



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1183095
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: _____

1183095

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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MDCI
 Zodrow #1-26
 1010 FNL 1870 FEL
 Sec. 26-T6S-R29W
 2753' KB

Hoff Oil & Gas
 Wessel #1
 300 FNL 300 FWL
 Sec. 27-T5S-R29W
 2815' KB

Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2485	+268	Flat	2483	+270	+2	2547	+268
B/Anhydrite	2522	+231	-4	2520	+233	-2	2580	+235
Topeka	3660	-907	-10	3656	-903	-6	3712	-897
Heebner	3846	-1093	-11	3844	-1091	-9	3897	-1082
Toronto	3874	-1121	-8	3873	-1120	-7	3928	-1113
Lansing	3887	-1134	-9	3888	-1135	-10	3940	-1125
Stark	4060	-1307	-18	4057	-1304	-15	4104	-1289
BKC	4108	-1355	-17	4107	-1354	-16	4153	-1338
Cherokee	4317	-1564	-21	4314	-1561	-18	4358	-1543
Mississippian	4420	-1667		4414	-1661		NR	
RTD	4530						4140	
LTD				4528				



WESLEY D. HANSEN Consulting Petroleum Geologist

212 N. Market, Suite 257, Wichita, KS 67202
Office: 316-267-7313 Cellular ; 316-772-6188

**KGS
AAPG
Kansas License #418**



**Scale 1:240 (5"=100') Imperial
Measured Depth Log**

Well Name: Murfin Drilling Co., Inc. #1-26 Zodrow
Location: 1010' FNL, 1870' FEL of Section 26-6-29W
License Number: API: 15-179-21344
Spud Date: 9-30-2013
Surface Coordinates: 1010' FNL, 1870' FEL of Section 26-6-29W
Region: Sheridan County, KS
Drilling Completed: 10-6-2013

Bottom Hole Vertical hole
Coordinates:
Ground Elevation (ft): 2742' **K.B. Elevation (ft):** 2753'
Logged Interval (ft): 3550' **To:** RTD **Total Depth (ft):** 4530'
Formation: Mississippian at RTD
Type of Drilling Fluid: Chemical - Displaced at 3300'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Murfin Drilling Co., Inc.
Address: 250 N. Water
Suite 300
Wichita, KS 67202

GEOLOGIST

Name: Wesley D. Hansen
Company: Wesley D. Hansen - Consulting Petroleum Geologist
Address: 212 N. Market, Suite 257
Wichita, KS 67202
Office: 316-263-7313 **Cellular:** 316-772-6188

COMMENTS

Contractor: Murfin Drilling Co., Inc. Rig #2
Pusher: Arturo Cabezas

Surface Casing: 8 5/8" set at 221' w/170sx
Production Casing:

Mud by: Morgan Mud - Cade Lines was the engineer

DST's by: Trilobite - Ryan Nichols was the tester

Logs by: Pioneer Wireline (DIL, CN-CD, MEL, BHCS)

Deviation Surveys: 1/4 deg. @ 221'; 1/2 deg. @ 2017'; 1/2 deg. @ 2523'; 3/4 deg. @ 3530'; 1 deg. @ 3950'; 1 deg. @ 4530'

Bit #	Size	MFG	Type	Depth Out	Footage Cut	Hours on bit
1	12 1/4"	HTC	SDS	221'	221'	1 3/4
2	7 7/8"	HTC	DP506F	3530'	3309'	27 3/4
3	7 7/8"	HTC	GX-20C	4530'	1000'	45 1/2

FORMATION TOPS AND STRUCTURAL COMPARISON

FORMATION	SAMPLE TOPS		LOG TOPS		COMPARISON WELL Hoff Oil & Gas #1 Wessel 27-6-29W 2815' KB
	Depth	Datum	Depth	Datum	
	2753'	KB	2753'	KB	
Anhydrite	2485'	+268	2483'	+270	+2
B/Anhydrite	2522'	+231	2520'	+233	-2
Topeka	3660'	-907	3656'	-903	-6
Heebner	3845'	-1092	3844'	-1091	-9
Toronto	3872'	-1119	3873'	-1120	-7
Lansing	3887'	-1134	3888'	-1135	-10
Muncie Creek Shale	3996'	-1243	3998'	-1245	-24
Stark Shale	4060'	-1307	4057'	-1304	-15
BKC	4108'	-1355	4107'	-1354	-16
Pawnee	4220'	-1467	4216'	-1463	not reached
Fort Scott	4306'	-1553	4303'	-1550	not reached
Cherokee Shale	4317'	-1564	4314'	-1561	not reached
Mississippian	4418'	-1665	4414'	-1661	not reached
Arbuckle?	4488'	-1735	4489'	-1736	not reached
RTD	4530'	-1777			
LTD			4528'	-1775	

DRILL STEM TESTS

DST No. 1 Lansing "D"
Interval: 3936'-3950'
Times: 30-60-60-90
Recovery: 50' MCW with oil spots (5m, 95w); 424' MCW (5m, 95w), chl. 7500
FP: 18-124/127-220 SIP: 1330-1320
HP: 2030-1956 BHT: 118 deg. F

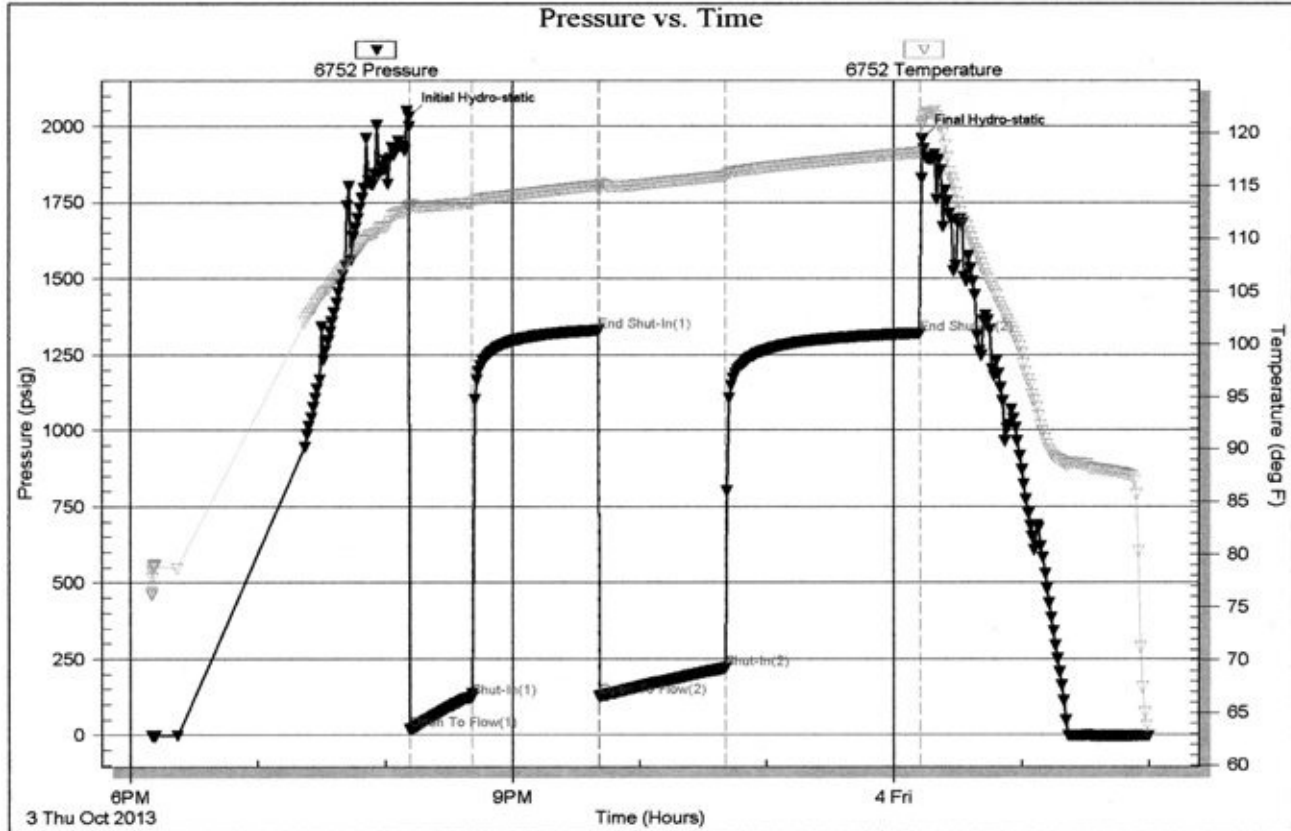
IFP: surface blow, bldg. to B.O.B. in 25 minutes
ISIP: no return blow
FFP: surface blow started after 3 minutes, bldg. to B.O.B. in 29 minutes
FSIP: no return blow

Serial #: 6752

Inside Murfin Drilling Company

Zodrow #1-26

DST Test Number: 1



Triobte Testing, Inc

Ref. No: 55130

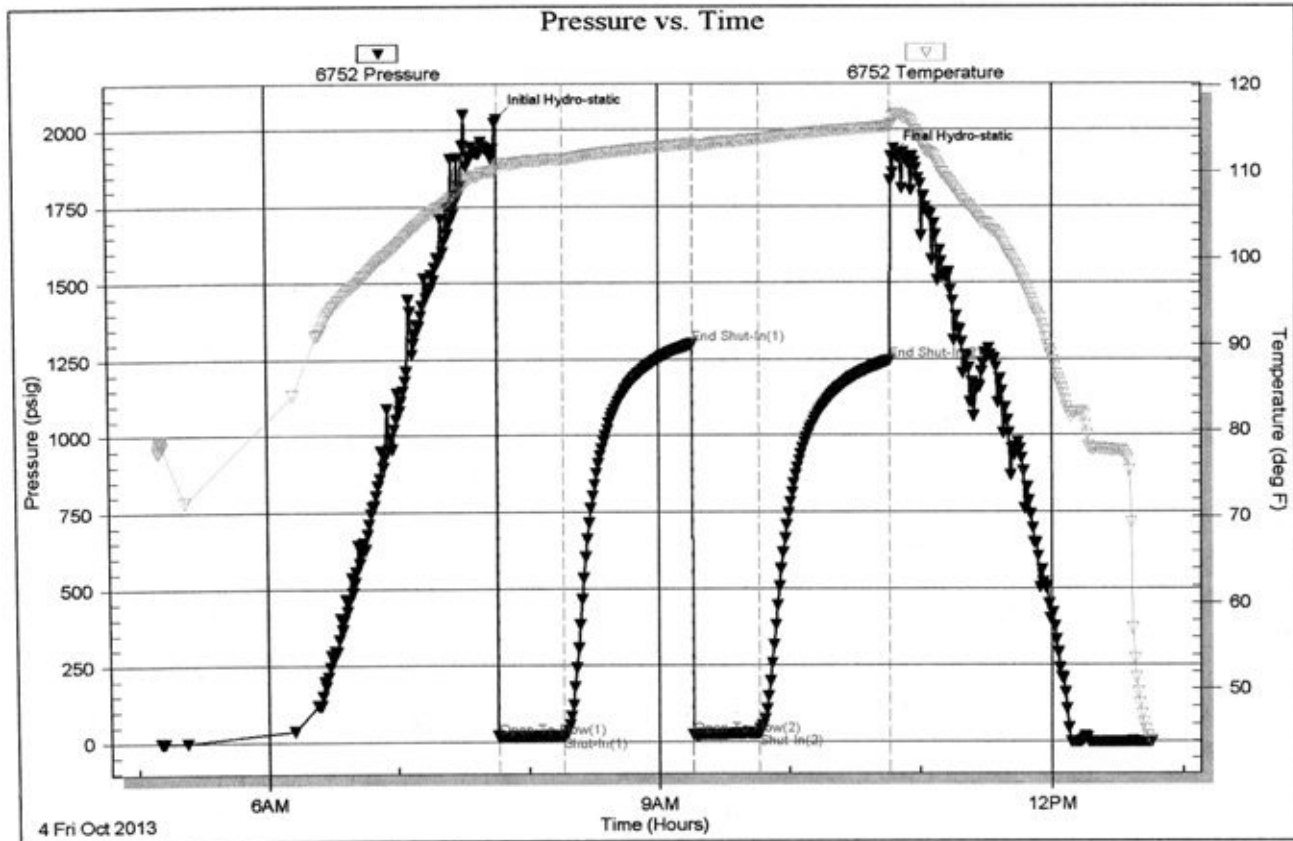
Printed: 2013.10.04 @ 02:07:06

DRILL STEM TESTS

DST No. 2 Lansing "J"
 Interval: 4026'-4060'
 Times: 30-60-30-60
 Recovery: 5' mud with oil spots
 FP: 16-20/22-28 SIP: 1301-1246
 HP: 2035-1912 BHT: 116 deg. F

