test Start: 2012.08.04 @ 05:17:00

Tool Information

Drill Pipe:	Length: 4146.00 ft	Diameter: 3.80 inches	Volume: 58.16 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: 35000.00 lb
Drill Collar:	Length: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4420.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.00 ft			
Tool Length:	132.00 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
Change Over Sub	1.00			4394.00	
Shut In Tool	5.00			4399.00	
Hydraulic tool	5.00			4404.00	
Jars	5.00			4409.00	
Safety Joint	2.00			4411.00	
Packer	5.00			4416.00	27.00 Bottom Of Top Packer
Packer	4.00			4420.00	
Stubb	1.00			4421.00	
Recorder	0.00	8677	Inside	4421.00	
Recorder	0.00	8522	Outside	4421.00	
Perforations	5.00			4426.00	
Change Over Sub	1.00			4427.00	
Drill Pipe	94.00			4521.00	
Change Over Sub	1.00			4522.00	
Bullnose	3.00			4525.00	105.00 Bottom Packers & Anchor

Total Tool Length: 132.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

17 16s 32w Scott, KS

250 N. Water Suite 300
Wichita, KS 67202

Showalter #1-17

Job Ticket: 48972

DST#: 3

ATTN: Keith Reavis

Test Start: 2012.08.04 @ 05:17:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
330.00	mud 100m	2.215

Total Length: 330.00 ft Total Volume: 2.215 bbl

Num Fluid Samples: 0

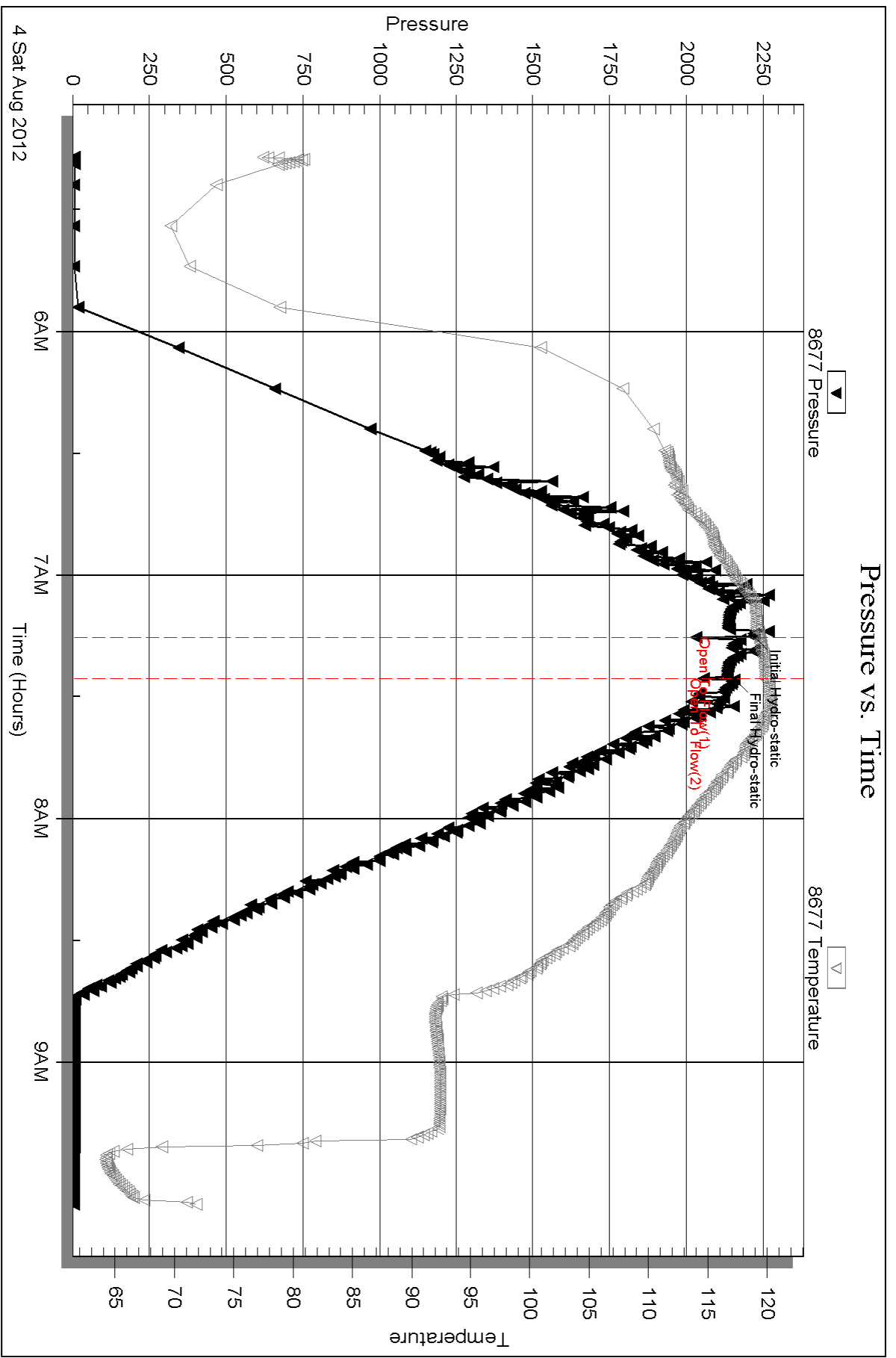
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

