



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1159163
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: _____



1159163

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> <i>(Submit ACO-4)</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

September 20, 2013

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

Re: ACO1
API 15-039-21179-00-00
Urban 1-3
SW/4 Sec.03-02S-29W
Decatur 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
 Urban #1-3
 1850' FSL 1650' FWL
 Sec. 3-T2S-R29W
 2806' KB

MDCI
 Erma Inc. #1-5
 900'FSL 780'FEL
 Sec. 5-T2S-R29W
 2795' KB

Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2528	+278	+25	2528	+278	+25	2542	+253
B/Anhydrite	2560	+246	+27	2560	+246	+27	2576	+219
Neva	3205	-399	+20	3206	-400	+19	3214	-419
Topeka	3589	-783	+20	3593	-787	+16	3598	-803
Heebner	3753	-947	+18	3748	-942	+13	3760	-965
Lansing	3796	-990	+18	3796	-990	+18	3686	-1008
Stark	3963	-1157	+14	3963	-1157	+14	3849	-1171
BKC	4088	-1202	+20	4014	-1208	+14	3900	-1222
RTD	4100						3930	
LTD				4101			3930	

ROBERT STOLZLE

CONSULTING PETROLEUM GEOLOGIST

6214 G. 281st ST, W. Coonard, MN 55002 - 0240 (910) 704 - 2400

DRILLING TIME AND SAMPLE LOG

OPERATOR: **Murfin Drilling Co., Inc.**
 LEASE: **Urban** WELL NO.: **1-3**
 FIELD: **Wildcat**
 LOCATION: **1850'FSL, 1650'FWL (W/2 SW 1/4 SW)**
 SEC.: **3** TWP: **2S** RANGE: **29W**
 COUNTY: **Dacatur** STATE: **KS**
 API NO.: **15-039-21179-00-00**

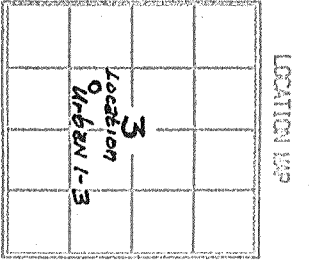
CONTRACTOR: **Murfin Drilling Co., Rig #8**
 COMPLETED: **May 31, 2013** CORRECTED: **6/6/13**
 ROTARY TOTAL DEPTH: **4100'** LOG TOTAL DEPTH: **4101'**
 GEOLOGICAL SUPERVISION FROM: **3100'** to: **T.D.**
 MUD-UP DEPTH: **2982'** MUD TYPE: **Chemical Polymer**

FORMATION	SINGLE		LOG		STRUCTURAL DEVIATION
	TOP	SECTA	TOP	SECTA	
Stone Canal Anhy.	2528	(+278)	2529	(+277)	+24'
Base of Anhydrite	2560	(+246)	2560	(+246)	+27'
Nava Ls.	3205	(-399)	3206	(-400)	+19'
Foraker Ls.	3323	(-517)	3324	(-518)	+22'
Stotlar Ls.	3479	(-673)	3479	(-673)	+20'
Topakka Fm.	3589	(-783)	3593	(-787)	+16'
Dead Ls.	3137	(-931)	3137	(-931)	+22'
Heabner Shale	3753	(-947)	3750	(-944)	+21'
Lansing Group	3796	(-990)	3796	(-990)	+18'
Stark Shale	3963	(-1157)	3963	(-1157)	+14'
Base of Ks. (Clysp.)	4063	(-1207)	4016	(-1210)	+12'
Total Depth	4100		4101		

ELEVATIONS
 KB **2806'**
 GL **2801'**
 *Elevations are all from KB

CASING RECORD
 SURFACE: **8 5/8", 23#**
@ 263', 2255XRX
 PRODUCTION: **None-R/A**

WIRE LINE SURVEYS
 Blount Energy
 Services: Dual Comp.
 Porosity Dual
 Induction, BHC
 Sonic and Micro
 Resistivity Logs
 Well Full.



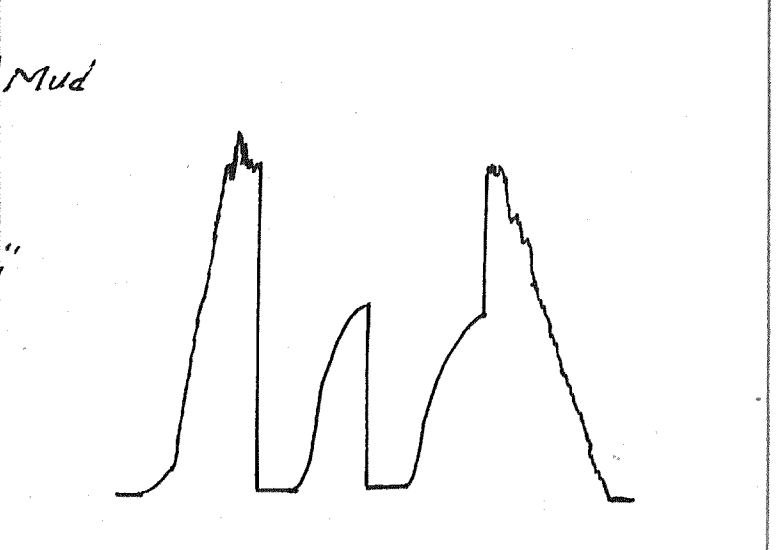
Reference Well for Structural Comparison: **Murfin Erma Inc. #1-5, SE5725-R29W**
 Comments and Recommendations: **Recommended Well be plugged & abandoned.**

DST # 1 ZONE: Lansing A' and D' Zones
 INTERVAL: 3752'-3860'

Pressures:	Time	Press.	RECOVERY
1. Initial Hydrostatic		1830 psi	30' Oil spotted Mud
2. Initial Flow: Start	0	21 psi	(100%) Mud
3. Initial Flow: End	30	34 psi	
4. Initial Shut-in: End	60	1051 psi	Blow Desc.
5. Final Flow: Start	0	37 psi	I.F. - 1/4" built to 3/4"
6. Final Flow: End	30	48 psi	TSI - No blow
7. Final Shut-in: End	60	999 psi	F.F. - No blow
8. Final Hydrostatic		1783 psi	F.S.I. - No blow

BHT: 109°F
 Rv: _____

DST # 1 8520 Chert
 Interval: 3752'-3860' Depth: 3753'

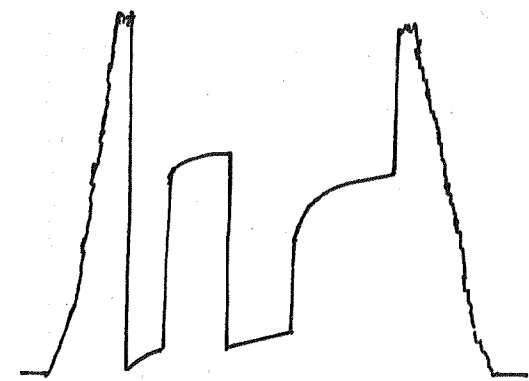


DST # 2 ZONE: L-KC 'H', 'J' & 'K' Zones
 INTERVAL: 3896'-4,000'

Pressures:	Time	Press.	RECOVERY
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DST # 2 8520 Chert
 Interval: 3896'-4,000' Depth: 3897'

1. Initial Hydrostatic	1992	psi	40' Oil Spilled Water Cut Mud
2. Initial Flow: Start	0	25	psi (50% water)
3. Initial Flow: End	30	114	psi 126' Muddy Water
4. Initial Shut-in: End	60	1236	psi (70% water)
5. Final Flow: Start	0	119	psi 243' Muddy Water
6. Final Flow: End	60	220	psi (80% water)
7. Final Shut-in: End	90	1123	psi
8. Final Hydrostatic	1900	psi	Blow Desc.



BHT: 115°F
 Rv: .214 @ 58°F
 Chl. 42,000 ppm.

