



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1100291  
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: \_\_\_\_\_



1100291

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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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

November 08, 2012

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

Re: ACO1  
API 15-171-20891-00-00  
Agnes 1-7  
NE/4 Sec.07-16S-32W  
Scott County, Kansas

Dear Production Department:

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

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

Respectfully,  
Leon Rodak

<div style="display: flex; justify-content: space-between;"> <div style="width: 33%; text-align: center;"> MDCI  Agnes #1-7  1650' FNL 330' FEL  Sec. 7-T16S-R32W  3021' KB </div> <div style="width: 33%; text-align: center;"> Yucca Petroleum  Deweese #1  C NW SE  Sec. 6-T16S-R32W  3019' KB </div> <div style="width: 33%; text-align: center;"> GMOC  Hoeme #1-4  2650'FSL 1413' FWL  Sec. 4-T16S-R32W  3004' KB </div> </div>										
Formation	Sample Top	Datum	Log tops	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	2355	+666	2358	+663	-36	2320	+699	+13	2354	+650
B/Anhydrite	2425	+596	2423	+598	-11	2410	+609	+12	2418	+586
Topeka	3731	-710	3725	-704	-5	3718	-699	+12	3720	-716
Heebner	3958	-937	3958	-937	-6	3950	-931	+11	3952	-948
Lansing	4003	-982	3997	-976	-3	3992	-973	+15	3995	-991
Stark	4253	-1232	4263	-1242	-12	4249	-1230	+9	4255	-1251
Pawnee	4472	-1451	4479	-1458	-5	4472	-1453	+9	4471	-1467
Ft. Scott	4521	-1500	4522	-1501	-1	4519	-1500	+11	4516	-1512
Mississippi	4650	-1629	4649	-1628	+21	4668	-1649	+38	4670	-1666
RTD	4800					4880			4780	
LTD			4800			4878			4783	

# ROBERT STOLZLE

CONSULTING PETROLEUM GEOLOGIST

AP# 001 0 8244

3271 Q. 20108 07W. Geoland, KM 07032 - 0249 (910) 704 - 0100

DRIILLING TIME AND SAMPLE LOGS

OPERATOR: Murfin Drilling Co., Inc.

LEASE: Agnes WELL NO.: 1-7

FIELD: W. Idcat

LOCATION: 1650' ENL, 330' EEL (NE, SE, NE)

SEC.: 7 TWP: 16S RANGE: 32W

COUNTY: Scott STATE: KS

API NO.: 15-171-20891-00-00

CONTRACTOR: Murfin Drilling Co., Rig # 21

DATE: July 17, 2012 COMPLETED: 7/26/12

ROTARY TOTAL DEPTH: 4800' LOG TOTAL DEPTH: 4800'

GEOLOGICAL SUPERVISOR: 3213' LOG TYPE: Chemical / Polymer

LOG-UP DEPTH: 3213' LOG TYPE: Chemical / Polymer

FORMATION	START	END	STRUCTURAL
Stonecaynel Anhyd.	2404 (4617)	2404 (4617)	+13'
Base of Anhydrite	2425 (4596)	2422 (4599)	+13'
Topaka fm.	3731 (-710)	3726 (-705)	+11'
Heachner Sh.	3958 (-937)	3959 (-938)	+10'
Lansing Grp.	4003 (-982)	3997 (-976)	+15'
Stark Shale	4263 (-1242)	4263 (-1242)	+9'
Base KS City Grp.	4345 (-1324)	4345 (-1324)	+10'
Marmaton Grp.	4400 (-1379)	4462 (-1381)	+19'
Pawnee Ls.	4480 (-1459)	4480 (-1459)	+8'
Ft. Scott Ls.	4522 (-1501)	4522 (-1501)	+11'
Charokae Sh.	4550 (-1529)	4549 (-1528)	+8'
Johnson Zone	4592 (-1571)	4592 (-1571)	+9'
Atokals.	4616 (-1595)	4616 (-1595)	+7'
Miss. St. Gen.	4650 (-1629)	4648 (-1627)	+39'
Total Depth	4800	4800	

## ELEVATIONS

KB 3021'

GL 3010'

Measurements are all from KB

## CASING RECORD

SIZE: 8 5/8" @

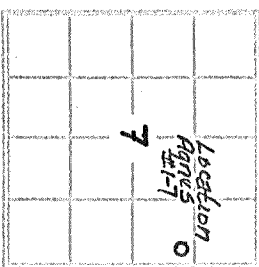
225' KB, circ

PRODUCTION: None, PAH

## WIRELINE SERVICES

Log Tech: Dual  
Induction, Dual  
Compass and Density  
Sonic and  
Micro Resistivity  
Logs were run.