IFP: surface blow, built to 1/2"
 ISIP: no return blow
 FFP: no blow
 FSIP: no return blow

Serial #: 6752 Inside Murfin Drilling Company Zodrow #1-26 DST Test Number: 2






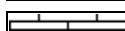






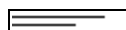



Tribite Testing, Inc








Ref. No: 55131


Printed: 2013.10.05 @ 00:51:08

ROCK TYPES

-  Anhy
-  Cht
-  Coal
-  Congl
-  Gyp
-  Ls colorless
-  Lmst

-  Salt
-  Shale
-  Shcol
-  Shgy
-  Sltst
-  Ss
-  Carb sh

-  Dol
-  Dtd
-  Gry sh
-  Sandylms
-  redshale
-  Shale
-  Sltstn

-  Shlyslts
-  Sltyslts
-  Sdy dolo
-  Silty dolo
-  Shy dolo
-  Shaly ls

ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite

- Plant
- Strom
- Fuss
- Oomold

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr

- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

OTHER SYMBOLS

INTERVALS

- Core
- Dst
- Dst

EVENTS

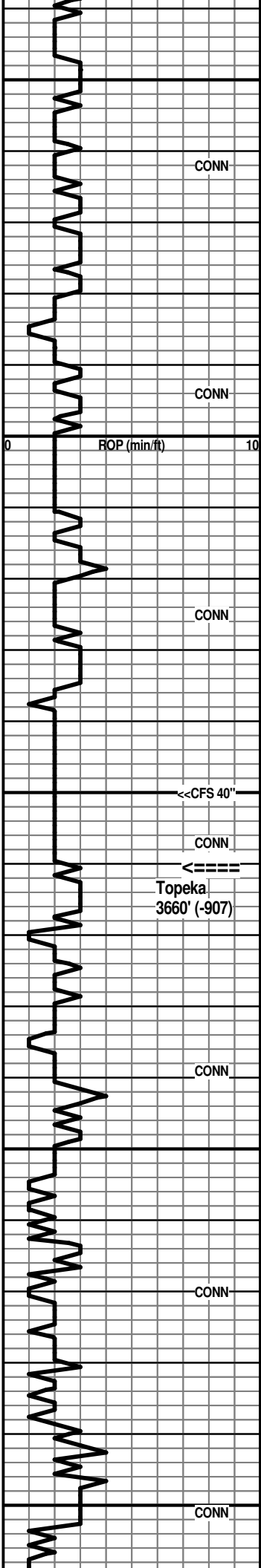
- Rft
- Dst top/base

OIL SHOWS

- Even
- Spotted
- Quest.

- Trace
- Dead
- Gas show

Curve Track 1 ROP (min/ft)	Depth	Lithology	Geological Descriptions	Remarks
<div style="display: flex; justify-content: space-between;"> ROP (min/ft) 10 </div>	3500	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 8px; margin-right: 5px;">Oil Shows</div> </div>	<p>Sh: abund. dark gray to black; some Ls: tan, lt brn fn gran. poor-NVP; some lt gray, offwhite vfxln sl dolomitic</p>	<p>Report Depth & Activity 9-30-2013 MIRT, Spud at 2:00 PM 10-1 Drlg. @ 722' 10-2 Drlg. @ 3309' 10-3 CFS @ 3880' 10-4 CTCH @ 3970' post DST No. 1 10-5 Drlg. @ 4095' post DST No. 2 10-6 Drlg. @ 4465' 10-7 RTD @ 4530', logs complete, P&A</p> <p>Morgan Mud Check at 3502' 9:15 AM on 10-2-2013 wt vis wl pH chl 8.7 75 6.0 12.0 1600 PV YP GelS lcm solids 24 28 12/32 3# 2.9%</p> <p>Tripped PDC bit at 3530' Geologist on location</p>



3550

CONN

3600

CONN

3650

CONN

3700

CONN

3750

CONN

CONN

Topeka
3660' (-907)

abund. shales AA; Ls: sl incr. % of tan, lt brn cryptoxln and mottled gray micln to fn gran., dense

common vc gray shales and med gray shaly Ls; other Ls: tan, lt gray, offwhite dense to sl granular, micac. IP, poor-NVP, N.S.

Ls: mix tan, lt gray, offwhite gen. dense; lt to med gray mic-vfxln, shaly; Sh: med to dark gray and black

90' spl - flood Ls: tan, lt brn fnxln, poor-NVP; offwhite mic-vfxln dense, subchalky IP

Ls: various tan, lt gray, lt brn fn-vfxln, occ foss. with poor-NVP; some lt gray-brn vf-cryptoxln; fairly minor shale %

Ls: offwhite, lt gray micln to fn gran. with some inter-particle and pp por.; scatt. lt brn fn gran. and foss. with inter and intra-particle por., N.S.; some white chalky

Ls: various tan, lt gray, offwhite mic-vfxln, fn gran. IP; white subchalky to chalky; Sh: influx soft lt red-brn

Ls: mix tan, lt brn fn gran. with some inter-particle por.; offwhite, lt gray mic-vfxln dense, NVP

Ls: good influx lt brn, lt gray vf-cryptoxln; sl incr. lt to med gray shale

Ls: mix AA with influx med to dark gray and gray-brn cryptoxln, NVP; Sh: sl influx lt red-brn

CFS 3650' 20" spl - Ls: lt to med gray, lt brn vf-cryptoxln, NVP; lesser tan, offwhite mic-vfxln, some pp por., subchalky IP; some white chalky; 40" spl - Ls: incr. tan, offwhite micln to fn gran. with pp por., N.S.; sl incr. Sh: soft, lt to med red-brn

60' spl - Sh: common red-brn AA; Ls: mix AA with some lt brn, lt gray cryptoxln

70' spl - flood Ls: offwhite, tan fn gran. AA; good influx lt to med brn, lt gray cryptoxln; lesser offwhite subchalky to chalky

Ls: predom. various cryptoxln AA; good influx white chalky

Ls: predom. tan, lt gray, lt brn vfxln, poor-NVP; scatt. Dolo: tan vfxln poor vis. por., N.S.

Ls: tan, offwhite fn gran. with pp and inter-particle por.; tan, offwhite mic-vfxln dense; scatt. white chalky

Ls: tan, lt gray vf-cryptoxln, NVP; tan, offwhite micln to fn gran. with pp por.; common subchalky to chalky

Siltst: sl influx lt red-brn with red-brn silty shale

Ls: predom. tan, some lt gray vfxln, NVP; common offwhite subchalky to chalky

Ls: predom. tan vfxln, some cryptoxln; common white chalky

Ls: mix AA with some tan fnxln with pp and inter-particle por.; decr. chalky

Ls: tan, lt gray, some lt brn cryptoxln with scatt. small vug. por., N.S.; tan, offwhite mic-vfxln dense

70' spl - Sh: influx black carbon. and soft lt gray; Ls: influx mottled lt to med brn gran., some cryptoxln and mottled offwhite/gray micln dense; common white chalky

80' spl - decr. shale %: Ls: mixed and mottled AA: some

Topeka 3660' (-907)

tan, lt gray fn granular with inter-particle and vug. por., N.S.

90' spl - Ls: influx tan, offwhite, lt brn fn gran. and foss. with inter-particle por.; tan, offwhite micxln with pp por., N.S.; Sh: influx lt to med red-brn, soft

3800' spl - Sh: incr. % of soft red-brn AA; Ls: various offwhite, tan mic-vfxln with pp por. IP

Ls: tan, lt gray vf-cryptoxln; some offwhite, lt gray silty

Sh: influx dark gray to black, lesser dark red-brn; Ls: tan, lt brn fn gran. with gen. poor to fair inter-particle por., N.S.; influx white chalky

Ls: tan gran. with por. AA; good influx offwhite, tan micxln subchalky; abund. white chalky

Ls: mix AA, still very chalky

Ls: AA; good influx lt gray, lt to med brn cryptoxln, some gran., NVP

60' spl - Sh: strong influx black carbon.; Ls: fair influx med brn cryptoxln

Ls: lt to med brn, gray cryptoxln

Sh: flood very soft and gummy lt gray and soft red-brn

Sh: AA; Ls: tan gran. with poor inter-particle por. with black gilsonite flecks, milky cut, no odor, nfo; some offwhite micxln with gilsonite flecks

CFS 3880' spls - Ls: tan fn-vfxln with some inter-particle por. with shows AA; flood white chalky

Sh: dark gray to black, some red-brn

Ls: offwhite, tan oolitic, some with spar matrix, some with micxln matrix, N.S.

CFS 3900' spls - Ls: tan, lt brn, lt gray vf-cryptoxln, oolitic IP; abund. tan, offwhite mic-vfxln subchalky to white chalky, N.S.

20' spl - Ls: very chalky AA; tan, lt gray cryptoxln, some gran., N.S.; Sh: influx soft red-brn, spls wash red

Sh: soft red-brn, influx green; Ls: lt gray, tan cryptoxln and offwhite subchalky to chalky

CFS 3930' 20" spl - incr. Ls: offwhite micxln subchalky to chalky; still shaly, washes red AA; 45" spl - still shaly AA; Ls: mix subchalky to chalky and lt gray, tan vfxln, N.S.

40'/50' spls - Ls: tan, offwhite mic-fnxln with pp por., occ foss. with intra-particle por., scatt. black gilsonite flecks, no odor, nfo; flood white chalky and tan mic-vfxln in 50' spl, rare gilsonite AA

CFS 3950' 30" spl - Ls: good influx lt brn, lt gray sl mottled gran. to cryptoxln with vug. and inter-particle por. with patchy brn stain, fair sfo, no odor; 60" spl - >>>

60' spl - trashy, very shaly AA; 70' spl - decr. shale %; Ls: flood lt to med brn and red-brn cryptoxln, mottled IP, NVP, N.S.

CFS 3970' 30" spl - Ls: flood white subchalky to chalky and tan fn gran. with fair inter-particle por, N.S.; 60" spl - Ls: mix AA, very chalky, N.S.