I.F. - 1" @ 7 1/4"
 I.S.I. - No blow
 F.F. - BOB 45 min.
 F.S.I. - No blow

ABBREVIATIONS USED

ROCK TYPES:

- Lo - Limestone
- Sh - Shale
- So - Sandstone
- Silt - Siltstone
- Co - Conglomerate
- Chrt - Chert
- Qtz - Quartzite
- Gron - Granite
- Dol - Dolomite
- Chlk - chalky

COLOR:

- Vh - White
- Crm - Cream
- Clr - Clear
- Rd - Red
- Gnn - Green
- Gry - Gray
- Blk - Black
- Mot - Mottled

HARDNESS:

- Sft - Soft
- M.sft - Moderately soft
- Hrd - Hard
- V.Hrd - Very hard

FABRIC:

- Fn.grn - Finegrained
- VFG - Very fine grained
- Med - Medium
- Co - Coarse
- Dst - Detrital
- Foss - Fossiliferous
- Crn - Crystalline
- Mxn - Microcrystalline
- Dol - Dolitic
- Opal - Opaloid
- Mat - Matrix

OTHER TERMS:

- Fl - Fluorescence (of oil)
- min fl - mineral fluorescence
- pyr - pyritic
- oleu - oleonitic
- carb - carbonaceous
- stn - stain (of oil)
- cut - oil cut
- AA - as above
- pr - porosity
- NSFOC - no stain, fluorescence, odor, or cut (of oil)
- smpl - sample
- perm - permeability
- F.O. - free oil
- vug - vugular
- tr - trace
- w/ - with

MODIFIERS:

- gd - Good
- fr - Fair
- pr - Poor
- ex - excellent
- v - very
- w - well
- tr - trace
- occ - occasional
- vis - visible
- N - no
- gran - granular
- intergran - intergranular
- pp - pinpoint
- dd - dead
- ggy - gassy

TEXTURE:

- Dns - Dense
- Cly - Clayey
- Frl - Friable
- Earth - Earthy
- Hack - Hackly
- Fiss - Fissile
- Vit - Vitreous
- Vug - Vugular
- Mic - Micritic

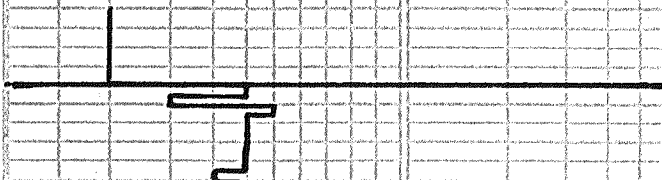
OIL SHOWS

- Weak Oil Show
- ⊙ Fair Oil Show
- ⊕ Good Oil Show
- ⊗ Excellent Oil Show

Rate of Penetration
 in Minutes per Foot

1/2 1 2 3 4 5 6 7 8 9 10

2500



Stone Corral
 Ahhydrec
 (+2778)

2550

Base of
Anhydrite
(+246')

2600

3100

3150

3200

Sh. rd. brn. - ft. gry. v. sft. clayey,
occ. sft. + slty. - sandy

Sh. A.A., more sft. - sandy.
fr. Ss. gry. m. hrd. - hrd. dns., fn.
grnd., pr. sftd., w. cmtd.
No vis. ϕ NSFDC

Sh. rd. brn., sft. clayey - earthy,
sandy - v. sandy - slts., tr. blu.
grn. sh.

Sh. A.A.
fr. Ls. gry., hrd., dns., v. fg,
rare foss., sandy N ϕ NSFDC

Ss. crm. - tan, m. sft. + fri. - hrd.,
dns., mod. - fn. grnd., mod. -
pr. sftd., v. w. cmtd., calc. cmtd.
to v. sandy Ls. No vis. ϕ NSFDC
calc. Ss. A.A. No vis. ϕ NSFDC

Sh. rd. brn., v. sft. + clayey - sft.,
earthy - sandy

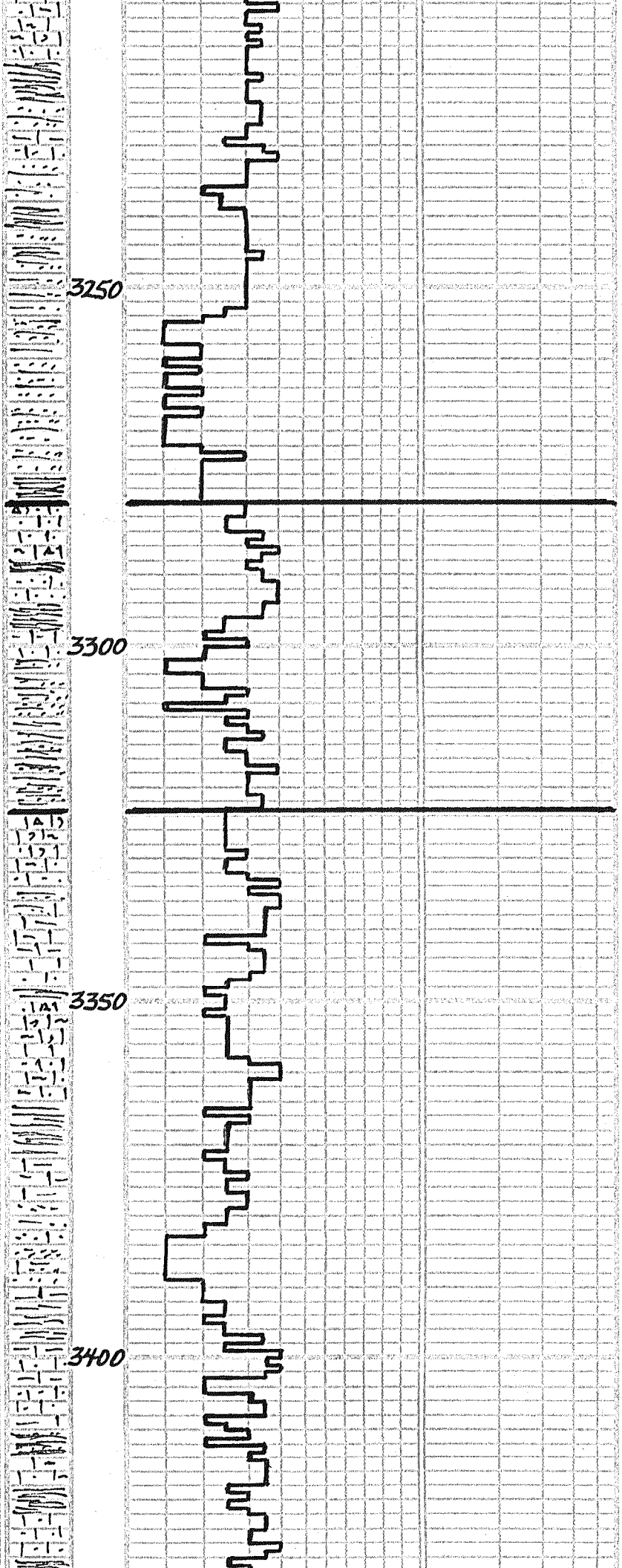
Sh. A.A.
Ss. crm. - gry., hrd. - m. hrd., fn. grnd.,
calc. - v. calc. - sandy Ls., v. w.
cmtd., mod. sftd. N ϕ NSFDC

Ss. A.A. N ϕ NSFDC
sft. rd. brn., sft. + clayey - m. hrd.,
earthy, sandy - v. sandy.

Sh. A.A., tr. blu. gry., hrd., pr.
fr. Ss. tan, hrd., dns., fn. grnd.,
v. w. cmtd. N ϕ NSFDC

Ls. crm. - gry., hrd., dns., tr. foss.,
sandy - v. sandy - calc. Ss., hrd.,
dns., v. w. cmtd., mod. sftd., sftd.
r. m., fn. grnd., No vis. ϕ NSFDC

Nov. Ls



Calc. Ss: A.A. NΦ NSFOC
 Ls: gry.-dk. gry., hrd., dns., VFG-mxln.
 tr. foss., shly-dk. gry. sh. 100m.
 NΦ NSFOC
 Ls: crm.-dk. gry., hrd., dns., VFG,
 mxln., sndy.-v. sndy., sh. sndy.-
 v. shly. NΦ NSFOC
 tr. sh. gry., m. hrd., dns., earthy
 Ls: A.A. NΦ NSFOC
 sh. rd. brn., sft. clay-m. sft.,
 earthy., occ. sndy.-v. sndy

Sh: rd. brn., sft. clayey-m. sft.,
 earthy, sndy.-v. sndy
 Ls: crm., hrd., dns., VFG-mxln.,
 sndy.-v. sndy. NΦ NSFOC
 tr. Ls: A.A. NΦ NSFOC
 Sh: rd. brn., v. sft. clay.-sft.,
 earthy, sndy.-v. sndy.

Sh: A.A., v. sndy.
 tr. Ss: tan, hrd., dns., v. w. contd.
 tr. grnd., mod-w. sftd. NΦ NSFOC
 tr. Ss: A.A. NΦ NSFOC
 sh: rd. brn.-lt. gry., v. sft.-sft.,
 clayey, earthy., occ. sndy.-
 v. sndy.

Red Eagle Ls.
 (-474')

Ls: crm., hrd., dns., VFG-mxln., tr.
 chly., sndy.-v. sndy.-calc. ss.
 tr. blk. chly. NΦ NSFOC
 occ. sh. dk. gry., m. hrd., hachly
 Ls: gry.-dk. gry., hrd., dns., VFG-
 mxln., mic. to ss., abun.
 sh. sndy. NΦ NSFOC

Ls: AA, tr. crm., foss. w/ pr. pp. Φ
 NSFOC
 tr. Ss: crm.-hrd.-m. hrd., tr. grnd.
 mod. sftd., v. w. contd. NΦ NSFOC
 Ss: gry.-dk. gry., hrd.-m. hrd., dns.,
 VFG, shly.-shly., NΦ NSFOC
 Sh: rd. brn.-mar.-grt. sft., clayey-
 m. hrd., dns., hachly., sndy.
 Sh: A.A.