## LOCATION MAP



Reference Well for Structural Comparison: Grand Mesa #1-4 Home SW 1/4 SE 1/4 NW 1/4  
Comments and Recommendations: Recommended well be plugged and abandoned

DST # 1 ZONE: Kansas City 'K' Zone

INTERVAL: 4270' - 4310'

Pressures:	Time	Press.	RECOVERY
1. Initial Hydrostatic		2095 psi	260' M.W. (50% mud)
2. Initial Flow: Start	0	153 psi	315' M.W. (20% mud)
3. Initial Flow: End	30	719 psi	1260' M.W. (59% mud)
4. Initial Shut-in: End	60	1160 psi	
5. Final Flow: Start	0	734 psi	Blow Desc:
6. Final Flow: End	15	878 psi	I.F. - BOB - 2 min.
7. Final Shut-in: End	60	1163 psi	I.S.I. - No blow
8. Final Hydrostatic		2052 psi	F.F. BOB 3 1/2 min. F.S.I. - No blow

BHT: 125°F

Rv: .11 @ 98°F

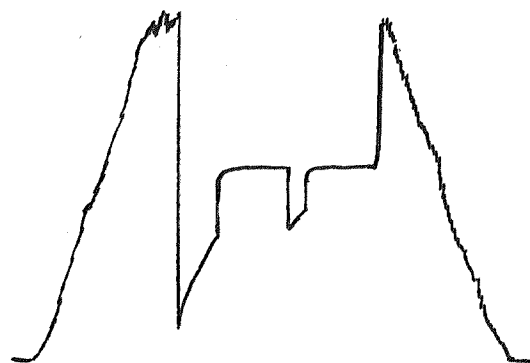
48,000 ppm Chlorides

DST # 1

Interval: 4270' - 4310'

8844 Chart

Depth: 4271'



DST # 2 ZONE: Marmaton and Pawnee Ls.

INTERVAL: 4408' - 4515'

DST # 2

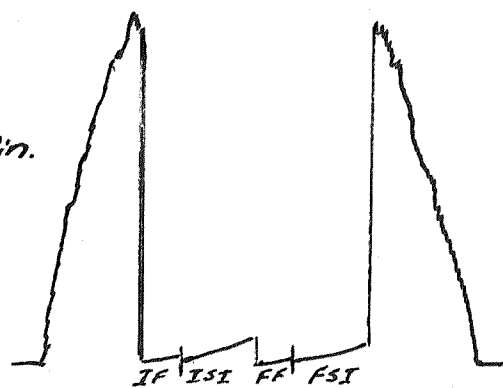
Interval: 4408' - 4515'

8844 Chart

Depth: 4409'

Pressures:	Time	Press.	RECOVERY
1. Initial Hydrostatic		2238 psi	2' Muddy Oil
2. Initial Flow: Start	0	17 psi	(95% Oil)
3. Initial Flow: End	30	17 psi	
4. Initial Shut-in: End	60	161 psi	Blow Desc:
5. Final Flow: Start	0	18 psi	I.F. - 1/4" blow, died in 28 min.
6. Final Flow: End	30	19 psi	I.S.I. - No blow
7. Final Shut-in: End	60	107 psi	F.F. - No blow
8. Final Hydrostatic		2116 psi	F.S.I. - No blow

BHT: 124°F  
Rv: \_\_\_\_\_

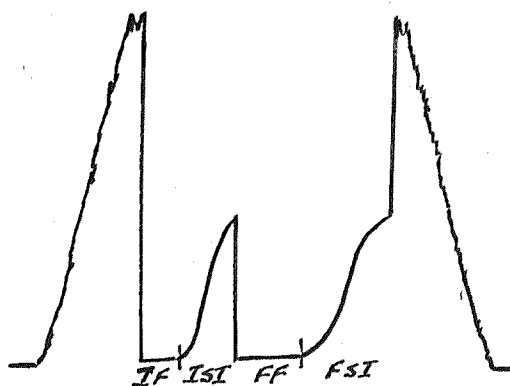


DST # 3 ZONE: Ft. Scott, Cherokee & Johnson  
 INTERVAL: 4518'-4620' ZONE

DST # 3 8844 Chart  
 Interval: 4518-4620 Depth: 4519'

Pressures:	Time	Press.	RECOVERY
1. Initial Hydrostatic		2275 psi	70' Oil Cut Mud
2. Initial Flow: Start	0	20 psi	(5% Oil)
3. Initial Flow: End	30	32 psi	
4. Initial Shut-in: End	60	926 psi	Blow Desc:
5. Final Flow: Start	0	36 psi	I.F. - built to 1 1/4"
6. Final Flow: End	60	54 psi	I.S.I. - No blow
7. Final Shut-in: End	90	974 psi	F.F. - built to 1 1/2"
8. Final Hydrostatic		2228 psi	F.S.I. - No blow