80' spl - Ls: very chalky mix AA with influx lt to med brn, gray-brn cryptoxln

Ls: tan, lt gray cryptoxln to sl gran., NVP; decr. chalky; Sh: incr. % med to dark gray, maroon, purplish-gray, mottled

Heebner Shale 3845' (-1092)

Toronto 3872' (-1119)

7:00 AM at 3880' on 10-3-2013

Lansing 3887' (-1134)

DST No. 1 Lansing "D"
Interval: 3936'-3950'
Times: 30-60-60-90
IFP: surface blow, bldg. to B.O.B. in 25 minutes
ISIP: no return blow
FFP: surface blow started after 3 minutes, bldg. to B.O.B. in 29 minutes
FSIP: no return blow
Recovery: 50' MCW with oil spots (5m, 95w); 424' MCW (5m, 95w), chl. 7500
FP: 18-124/127-220 SIP: 1330-1320
HP: 2030-1956 BHT: 118 deg. F

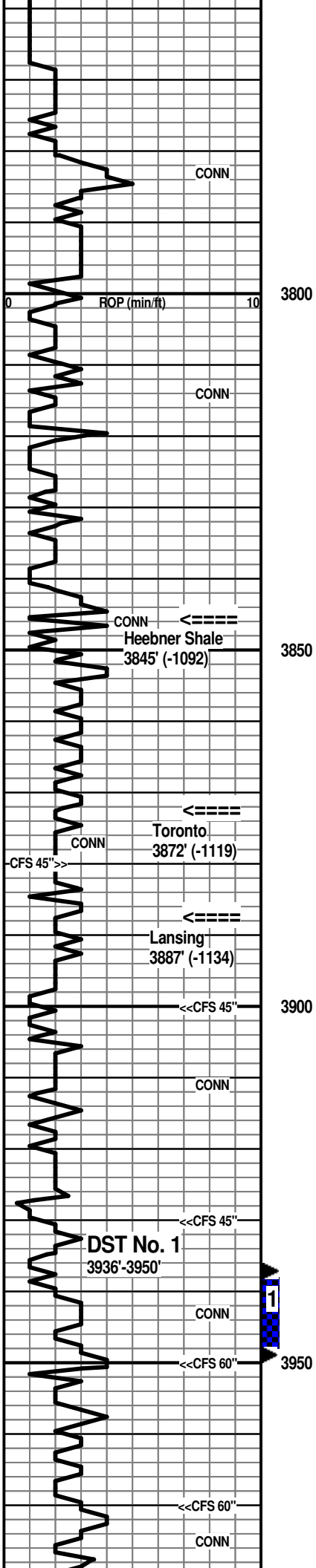
Morgan Mud Check at 3950'

4:10 PM on 10-3-2013
wt vis wl pH chl
9.1 74 5.6 10.0 1300
PV YP GelS lcm solids
26 26 11/32 6# 5.7%

CFS 3950' 60" spl - Ls: various AA, decr. shows; Sh: good influx med to dark gray, black, med to dark red-brn

Pipe strap at 3950' was 2.54' short to the board

7:00 AM at 3970' on 10-4-2013



tan, lt gray fn granular with inter-particle and vug. por., N.S.
90' spl - Ls: influx tan, offwhite, lt brn fn gran. and foss. with inter-particle por.; tan, offwhite micxln with pp por., N.S.; Sh: influx lt to med red-brn, soft
3800' spl - Sh: incr. % of soft red-brn AA; Ls: various offwhite, tan mic-vfxln with pp por. IP
Ls: tan, lt gray vf-cryptoxln; some offwhite, lt gray silty
Sh: influx dark gray to black, lesser dark red-brn; Ls: tan, lt brn fn gran. with gen. poor to fair inter-particle por., N.S.; influx white chalky
Ls: tan gran. with por. AA; good influx offwhite, tan micxln subchalky; abund. white chalky
Ls: mix AA, still very chalky
Ls: AA; good influx lt gray, lt to med brn cryptoxln, some gran., NVP
60' spl - Sh: strong influx black carbon.; Ls: fair influx med brn cryptoxln
Ls: lt to med brn, gray cryptoxln
Sh: flood very soft and gummy lt gray and soft red-brn
Sh: AA; Ls: tan gran. with poor inter-particle por. with black gilsonite flecks, milky cut, no odor, nfo; some offwhite micxln with gilsonite flecks
CFS 3880' spls - Ls: tan fn-vfxln with some inter-particle por. with shows AA; flood white chalky
Sh: dark gray to black, some red-brn
Ls: offwhite, tan oolitic, some with spar matrix, some with micxln matrix, N.S.
CFS 3900' spls - Ls: tan, lt brn, lt gray vf-cryptoxln, oolitic IP; abund. tan, offwhite mic-vfxln subchalky to white chalky, N.S.
20' spl - Ls: very chalky AA; tan, lt gray cryptoxln, some gran., N.S.; Sh: influx soft red-brn, spls wash red
Sh: soft red-brn, influx green; Ls: lt gray, tan cryptoxln and offwhite subchalky to chalky
CFS 3930' 20" spl - incr. Ls: offwhite micxln subchalky to chalky; still shaly, washes red AA; 45" spl - still shaly AA; Ls: mix subchalky to chalky and lt gray, tan vfxln, N.S.
40'/50' spls - Ls: tan, offwhite mic-fnxln with pp por., occ foss. with intra-particle por., scatt. black gilsonite flecks, no odor, nfo; flood white chalky and tan mic-vfxln in 50' spl, rare gilsonite AA
CFS 3950' 30" spl - Ls: good influx lt brn, lt gray sl mottled gran. to cryptoxln with vug. and inter-particle por. with patchy brn stain, fair sfo, no odor; 60" spl - >>>
60' spl - trashy, very shaly AA; 70' spl - decr. shale %; Ls: flood lt to med brn and red-brn cryptoxln, mottled IP, NVP, N.S.
CFS 3970' 30" spl - Ls: flood white subchalky to chalky and tan fn gran. with fair inter-particle por, N.S.; 60" spl - Ls: mix AA, very chalky, N.S.
80' spl - Ls: very chalky mix AA with influx lt to med brn, gray-brn cryptoxln
Ls: tan, lt gray cryptoxln to sl gran., NVP; decr. chalky; Sh: incr. % med to dark gray, maroon, purplish-gray, mottled

Heebner Shale 3845' (-1092)
Toronto 3872' (-1119)
7:00 AM at 3880' on 10-3-2013
Lansing 3887' (-1134)
DST No. 1 Lansing "D"
Interval: 3936'-3950'
Times: 30-60-60-90
IFP: surface blow, bldg. to B.O.B. in 25 minutes
ISIP: no return blow
FFP: surface blow started after 3 minutes, bldg. to B.O.B. in 29 minutes
FSIP: no return blow
Recovery: 50' MCW with oil spots (5m, 95w); 424' MCW (5m, 95w), chl. 7500
FP: 18-124/127-220 SIP: 1330-1320
HP: 2030-1956 BHT: 118 deg. F
Morgan Mud Check at 3950'
4:10 PM on 10-3-2013
wt vis wl pH chl
9.1 74 5.6 10.0 1300
PV YP GelS lcm solids
26 26 11/32 6# 5.7%
CFS 3950' 60" spl - Ls: various AA, decr. shows; Sh: good influx med to dark gray, black, med to dark red-brn
Pipe strap at 3950' was 2.54' short to the board
7:00 AM at 3970' on 10-4-2013

yellow/gray/maroon

4000' spl - Ls: tan, lt brn, lt gray cryptoxln; influx white chalky; influx Chert: tan, lt gray, offwhite, orange opq, sharp

Ls: flood mottled med brn cryptoxln, NVP, N.S.; lesser offwhite, tan mic-vfxln dense; very minor shale %

Sh: fair influx dark red-brn, some dark gray to black

Ls: flood tan, lt brn oolitic with poor to fair inter-oolitic por. IP; fairly common white chalky, N.S.

CFS 4020' 30" spl - Ls: flood lt to med brn, lt gray cryptoxln, some sl mottled, sl gran., and foss., NVP; common white chalky; 60" spl - mix AA

Ls: tan mic-vfxln dense, subchalky and offwhite chalky

Ls: predom. subchalky to chalky AA with lesser tan, lt gray cryptoxln; trace crinoid and bryozoan foss. frag.; minor med to dark gray shale

CFS 4040' 30" spl - flood Sh: med to dark red-brn, lesser gray-green and med to dark gray; Ls: some tan, gray gran. to cryptoxln, NVP; 60" spl - >>>

60' spl - Ls: lt gray, tan, lt brn predom. cryptoxln with very poor visible por. with pp brn to black stain, some patchy stain, vsl odor, sl to fair show bleeding gas and oil; common cryptoxln with NVP, N.S.

CFS 4060' 30" spl - Ls: various cryptoxln to mottled gran., occ foss., with pp to patchy stain, vsl odor, sl sfo on break, tight; 60" spl - AA

70' spl - trashy; Sh: pred. dark red-brn, lesser med to dark gray, black carbon. fissile

Sh: very predom. red-brn

Ls: influx lt gray, tan predom. cryptoxln and offwhite, tan mic-vfxln dense, subchalky IP; some offwhite mottled with red shale filled microfractures

CFS 4090' 30" spl - Ls: various cryptoxln to sl mottled granular AA; Sh: some dark gray to black; 60" spl - Ls's AA; incr. red-brn shale

Sh: med to dark red-brn, with dark gray to black

Ls: flood offwhite, lt gray mic-vfxln dense, subchalky to occ chalky; lesser tan, lt gray gran., NVP, N.S.; one chip lt gray cryptoxln with patchy stain (cave?)

Ls: flood lt gray, lt brn vf-cryptoxln; lesser offwhite, lt gray mic-vfxln dense; 1-2 chips tan cryptoxln with spotty stain, no odor, nfo. ?cave?

Sh: influx various lt to med red, red-brn, green, lt to med gray, and lt gray soft clayey; common Ls's in spls

Sh: influx red-brn, brick red, and vc gray; Siltst: strong influx lt to med red and offwhite, vf sandy and calcar.

Ls: flood lt gray, tan cryptoxln and lesser offwhite, lt gray micxln dense, subchalky IP; decr. shale and siltst %

Ls: flood lt gray, tan some yellow micxln to fn gran., poor-NVP, N.S., occ foss.; one chip offwhite cryptoxln, NVP, with pp black stain, prob. slough

70' spl - Ls: mixed and mottled AA; new mottled tan/red gran. NVP, some mottled red/gray cryptoxln; Sh: good influx red-brn, lt to med gray, silty

Ls: lt to med brn cryptoxln to mottled gran. and offwhite, lt gray mic-vfxln dense; interbedded with Sh: med to dark red-brn, lt to med gray, trace maroon and yellow

90' spl - flood lt to med gray silty Ls and calcar. siltst

4200' spl - decr. silty Ls and calcar. siltst; influx med to dark red-brn shale and mottled tan, gray granular Ls, NVP, N.S.