Fotakar Ls.
 (-517')

Ls: crm.-tan, hrd., dns., VFG-mxln.,
 tr. rd. chly., foss. NΦ NSFOC
 occ. rexlcd.
 Ls: A.A. w/ Ls: gry.-dk. gry., hrd.,
 dns., VFG-mxln., foss., abun. sh.
 sndy., tr. sndy. NΦ NSFOC

Mud Check @ 3430'
 M. wt. 8.7 lb/gal.
 Vis. 69 sec/1qt.
 W.L. 5.2 cc/30Min.
 Chl. 1/100 P.P.M.
 Solids 2.9%
 LCM 6 lbs./bbl.

Ls: dk. gry.-crm., hrd., dns., VFG-
 mxln., occ. mic., tr. chly., occ. foss.
 abun. sh. sndy., tr. sndy.
 NΦ NSFOC

Ls: crm.-gry., hrd., dns., VFG-mxln.
 mic., tr. chly., tr. sndy., occ.
 foss., tr. sft. chiky, occ. sh.
 sndy. NΦ NSFOC
 Ls: gry.-dk. gry.-tr. crm., hrd., dns.
 VFG-mxln., sh. sndy., sndy.-
 shly., tr. foss. NΦ NSFOC

Ls: A.A. NΦ NSFOC
 Sh: rd. brn., v. sft., clayey

Sh: A.A.
 Ls: crm.-gry., hrd., dns., VFG-
 mxln., mic., sndy.-v. sndy.,
 tr. foss. NΦ NSFOC
 Ls: A.A., occ. sft. chiky.
 NΦ NSFOC
 Sh: rd. brn., sft.-m. sft., clayey-
 earthy., occ. v. sndy.

Ls: crm.-lt. gry., hrd., dns., VFG-
 mxln., tr. rd-w. chly., sndy.-
 v. sndy.-VFG. calc. ss.
 NΦ NSFOC

Ls: A.A., tr. rd. sh. sndy. NΦ NSFOC
 Sh: rd. brn., sft.-m. sft., clayey-
 earthy., tr. sndy.
 Ls: crm., hrd., dns., VFG-mxln., mic.,
 occ. sndy., occ. ylw-rd. sh.
 sndy. NΦ NSFOC

3450

Ls: crm, gry, hrd, dns, VFG, VFG
 - mxln, tr. sandy, tr. sh. stnd.
 var. & foss. NΦ NSFDC
 tr. sh. rd. brn, sft. clay - earthy
 Ls: A.A. rd - ylw. sh. stnd. NΦ NSFDC
 Sh: A.A. tr. dk. gry.
 tr. ss. gry, hrd, dns, fn - VFG, wl
 cmtd, w. sft. NΦ NSFDC
 Ls: crm - gry, hrd, dns, VFG - mxln,
 mic. tr. ch, foss. NΦ NSFDC
 Sh: rd. brn - lt. gry. sft. - 1 sft. &
 clayey, earthy, sly. - sandy
 Sh: rd. brn - lt. gry, v. sft., clayey
 - m. sft. earthy, tr. dk. gry sh.

3500

Sh: A.A. occ. maroon.
 Ls: crm - lt. gry, hrd, dns, mxln,
 mic. tr. foss. & sandy.
 NΦ NSFDC
 Sh: gry - dk. gry, m. sft. - m. hrd.,
 earthy - hackly
 Ls: crm - lt. gry, hrd, dns, VFG -
 mxln, occ. sandy NΦ NSFDC
 Ls: crm, hrd, dns, VFG - mxln,
 sandy - v. sandy. NΦ NSFDC
 Sh: rd. brn - v. sft., clayey - earthy
 occ. sandy.
 Sh: A.A., tr. dk. gry, hack.
 Ls: crm, hrd - m. sft., dns, VFG, occ.
 ylw - rd. stnd., occ. foss., sandy
 - v. sandy. NΦ NSFDC
 Ls: A.A., occ. lt. gry. NΦ NSFDC
 Sh: rd. brn, sft., clayey - m. sft.,
 earthy, occ. sandy - sly.
 Ls: crm - lt. gry, hrd, dns, VFG - mxln,
 occ. foss., sandy, ylw - rd.
 sh. stnd. NΦ NSFDC
 Sh: A.A.
 Ls: A.A. NΦ NSFDC

Stotler Ls.
(-673')

3550

Sh: rd. brn, sft. & clayey - m. sft.
 earthy, sandy.
 Ls: crm - lt. gry, hrd - sft. chky,
 VFG - mxln, mic. sandy. NΦ NSFDC
 Sh: rd. brn, sft., clayey - earthy
 tr. Sh: A.A.
 Ls: crm, hrd, dns - sft. chky,
 VFG - mxln, mic. foss., sandy.
 tr. sh. stnd. NΦ NSFDC
 Ls: A.A. NΦ NSFDC

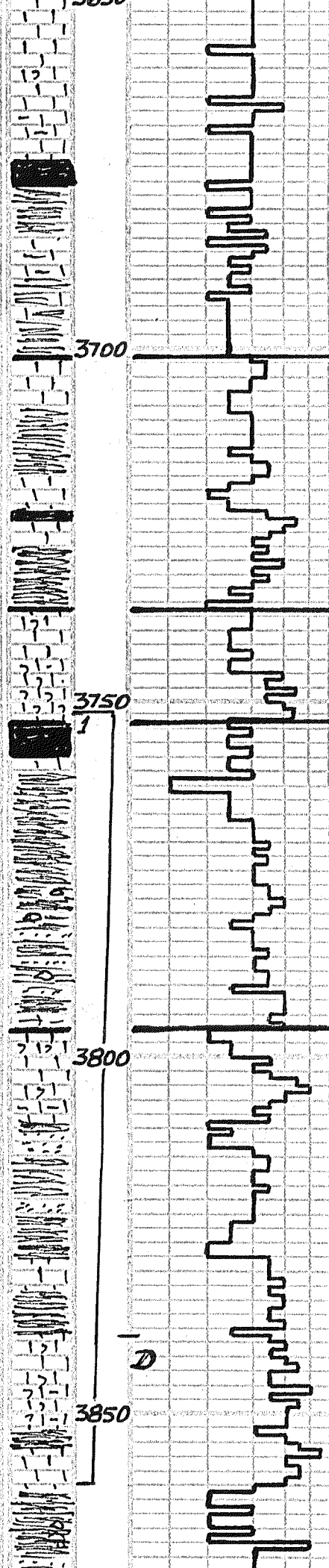
3600

Sh: rd. brn, sft., clayey, occ.
 m. sft., earthy, sandy.
 Sh: A.A. occ. ls. & ch. pebb.
 Ls: crm, hrd, dns, VFG - mxln,
 mic. rd. sh. stnd., rare foss.
 tr. ch. NΦ NSFDC
 Ls: A.A. NΦ NSFDC
 Sh: rd. brn, sft. & clayey - m. sft.,
 dns, sandy - sly., earthy, occ.
 ls. pebb.
 Ls: crm - lt. gry, hrd, dns, VFG -
 mxln, mic., abun. rd. sh. stnd.,
 occ. foss., tr. sandy. NΦ NSFDC

Topock Fm.
(-783')

3650

Ls: crm, hrd, dns, occ. sft. chky,
 VFG - mxln, tr. mic., abun. rd.
 sh. stnd., occ. foss. NΦ NSFDC
 Ls: A.A. NΦ NSFDC
 Sh: rd. brn, sft., earthy - clayey
 tr. ss. crm, hrd - m. sft. sly.,
 fn - VFG, mod - w. sft., w. cmtd NΦ
 Sh: rd. brn, sft., clay - earthy,
 occ. sandy - v. sandy - sly.
 Sh: A.A.
 Ls: crm - lt. gry, hrd, dns,
 VFG - mxln, mic., occ. sft.
 & chky. NΦ NSFDC
 Ls: crm, lt. gry, hrd - sft. &
 chky, VFG - mxln, mic., occ.
 foss. NΦ NSFDC



Ls: crm., hrd., dns., VEG-mxln.,
occ. sft. & chiky., occ. foss.,
tr. pr. p.p. Vug. in part. Φ
occ. sandy-v. sandy NSFDC

Ls: crm., hrd.: sft. & chik., VEG-mxln.
mic., rare foss. N Φ NSFDC
tr. red.

Ls: crm. - lt. gry. A.A. occ. sh. stand.

Sh: gry., sft. - m. sft., clayey -
earthy

Sh: rd. brn. - gm., tr. blk carb.,
sft. clayey - m. sft., earthy

Ls: crm., hrd., dns., VEG-mxln., mic.
sh. stand., rare foss. N Φ NSFDC

Sh: rd. brn., v. sft., clayey, tr.
earthy, tr. dk. gry.