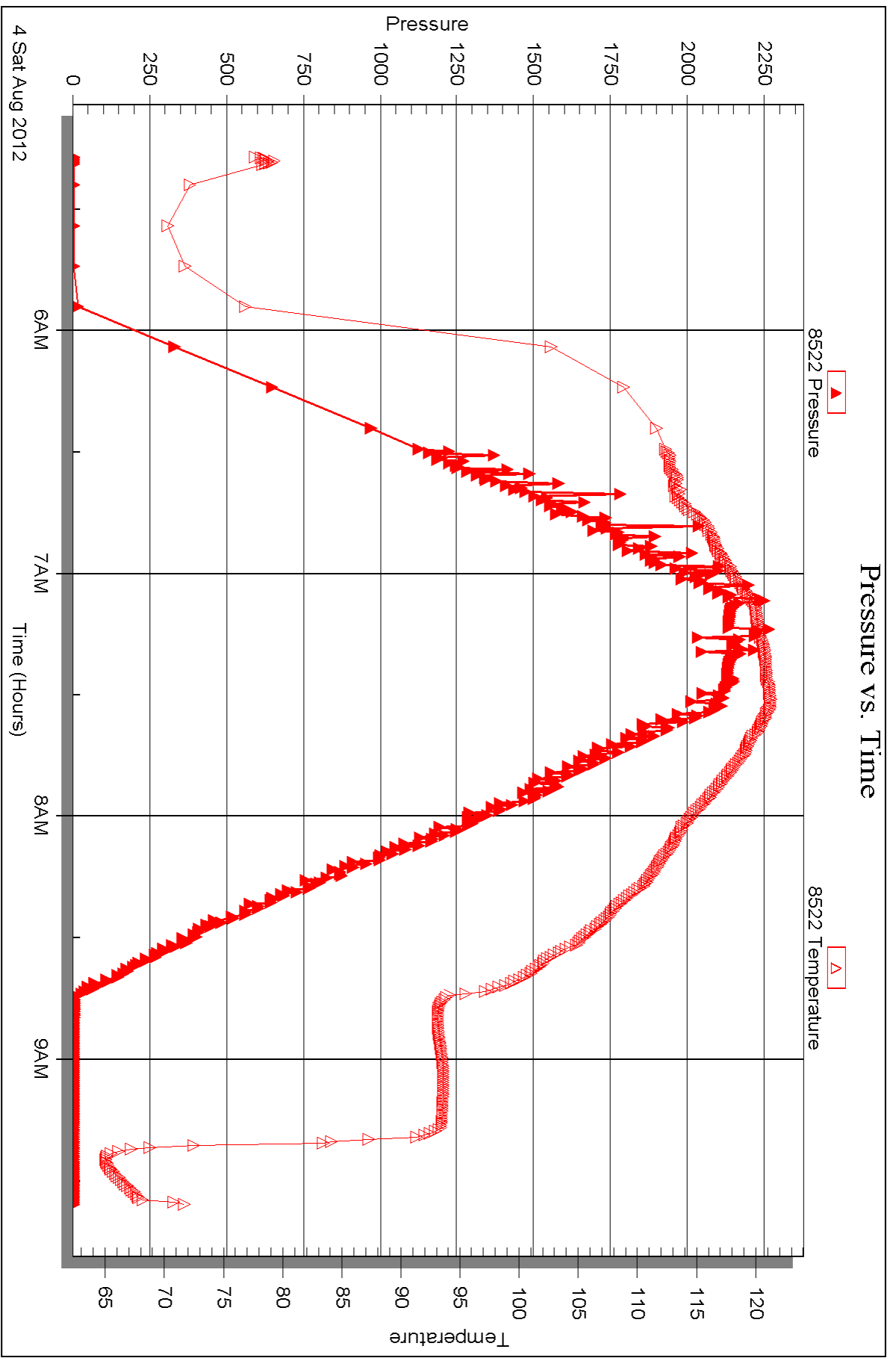


Serial #: 8522

Outside Murfin Drilling Co Inc

Show alter #1-17

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 48972

Printed: 2012.08.10 @ 11:05:17



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Keith Reavis

Showalter #1-17

17 16s 32w Scott, KS

Start Date: 2012.08.04 @ 10:05:00

End Date: 2012.08.04 @ 16:53:30

Job Ticket #: 48973 DST #: 4

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

Printed: 2012.08.10 @ 11:04:15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

17 16s 32w Scott, KS

250 N. Water Suite 300
Wichita, KS 67202

Showalter #1-17

Job Ticket: 48973

DST#: 4

ATTN: Keith Reavis

Test Start: 2012.08.04 @ 10:05:00

Tool Information

Drill Pipe:	Length: 4146.00 ft	Diameter: 3.80 inches	Volume: 58.16 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: 30000.00 lb
Drill Collar:	Length: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	4424.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	101.00 ft			
Tool Length:	128.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4398.00	
Shut In Tool	5.00			4403.00	
Hydraulic tool	5.00			4408.00	
Jars	5.00			4413.00	
Safety Joint	2.00			4415.00	
Packer	5.00			4420.00	27.00 Bottom Of Top Packer
Packer	4.00			4424.00	
Stubb	1.00			4425.00	
Recorder	0.00	8677	Inside	4425.00	
Recorder	0.00	8522	Outside	4425.00	
Perforations	32.00			4457.00	
Change Over Sub	1.00			4458.00	
Drill Pipe	63.00			4521.00	
Change Over Sub	1.00			4522.00	
Bullnose	3.00			4525.00	101.00 Bottom Packers & Anchor

Total Tool Length: 128.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

17 16s 32w Scott, KS

250 N. Water Suite 300
Wichita, KS 67202

Showalter #1-17

Job Ticket: 48973

DST#: 4

ATTN: Keith Reavis

Test Start: 2012.08.04 @ 10:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	socm 2o 98m	0.148
70.00	mud 100m (oil spots)	0.344

Total Length: 100.00 ft Total Volume: 0.492 bbl

Num Fluid Samples: 0

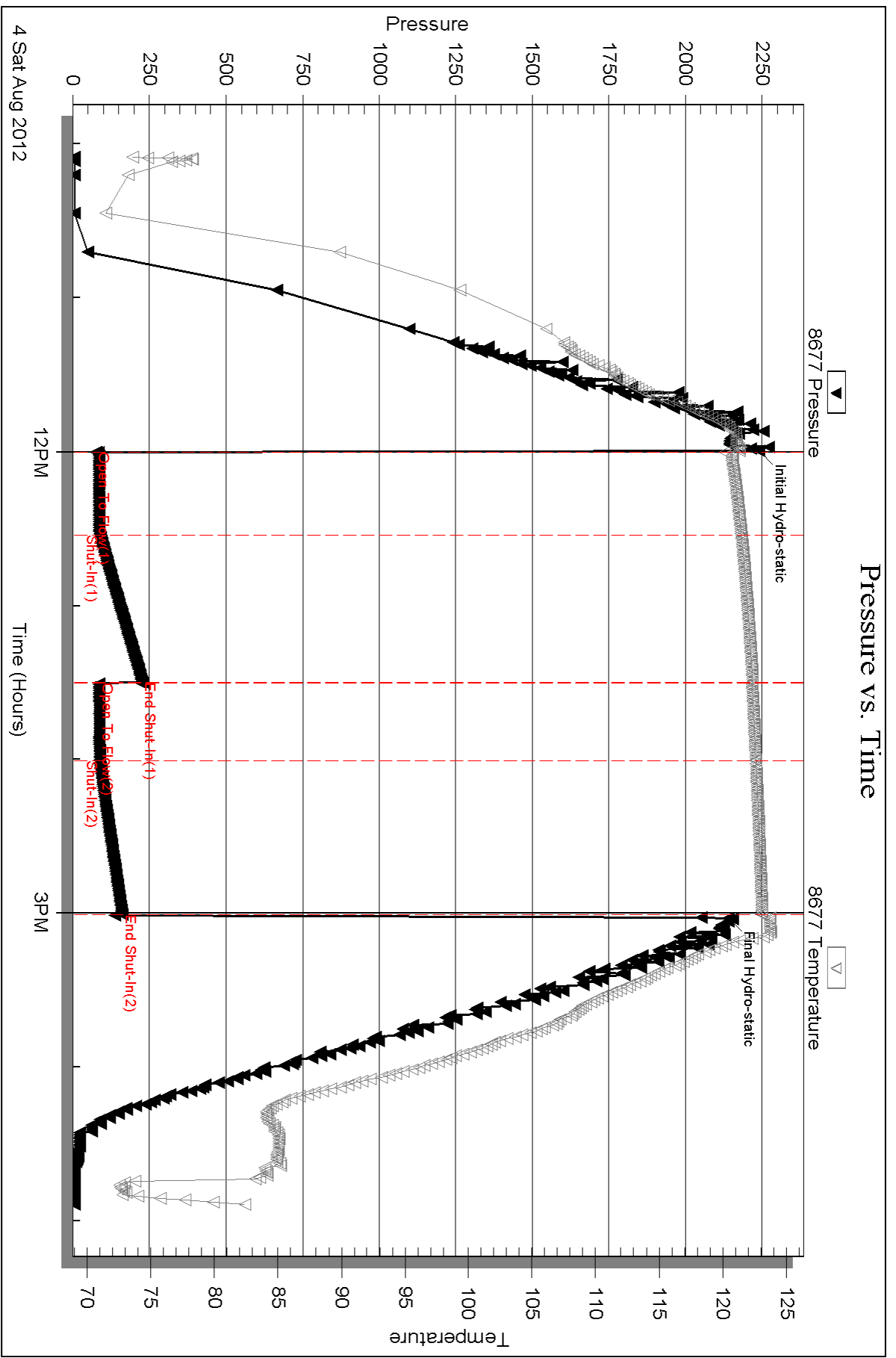
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