BHT: 124°F  
Rv: \_\_\_\_\_

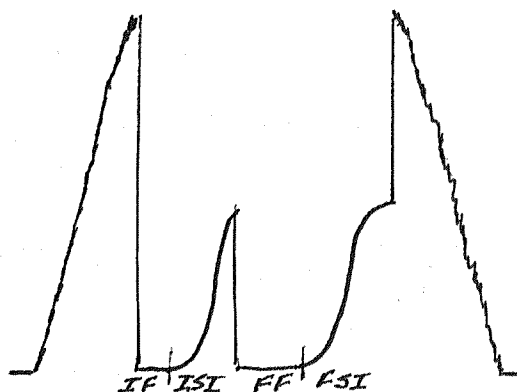


DST # 4 ZONE: Alcoals & Basal Penn. Ss.  
 INTERVAL: 4607'-4647'

DST # 4 8844 Chart  
 Interval: 4607-4647 Depth: 4608'

Pressures:	Time	Press.	RECOVERY
1. Initial Hydrostatic		2316 psi	5' Oil Cut Mud
2. Initial Flow: Start	0	17 psi	(5% Oil)
3. Initial Flow: End	30	26 psi	60' Oil Cut Mud
4. Initial Shut-in: End	60	1062 psi	(20% Oil)
5. Final Flow: Start	0	30 psi	Blow Desc:
6. Final Flow: End	60	44 psi	I.F. - built to 1 1/4"
7. Final Shut-in: End	90	1109 psi	I.S.I. - No blow
8. Final Hydrostatic		2306 psi	F.F. - built to 3"

BHT: 124°F  
Rv: \_\_\_\_\_



ABBREVIATIONS USED

ROCK TYPES:

FABRIC:

MODIFIERS:



2400

2450

3600

3650

3700

Stone Corral  
Anhydrite  
(+617')

Base of  
Anhydrite  
(+596')

Displace Native Mud System  
at 3213'

Replace PDC bit with  
button bit at 3620'

Mud Check @ 3620'  
M.W. 8.9 lb./gal.  
Vis. 59 sec./qt.  
W.L. 6.4 ml./30min.  
chl. 1,200 ppm  
Solids 4.3%  
LCM 4.0 lb./bbl.

Start 1 hr. drilling time  
and 10 ft. wet and dry  
samples at 3630'

Sh: gry.-dk. gry., m. sft.-m. hrd., dns.,  
earthy-hack.  
Ls: crm.-gry., m. hrd., dns., vfg. xln.,  
foss. & sh. std. NØ NSFDC  
Ls: gry.-crm.-tan, sft. & chik.-hrd., dns.,  
vfg. xln., foss., occ. sh. std. NØ NSFDC

occ. sh: A.A.  
Sh: ft.-dk. gry., sft. & clay.-m. hrd., dns.,  
hack.  
Ls: tan-gry., hrd.-sft. & chik., foss.,  
occ. sh. std. NØ NSFDC  
Sh: lt. gry., sft.-v. sft. & clay.-earthy  
Ls: crm.-tan, sft. & chik.-hrd., dns.,  
vfg.-med. xln., foss., tr. sh. std. NØ NSFDC

Ls: xln.-crm., sft. & chik.-m. hrd., dns.,  
foss. & sh. std., tr. sh. std.,  
gry. NØ NSFDC

Ls: crm.-tan-gry., m. hrd.-hrd., dns.,  
vfg.-mx. ln., occ. sft. & chik., occ.  
foss.-v. foss., tr. pr. pp. vug. Ø  
NSFDC

Ls: A.A. NØ NSFDC

Sh: sft.-m. sft., dns., occ. clayey,  
earthy  
Sh: A.A.

Ls: crm.-m. hrd., dns., ft.-vfg. xln.,  
occ. foss., tr. sh. std. NØ NSFDC

Ls: lt. gry.-gry., m. sft.-hrd., dns.,  
vfg.-mx. ln., foss.-v. foss., sh.  
std. NØ NSFDC



Ls: A.A., itr. sandy. NΦ NSFOC

Sh: dk. gry., m. hrd., dns., hackly

Sh: A.A., earthy - hackly

Ls: crm., sft. - hrd., dns., VEG - mxln.  
occ. foss., itr. chiky. NΦ NSFOC

Ls: crm. - tan - gry., hrd., dns., VEG  
xln. itr. sft. & chik., occ. foss.  
NΦ NSFOC

**TOPEKA Fm.**  
(-710') /og-705

Ls: wh., sft., chik. - hrd., dns., crm.  
VEG - mxln., foss., sh. stn. NΦ NSFOC

Sh: lt. - dk. gry., sft. - m. hrd., occ.  
sandy, clayey - earthy

Sh: A.A., less. clayey  
Ls: A.A., occ. sh. stn. - looks like  
oil stn. NΦ NSFOC

Ls: crm. - tan - gry., sft. - hrd., dns.,  
tr. chiky., VEG - mxln., mic.  
foss. NΦ NSFOC

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

Ls: crm. - lt. gry., sft. - hrd., dns., VEG -  
mxln., foss., sh. stn. NΦ NSFOC

Sh: lt. - dk. gry., m. sft. - m. hrd., dns.,  
occ. sandy, tr. carb., hackly

Ls: crm. - gry., m. sft. - hrd., dns., VEG -  
mxln., foss., sh. stn., itr. sandy. NΦ

Ls: crm. - tan, m. hrd. - hrd., itr. chik.,  
VEG - mxln., mic., foss., itr. sh. stn.  
NΦ NSFOC

tr. Sh: dk. gry., m. sft., hack.  
Sh: A.A.