Ls: crm., hrd., dns., - sft. & chiky.,
VEG-mxln., occ. foss., occ. sandy,
N Φ NSFDC

Ls: crm., hrd. - sft. & chiky., VEG-
mxln., mic., occ. foss., tr. sandy,
occ. sh. stand., N Φ NSFDC

Sh: rd. brn., sft., clayey - earthy

Sh: rd. brn., v. sft., clayey - dk. gry.,
m. sft., earthy, occ. sandy.

Sh: A.A.

Ls: crm. - wh., sft., chiky., clayey, -
hrd., dns., VEG-mxln., mic.,
rare foss. N Φ NSFDC

Ls: crm., sft. & chiky. - hrd., dns.,
VEG-mxln., occ. v. foss., tr. v. pr.
p.p. Φ NSFDC

Lacombe Ls.
(-895')

Orad Ls.
(-931')

Ls: A.A., tr. sandy N Φ NSFDC

Sh: dk. gry. - blk., m. hrd. - m. sft.
dns., earthy, tr. carb.

Sh: rd. brn. - par. v. sft., clayey,
occ. m. sft., earthy

Sh: rd. brn., v. sft., clayey, tr. blk
gry., m. sft., earthy, occ. ls.
pebble.

Sh: rd. brn., v. sft., clayey, occ.
m. sft., earthy, sandy, tr. gry.
grn., tr. pebb.

**Heebner
Shale**
(-947')

DST #1 3752' -
3860'
Rec: 30' OSM
Deviation 1°

Ls: crm. - wh., sft. & chik. - hrd., dns., VEG-
mxln., occ. foss. w/ s. gpc. pr. fr.
tr. in part. Vug. Φ w/ brn. blk. stn., tr.
F.O., No odor, tr. cut & fl., 7 perm.

Ls: crm. - tan - occ. sh. stand. maroon,
hrd., dns., VEG-mxln., tr. foss.,
sh. stand. N Φ NSFDC

Sh: rd. brn. - gry. grn. sft. clayey -
m. sft., earthy, sandy.

tr. ss: tan, m. hrd., dns., occ. f. p.p.
mod. setd., w. cm to nod's. Φ NSFDC

Sh: rd. - rd. brn., sft. & clayey - m. sft.
earthy, sandy, tr. gry. sh.

Lansing Group
Weak Show
(-990')

Ls: wh. - crm. - hrd., dns., VEG-mxln.,
mic., occ. pr. - gd. Vug. Φ - lg. open
Vugs - tr. brn. stn., 1-2 dr. opst. O.
wk. cut & fl., wk. odor

Ls: wh., hrd., dns., mxln., mic.
rare foss., tr. sh. stand.
N Φ NSFDC

Ls: wh. - crm., hrd., dns., VEG-mxln.,
mic., tr. chiky., tr. foss., tr.
sh. stand. N Φ NSFDC

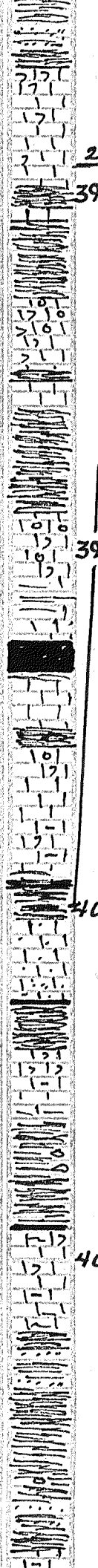
tr. Sh: gry. - dk. gry., m. sft., earthy

Sh: rd. brn. - blk. grn., m. sft., dns.,
sandy, earthy, occ. pebbles

Sh: P.A. - abn. pyr.

Weak Show

Mud Check @ 3860'
M.w. 9.2 lb/gal.
Vis. 72 sec/1qt.
w.l. 5.2 cc/30min
at 1,500 RPM



G
H
I
J
K
L

2
3900
3950
4000
4050

tr. ss: wh-tan, hrd, dns, med. grad.
sub. ang. w. contd., w. sand. ipr.
vis. ϕ NSFOC

○ Ls: wh-lt. gry, hrd, dns, VEG-mxln.
mic. occ. fr-VEG vug, ϕ , moldic?
wl. tr. lgr. vugs, 1 lb. brn. stn, wk odor
wk cut & fl., No F.O.

Weak Show

CF5 Ls: crm-lt. gry, hrd, dns, VEG-mxln.
rare foss. N ϕ NSFOC

Sh: rd. brn.-dk. gry, m. sft., earthy
-hackly, tr. sandy, pyr.

○ Ls: crm-lt. gry, m. sft., chky - hrd,
dns, mic., VEG-mxln, tr. foss +ool.
w/ ph. fr. vug, ϕ , some moldic?, lt. brn.
stn., v. wk odor, No F.O., fr. cut & fl.

Weak Show

Ls: crm-gry, hrd, dns, VEG-mxln,
mic., occ. m. sft., sli. chky, occ.
foss. + sh. std. N ϕ NSFOC

Ls: A.A. N ϕ NSFOC

CF5 Sh: rd. brn.-gry, sft. + clayey - m. sft.
earthy, pyr.

○ Ls: crm-wh, hrd - m. sft, dns, VEG
-mxln, mic., occ. ool. w/ fr. -pp. int
par. ϕ , lt. stn., wk odor, No F.O.

○ Ls: A.A., occ. fr, vug. Int part ϕ
dk-lt. brn stn., wk. odor, No
F.O., fr. cut & fl., poss. perm.

Fair Show

Ls: A.A. N ϕ NSFOC

CF5 Sh: rd. brn., tr. dk. gry - blk., sft.,
earthy, carb.

○ Sh: A.A.

○ Ls: exp., hrd, VEG, xln, ool. w/ pr. -gd.
int ool. ϕ + tr. lgr. vug, ϕ , unyf. brn. stn.
gd. cut & fl., No F.O., No odor

Fair Show

Ls: crm-lt. gry, hrd, dns, VEG-mxln.
mic., occ. sft. + chky, 1 pp. + foss.
+ool., abun. rd. sh. stn. N ϕ NSFOC

Ls: crm-tan-lt. gry, hrd, dns, VEG-
mxln, mic., tr. chky, tr. sh. std.,
rare foss. N ϕ NSFOC

CF5 tr. Sh: rd. brn., m. sft., earthy

Mud Check @ 4,000'
M.W. 9.3 lb./gal.
Vis. 62 sec./ft.
W.L. 6.4 cc/30min.
chl. 1,700ppm
solids 7.1%
LCM. 5#/bbl.

Base of Kansas
City Group
(-1207')

Sh: rd. brn.-gry, m. sft., dns,
earthy, occ. ls. pebble, sandy

Sh: A.A.

Ls: crm-tan-gry, hrd, dns, VEG xln,
foss. + foss., occ. sh. std.
N ϕ NSFOC

Sh: rd. brn.-gry - man, sft. + clay.
-m. sft., earthy, sandy.

Sh: lt. gry-rd. brn., sft., clayey - m. sft.
dns, earthy, occ. sandy - sly

Ls: crm-gry, hrd, dns, VEG-mxln, mc.
rare foss., sh. std. N ϕ NSFOC

Ls: A.A., occ. sandy. N ϕ NSFOC

Marmaton Gp.
(-1239')

Sh: rd. brn.-lt. dk. gry, sft. + clayey -
m. sft., earthy, occ. sandy.

Sh: rd. brn., v. sft., clay, m. sft.,
dns, occ. dk. gry, hackly

Sh: rd. brn., v. sft., clayey - earthy,
tr. dk. gry, hackly

Sh: rd. brn.-gry - man, sft. + clayey -
m. sft., earthy, silt, occ.
pebble

Sh: A.A.

solids 6.4%
LCM. 6#

DST #2
3896-4000'
REC. 40' 05" W.M.
369' M.W.
Strap 3.05' long
(No Correction)

Weak Show

Fair Show

Stark Shale
(-1157')

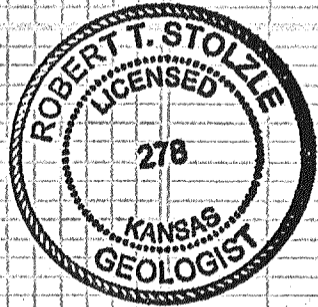
Fair Show

Mud Check @ 4,000'
M.W. 9.3 lb./gal.
Vis. 62 sec./ft.
W.L. 6.4 cc/30min.
chl. 1,700ppm
solids 7.1%
LCM. 5#/bbl.