10' spl - Sh: lt to med gray, med to dark red-brn, mostly silty

Muncie Creek Sh. 3996' (-1243)

DST No. 2 Lansing "J"
Interval: 4026'-4060'
Times: 30-60-30-60
IFP: surface blow, built to 1/2"
ISIP: no return blow
FFP: no blow
FSIP: no return blow
Recovery: 5' mud with oil spots
FP: 16-20/22-28 SIP: 1301-1246
HP: 2035-1912 BHT: 116 deg. F

CFS 4040' 60" spl - decr. shale %; Ls: mix tan, lt gray cryptoxln and mottled tan, lt brn, lt gray gran. NVP, N.S.; common offwhite, tan mic-vfxln dense

Stark Shale 4060' (-1307)

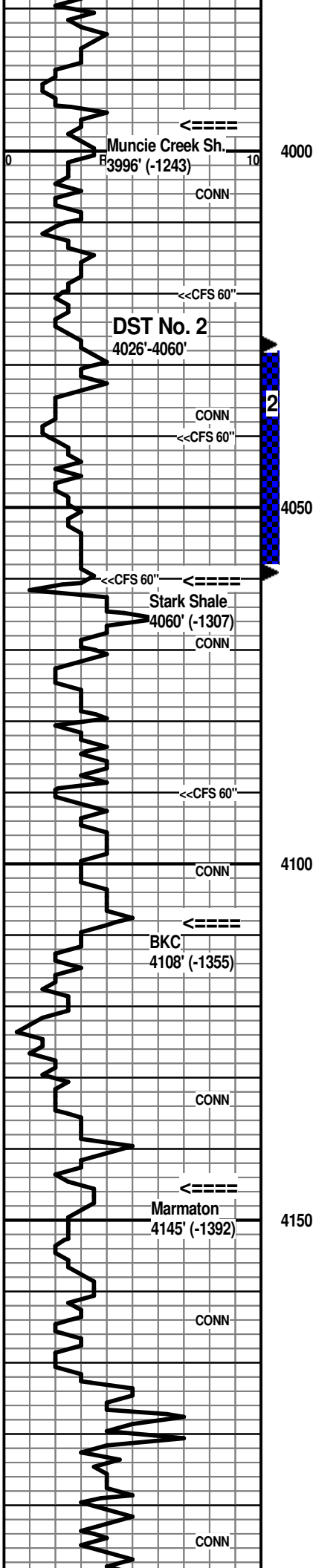
Morgan Mud Check at 4060'
3:50 PM on 10-4-2013
wt vis wl pH chl
9.0 66 6.0 10.5 1300
PV YP GelS lcm solids
23 23 10/28 6# 5.7%

7:00 AM at 4095' on 10-5-2013

BKC 4108' (-1355)

Morgan Mud Check at 4101'
7:30 AM on 10-5-2013
wt vis wl pH chl
9.0 55 5.6 10.0 1000
PV YP GelS lcm solids
20 20 10/25 6# 5.0%

Marmaton 4145' (-1392)



4000' spl - Ls: tan, lt brn, lt gray cryptoxln; influx white chalky; influx Chert: tan, lt gray, offwhite, orange opq, sharp
Ls: flood mottled med brn cryptoxln, NVP, N.S.; lesser offwhite, tan mic-vfxln dense; very minor shale %
Sh: fair influx dark red-brn, some dark gray to black
Ls: flood tan, lt brn oolitic with poor to fair inter-oolitic por. IP; fairly common white chalky, N.S.
CFS 4020' 30" spl - Ls: flood lt to med brn, lt gray cryptoxln, some sl mottled, sl gran., and foss., NVP; common white chalky; 60" spl - mix AA
Ls: tan mic-vfxln dense, subchalky and offwhite chalky
Ls: predom. subchalky to chalky AA with lesser tan, lt gray cryptoxln; trace crinoid and bryozoan foss. frag.; minor med to dark gray shale
CFS 4040' 30" spl - flood Sh: med to dark red-brn, lesser gray-green and med to dark gray; Ls: some tan, gray gran. to cryptoxln, NVP; 60" spl - >>>
60' spl - Ls: lt gray, tan, lt brn predom. cryptoxln with very poor visible por. with pp brn to black stain, some patchy stain, vsl odor, sl to fair show bleeding gas and oil; common cryptoxln with NVP, N.S.
CFS 4060' 30" spl - Ls: various cryptoxln to mottled gran., occ foss., with pp to patchy stain, vsl odor, sl sfo on break, tight; 60" spl - AA
70' spl - trashy; Sh: pred. dark red-brn, lesser med to dark gray, black carbon. fissile
Sh: very predom. red-brn
Ls: influx lt gray, tan predom. cryptoxln and offwhite, tan mic-vfxln dense, subchalky IP; some offwhite mottled with red shale filled microfractures
CFS 4090' 30" spl - Ls: various cryptoxln to sl mottled granular AA; Sh: some dark gray to black; 60" spl - Ls's AA; incr. red-brn shale
Sh: med to dark red-brn, with dark gray to black
Ls: flood offwhite, lt gray mic-vfxln dense, subchalky to occ chalky; lesser tan, lt gray gran., NVP, N.S.; one chip lt gray cryptoxln with patchy stain (cave?)
Ls: flood lt gray, lt brn vf-cryptoxln; lesser offwhite, lt gray mic-vfxln dense; 1-2 chips tan cryptoxln with spotty stain, no odor, nfo. ?cave?
Sh: influx various lt to med red, red-brn, green, lt to med gray, and lt gray soft clayey; common Ls's in spls
Sh: influx red-brn, brick red, and vc gray; Siltst: strong influx lt to med red and offwhite, vf sandy and calcar.
Ls: flood lt gray, tan cryptoxln and lesser offwhite, lt gray micxln dense, subchalky IP; decr. shale and siltst %
Ls: flood lt gray, tan some yellow micxln to fn gran., poor-NVP, N.S., occ foss.; one chip offwhite cryptoxln, NVP, with pp black stain, prob. slough
70' spl - Ls: mixed and mottled AA; new mottled tan/red gran. NVP, some mottled red/gray cryptoxln; Sh: good influx red-brn, lt to med gray, silty
Ls: lt to med brn cryptoxln to mottled gran. and offwhite, lt gray mic-vfxln dense; interbedded with Sh: med to dark red-brn, lt to med gray, trace maroon and yellow
90' spl - flood lt to med gray silty Ls and calcar. siltst
4200' spl - decr. silty Ls and calcar. siltst; influx med to dark red-brn shale and mottled tan, gray granular Ls, NVP, N.S.
10' spl - Sh: lt to med gray, med to dark red-brn, mostly silty

DST No. 2 Lansing "J"
Interval: 4026'-4060'
Times: 30-60-30-60
IFP: surface blow, built to 1/2"
ISIP: no return blow
FFP: no blow
FSIP: no return blow
Recovery: 5' mud with oil spots
FP: 16-20/22-28 SIP: 1301-1246
HP: 2035-1912 BHT: 116 deg. F

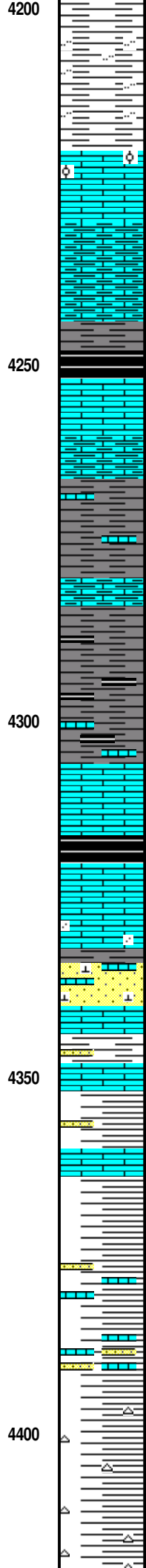
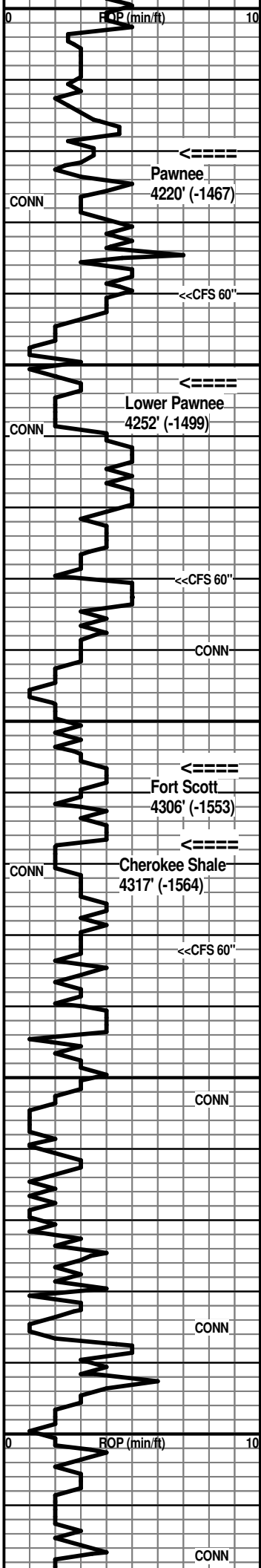
CFS 4040' 60" spl - decr. shale %; Ls: mix tan, lt gray cryptoxln and mottled tan, lt brn, lt gray gran. NVP, N.S.; common offwhite, tan mic-vfxln dense

Morgan Mud Check at 4060'
3:50 PM on 10-4-2013
wt vis wl pH chl
9.0 66 6.0 10.5 1300
PV YP GelS lcm solids
23 23 10/28 6# 5.7%

7:00 AM at 4095' on 10-5-2013

BKC 4108' (-1355)
Morgan Mud Check at 4101'
7:30 AM on 10-5-2013
wt vis wl pH chl
9.0 55 5.6 10.0 1000
PV YP GelS lcm solids
20 20 10/25 6# 5.0%

Marmaton 4145' (-1392)



20' spl - Sh: various red-brn, lt to med gray, occ lt purple, silty IP

30' spl - influx Ls: mix tan, offwhite fn gran. with micxn matrix; some lt gray cryptoxln; occ tan oolitic/gran., NVP, N.S.

40' spl - Ls: some lt to med gray cryptoxln; flood lt to med gray shaly Ls to very calcar. or dolomitic gray shale

CFS 4240' 30" spl - very predom. shaly dense Ls and calcar. to dolomitic shale AA; occ lt to med gray cryptoxln Ls; 60" spl - AA

AA

Sh: dark gray to black subfissile IP

70' spl - Ls: tan, lt brn fnxn, NVP and offwhite micxn to fn gran. with subchalky matrix

80' spl - Ls: tan, lt brn AA with lt to med gray shales

CFS 4280' 30" spl - predom. Sh: med to dark gray and black subfissile to fissile; fairly minor tan, offwhite mic-vfxln Ls; 60" spl - Sh: predom. dark gray; some Ls: med to dark gray vf-cryptoxln

90' spl - Sh: dark gray to black with dark gray very shaly Ls

4300' spl - Sh: dark gray to black carbon., subfissile IP

10' spl - shales AA

20' spl - Sh: predom. dark gray to black carbon.; minor tan vfxln Ls

30' spl - flood Ls: lt to med brn, some gray cryptoxln, mottled IP; some offwhite mic-vfxln dense

CFS 4332' 30" spl - Sh: dark gray to black with influx dark red-brn, dark maroon; Ls: mix lt to med brn, lt gray cryptoxln and lt brn, lt gray gran. with micxn matrix; 60" spl - Ls: predom. mottled lt brn fn to med gran., sl sandy IP, poor-NVP, N.S.; var. cryptoxln AA

Ls: mix various cryptoxln and mottled lt brn gran, sandy IP

50' spl - Ls: mix AA with some mottled red-brn and yellow cryptoxln; sl influx Sst: lt red, offwhite, tan fn-med grnd. with Ls clasts; some very coarse loose qtz grains, N.S.

Ls: mix med brn, red, gray cryptoxln and tan, lt brn gran. sandy; some offwhite fg Sst with Ls clasts; interbedded vc gray and red-brn shales

Sh: med to dark red-brn, lt gray, lt gray-green, some dark yellow; with various med brn and gray cryptoxln Ls's; occ offwhite, tan fg sl glauc. Sst

Sh: multi-colored AA with thin cryptoxln Ls's AA

90' spl - Sh: very predom. med to dark red-brn, sandy IP; some lt to med gray, black, mottled yellow/red; scatt. Ls and Sst

4400' spl - predom. shales AA, some purple and mottled green/maroon

Sh: various red-brn and vc gray; occ dark yellow, mixed and mottled; incr. Ls: lt gray, red, offwhite cryptoxln; some Sst: mottled tan/yellow fg, shaly; occ yellow and tan opq chert

Sh: multi-colored AA with influx Chert: yellow, tan, offwhite sharp, opq, mottled IP, N.S.