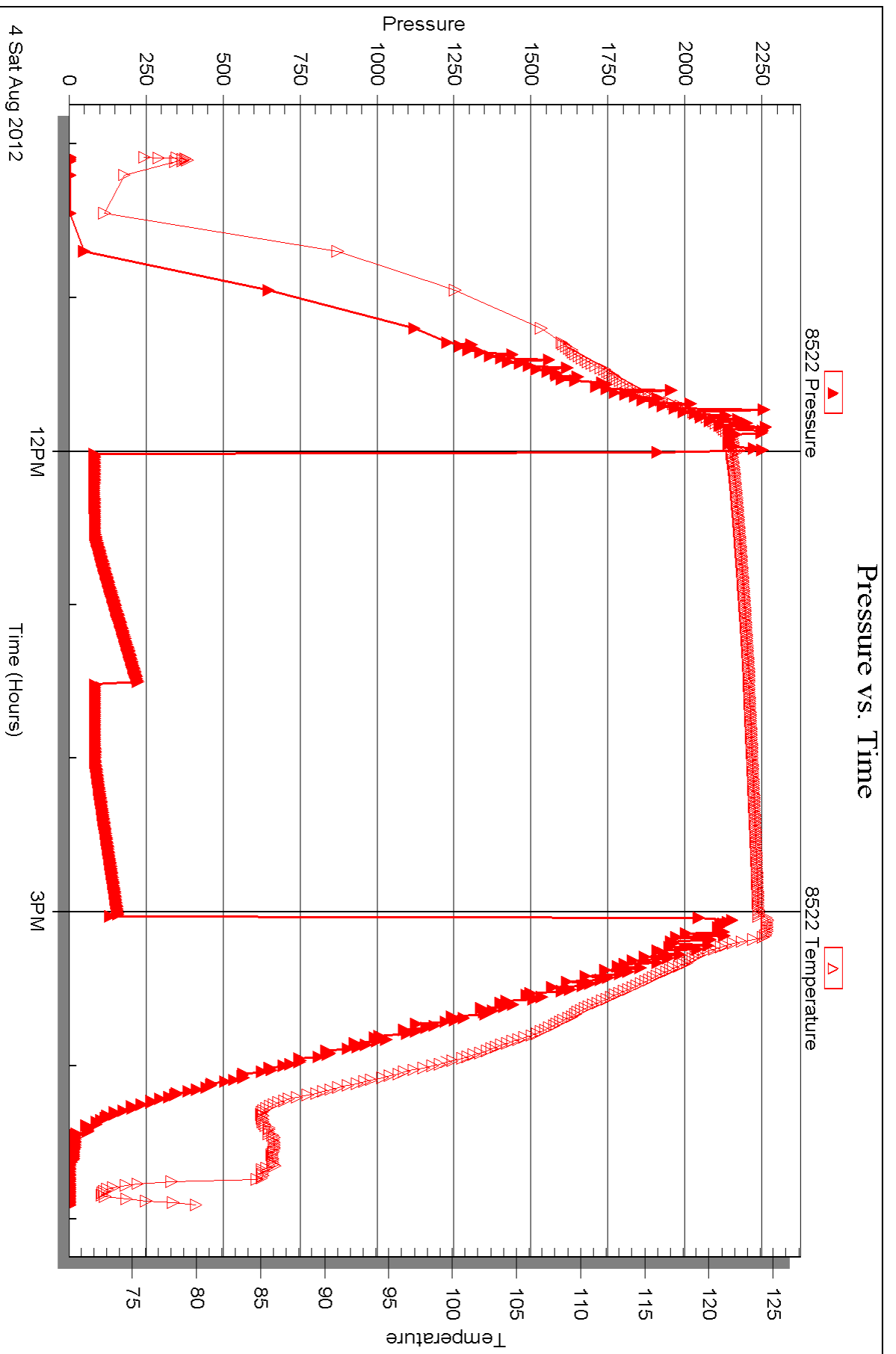


Serial #: 8522

Outside Murfin Drilling Co Inc

Show alter #1-17

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 48973

Printed: 2012.08.10 @ 11:04:19



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Keith Reavis

Showalter #1-17

17 16s 32w Scott, KS

Start Date: 2012.08.05 @ 10:15:00

End Date: 2012.08.05 @ 17:41:15

Job Ticket #: 48974 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.10 @ 11:03:29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

17 16s 32w Scott, KS
Showalter #1-17
Job Ticket: 48974 **DST#: 5**
Test Start: 2012.08.05 @ 10:15:00

Tool Information

Drill Pipe:	Length: 4302.00 ft	Diameter: 3.80 inches	Volume: 60.35 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: 30000.00 lb
Drill Collar:	Length: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4570.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4544.00	
Shut In Tool	5.00			4549.00	
Hydraulic tool	5.00			4554.00	
Jars	5.00			4559.00	
Safety Joint	2.00			4561.00	
Packer	5.00			4566.00	27.00 Bottom Of Top Packer
Packer	4.00			4570.00	
Stubb	1.00			4571.00	
Recorder	0.00	8677	Inside	4571.00	
Recorder	0.00	8522	Outside	4571.00	
Perforations	13.00			4584.00	
Change Over Sub	1.00			4585.00	
Drill Pipe	31.00			4616.00	
Change Over Sub	1.00			4617.00	
Bullnose	3.00			4620.00	50.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