Base of Kansas
City Group
(-1207')

Marmaton Gp.
(-1239')

4100



CFS

LS: CRM-gry. - MAP. stnd. (pred. idns.)
VFG-mxln. tr. sh. stnd.
NΦNSFOC

D.T.D. 4100'
L.T.D. 4101'

Deviation 1 1/4°

Robert Stolze
6/6/13



DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Bob Stolzle

Urban #1-3

3-2s-29w Decatur,KS

Start Date: 2013.06.04 @ 04:23:00

End Date: 2013.06.04 @ 12:08:30

Job Ticket #: 52638 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.07 @ 09:20:31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

3-2s-29w Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Urban #1-3

Job Ticket: 52638

DST#: 1

ATTN: Bob Stolzle

Test Start: 2013.06.04 @ 04:23:00

GENERAL INFORMATION:

Formation: **LKC "A-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:37:00

Time Test Ended: 12:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 3752.00 ft (KB) To 3860.00 ft (KB) (TVD)

Reference Elevations: 2806.00 ft (KB)

Total Depth: 3860.00 ft (KB) (TVD)

2801.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8520 Outside

Press @ Run Depth: 47.73 psig @ 3753.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.04

End Date:

2013.06.04

Last Calib.:

2013.06.04

Start Time: 04:33:00

End Time:

12:08:30

Time On Btm:

2013.06.04 @ 06:35:30

Time Off Btm:

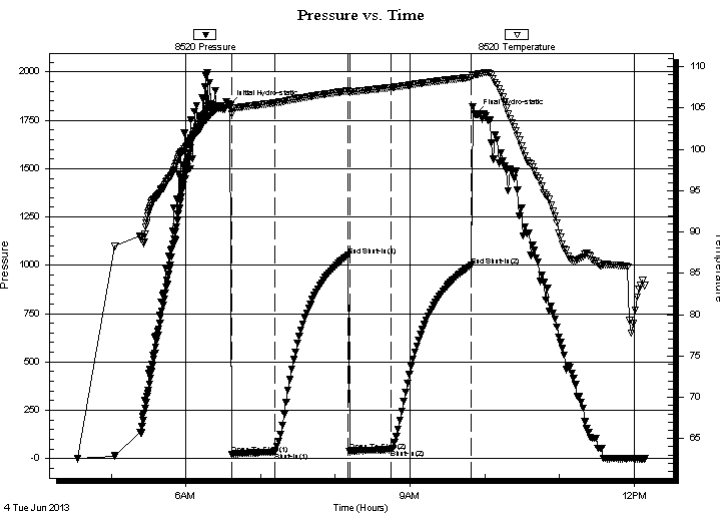
2013.06.04 @ 09:53:00

TEST COMMENT: 30 - IF- 1/4" Blow built to 3/4"

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1829.74	105.30	Initial Hydro-static
2	20.84	104.26	Open To Flow (1)
36	34.44	105.63	Shut-In(1)
95	1050.52	107.08	End Shut-In(1)
96	37.07	106.94	Open To Flow (2)
130	47.73	107.50	Shut-In(2)
194	999.49	108.71	End Shut-In(2)
198	1782.59	109.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OSM 100M (oil spots)	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

3-2s-29w Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Urban #1-3

Job Ticket: 52638

DST#: 1

ATTN: Bob Stolzle

Test Start: 2013.06.04 @ 04:23:00

Tool Information

Drill Pipe:	Length: 3575.00 ft	Diameter: 3.80 inches	Volume: 50.15 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.06 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3752.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.00 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			3733.00	
Shut In Tool	5.00			3738.00	
Hydraulic tool	5.00			3743.00	
Packer	5.00			3748.00	20.00 Bottom Of Top Packer
Packer	4.00			3752.00	
Stubb	1.00			3753.00	
Recorder	0.00	8354	Inside	3753.00	
Recorder	0.00	8520	Outside	3753.00	
Perforations	5.00			3758.00	
Change Over Sub	1.00			3759.00	
Drill Pipe	95.00			3854.00	
Change Over Sub	1.00			3855.00	
Bullnose	5.00			3860.00	108.00 Bottom Packers & Anchor

Total Tool Length: 128.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

3-2s-29w Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Urban #1-3

Job Ticket: 52638

DST#: 1

ATTN: Bob Stolzle

Test Start: 2013.06.04 @ 04:23:00

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: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OSM 100M (oil spots)	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

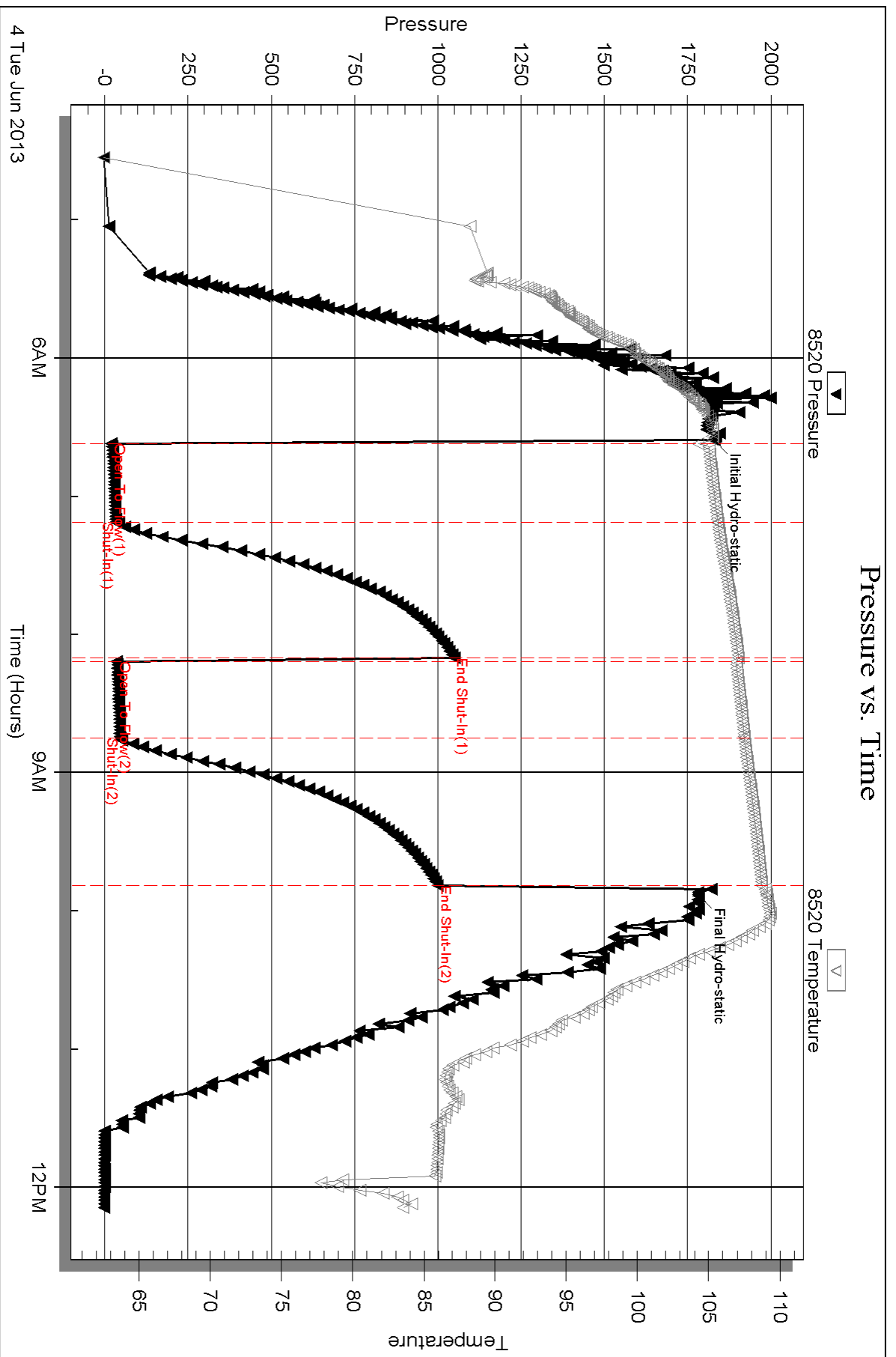
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