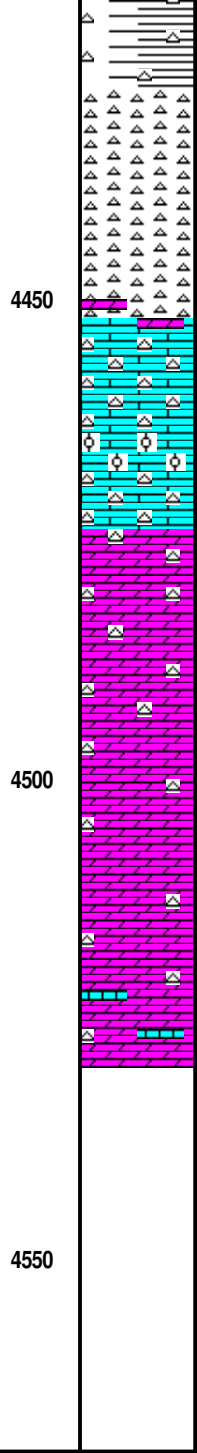
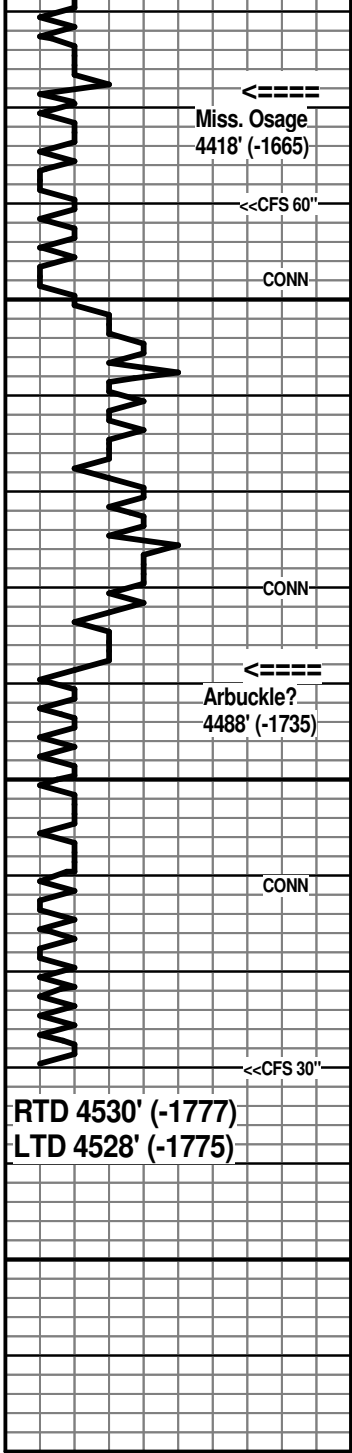
40' spl - Shales AA with med influx Chert: tan, offwhite

Pawnee 4220' (-1467)

Lower Pawnee 4252' (-1499)

Fort Scott 4306' (-1553)

Cherokee Shale 4317' (-1564)



40' spl - Shales AA with good influx Chert: tan, offwhite, yellow, mottled IP; some offwhite partially weath. with pp por., N.S.

CFS 4440' 30" spl - Chert: predom. offwhite, tan, some med to dark yellow, opq, sharp; offwhite partially weath. to weath. with pp and some vug. por., N.S.; 60" spl - Chert: various AA

Chert AA

60' spl - Chert: AA with some Dolo: offwhite, tan fnxn with good interxn por., N.S.

70' spl - very cherty AA with influx Ls: med to dark brn cryptoxln

80' spl - flood Ls: tan oolitic to gran. with spar matrix and tan, lt brn sl gran., NVP; lesser offwhite mic-vfxln dense; one chip tan oolitic with dead black stain in microfractures, no odor, nfo

90' spl - flood Dolo: lt brn, lt gray vf-cryptoxln, NVP, N.S.; with offwhite, lt gray opq chert

4500' spl - Dolo: tight AA

Dolo: tan fnxn, sucrosic IP with good interxn por., N.S.; cherty

Dolo: tan, lt brn fnxn with interxn and some vug. por., N.S.; cherty AA

Dolo: AA

Dolo: AA with sl influx white chalky Ls

Because of the lack of any commercial shows of oil or gas in this well, as evidenced from sample examination, DST results and open hole log evaluation, the Zodrow #1-26 was plugged as a dry hole.

Respectfully submitted,

Wesley D. Hansen
Petroleum Geologist
Kansas License No. 418

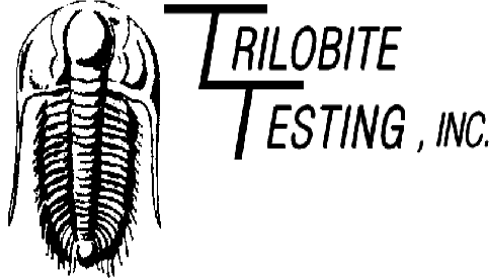
Miss. Osage 4418' (-1665)

7:00 AM at 4465' on 10-6-2013

Arbuckle? 4488' (-1735)

RTD reached at 9:30 AM on 10-6-2013
CFS 30' - short trip 10-12 stands -
CTCH 1 1/2 hours - Survey - TOFL

RTD 4530' (-1777)
LTD 4528' (-1775)



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N. Water STE 300
Wichita KS 67202

ATTN: Wes Hansen

Zodrow #1-26

26-6s-29w Sheridan KS

Start Date: 2013.10.03 @ 18:10:00

End Date: 2013.10.04 @ 02:00:20

Job Ticket #: 55130 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.08 @ 11:27:36



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company
 250 N. Water STE 300
 Wichita KS 67202
 ATTN: Wes Hansen

26-6s-29w Sheridan KS

Zodrow #1-26

Job Ticket: 55130

DST#: 1

Test Start: 2013.10.03 @ 18:10:00

GENERAL INFORMATION:

Formation: **LKC " D "**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 20:11:20 Tester: Ryan Nichols
 Time Test Ended: 02:00:20 Unit No: 41
 Interval: **3936.00 ft (KB) To 3950.00 ft (KB) (TVD)** Reference Elevations: 2753.00 ft (KB)
 Total Depth: 3950.00 ft (KB) (TVD) 2742.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

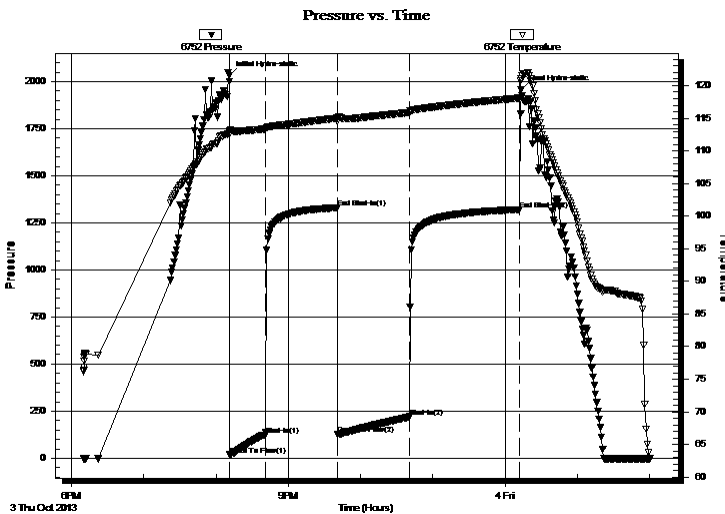
Serial #: 6752

Inside

Press @ Run Depth: 220.02 psig @ 3937.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.03 End Date: 2013.10.04 Last Calib.: 2013.10.04
 Start Time: 18:10:01 End Time: 02:00:20 Time On Btm: 2013.10.03 @ 20:11:10
 Time Off Btm: 2013.10.04 @ 00:13:09

TEST COMMENT: 30 IF - Surface blow built to BoB @ 25 mins
 60 ISI - No return
 60 FF - Surface blow started @ 3 mins built to BoB @ 29 mins
 90 FSI - No return

PRESSURE SUMMARY



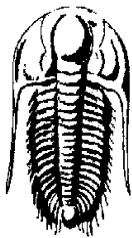
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2030.19	113.05	Initial Hydro-static
1	18.10	112.72	Open To Flow (1)
30	123.65	113.34	Shut-In(1)
90	1330.30	115.02	End Shut-In(1)
90	126.62	114.51	Open To Flow (2)
150	220.02	115.88	Shut-In(2)
241	1320.25	118.10	End Shut-In(2)
242	1956.20	121.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
424.00	MCW - 5%M - 95%W	3.69
50.00	MCW w/oil spots - 5%M - 95%W	0.70

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

26-6s-29w Sheridan KS

250 N. Water STE 300
Wichita KS 67202

Zodrow #1-26

Job Ticket: 55130

DST#: 1

ATTN: Wes Hansen

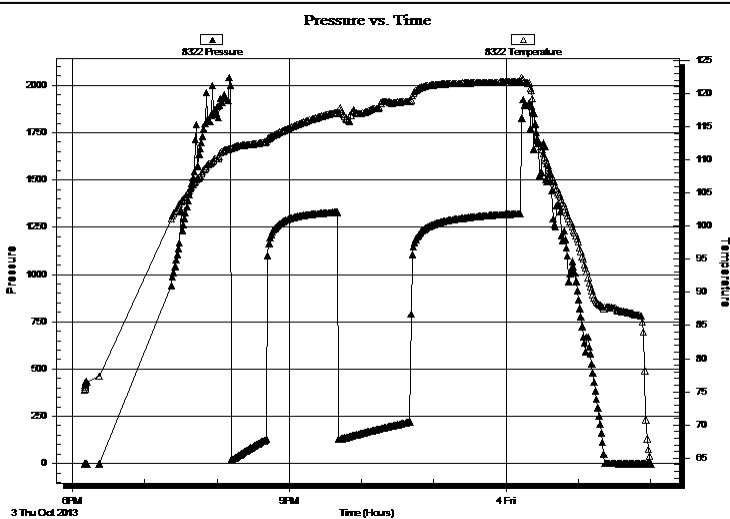
Test Start: 2013.10.03 @ 18:10:00

GENERAL INFORMATION:

Formation: **LKC " D "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:11:20
 Time Test Ended: 02:00:20
 Interval: **3936.00 ft (KB) To 3950.00 ft (KB) (TVD)**
 Total Depth: 3950.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Reference Elevations: 2753.00 ft (KB)
 2742.00 ft (CF)
 KB to GR/CF: 11.00 ft
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Nichols
 Unit No: 41

Serial #: 8322 Outside
 Press @ RunDepth: psig @ 3937.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.03 End Date: 2013.10.04 Last Calib.: 2013.10.04
 Start Time: 18:10:01 End Time: 02:00:20 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 IF - Surface blow built to BoB @ 25 mins
 60 ISI - No return
 60 FF - Surface blow started @ 3 mins built to BoB @ 29 mins
 90 FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
424.00	MCW - 5%M - 95%W	3.69
50.00	MCW w/oil spots - 5%M - 95%W	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