17 16s 32w Scott, KS

250 N. Water Suite 300
Wichita, KS 67202

Showalter #1-17

Job Ticket: 48974

DST#: 5

ATTN: Keith Reavis

Test Start: 2012.08.05 @ 10:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	socm 2o 98m	0.369

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:

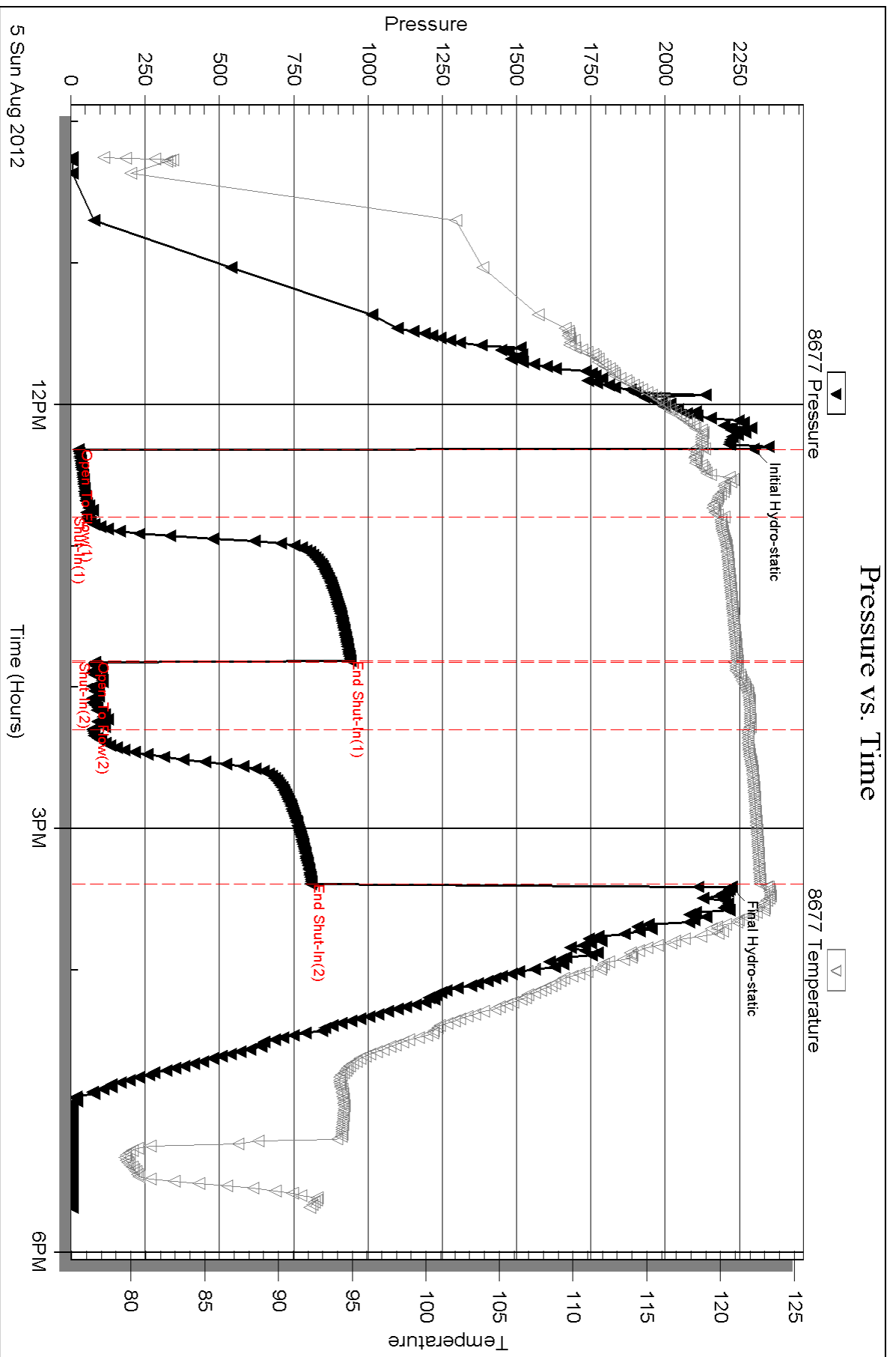
Serial #: 8677

Inside

Murfin Drilling Co Inc

Show after #1-17

DST Test Number: 5



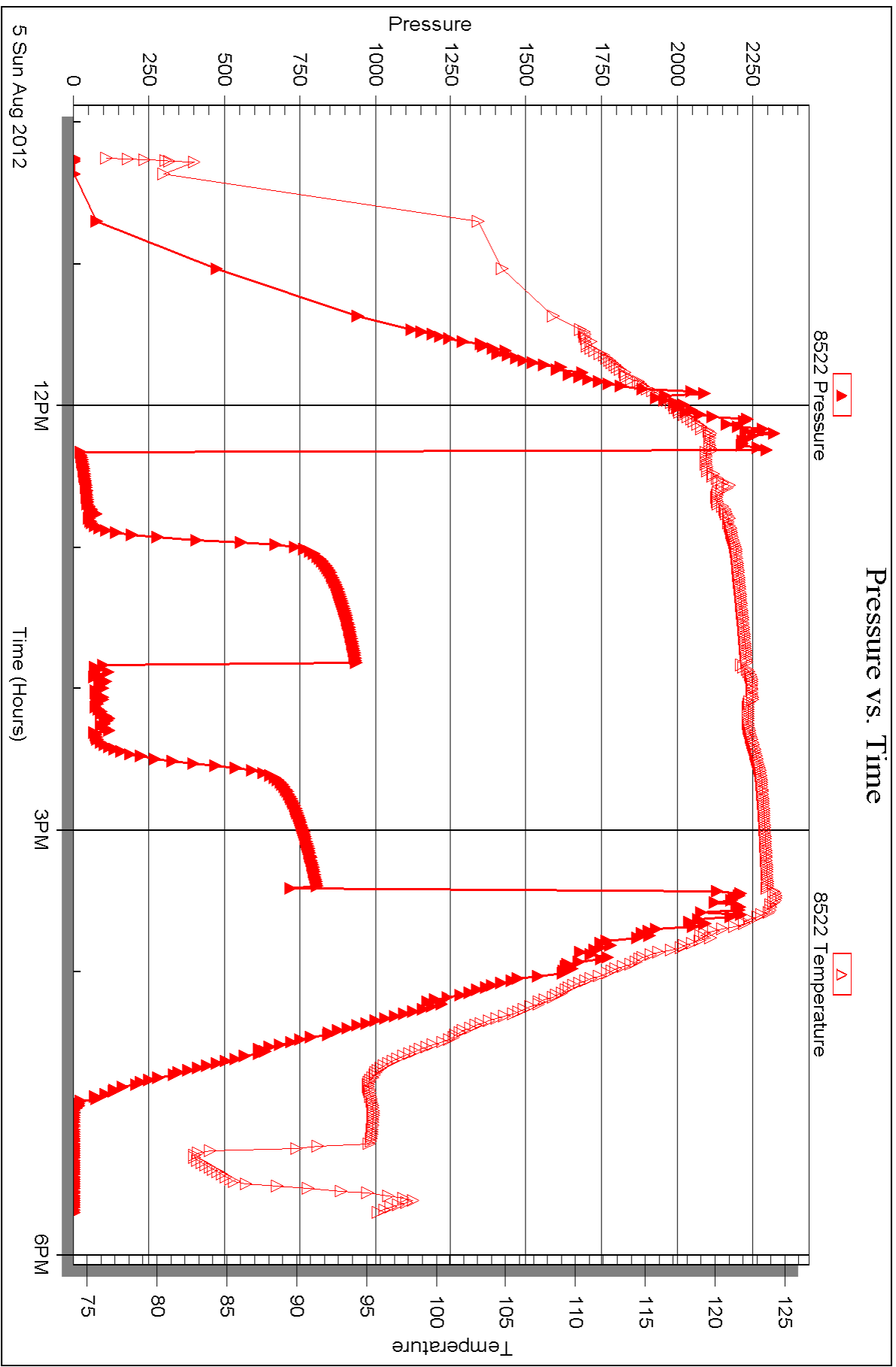
Serial #: 8522

Outside

Murfin Drilling Co Inc

Show alter #1-17

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Keith Reavis

Showalter #1-17

17 16s 32w Scott, KS

Start Date: 2012.08.06 @ 00:46:00

End Date: 2012.08.06 @ 07:51:15

Job Ticket #: 48975 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.10 @ 11:02:20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

17 16s 32w Scott, KS
Showalter #1-17
 Job Ticket: 48975 **DST#: 6**
 Test Start: 2012.08.06 @ 00:46:00

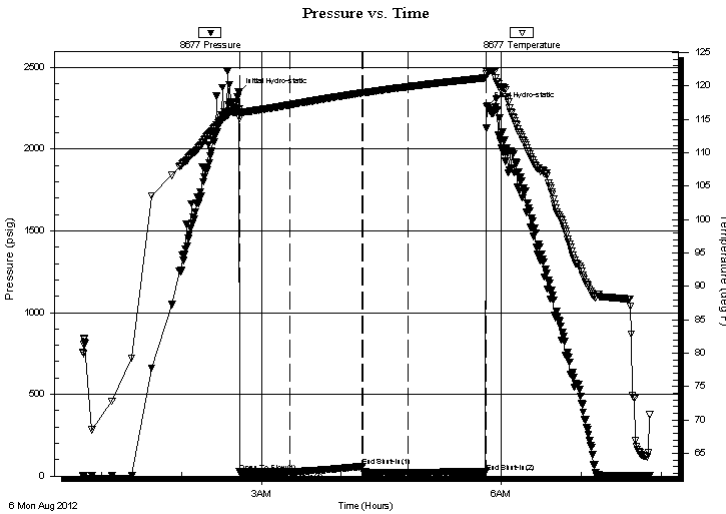
GENERAL INFORMATION:

Formation: **Atoka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:43:30
 Time Test Ended: 07:51:15
Interval: 4618.00 ft (KB) To 4634.00 ft (KB) (TVD)
 Total Depth: 4634.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 3013.00 ft (KB)
 3002.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8677 Inside
 Press @ Run Depth: 24.10 psig @ 4619.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.06 End Date: 2012.08.06 Last Calib.: 2012.08.06
 Start Time: 00:46:05 End Time: 07:51:14 Time On Btm: 2012.08.06 @ 02:43:15