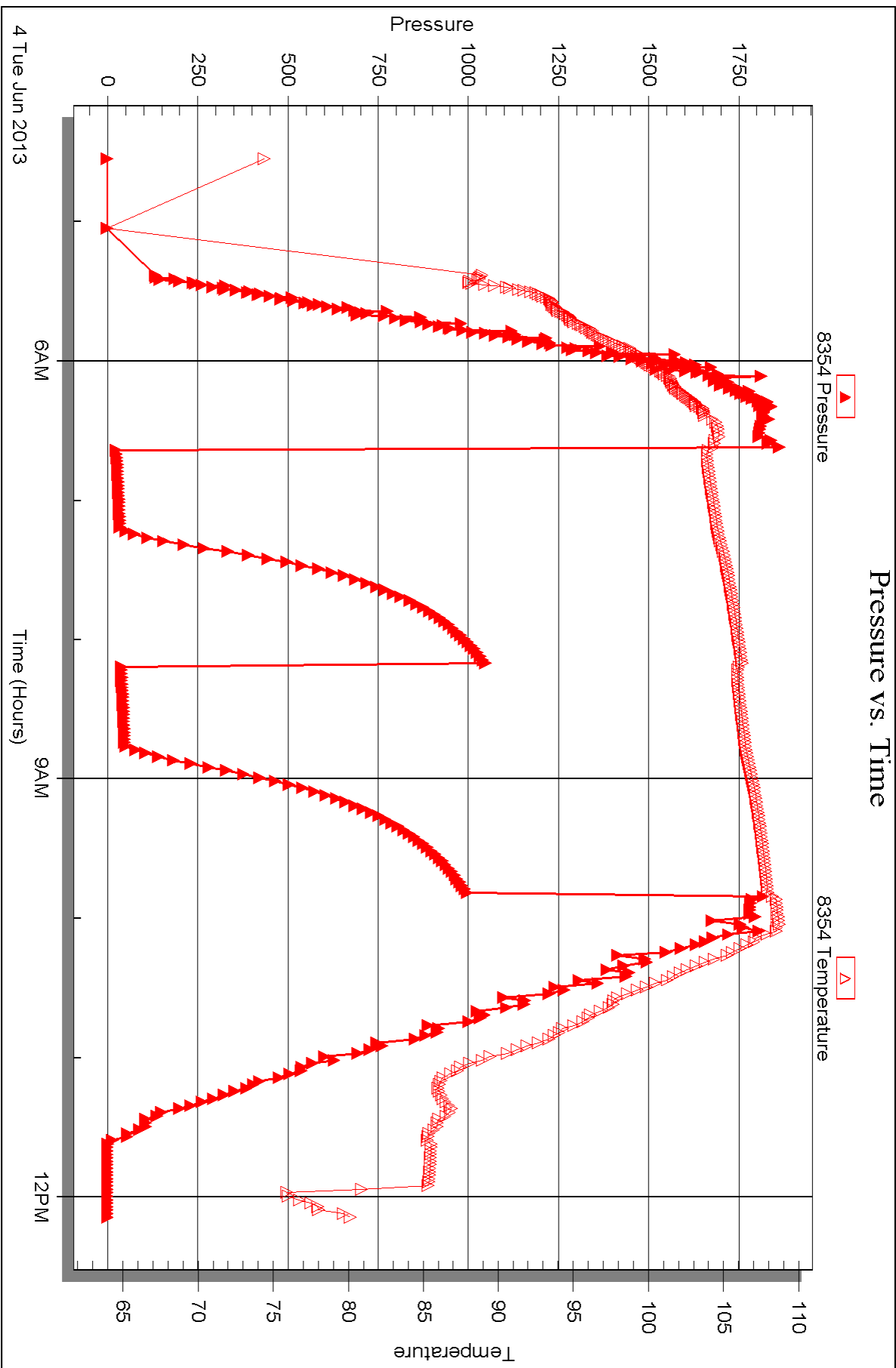
Serial #: 8354

Inside

Murfin Drilling Co., Inc.

Urban #1-3

DST Test Number: 1





DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Bob Stolze

Urban #1-3

3-2s-29w Decatur,KS

Start Date: 2013.06.05 @ 01:22:00

End Date: 2013.06.05 @ 09:59:30

Job Ticket #: 52639 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.07 @ 09:19:11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N Water STE #300
 Wichita, KS 67202
 ATTN: Bob Stolzle

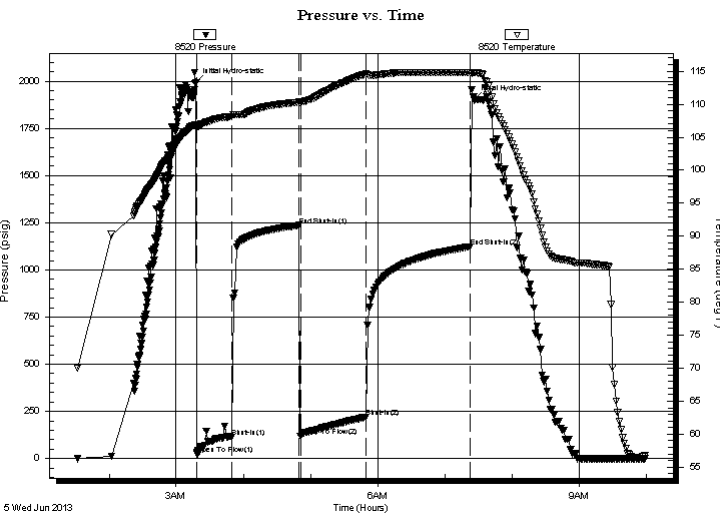
3-2s-29w Decatur, KS
Urban #1-3
 Job Ticket: 52639 **DST#: 2**
 Test Start: 2013.06.05 @ 01:22:00

GENERAL INFORMATION:

Formation: **LKC "H,J,K"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:18:10 Tester: Kevin Mack
 Time Test Ended: 09:59:30 Unit No: 66
 Interval: **3896.00 ft (KB) To 4000.00 ft (KB) (TVD)** Reference Elevations: 2806.00 ft (KB)
 Total Depth: 4000.00 ft (KB) (TVD) 2801.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8520 Outside
 Press @ Run Depth: 219.73 psig @ 3897.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.05 End Date: 2013.06.05 Last Calib.: 2013.06.05
 Start Time: 01:32:00 End Time: 09:59:30 Time On Btm: 2013.06.05 @ 03:17:40
 Time Off Btm: 2013.06.05 @ 07:26:30

TEST COMMENT: 30 - IF- 1" Blow built to 7 1/4"
 60 - IS- No Return
 60 - FF- BoB in 45 min
 90 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1992.08	106.93	Initial Hydro-static
1	24.79	106.56	Open To Flow (1)
32	113.73	108.15	Shut-In(1)
92	1236.06	110.29	End Shut-In(1)
94	119.00	110.22	Open To Flow (2)
152	219.73	114.59	Shut-In(2)
245	1123.02	114.74	End Shut-In(2)
249	1900.14	114.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
243.00	MW 80W 20M	1.71
126.00	MW 70W 30M	1.77
40.00	OSWM 50W 50M (oil spots)	0.56

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

3-2s-29w Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Urban #1-3

Job Ticket: 52639

DST#: 2

ATTN: Bob Stolzle

Test Start: 2013.06.05 @ 01:22:00

Tool Information

Drill Pipe:	Length: 3700.00 ft	Diameter: 3.80 inches	Volume: 51.90 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 52.81 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3896.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	104.00 ft			
Tool Length:	124.00 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			3877.00	
Shut In Tool	5.00			3882.00	
Hydraulic tool	5.00			3887.00	
Packer	5.00			3892.00	20.00 Bottom Of Top Packer
Packer	4.00			3896.00	
Stubb	1.00			3897.00	
Recorder	0.00	8354	Inside	3897.00	
Recorder	0.00	8520	Outside	3897.00	
Perforations	1.00			3898.00	
Change Over Sub	1.00			3899.00	
Drill Pipe	95.00			3994.00	
Change Over Sub	1.00			3995.00	
Bullnose	5.00			4000.00	104.00 Bottom Packers & Anchor

Total Tool Length: 124.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

3-2s-29w Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Urban #1-3

Job Ticket: 52639

DST#: 2

ATTN: Bob Stolzle

Test Start: 2013.06.05 @ 01:22:00

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:

42000 ppm

Viscosity: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
243.00	MW 80W 20M	1.714
126.00	MW 70W 30M	1.767
40.00	OSWM 50W 50M (oil spots)	0.561

Total Length: 409.00 ft Total Volume: 4.042 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