Ls: crm. - gry., m. sft. - hrd., dns., VEG  
- mxln., itr. sandy, foss. NΦ NSFOC

Ls: crm., sft. & chiky. - hrd., dns.,  
VEG - mxln., occ. foss., NΦ NSFOC

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

tr. Sh: A.A.

Ls: crm., sft. & chik. - hrd., dns., VEG  
- mxln., occ. v. foss. w/ tr. int. part.  
NSFOC

Ls: crm. - tan, sft. & chik. - hrd., dns.,  
VEG - mxln., foss., abund. sh. stn.  
NΦ NSFOC

Sh: blk., m. hrd., dns., carb., earthy  
tr. Sh: A.A.

Ls: crm. - tan - gry., m. sft. - hrd., dns., VEG  
- mxln., chiky., abund. sh. stn., tr.  
foss., itr. sandy. NΦ NSFOC

Ls: crm. - tan - gry., hrd., dns., occ.  
sft. & chiky., occ. foss., sh. stn.,  
abund. sandy - VEG, gry. Sg.  
NΦ NSFOC

Ls: crm. - tan, hrd. - sft. & chiky., VEG -  
mxln., occ. foss. w/ pr. pp. Vug  
& tr. int. part. NSFOC

Ls: A.A., less. chiky. NΦ NSFOC

Sh: lt. gry. & dk. gry., m. hrd. -  
m. sft., dns., earthy - hackly  
tr. Sh: A.A.

Ls: crm. - tan, tr. gry., hrd. - m. sft., dns.  
VEG - mxln., tr. pelec., foss., sh. stn.,  
tr. pr. VEG pp. NSFOC

tr. Sh: gry. - dk. gry., m. sft., dns., hack.  
Ls: crm., hrd. - m. sft., dns., VEG -  
mxln., mic. itr. foss.  
NΦ NSFOC

**Queen Hill Sh.**

Ls: crm. - gry., hrd., dns., VEG - mxln.,  
mic., tr. chik., itr. sft. & chik., foss.  
NΦ NSFOC

Ls: A.A., less. chik., tr. sh. stn.  
NΦ NSFOC

Sh: gry., m. sft., dns., earthy - hack.

Ls: crm. - lt. gry., hrd., dns., VEG - mxln.  
tr. sft. & chiky., tr. chik., occ. foss.,  
tr. sh. stn. NΦ NSFOC

Sh: v. m. sft., dns., earthy - hackly

3750

3800

3850

3900





3950

4000

4050

4100

occ. sh. A.A.  
 Ls. crm.-lt. gry., hrd., dns., occ.  
 sft. chiky, VEG-MXIN, 10CC  
 foss., tr. sh. std. NQ NSFOC  
 sh. gry. grn.-dk. gry., m. hrd.-m. sft.,  
 dns., occ. sandy, hackly  
 Ls. crm.-gry. A.A. NQ NSFOC  
 rd. sh. cavinas

Ls. gry.-crm., hrd., dns., VEG-MXIN,  
 mic., foss., sh. std., NQ NSFOC  
 sh. gry. grn.-dk. gry., m. hrd.-m. sft.,  
 dns., earthy-hackly, 1-2 pr. carb.

Sh. gry.-grn.-dk. gry.-blk., m. sft.-m. hrd.  
 dns., carb., earthy-hackly  
 Ls. crm.-tan, hrd.-m. hrd., dns., VEG-  
 MXIN, sft. std. tr. pr. pp. NSFOC  
 tr. sh. A.A.

Ls. crm.-tan, m. sft.-hrd., dns., VEG-  
 MXIN, mic., tr. ch., foss. + sh. std.  
 tr. pr. pp. moldic NSFOC  
 Ls. wh.-crm.-tan, sft. chiky-hrd., dns.,  
 VEG-MXIN, mic., tr. ch., occ. foss.,  
 tr. v. pr. int. part. NSFOC

Ls. crm.-wh., m. sft.-hrd., dns., VEG-  
 MXIN, mic., chky, foss. NQ NSFOC  
 CFS sh. gry.-dk. gry., m. sft., dns., earthy

Ls. crm.-wh., hrd.-m. sft., dns.,  
 VEG-MXIN, tr. mic., tr. ch., occ.  
 foss. + ool. w/ tr. oom. NSFOC

Ls. crm., hrd., dns., VEG-MXIN, mic.  
 tr. ch., tr. foss. + ool. w/ tr. tr.  
 pr. oom. NSFOC, tr. sh. std., occ. sft.  
 chiky NSFOC

Ls. crm., sft. + chiky-hrd., dns., VEG-  
 MXIN, mic., tr. ch., tr. foss. +  
 ool. w/ pr. oom. NSFOC  
 CFS