 Time Off Btm: 2012.08.06 @ 05:49:00

TEST COMMENT: IF: Surface blow , Died @ 9 min.
 IS: No return.
 FF: No blow
 FS: no return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2347.43	116.53	Initial Hydro-static
1	25.23	115.17	Open To Flow (1)
38	25.24	117.17	Shut-In(1)
93	59.55	118.97	End Shut-In(1)
93	25.20	118.95	Open To Flow (2)
127	24.10	119.88	Shut-In(2)
185	25.41	121.21	End Shut-In(2)
186	2259.90	122.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100m (oil puddle on top)	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

17 16s 32w Scott, KS
Showalter #1-17
Job Ticket: 48975 **DST#: 6**
Test Start: 2012.08.06 @ 00:46:00

Tool Information

Drill Pipe:	Length: 4334.00 ft	Diameter: 3.80 inches	Volume: 60.79 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4618.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4592.00	
Shut In Tool	5.00			4597.00	
Hydraulic tool	5.00			4602.00	
Jars	5.00			4607.00	
Safety Joint	2.00			4609.00	
Packer	5.00			4614.00	27.00 Bottom Of Top Packer
Packer	4.00			4618.00	
Stubb	1.00			4619.00	
Recorder	0.00	8677	Inside	4619.00	
Recorder	0.00	8522	Outside	4619.00	
Perforations	12.00			4631.00	
Bullnose	3.00			4634.00	16.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

17 16s 32w Scott, KS

250 N. Water Suite 300
Wichita, KS 67202

Showalter #1-17

Job Ticket: 48975

DST#: 6

ATTN: Keith Reavis

Test Start: 2012.08.06 @ 00:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100m (oil puddle on top)	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