26-6s-29w Sheridan KS

250 N. Water STE 300
Wichita KS 67202

Zodrow #1-26

Job Ticket: 55130

DST#: 1

ATTN: Wes Hansen

Test Start: 2013.10.03 @ 18:10:00

Tool Information

Drill Pipe:	Length: 3679.00 ft	Diameter: 3.80 inches	Volume: 51.61 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 52.83 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	3936.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	41.00 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			3910.00	
Shut In Tool	5.00			3915.00	
Hydraulic tool	5.00			3920.00	
Jars	5.00			3925.00	
Safety Joint	2.00			3927.00	
Packer	5.00			3932.00	27.00 Bottom Of Top Packer
Packer	4.00			3936.00	
Stubb	1.00			3937.00	
Recorder	0.00	6752	Inside	3937.00	
Recorder	0.00	8322	Outside	3937.00	
Perforations	10.00			3947.00	
Bullnose	3.00			3950.00	14.00 Bottom Packers & Anchor

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

26-6s-29w Sheridan KS

250 N. Water STE 300
Wichita KS 67202

Zodrow #1-26

Job Ticket: 55130

DST#: 1

ATTN: Wes Hansen

Test Start: 2013.10.03 @ 18:10:00

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:

7500 ppm

Viscosity: 74.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
424.00	MCW - 5%M - 95%W	3.688
50.00	MCW w/oil spots - 5%M - 95%W	0.701

Total Length: 474.00 ft Total Volume: 4.389 bbl

Num Fluid Samples: 0

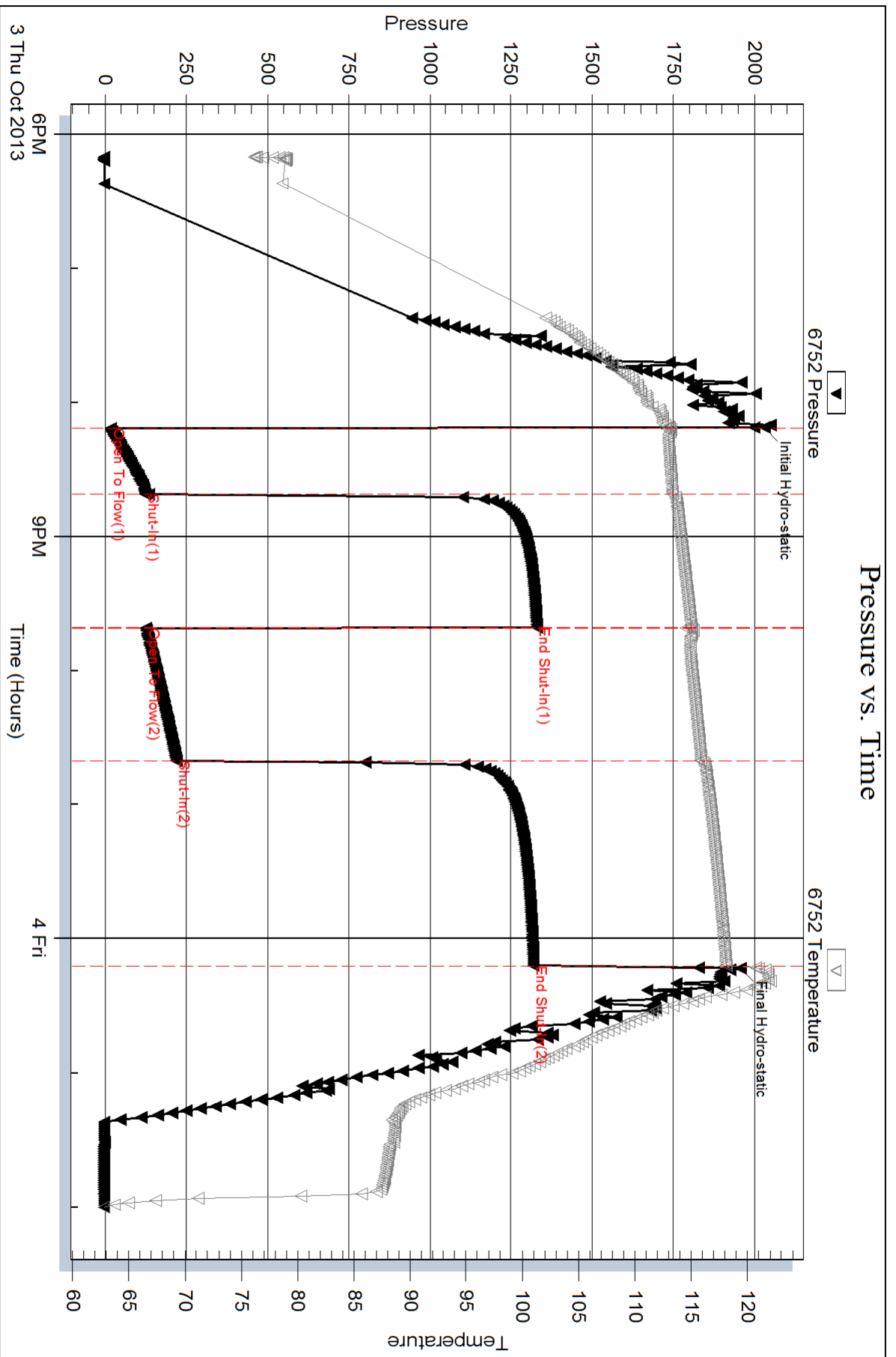
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = 9.55 @ 61 DEG F

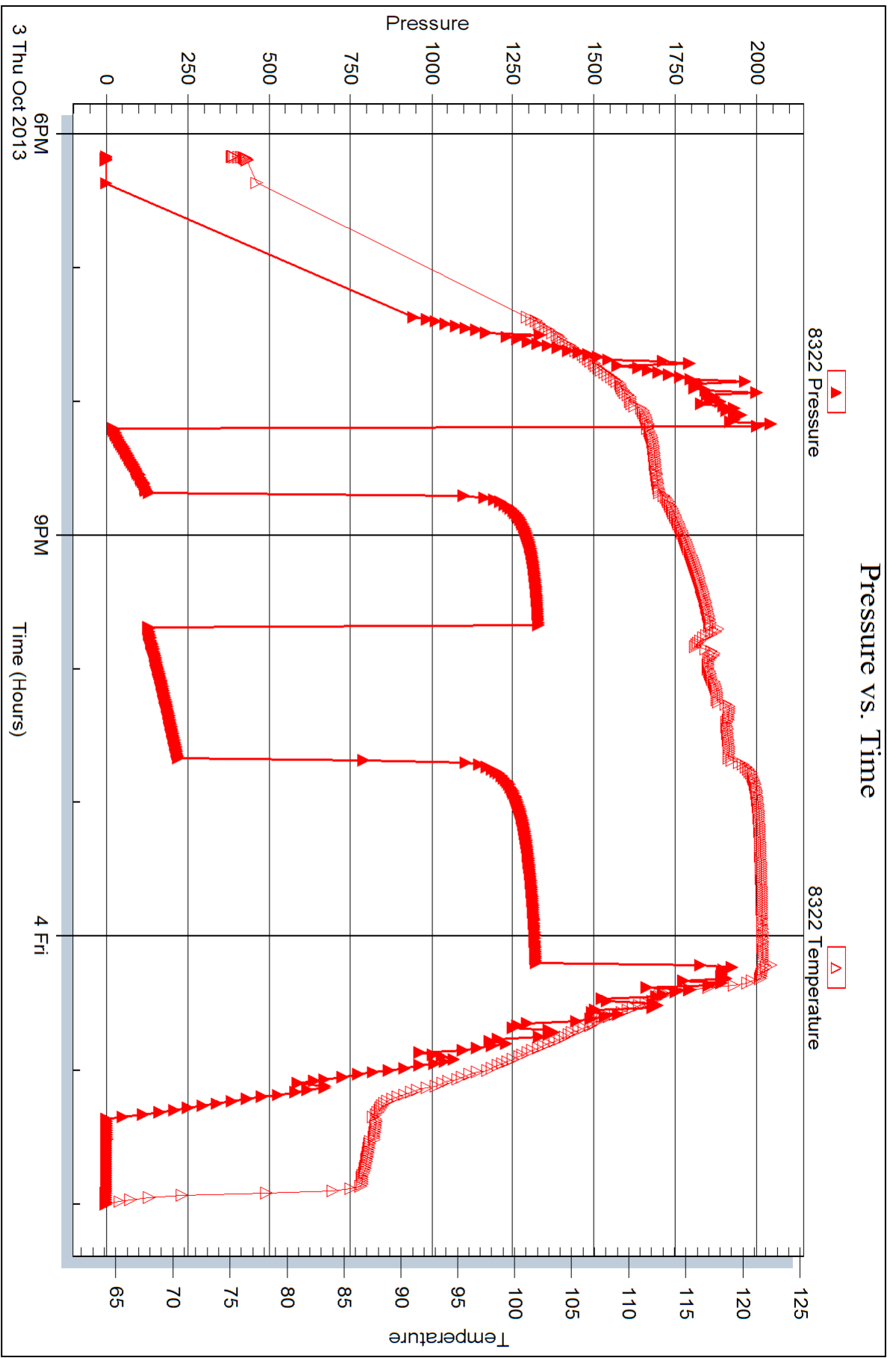


Serial #: 8322

Outside Murfin Drilling Company

Zodrow #1-26

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55130

Printed: 2013.10.08 @ 11:27:38



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N. Water STE 300
Wichita KS 67202

ATTN: Wes Hansen

Zodrow #1-26

26-6s-29w Sheridan KS

Start Date: 2013.10.04 @ 17:10:00

End Date: 2013.10.05 @ 00:45:20

Job Ticket #: 55131 DST #: 2

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

Printed: 2013.10.08 @ 11:26:57



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company

26-6s-29w Sheridan KS

250 N. Water STE 300
Wichita KS 67202

Zodrow #1-26

Job Ticket: 55131

DST#: 2

ATTN: Wes Hansen

Test Start: 2013.10.04 @ 17:10:00

GENERAL INFORMATION:

Formation: **LKC " J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:46:10

Time Test Ended: 00:45:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 41

Interval: 4026.00 ft (KB) To 4060.00 ft (KB) (TVD)

Reference Elevations: 2753.00 ft (KB)

Total Depth: 4060.00 ft (KB) (TVD)

2742.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 28.36 psig @ 4027.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.04

End Date:

2013.10.05

Last Calib.: 2013.10.05

Start Time: 17:10:01

End Time:

00:45:20

Time On Btm: 2013.10.04 @ 19:45:40

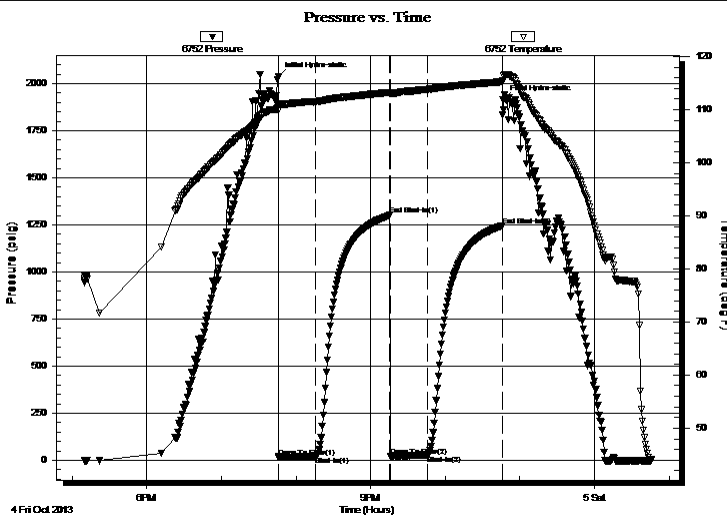
Time Off Btm: 2013.10.04 @ 22:46:20

TEST COMMENT: 30 IF - Surface blow built to 1/2"