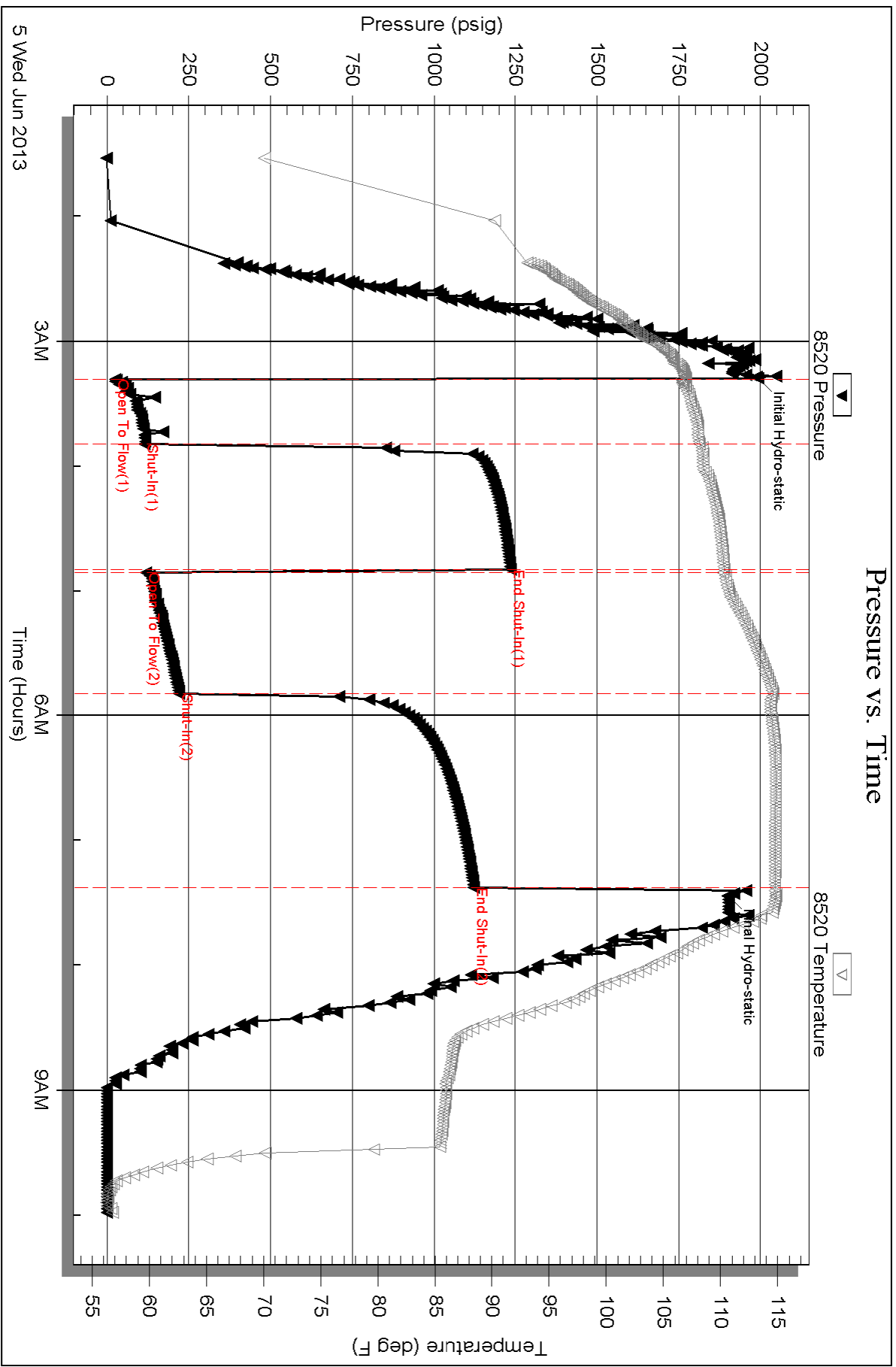
Recovery Comments: RW .214 @ 58 deg = 42000ppm

Serial #: 8520

Outside Murfin Drilling Co., Inc.

Urban #1-3

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52639

Printed: 2013.06.07 @ 09:19:14

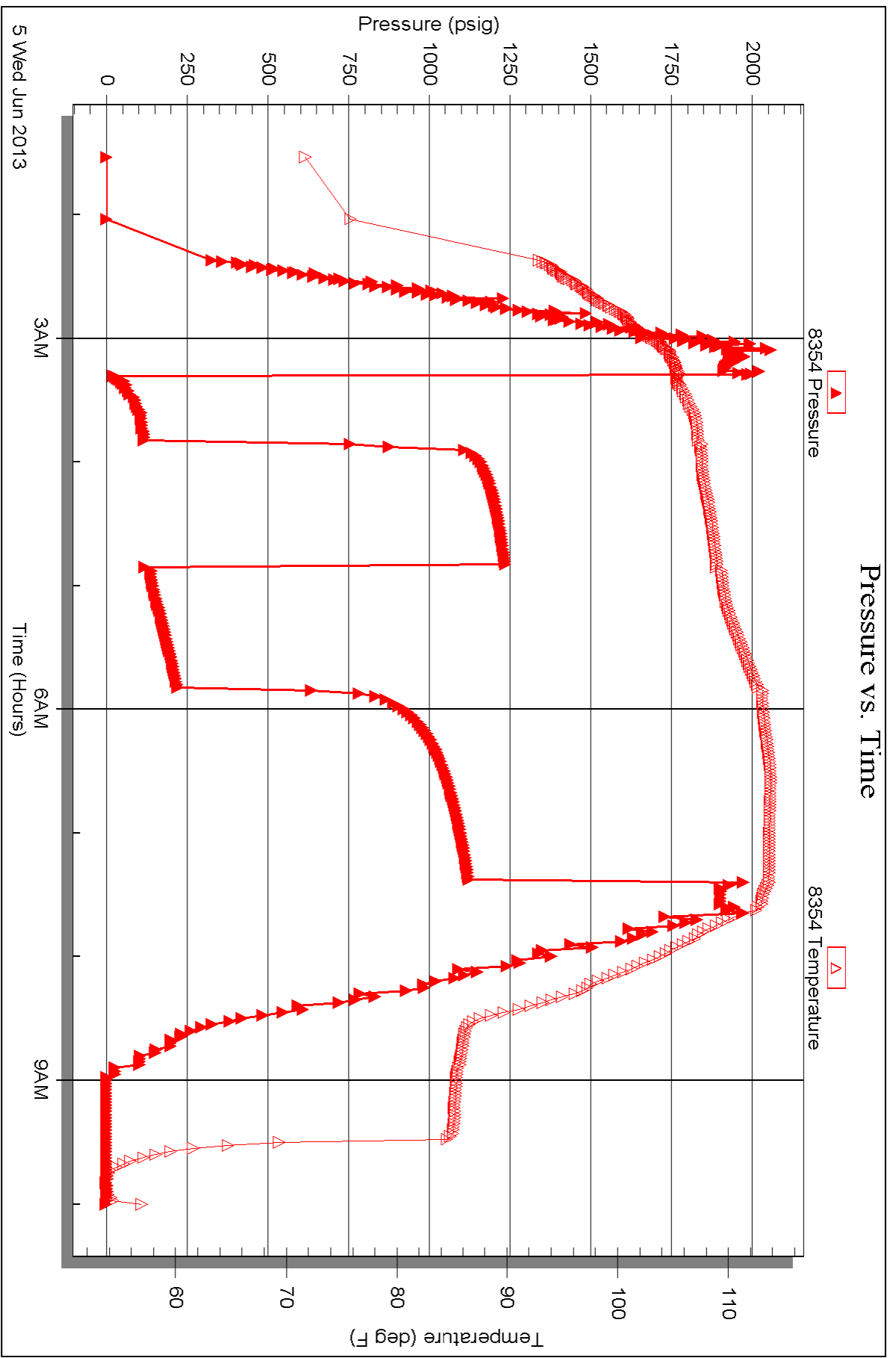
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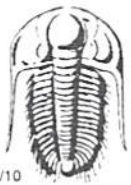
Inside

Murfin Drilling Co., Inc.

Urban #1-3

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52638

Well Name & No. Urban #1-3 Test No. 1 Date 6-4-13
 Company Murfin Drilling Co., Inc Elevation 2806 KB 2801 GL
 Address 250 N Water STE # 3000 Wichita, KS 67202
 Co. Rep / Geo. Bob Stolzie Rig Murfin #8
 Location: Sec. 3 Twp. 2S Rge. 29W Co. Decatur State KS

Interval Tested 3752-3860 Zone Tested LKC "A-D"
 Anchor Length 108 Drill Pipe Run 3575 Mud Wt. 8.7
 Top Packer Depth 3748 Drill Collars Run 186 Vis 69
 Bottom Packer Depth 3752 Wt. Pipe Run 0 WL 5.2
 Total Depth 3860 Chlorides 1,100 ppm System LCM 6#

Blow Description IF - 1/4" Blow built to 3/4"
ISL - NO Return
FF - NO Blow
FSI - NO Return

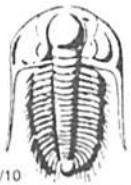
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>OSM</u>	<u>SPOTS</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 109 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1830</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>3:45 AM</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>4:23 AM</u>
(C) First Final Flow <u>34</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>6:40 AM</u>
(D) Initial Shut-In <u>1051</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>9:40 AM</u>
(E) Second Initial Flow <u>37</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:20 PM</u>
(F) Second Final Flow <u>48</u>	<input checked="" type="checkbox"/> Mileage <u>16RT</u> 24.80	Comments _____
(G) Final Shut-In <u>999</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1783</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>30</u>	<input type="checkbox"/> Extra Recorder	Total <u>1499.80</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1499.80</u>	

Approved By _____ Our Representative

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. 52639

Well Name & No. Urban # 1-3 Test No. 2 Date 6-5-13
 Company Murfin Drilling Co, Inc. Elevation 2806 KB 2801 GL
 Address 250 N Water STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Bob Stulzie Rig Murfin #3
 Location: Sec. 3 Twp. 2S Rge. 29W Co. Decatur State KS

Interval Tested 3896 - 4000 Zone Tested LKC "H, J, K"
 Anchor Length 104 Drill Pipe Run 3700 Mud Wt. 9.2
 Top Packer Depth 3892 Drill Collars Run 186 Vis 72
 Bottom Packer Depth 3896 Wt. Pipe Run 0 WL 5.2
 Total Depth 4000 Chlorides 1,500 ppm System LCM 6#

Blow Description IF - 1" Blow built to 7 1/4"
ISI - No Return
FF - Bob in 45 min.
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>OSWM</u>		<u>50</u>	<u>50</u>	
<u>126</u>	<u>MW</u>		<u>70</u>	<u>30</u>	
<u>243</u>	<u>MW</u>		<u>80</u>	<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 409 BHT 115 Gravity - API RW 214 @ 58 °F Chlorides 42,000 ppm

(A) Initial Hydrostatic 1861 1992 Test 1150 T-On Location 1:20 AM
 (B) First Initial Flow 21 25 Jars 250 T-Started 1:22 AM
 (C) First Final Flow 34 114 Safety Joint 75 T-Open 3:20 AM
 (D) Initial Shut-In 1057 1236 Circ Sub NIC T-Pulled 7:20 AM
 (E) Second Initial Flow 37 119 Hourly Standby _____ T-Out 10:15 AM
 (F) Second Final Flow 48 220 Mileage 16RT 24.80 Comments _____
 (G) Final Shut-In 999 1123 Sampler _____
 (H) Final Hydrostatic 1782 1900 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1499.80
 Total 1499.80
 MP/DST Disc't _____

Approved By _____ Our Representative _____

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

PROD COPY

INVOICE

Invoice Number: 136526

Invoice Date: May 31, 2013

Page: 1

new
Liz H.