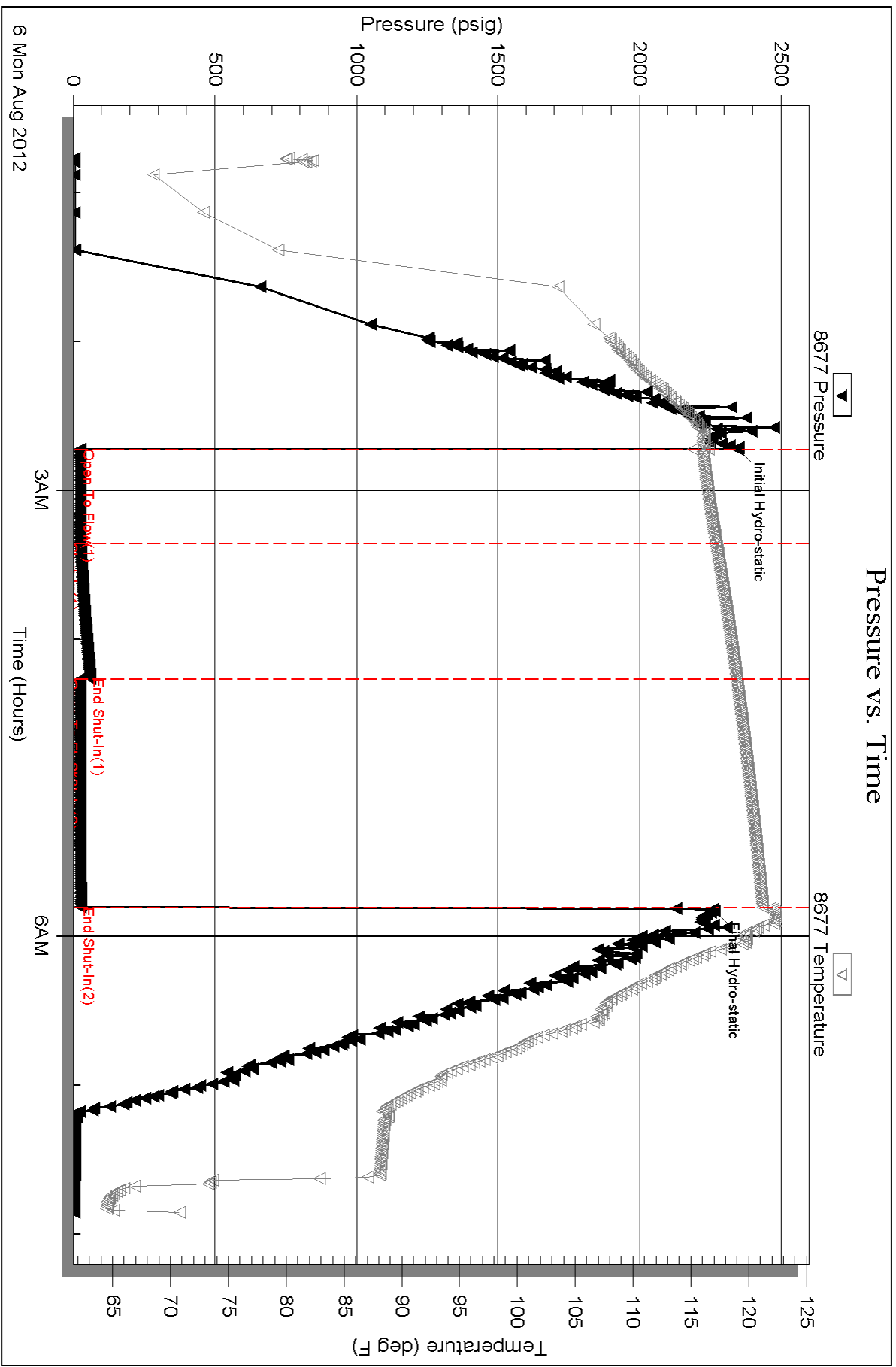
Serial #: 8677

Inside

Murfin Drilling Co Inc

Show after #1-17

DST Test Number: 6

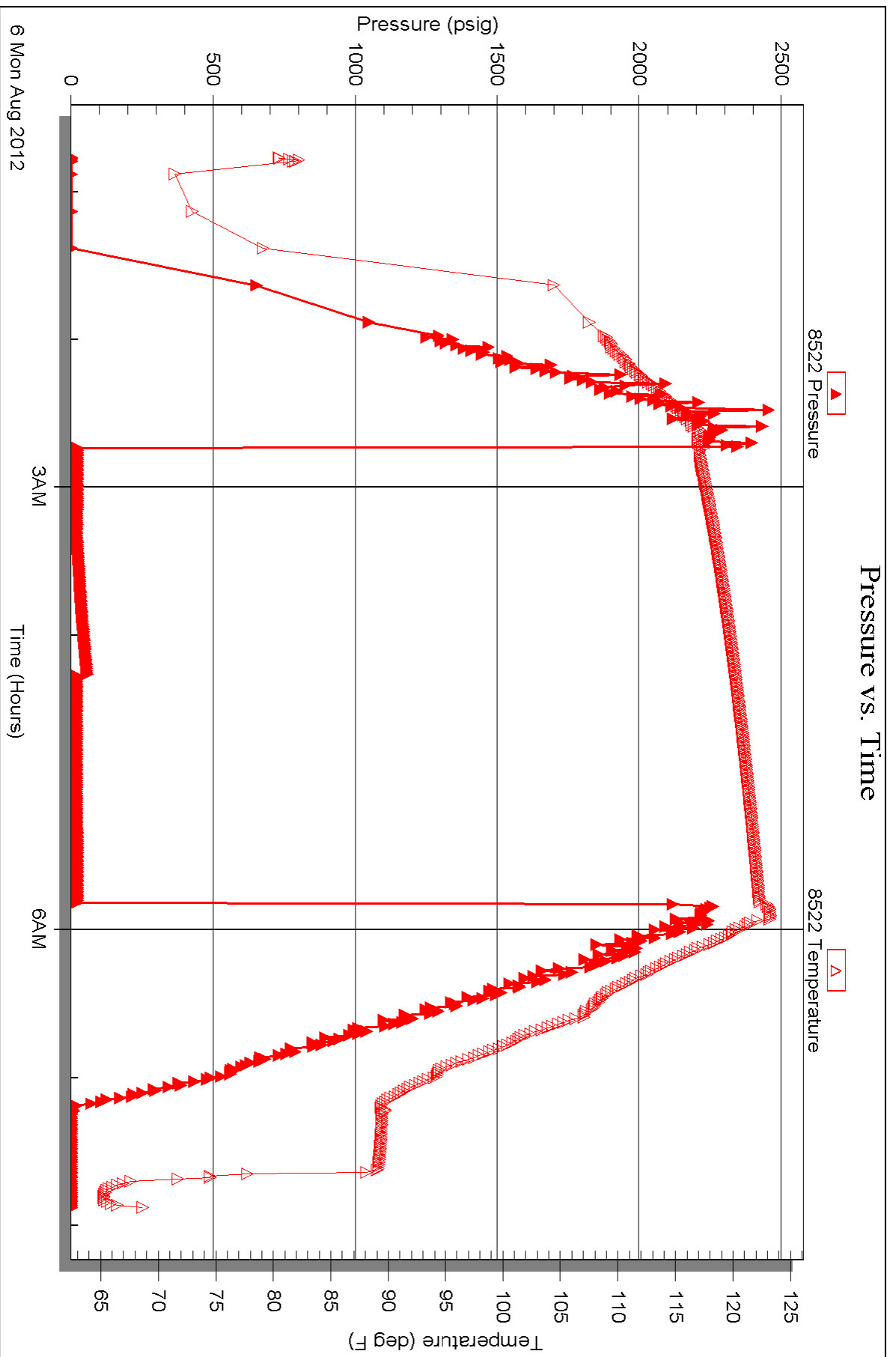


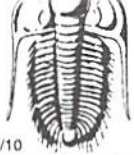
Serial #: 8522

Outside Murfin Drilling Co Inc

Show after #1-17

DST Test Number: 6





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48970

Well Name & No. Showalter #1-17 Test No. 1 Date 8/01/12
 Company Muffin Drilling Co. Inc Elevation 3013 KB 3002 GL
 Address 250 N Water Suite 300 Wichita, Ks 67202
 Co. Rep / Geo. Keith Reavis Rig Muffin #21
 Location: Sec. 17 Twp. 16S Rge. 32 W Co. Scott State Ks