Sh. gry. grn.-dk. gry., m. sft., dns., hackly  
 Ls. crm., m. sft.-hrd., dns., VEG-  
 MXIN, mic., occ. foss., tr. pr.  
 NQ NSFOC

Ls. crm., m. sft.-hrd., dns., VEG-MXIN,  
 mic., occ. chky-w/tan, occ. foss.  
 ool., occ. chiky. NQ NSFOC

CFS sh. gry.-blk., m. sft., dns., occ. carb., earthy  
 -hackly  
 Ls. crm., m. sft.-hrd., dns., VEG-MXIN,  
 mic., tr. ch.: wh. rered. NQ NSFOC  
 Ls. crm.-wh., sft. chiky-hrd., dns.,  
 mic., VEG-MXIN, tr. rered., rare  
 foss., tr. ch. NQ NSFOC

Ls. crm.-lt. gry., hrd., dns., VEG-MXIN,  
 occ. ch., abun. wh. chiky Ls.,  
 occ. rered., tr. foss. NQ NSFOC  
 CFS tr. sh. gry.-blk., m. sft., dns., carb., earthy  
 sh. A.A.

Ls. crm.-wh., sft. chiky-hrd., dns.,  
 VEG-MXIN, mic., tr. foss. + ool.  
 w/ pr. moldic NSFOC  
 Ls. A.A. 1-2 pr. chiky w/ lt. std. w/ k  
 cut + fl. - No perm., var. wk show

CFS Ls. wh.-crm., sft. chiky-hrd., dns., MXIN,  
 foss. + ool.-grn. std.-pr. sh. NQ NSFOC  
 Ls. crm., hrd., dns.-sft. chiky, VEG-  
 MXIN, mic., tr. sh. std., occ. foss.  
 NQ NSFOC  
 CFS

Ls. crm., hrd., dns.-sft. chiky, MXIN-  
 MXIN, mic., tr. ch., tr. foss., tr.  
 sh. std. NQ NSFOC

Ls. crm.-tan, hrd., dns., tan-VEG-MXIN,  
 occ. sft. chiky, ool.-ool. grn. std.  
 qd.-ex. oom. NSFOC

Ls. crm.-lt. gry., hrd., dns., tan-VEG-MXIN,  
 tr. ch., tr. chiky, occ. ool. w/  
 pr. tr. oom. NSFOC

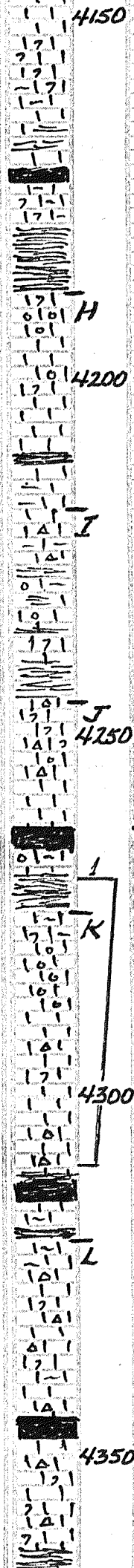
Ls. crm.-tan, hrd., dns., tan-MXIN-  
 MXIN, mic., tr. ch., tr. ool.-oom.  
 NQ NSFOC

Heebner Sh.  
 (-937')

Toronto Ls.

Lansing Group  
 (-982') log-976

Mud Chock @ 4028'  
 M. w. 9.3  
 Vis. 55  
 W. L. 6.4  
 Chl. 2,300  
 Solids 7.1 %  
 LCM 6#



Ls. crm. - lt. gry., hrd., dns., fxlN, -  
mxN, mic., tr. chik., rare foss.  
NØ NSFDC

Ls. crm. - tan-gry., hrd., dns., fxlN, -  
mxN, mic., occ. foss., sh. std.  
NØ NSFDC

sh. bik., hrd., dns., carb., earthy  
sh. dk. gry. - bik., m. sft. - hrd., dns.,  
carb., earthy

Ls. crm. - tan, hrd., dns., fxlN, -  
mxN, foss., sh. std. NØ NSFDC  
Sh: A. A.

Ls. crm. - tan-gry., hrd., dns., occ.  
sft., fxlN - mxN, occ. foss.,  
sh. std. NØ NSFDC

Ls. crm., hrd. - m. sft., dns., fxlN -  
mxN, tr. chik., occ. sft., tr. chik.,  
rare foss. NØ NSFDC

Ls. crm. - lt. gry., hrd., dns., vfg - mxN,  
tr. chik., tr. mic., occ. foss., w. tr.  
pr. pp. moldic. vug. Ø NSFDC

CFS Ls. crm. - tan-gry., hrd., dns., fxlN, -  
mxN, mic., tr. rexed., rare foss.  
NØ NSFDC

tr. sh. dk. gry., m. sft., dns., hackly  
Sh: A. A. tr. bik., carb.