60 ISI - No return

30 FF - No blow

60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2034.63	110.74	Initial Hydro-static
1	15.66	110.82	Open To Flow (1)
31	20.32	111.44	Shut-In(1)
90	1300.87	113.24	End Shut-In(1)
91	21.60	113.00	Open To Flow (2)
121	28.36	113.81	Shut-In(2)
180	1245.70	115.23	End Shut-In(2)
181	1911.93	115.34	Final Hydro-static

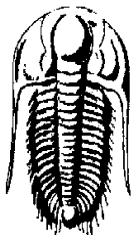
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w/oil spots	0.02

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company
250 N. Water STE 300
Wichita KS 67202
ATTN: Wes Hansen

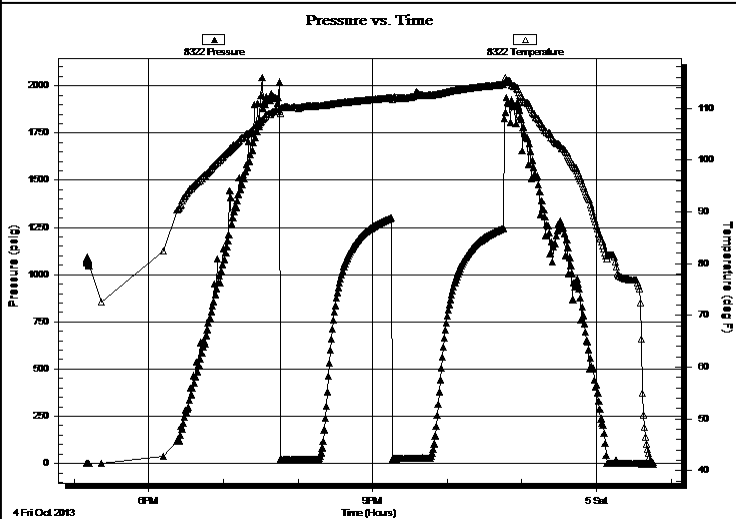
26-6s-29w Sheridan KS
Zodrow #1-26
Job Ticket: 55131 **DST#: 2**
Test Start: 2013.10.04 @ 17:10:00

GENERAL INFORMATION:

Formation: LKC " J "			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 19:46:10		Tester: Ryan Nichols	
Time Test Ended: 00:45:20		Unit No: 41	
Interval: 4026.00 ft (KB) To 4060.00 ft (KB) (TVD)		Reference Elevations: 2753.00 ft (KB)	
Total Depth: 4060.00 ft (KB) (TVD)		2742.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 11.00 ft	

Serial #: 8322	Outside			
Press @ Run Depth: psig @	4027.00 ft (KB)	Capacity:	8000.00 psig	
Start Date: 2013.10.04	End Date: 2013.10.05	Last Calib.:	2013.10.05	
Start Time: 17:10:01	End Time: 00:45:20	Time On Btm:		
		Time Off Btm:		

TEST COMMENT: 30 IF - Surface blow built to 1/2"
60 ISI - No return
30 FF - No blow
60 FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w/oil spots	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

26-6s-29w Sheridan KS

250 N. Water STE 300
Wichita KS 67202

Zodrow #1-26

Job Ticket: 55131

DST#: 2

ATTN: Wes Hansen

Test Start: 2013.10.04 @ 17:10:00

Tool Information

Drill Pipe:	Length: 3771.00 ft	Diameter: 3.80 inches	Volume: 52.90 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 54.12 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	4026.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	61.00 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			4000.00	
Shut In Tool	5.00			4005.00	
Hydraulic tool	5.00			4010.00	
Jars	5.00			4015.00	
Safety Joint	2.00			4017.00	
Packer	5.00			4022.00	27.00 Bottom Of Top Packer
Packer	4.00			4026.00	
Stubb	1.00			4027.00	
Recorder	0.00	6752	Inside	4027.00	
Recorder	0.00	8322	Outside	4027.00	
Perforations	30.00			4057.00	
Bullnose	3.00			4060.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

26-6s-29w Sheridan KS

250 N. Water STE 300
Wichita KS 67202

Zodrow #1-26

Job Ticket: 55131

DST#: 2

ATTN: Wes Hansen

Test Start: 2013.10.04 @ 17:10:00

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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w/oil spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

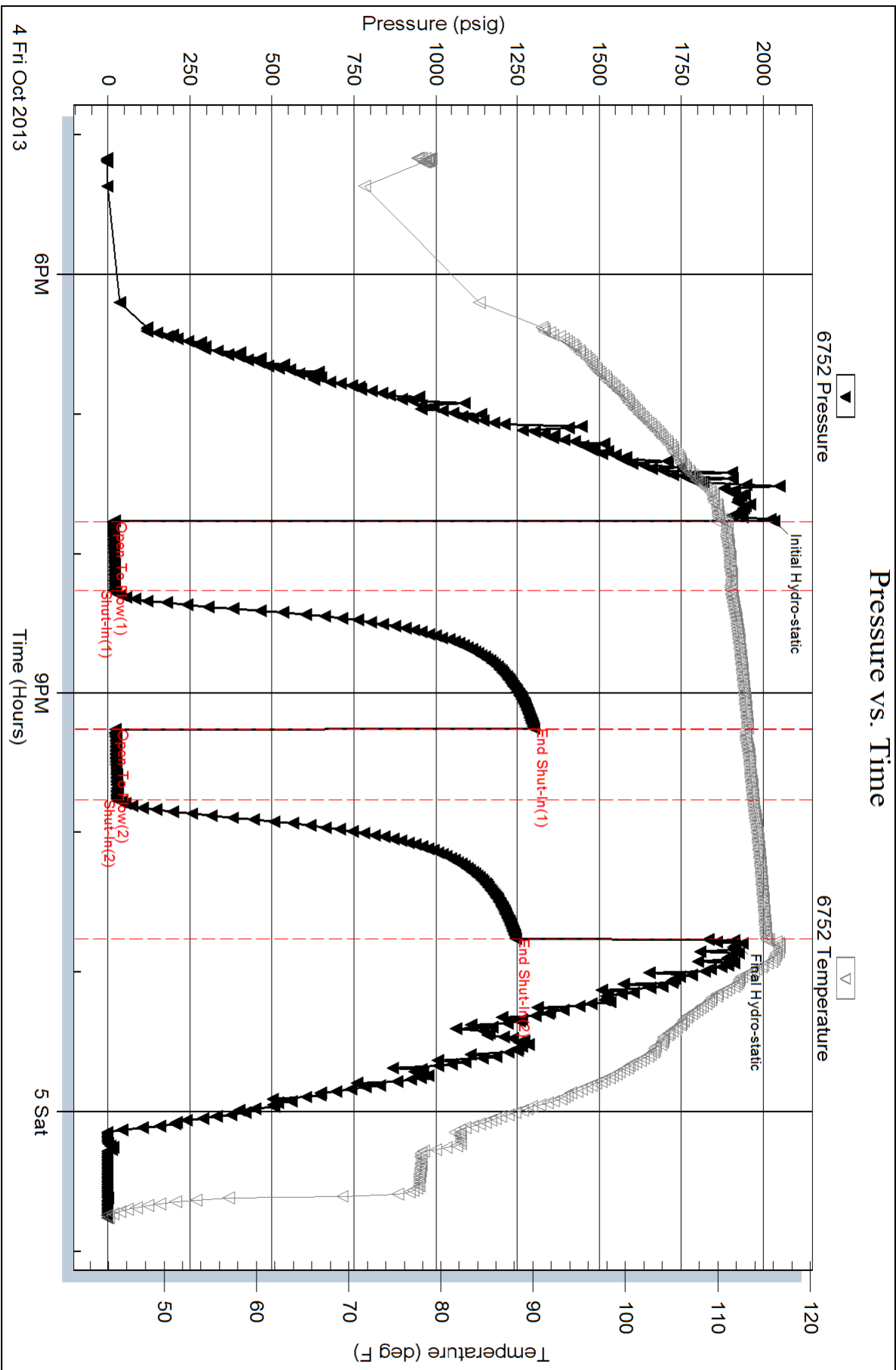
Serial #: 6752

Inside

Murfin Drilling Company

Zodrow #1-26

DST Test Number: 2

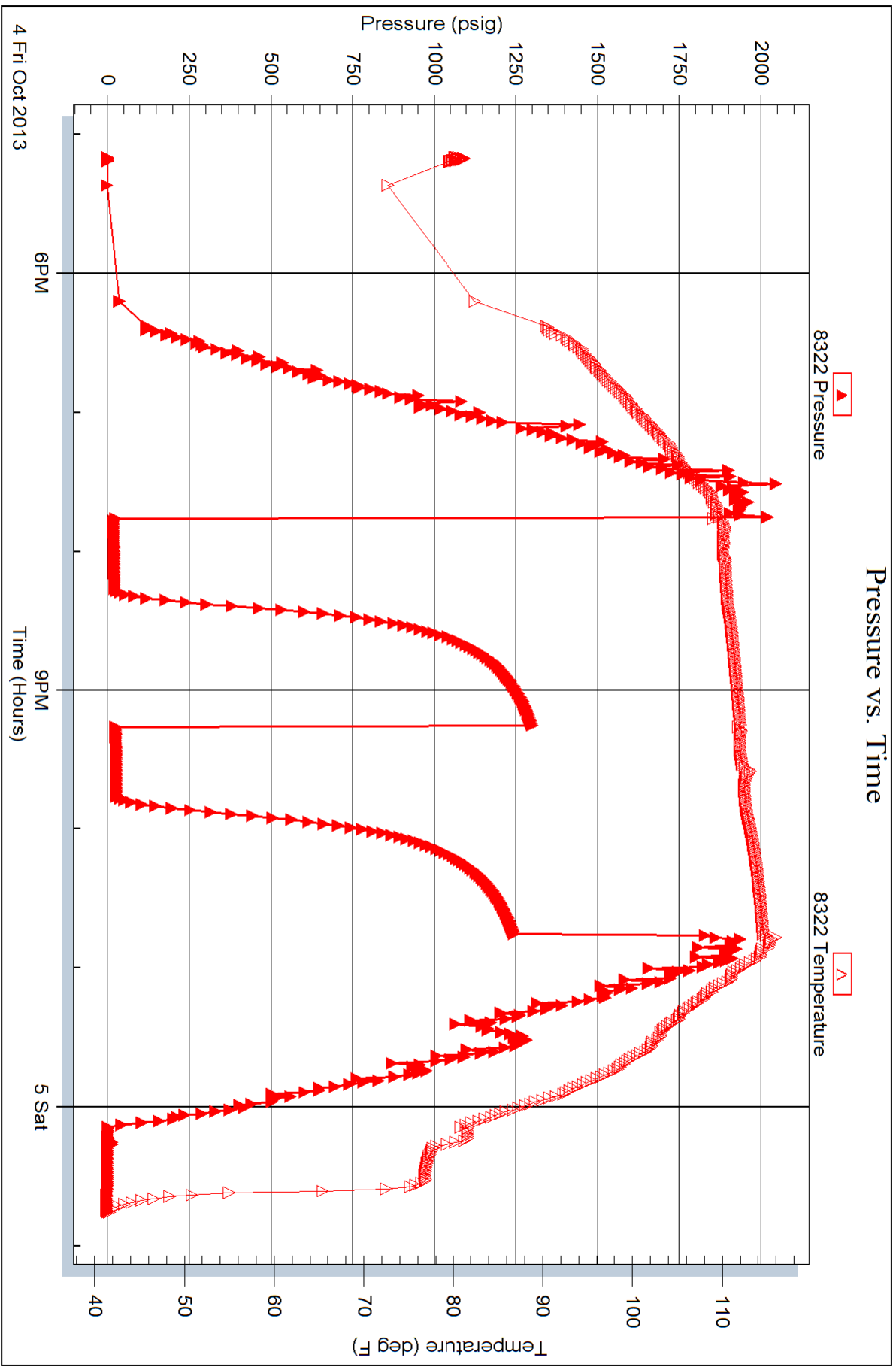


Serial #: 8322

Outside Murfin Drilling Company

Zodrow #1-26

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 55131

Printed: 2013.10.08 @ 11:26:59



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55130**

Well Name & No. Zodrow # 1-26 Test No. 1 Date 1/3/13
 Company Murfin Drilling Company Elevation 2753 KB ~~2742~~ GL 2742
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Wes Hansen Rig Murfin # 2
 Location: Sec. 26 Twp. 6S Rge. 29W Co. Sheridan State KS