Interval Tested 4028 - 4100 Zone Tested LKC B-E
 Anchor Length 72' Drill Pipe Run 3767 Mud Wt. 9.2
 Top Packer Depth 4023 Drill Collars Run 265 Vis 5.7
 Bottom Packer Depth 4028 Wt. Pipe Run Ø WL 6.4
 Total Depth 4100 Chlorides 2,200 ppm System LCM 6#
 Blow Description IF: BOB @ 2 min.
ISI: No return.
FF: BOB @ 4 min
FSI: No return.

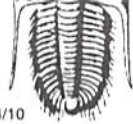
Rec	Feet of	%gas	%oil	%water	%mud
<u>795</u>	<u>mcw 10m 90w</u>			<u>90</u>	<u>10</u>
<u>850</u>	<u>SMCW</u>			<u>98</u>	<u>2</u>
	<u>Oil Spots in tool</u>				

Rec Total 1645 BHT 120 Gravity — API RW 16S @ 89 °F Chlorides 53,000 ppm

(A) Initial Hydrostatic <u>1975</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1230</u>
(B) First Initial Flow <u>120</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1434</u>
(C) First Final Flow <u>472</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1709</u>
(D) Initial Shut-In <u>1051</u>	<input checked="" type="checkbox"/> Circ Sub <u>NF</u>	T-Pulled <u>2054</u>
(E) Second Initial Flow <u>493</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2306</u>
(F) Second Final Flow <u>758</u>	<input checked="" type="checkbox"/> Mileage <u>32 R/T</u> 49.60	Comments
(G) Final Shut-In <u>1063</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1903</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1624.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1624.60</u>	

Approved By Keith Reavis 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.



4/10

Well Name & No. Showalter #1-17 Test No. 2 Date 8/02/12
 Company Murfin Drilling Co. Inc Elevation 3013 KB 3002 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Keith Reavis Rig Murfin #21
 Location: Sec. 17 Twp. 16s Rge. 32w Co. Scott State KS

Interval Tested 4218 4272 Zone Tested LKC I, J
 Anchor Length 54 Drill Pipe Run 3950 Mud Wt. 9.2
 Top Packer Depth 4213 Drill Collars Run 265 Vis 54
 Bottom Packer Depth 4218 Wt. Pipe Run 0 WL 6.4
 Total Depth 4272 Chlorides 2100 ppm System LCM S#

Blow Description IF: BOB @ 3 min.
ISF: No return.
FF: BOB @ 4 min.
FSJ: No return.

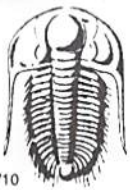
Rec	Feet of	%gas	%oil	%water	%mud
<u>630</u>	<u>mcw</u>			<u>90</u>	<u>10</u>
<u>1220</u>	<u>S mcw</u>			<u>98</u>	<u>2</u>

Rec Total 1850 BHT 124 Gravity — API RW 270 @ 67 °F Chlorides 27,000 ppm

(A) Initial Hydrostatic <u>2119</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1710</u>
(B) First Initial Flow <u>62</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1832</u>
(C) First Final Flow <u>503</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2147</u>
(D) Initial Shut-In <u>11 79</u>	<input checked="" type="checkbox"/> Circ Sub <u>1/4</u>	T-Pulled <u>0032 08/03/12</u>
(E) Second Initial Flow <u>489</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0259</u>
(F) Second Final Flow <u>848</u>	<input type="checkbox"/> Mileage <u>49.60</u>	Comments
(G) Final Shut-In <u>1180</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2,000</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1624.60</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1624.60</u>	

Approved By Keith Reavis Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48972

Well Name & No. Showalter #1-17 Test No. 3 Date 8/4/12
 Company Murfin Drilling Co, Inc Elevation Wich 3013 KB 3002 GL
 Address 250 N Water Suite 300 Wichita, Ks 67202
 Co. Rep / Geo. Keith Reavis Rig Murfin #21
 Location: Sec. 17 Twp. 16s Rge. 32w Co. Scott State Ks

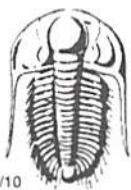
Interval Tested 4420 4525 Zone Tested Marnaton - Pawnee
 Anchor Length 105' Drill Pipe Run 4142 Mud Wt. 9.2
 Top Packer Depth 4415 Drill Collars Run 265 Vis 56
 Bottom Packer Depth 4420 Wt. Pipe Run 0 WL 7.2
 Total Depth 4525 Chlorides 3,000 ppm System LCM 6#
 Blow Description FF: Packer failed, attempt to reseat packers failed.
 TSI:
 FF:
 PSI:

Rec	Feet of	%gas	%oil	%water	%mud
<u>330</u>	<u>Mud</u>			<u>100</u>	

Rec Total 330 BHT 120 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2220 Test 1050 T-On Location 0347
 (B) First Initial Flow 2031 Jars 250 T-Started 0517
 (C) First Final Flow Safety Joint 75 T-Open 0715
 (D) Initial Shut-In Circ Sub N/C T-Pulled 0725
 (E) Second Initial Flow 2055 Hourly Standby T-Out 0934
 (F) Second Final Flow Mileage 32 RT 49.60 Comments
 (G) Final Shut-In Sampler
 (H) Final Hydrostatic 2155 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1424.60
 Accessibility MP/DST Disc't
 Sub Total 1424.60

Approved By Our Representative [Signature]
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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48973

Well Name & No. Showalter # 1-17 Test No. 4 Date 8/4/12
 Company Martin Drilling Co, Inc Elevation 3013 KB 3002 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Keith Reavis Rig Martin #21
 Location: Sec. 17 Twp. 16S Rge. 32W Co. Scott State Ks