Ls. crm. - brn. - lt. gry., hrd., dns.,  
vfg - mxN, tr. foss., tr. chik.,  
tr. sft., tr. chik. NØ NSFDC

Ls. crm. - brn. - gry., hrd., dns., fxlN, -  
mxN, mic., tr. rexed., occ. foss.,  
ool., sh. std., tr. chik. NØ NSFDC

CFS sh. dk. gry., m. sft., dns., earthy - hackly  
Sh: A. A.

Ls. crm. - tan - lt. gry., hrd., dns., fxlN,  
- mxN, mic., occ. sft., tr. chik., tr. foss.  
NØ NSFDC

Ls. crm. - tan-gry., hrd., dns., occ. sft.,  
chik., vfg - mxN, tr. rexed., tr. wh.  
pol. chik., occ. foss. NØ NSFDC

CFS sh. dk. gry. - bik., m. hrd., dns., carb., hack.  
Sh: A. A.

Ls. crm. - brn. - gry., hrd., dns., fxlN, -  
mxN, occ. sft., tr. chik., foss., sh.  
std. NØ NSFDC

Ls. wh. - tan, sft., tr. chik., hrd., dns.,  
fxlN - mxN, tr. ool. w. 9d. int.  
ool. Ø, v. p. k. ool. dk. brn. std., ad.  
ex. cut + fl., v. thin zone, No F. Ø.

Ls. wh. - crm., sft., tr. chik., hrd., dns.,  
vfg - mxN, mic., tr. gry. chik., rare  
foss., occ. sh. std. NØ NSFDC

Ls. crm. - tan - lt. gry., hrd., dns., vfg  
- mxN, mic., chik., tr. sft., tr. chik.  
rare foss. NØ NSFDC

Ls. crm. - lt. gry., hrd., dns., fxlN -  
mxN, tr. rexed., occ. sft., tr. chik.  
tr. gry. chik. NØ NSFDC

CFS tr. sh. dk. gry. - bik., m. sft., carb.  
Sh: A. A.

Ls. crm. - brn. - gry., m. sft., hrd., dns.,  
vfg - mxN, Abun. sh. std., occ.  
foss. NØ NSFDC

CFS Ls. A. A., sli. more foss., 1-2 pc. w/ pr.  
vfg. pp. vug. Ø NSFDC

Ls. crm. - lt. gry., hrd., dns., vfg - mxN,  
mic., tr. chik., rare foss. NØ NSFDC

CFS Ls. crm. - lt. gry., hrd., dns., vfg -  
mxN, mic., chik., rare foss.  
std., tr. chik., rare foss. NØ NSFDC

tr. sh. bik., hrd., dns., carb., hackly  
Ls. crm. - lt. gry., hrd. - m. hrd., dns.,  
vfg - mxN, mic., tr. chik., tr. rexed.  
rare foss., sh. std. NØ NSFDC

Ls. crm. - lt. gry., hrd., dns., vfg -  
mxN, mic., chik., rare foss.  
tr. ppt. NØ NSFDC

Ls. A. A., occ. vfg. sdy., tr. sh.  
std., rare foss. NØ NSFDC  
sh. gry. grn. - bik., m. hrd., dns.

stark shale  
(-1242)

Fair show

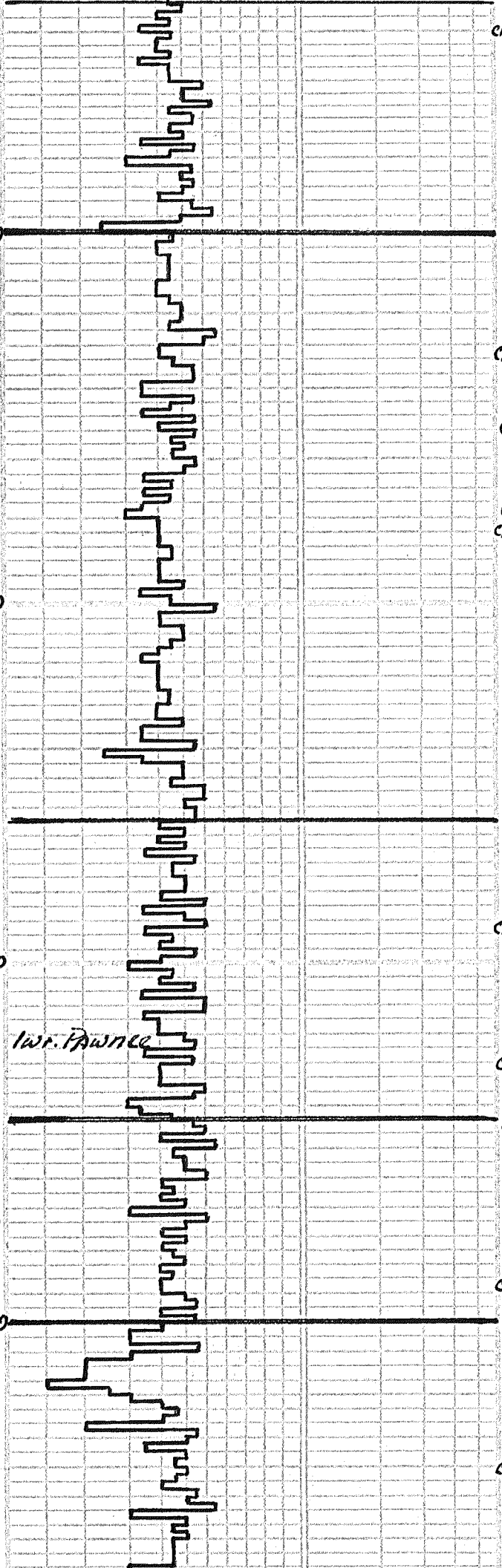
DST #1  
4270-4310'  
Rec. 1835' M.W.