Bill To:

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	60788	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	May 31, 2013	6/30/13

Quantity	Item	Description	Unit Price	Amount
		<u>Urban #1-3</u>		
225.00	MAT	Class A Common	17.90	4,027.50
8.00	MAT	Chloride	64.00	512.00
236.25	SER	Cubic Feet	2.48	585.90
654.00	SER	Ton Mileage	2.60	1,700.40
1.00	SER	Surface	1,512.25	1,512.25
60.00	SER	Pump Truck Mileage	7.70	462.00
1.00	SER	Manifold Rental	275.00	275.00
60.00	SER	Light Vehicle Mileage	4.40	264.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Brandon Wilkinson		

Account	Qty	U	No.	Amount	Description
10203	3.			6401.77	Current S. Cg. #1-3 OK JR

Subtotal	9,339.05
Sales Tax	331.38
Total Invoice Amount	9,670.43
Payment/Credit Applied	
TOTAL	9,670.43

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

\$ 3,268.66

ONLY IF PAID ON OR BEFORE
Jun 25, 2013

(3268.66)

6401.77

ALLIED OIL & GAS SERVICES, LLC 060788

Federal Tax I.D. # 20-8651476

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

SERVICE POINT: Oakley, Ky

DATE <u>5/31/13</u>	SEC. <u>3</u>	TWP. <u>2</u>	RANGE <u>29</u>	CALLED OUT <u>5:10p</u>	ON LOCATION <u>7:00p</u>	JOB START <u>8:30p</u>	JOB FINISH <u>9:00p</u>
LEASE <u>Urban</u>	WELL # <u>1-3</u>	LOCATION <u>Oberlin SW 2 1/4 W Ninto</u>		COUNTY <u>Deer</u>	STATE <u>KY</u>		

CONTRACTOR Murphy
 TYPE OF JOB Sun Eye
 HOLE SIZE 12 1/4 T.D. 263'
 CASING SIZE 8 5/8 DEPTH 263'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 15.2976 M1 H₂O

OWNER Same
 CEMENT AMOUNT ORDERED 225 Com 37.00

COMMON <u>225</u>	@	<u>50.27</u>	<u>12</u>
POZMIX _____	@		
GEL _____	@		
CHLORIDE <u>8</u>	@	<u>64.00</u>	<u>512.00</u>
ASC _____	@		
HANDLING <u>236</u>	@	<u>25</u>	<u>585.00</u>
MILEAGE <u>260</u>	@	<u>10.9</u>	<u>72x 1700</u>
TOTAL			<u>6825</u>

EQUIPMENT
 PUMP TRUCK CEMENTER Alan Ryan
 # 422 HELPER Wayne McElroy
 BULK TRUCK DRIVER Brandon Williams
 # 316
 BULK TRUCK DRIVER _____
 # _____

REMARKS:
Unlay Circulate Mix Cement, Displace
ement. Start in
ement Dis. Circulate
8000 P.T.
Thank You
Alan, Wayne, Brandon

CHARGE TO: Murphy Drilling
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____		
PUMP TRUCK CHARGE _____		<u>1512.25</u>
EXTRA FOOTAGE _____	@	
MILEAGE <u>60</u>	@	<u>7.20</u>
MANIFOLD _____	@	<u>462.00</u>
<u>170 Vehicle @ miles</u>	@	<u>278.00</u>
	@	<u>264</u>
TOTAL <u>2513</u>		

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 Rodney Fair
 SIGNATURE Rodney Fair

SALES TAX (If Any) _____
 TOTAL CHARGES 9,339.05
 DISCOUNT 3,268.66 IF PAID IN 30 DAYS
6,070.38 Net.



Actt
Luz H

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 136644

Invoice Date: Jun 6, 2013

Page: 1

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

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	60273	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jun 6, 2013	7/6/13

Quantity	Item	Description	Unit Price	Amount
		Urban #1-3		
132.00	MAT	Class A Common	17.90	2,362.80
88.00	MAT	Pozmix	9.35	822.80
8.00	MAT	Gel	23.40	187.20
55.00	MAT	Flo Seal	2.97	163.35
236.28	SER	Cubic Feet	2.48	585.97
580.20	SER	Ton Mileage	2.60	1,508.52
1.00	SER	Plug to Abandon	2,483.59	2,483.59
60.00	SER	Pump Truck Mileage	7.70	462.00
60.00	SER	Light Vehicle Mileage	4.40	264.00
1.00	EQP	8.5/8 Wooden Plug	107.64	107.64
1.00	CEMENTER	LaRene Wentz		
1.00	EQUIP OPER	Paul Beaver		
1.00	OPER ASSIST	Darrin Hoeb		

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

\$ 3,131.75

ONLY IF PAID ON OR BEFORE
Jul 1, 2013

Subtotal	8,947.87
Sales Tax	653.19
Total Invoice Amount	9,601.06
Payment/Credit Applied	
TOTAL	9,601.06

ALLIED OIL & GAS SERVICES, LLC 060273

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley, KS

DATE <u>6-6-13</u>	SEC. <u>3</u>	TWP. <u>2</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION <u>5:00am</u>	JOB START <u>7:30am</u>	JOB FINISH <u>8:30am</u>
WELL # <u>160m</u>	WELL # <u>2-3</u>	LOCATION <u>Oberlin - 61174 W. 24th</u>	COUNTY <u>LeCompton</u>	STATE <u>KS</u>			

CONTRACTOR Martin D
 TYPE OF JOB PTA
 HOLE SIZE 2 1/8 T.D. 4100
 CASING SIZE DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH 25451
 TOOL JOINT DEPTH
 RES. MAX MINIMUM
 LEAS. LINE SHOE JOINT
 EQUIPMENT LEFT IN CSG.
 REMS.
 DISPLACEMENT

OWNER same
 CEMENT AMOUNT ORDERED 220 sks 60/40 48gel
14 #flo seal

EQUIPMENT
 PUMP TRUCK CEMENTER Kalene E. Wentz
386/281 HELPER Paul Beaver
 ULK TRUCK DRIVER Darrin Hoeb
540/287
 ULK TRUCK DRIVER

COMMON	<u>132 sks</u>	@ <u>17.90</u>	<u>2362.80</u>
POZMIX	<u>88 sks</u>	@ <u>9.55</u>	<u>822.80</u>
GEL	<u>85 sks</u>	@ <u>23.80</u>	<u>189.20</u>
CHLORIDE		@	
ASC		@	
<u>flo seal</u>	<u>55 sks</u>	@ <u>2.97</u>	<u>163.35</u>
HANDLING	<u>236.28 sks</u>	@ <u>2.48</u>	<u>585.97</u>
MILEAGE	<u>287 sks 60x</u>	@ <u>2.60</u>	<u>1508.52</u>
			TOTAL <u>5680.64</u>

REMARKS:
mix 25 sks 25451
mix 100 sks 18001
mix 40 sks 3131
mix 10 sks 401 w/plug
plug MH - 15 sks
plug RH - 30 sks

Thank you

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

SERVICE

DEPTH OF JOB	<u>2545'</u>		
PUMP TRUCK CHARGE			<u>2783.59</u>
EXTRA FOOTAGE		@	
MILEAGE <u>MTHU</u>	<u>60</u>	@ <u>7.70</u>	<u>462.00</u>
MANIFOLD		@	
<u>MFCU</u>	<u>60</u>	@ <u>4.40</u>	<u>264.00</u>
			TOTAL <u>3209.59</u>

PLUG & FLOAT EQUIPMENT

<u>480den plug</u>	@	<u>102.64</u>
	@	
	@	
	@	
	@	
TOTAL <u>102.64</u>		

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.

SALES TAX (if Any) _____
 TOTAL CHARGES 2,947.87
 DISCOUNT 3,131.75 IF PAID IN 30 DAYS
5,816.11 Net

PRINTED NAME Robney Farr
 SIGNATURE Robney Farr