Interval Tested 44²⁴ 4525 Zone Tested Marmaton - Pawnee
 Anchor Length 101' Drill Pipe Run 4142 Mud Wt. 9.2
 Top Packer Depth 4419 Drill Collars Run 265 Vis 56
 Bottom Packer Depth 4424 Wt. Pipe Run 0 WL 7.2
 Total Depth 4525 Chlorides 3,000 ppm System LCM 6 #
 Blow Description IF: 5" blow, receded to 1/4" (Packer seat failed initially but seated after opening mud fell 10 feet before stopping)
ISI: No return.
FF: NO blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>330</u>	<u>ADP</u>				
<u>30</u>	<u>SOCM</u>		<u>2</u>		<u>98</u>
<u>70</u>	<u>MUD</u>				<u>100</u>

Rec Total 100 BHT 124 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2240</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0935</u>
(B) First Initial Flow <u>76</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1005</u>
(C) First Final Flow <u>89</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1201</u>
(D) Initial Shut-In <u>227</u>	<input checked="" type="checkbox"/> Circ Sub <u>1/2</u>	T-Pulled <u>1501</u>
(E) Second Initial Flow <u>87</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1653</u>
(F) Second Final Flow <u>88</u>	<input checked="" type="checkbox"/> Mileage <u>32 1/2</u> 49.60	Comments
(G) Final Shut-In <u>161</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2140</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1874.60</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1874.60</u>	

Approved By _____

Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48974

Well Name & No. Showalter # 1-17 Test No. 5 Date 8/05/12
 Company Murfin Drilling Co, Inc Elevation 3013 KB 3002 GL
 Address 250 N Water Suite 300 Wichita, Ks 67202
 Co. Rep / Geo. Keith Reavis Rig Murfin #21
 Location: Sec. 17 Twp. 16s Rge. 32w Co. Scott State Ks

Interval Tested 4570 - 4620 Zone Tested Johnson
 Anchor Length 50' Drill Pipe Run 4302 Mud Wt. 9.3
 Top Packer Depth 4565 Drill Collars Run 265 Vis 50
 Bottom Packer Depth 4570 Wt. Pipe Run 0 WL 7.2
 Total Depth 4620 Chlorides 3000 ppm System LCM 5#
 Blow Description IP! 1" blow.
ISI! No return.
FF! Surface blow.
FBI! No return.

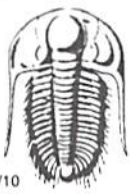
Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>500m</u>	<u>2</u>		<u>98</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 75 BHT 123 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2297</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>0930</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1005</u>
(C) First Final Flow <u>55</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1210</u>
(D) Initial Shut-In <u>939</u>	<input checked="" type="checkbox"/> Circ Sub <u>H/C</u>	T-Pulled <u>1510</u>
(E) Second Initial Flow <u>82</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1741</u>
(F) Second Final Flow <u>73</u>	<input checked="" type="checkbox"/> Mileage <u>32 R/T</u> 49.60	Comments
(G) Final Shut-In <u>807</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2223</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer 250	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1874.60</u>
	Sub Total <u>1874.60</u>	MP/DST Disc't

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48975

Well Name & No. Showalter #1-17 Test No. 6 Date 8/06/12
 Company Murkin Drilling Co, Inc Elevation 3013 KB 3002 GL
 Address 250 N Water Suite 300 Wichita, Ks 67202
 Co. Rep / Geo. Keith Reavis Rig Murkin #21
 Location: Sec. 17 Twp. 16S Rge. 32W Co. Scott State Ks

Interval Tested 4618 -4634 Zone Tested Atoka
 Anchor Length 16' Drill Pipe Run 4334 Mud Wt. 9.2
 Top Packer Depth 4613 Drill Collars Run 255 Vis 56
 Bottom Packer Depth 4618 Wt. Pipe Run 0 WL 7.6
 Total Depth 4634 Chlorides 3000 ppm System LCM 6*
 Blow Description IF: Surface blow, died @ 9 min.
ISI: No return.
FF: No blow
FST: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>MUD (core Puddle on top)</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 3 BHT 122 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2347</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0001</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0046</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0246</u>
(D) Initial Shut-In <u>60</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0546</u>
(E) Second Initial Flow <u>25</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0751</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>32 R/L x 2</u> 99.20	Comments <u>P/V Tool 2000 8/06/12</u>
(G) Final Shut-In <u>27</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2260</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1674.20</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1674.20</u>	

Approved By _____

Our Representative 

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aest. prod. - L.H.

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 132085

Invoice Date: Jul 28, 2012

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

Page: 1



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Schowalter #1-17	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jul 28, 2012	8/27/12

Quantity	Item	Description	Unit Price	Amount
170.00	MAT	Class A Common	16.25	2,762.50
6.00	MAT	Chloride	58.20	349.20
178.48	SER	Cubic Feet	2.10	374.81
263.34	SER	Ton Mileage	2.35	618.87
1.00	SER	Surface	1,125.00	1,125.00
32.00	SER	Pump Truck Mileage	7.00	224.00
1.00	SER	Manifold Head Rental	200.00	200.00
32.00	SER	Light Vehicle Mileage	4.00	128.00
1.00	CEMENTER	Andrew Forslund		
1.00	OPER ASSIST	Ethan Galssman		
1.00	OPER ASSIST	Jeremy Slerger		

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

\$ 2023.83

ONLY IF PAID ON OR BEFORE
Aug 22, 2012

Subtotal	5,782.38
Sales Tax	258.27
Total Invoice Amount	6,040.65
Payment/Credit Applied	
TOTAL	6,040.65

Q KM



PO Box 93999
Southlake, TX 76092

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

*act.
Liz H. - Prod.*

INVOICE

Invoice Number: 132279

Invoice Date: Aug 7, 2012

Page: 1



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Schowalter #1-17	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Great Bend	Aug 7, 2012	9/6/12

Quantity	Item	Description	Unit Price	Amount
180.00	MAT	Class A Common	16.25	2,925.00
120.00	MAT	Pozmix	8.50	1,020.00
10.00	MAT	Gel	21.25	212.50
75.00	MAT	Flo Seal	2.70	202.50
322.20	SER	Cubic Feet	2.10	676.62
430.40	SER	Ton Mileage	2.35	1,011.44
1.00	SER	Plug to Abandon	1,250.00	1,250.00
32.00	SER	Pump Truck Mileage	7.00	224.00
32.00	SER	Light Vehicle Mileage	4.00	128.00
1.00	CEMENTER	Terry Heinrich		
1.00	EQUIP OPER	Kevin Eddy		
1.00	EQUIP OPER	Joel Monahan		

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

\$2677.52

ONLY IF PAID ON OR BEFORE

Sep 1, 2012

Subtotal	7,650.06
Sales Tax	634.95
Total Invoice Amount	8,285.01
Payment/Credit Applied	
TOTAL	8,285.01

OK