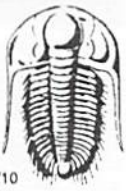
Interval Tested 3936' - 3950 Zone Tested LKC 11D"
 Anchor Length 14' Drill Pipe Run 3674' Mud Wt. 9.1
 Top Packer Depth 3931 Drill Collars Run 234' Vis 74
 Bottom Packer Depth 3936 Wt. Pipe Run 0' WL 5.6
 Total Depth 3950 Chlorides 1300 ppm System LCM 6
 Blow Description IF - Surface blow built to Bob @ 25 mins
ISI - No return
FF - Surface blow started @ 3 mins built to Bob @ 29 mins
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>MCW w/oil spots</u>		<u>95</u>	<u>5</u>	
<u>424</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	

Rec Total 474' BHT 118° Gravity — API RW 9.55 @ 61° F Chlorides 7500 ppm

(A) Initial Hydrostatic <u>2030</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>17:00</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:10</u>
(C) First Final Flow <u>124</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:11</u>
(D) Initial Shut-In <u>1330</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>00:11</u>
(E) Second Initial Flow <u>127</u>	<input checked="" type="checkbox"/> Hourly Standby <u>NC</u>	T-Out <u>02:00</u>
(F) Second Final Flow <u>220</u>	<input checked="" type="checkbox"/> Mileage <u>48 RT</u> 74.40	Comments _____
(G) Final Shut-In <u>1320</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1956</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1549.40</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1549.40</u>	

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55131**

Well Name & No. Zodrow #1-26 Test No. 2 Date 10/4/13
 Company Murfin Drilling Company Elevation 2753 KB 2742 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Wes Hansen Rig Murfin # 2
 Location: Sec. 26 Twp. 65 Rge. 29W Co. Sheridan State OKS

Interval Tested 4026 - 4060 Zone Tested LKC "J"
 Anchor Length 34' Drill Pipe Run 3771' Mud Wt. 9.0
 Top Packer Depth 4021 Drill Collars Run 235' Vis 66
 Bottom Packer Depth 4026 Wt. Pipe Run 0' WL 6.0
 Total Depth 4060 Chlorides 1300 ppm System LCM 6

Blow Description IF - Surface blow built to 1/2"
ISI - No return
FF - No blow
FST - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud whirl spots</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 5' BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2035 Test 1250 T-On Location 18:30
 (B) First Initial Flow 16 Jars 250 T-Started 17:10
 (C) First Final Flow 20 Safety Joint 75 T-Open 19:45
 (D) Initial Shut-In 1301 Circ Sub NC T-Pulled 22:45
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 00:45
 (F) Second Final Flow 28 Mileage 48 RT 148.80 Comments Loaded tools
 (G) Final Shut-In 1246 Sampler _____ 13:15 on 10/6/13
 (H) Final Hydrostatic 1912 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 800
 Final Flow 30 Day Standby 1d 12.5h Total 2523.80
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1723.80

Approved By _____ Our Representative [Signature]

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



PO Box 93999
Southlake, TX 76092

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

INVOICE

*WCCY.
Prod-LH*

Invoice Number: 138951
Invoice Date: Sep 30, 2013
Page: 1

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	61141	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Sep 30, 2013	10/30/13

Quantity	Item	Description	Unit Price	Amount
		Zodrow #1-26		
170.00	CEMENT MATERIALS	Class A Common	17.90	3,043.00
6.00	CEMENT MATERIALS	Chloride	64.00	384.00
178.49	CEMENT SERVICE	Cubic Feet	2.48	442.66
370.35	CEMENT SERVICE	Ton Mileage	2.60	962.91
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		

Subtotal	7,164.32
Sales Tax	279.30
Total Invoice Amount	7,443.62
Payment/Credit Applied	
TOTAL	7,443.62

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

\$ 2,507.51

ONLY IF PAID ON OR BEFORE

Oct 25, 2013

Handwritten signature

ALLIED OIL & GAS SERVICES, LLC 061141

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley KS

DATE <u>9/30/13</u>	SEC. <u>26</u>	TWP. <u>6</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION <u>5:00 pm.</u>	JOB START <u>6:00 pm.</u>	JOB FINISH <u>6:30 pm.</u>
LEASE <u>Zadrow</u>	WELL# <u>1-26</u>	LOCATION <u>Selden 2E 3 1/4 S 1/2 E</u>			COUNTY <u>Sheridan</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>Sinto</u>					

CONTRACTOR Murfin 2
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 221
 CASING SIZE 8 5/8 DEPTH 221
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 13.12 bbl water
 EQUIPMENT _____

OWNER Same
 CEMENT AMOUNT ORDERED 170 sks Com 3% CC
 COMMON 170 sks @ 17.90 3043.00
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE 6 sks @ 64.00 384.00
 ASC _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING 17849 ft³ @ 2.48 442.66
 MILEAGE 8.23 ton x 45 @ 7.60 962.91
 TOTAL 4832.57

PUMP TRUCK CEMENTER Paul Beaver
 # 120 HELPER Tyler Flipse
 BULK TRUCK # 1000 DRIVER Alex (TWS)
 BULK TRUCK # _____ DRIVER _____

REMARKS:
Mix 170 sks Com 3% CC
Displace with water
Cement did circulate

Thank
You

CHARGE TO: Murfin Drilling Co. LLC
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE
 DEPTH OF JOB 221
 PUMP TRUCK CHARGE 1512.25
 EXTRA FOOTAGE _____ @ _____
 MILEAGE MILV 45 @ 7.70 346.50
 MANIFOLD swedge @ 275.00
MILV 45 @ 4.40 198.00
 _____ @ _____
 TOTAL 2331.75

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 Arnos Colborn
 SIGNATURE [Signature]

SALES TAX (If Any) _____
 TOTAL CHARGES 7,164.32
 DISCOUNT 2,507.51 IF PAID IN 30 DAYS
4,656.80 Net.

PO Box 93999
Southlake, TX 76092

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

*UCC's
Prod - LH*

INVOICE

Invoice Number: 139127
Invoice Date: Oct 6, 2013
Page: 1

Now Includes:



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

Customer ID	Field Ticket #	Payment Terms	
Murfin	61120	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Oct 6, 2013	11/5/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Zodrow #1-26		
160.00	CEMENT MATERIALS	Class A Common	17.90	2,864.00
110.00	CEMENT MATERIALS	Pozmix	9.35	1,028.50
10.00	CEMENT MATERIALS	Gel	23.40	234.00
66.00	CEMENT MATERIALS	Flo Seal	2.97	196.02
289.98	CEMENT SERVICE	Cubic Feet	2.48	719.15
522.64	CEMENT SERVICE	Ton Mileage	2.60	1,358.86
1.00	CEMENT SERVICE	Plug to Abandon	1,250.00	1,250.00
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	202.41	202.41
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Wayne Mc Ghghy		

21590

Subtotal	8,397.44
Sales Tax	684.39
Total Invoice Amount	9,081.83
Payment/Credit Applied	
TOTAL	9,081.83

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

\$ 2,939.10 *2/2/13*

ONLY IF PAID ON OR BEFORE

Oct 31, 2013

ALLIED OIL & GAS SERVICES, LLC 061120

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

Cockley, KS
10-7-13 10-21-13

DATE <i>10-6-13</i>	SEC. <i>26</i>	TWP. <i>6</i>	RANGE <i>29</i>	CALLED OUT	ON LOCATION <i>10:00 PM</i>	JOB START <i>2:00 AM</i>	JOB FINISH <i>2:30 AM</i>
LEASE <i>Zadrow</i>		WELL # <i>1-26</i>	LOCATION <i>Selden 2E 3 1/4 S 1/2 E</i>		COUNTY <i>Shepherd</i>	STATE <i>KS</i>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR *Martin &* OWNER *Same*

TYPE OF JOB <i>PTA</i> HOLE SIZE <i>7 7/8</i> T.D. <i>41530</i> CASING SIZE _____ DEPTH _____ TUBING SIZE _____ DEPTH _____ DRILL PIPE _____ DEPTH _____ TOOL _____ DEPTH _____ PRES. MAX _____ MINIMUM _____ MEAS. LINE _____ SHOE JOINT _____ CEMENT LEFT IN CSG. _____ PERFS. _____ DISPLACEMENT _____	CEMENT AMOUNT ORDERED <i>270 SKS 60/40 P02</i> <i>470 gal 1/4 # F16-seal</i> COMMON <i>160 SKS @ 17.90 2864.00</i> POZMIX <i>110 SKS @ 9.35 1028.50</i> GEL <i>10 SKS @ 23.40 234.00</i> CHLORIDE _____ @ _____ ASC _____ @ _____ F16-seal <i>667 @ 2.97 196.02</i> _____ @ _____ _____ @ _____ _____ @ _____ _____ @ _____ _____ @ _____ HANDLING <i>289.98 cu ft @ 2.72 788.50</i> MILEAGE <i>11.61 ton x 4.5 mi x 2.50 1358.25</i> TOTAL <i>6400.27</i>
---	--

EQUIPMENT

PUMP TRUCK CEMENTER *Kelly Stabel*
 # *422* HELPER *Wayne McGloughy*
 BULK TRUCK
 # *396 & 306* DRIVER *Juan (rus)*
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

*Got to location, safety meeting
 rigged up, mixed cement & plugs &
 displaced
 50 @ 4168
 25 @ 2500
 100 @ 1660
 40 @ 270 30 RH 20 MH
 10 @ 40 MH Pipe Plug *Thank You Kelly & crew**

CHARGE TO: *Martin*
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<i>4168</i>
PUMP TRUCK CHARGE	<i>1250.00</i>
EXTRA FOOTAGE	@ _____
MILEAGE M.I.H.V. <i>4.5m</i>	<i>770 346.50</i>
MANIFOLD	@ _____
M.I.L.V. <i>4.5</i>	<i>470 198.00</i>
	@ _____

TOTAL *1794.50*

PLUG & FLOAT EQUIPMENT

1 - <i>8 5/8 Warden Plug</i>	<i>202.50 202.50</i>
	@ _____
	@ _____
	@ _____

TOTAL *202.50*

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 *Arturo Cabezas*
 SIGNATURE *Arturo Cabezas*

SALES TAX (if Any) _____
 TOTAL CHARGES *8,396.95*
 DISCOUNT *2,938.93* IF PAID IN 30 DAYS
5,458.01 Net.