Mud Check @ 4310'  
M.W. 9.1  
Vis. 57  
W.L. 6.0  
Chl. 1,800  
Solids 5.7%  
LCM 57

Base of Kansas  
City Group  
(-1324')

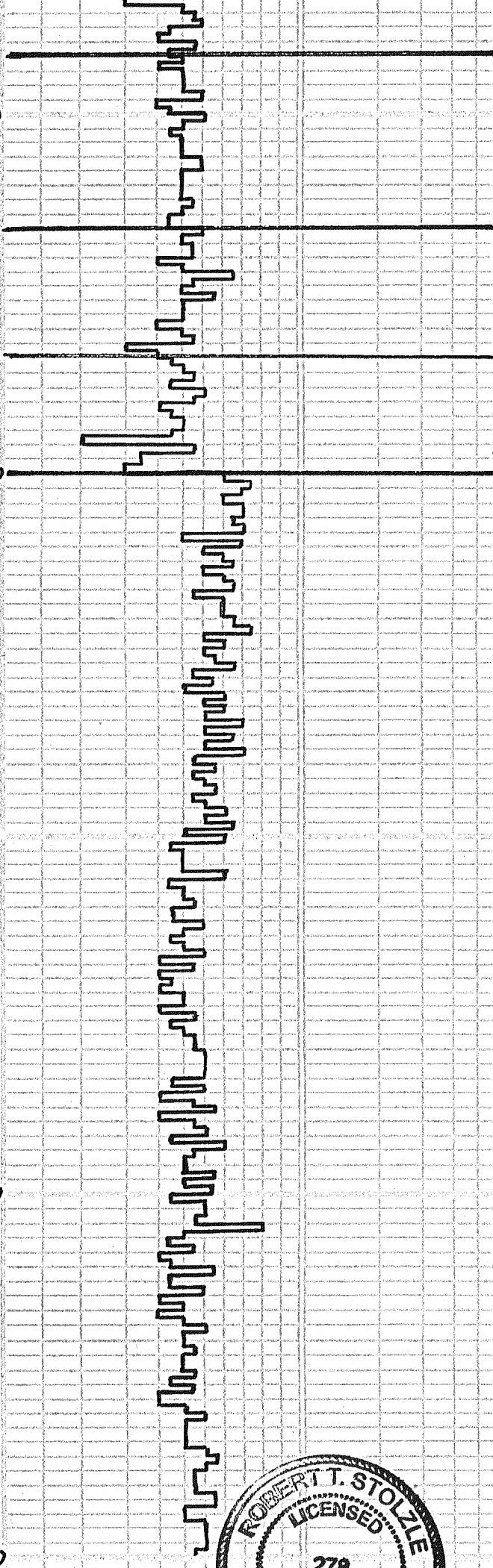


4400  
 A  
 2  
 B  
 C  
 4450  
 4500  
 1wr. Pawnee  
 3  
 4550



OCC. SANDY, EARTHY-TRACKY  
**Pleasanton Ls.**  
 Sh: gry. gn. - dk. gry. m. sft. dns. ,  
 earthy - tracky.  
 Ls: crm. - lt. gry. hrd. dns. , occ.  
 sft. , chiky. , sh. stnd. NΦ NSFOC  
 Sh: A.A.  
 Ls: crm. - tan. , hrd. dns. , VEG - mxln.  
 occ. sft. , chiky. , occ. foss.  
 fr. sh. stnd. NΦ NSFOC  
 Sh: dk. gry. - blk. , m. hrd. dns. , tracky.  
 Ls: crm. - tan. , hrd. dns. , VEG - mxln.  
 mic. , occ. foss. NΦ NSFOC  
 abun.avings from mud sweep  
 Sh: lt. gry. gn. - blk. , m. hrd. - m. sft. ,  
 dns. , earthy - tracky  
 Ls: crm. - tan. , hrd. dns. , VEG - mxln.  
 mic. , occ. foss. NΦ NSFOC  
 Ls: A.A. , dk. gry. foss. grns. + ool.  
 NΦ NSFOC  
 Sh: dk. gry. , m. sft. , dns. , earthy - tracky.  
 Ls: crm. - gry. , hrd. dns. , NΦ NSFOC  
 Ls: crm. - tan. - gry. , m. sft. - hrd. dns. ,  
 VEG - mxln. , fr. bed. , 2-3pc. w/  
 pp. , vug. , φ. , 1-2pc. chiky. w/ stn. , No  
 odor. , fr. cut + fl. , No F.O. , ?perm.  
 Ls: A.A. , fr. vug. φ. , fr. fr. pp.  
 φ. , fr. stn. in chiky Ls. , fr.  
 cut + fl. , fr. dk. brn. stn. , No  
 odor. , No F.O. , ?perm.  
 Ls: crm. - tan. - gry. , hrd. dns. , VEG -  
 mxln. , mic. , chiky. , occ. foss.  
 fr. chiky. , sh. stnd. NΦ NSFOC  
 Sh: dk. gry. , m. sft. , dns. , earthy  
 Ls: crm. - tan. - lt. gry. , hrd. dns. , VEG -  
 mxln. , mic. , occ. ch. - gry. - wh. , fr.  
 chiky. , fr. sh. stnd. NΦ NSFOC  
 Ls: A.A.  
 Sh: dk. gry. - blk. , m. hrd. dns. , carb.  
 earthy - tracky  
 Sh: A.A.  
 Ls: crm. - brn. , hrd. dns. , VEG - mxln.  
 mic. , chiky. , occ. chik. , occ. foss.  
 + sh. stnd. NΦ NSFOC  
 Ls: crm. , hrd. dns. , VEG - mxln. , mic.  
 occ. sft. + chiky. , 1-2pc. w/ fr. bed  
 stn. on sides of chip - pass. trace  
 or vug. , fr. cut + fl. , No odor. , ?perm.  
 Ls: A.A.  
 Sh: gry. - blk. , m. sft. , dns. , carb. , tracky.  
 Ls: crm. - dk. gry. , hrd. dns. ,  
 VEG - mxln. , foss. , sh. stnd. NΦ NSFOC  
 Ls: crm. - dk. gry. , hrd. dns. , VEG -  
 mxln. , mic. , occ. dk. gry. ch. , occ.  
 sft. , chiky. , foss. - v. foss. , sh.  
 stnd. , pyr. NΦ NSFOC  
 Ls: A.A.  
 Sh: blk. , m. hrd. dns. , carb. , earthy  
 Sh: A.A.  
 Ls: tan. - brn. , hrd. dns. , VEG - mxln. ,  
 occ. ool. ch. , mic. , occ. ool. w/  
 fr. pr. - fr. int. pol. φ. , fr. bldg. oil,  
 No odor. , fr. cut + fl. , thin zone.  
 Ls: crm. - brn. , hrd. dns. , VEG - mxln.  
 less. ch. , 1-2pc. ool. w/ pr. int.  
 ool. φ. , fr. stn. , wk. cut + fl. , No  
 odor. , No F.O. Vary weak show  
 Ls: A.A. , fr. ool. ch. , occ. foss. , ool.  
 NΦ NSFOC  
 Sh: blk. , m. sft. - m. hrd. dns. , carb.  
 earthy - tracky  
 Ls: crm. , sft. , chiky - hrd. dns. ,  
 VEG - mxln. , mic. , occ. foss. + ool.  
 1-2pc. w/ pr. int. ool. φ. , fr. stn. , wk.  
 cut + fl. , No odor. , No F.O. , V. wk. show  
 Ls: crm. - gry. , hrd. dns. - sft. , chiky.  
 VEG - mxln. , mic. , occ. foss. , sh.  
 stnd. NΦ NSFOC  
 Sh: blk. , m. sft. , dns. , carb. , earthy  
 Ls: crm. - tan. - gry. , hrd. dns. , VEG - mxln.  
 occ. foss. , occ. sft. , chiky. NΦ NSFOC  
 Sh: gry. - blk. , m. sft. - m. hrd. dns. ,  
 occ. carb. , tracky.  
 occ. Sh: A. , less carb.  
 Ls: crm. - tan. hrd. dns. , VEG - mxln.  
 V. s. fo. Chl. 2700

**Marmaton Gr.**  
**Alamonte Ls.**  
 (-1379') 109-1381'  
 Mud Check @ 4440'  
 M.W. 9.1  
 V.S. 66  
 W.L. 6.8  
 Chl. 2,400  
 Solids 55.7%  
 LCM 6#  
 Weak Show  
 Weak Show  
**DST #2**  
 4408' - 4515'  
 Rec. 2' M.O.  
 Der. 0°  
**Pawnee Ls.**  
 (-1459')  
 Very Weak Show  
**FL. SCOTT Ls.**  
 (-1501)  
 Weak Show  
**Cherokee Sh.**  
 (-1529')  
**DST #3**  
 4518' - 4620'  
 Rec. 70' OCM  
 Mud Check @ 4570'  
 M.W. 9.3 Solids 57.2  
 V.S. 60 Chl. 2700



fr. foss. 1 tr. stf. & chiky. it. pyr.  
 fr. ch. NΦ NSFOC  
 Ls. crm. - gry. hrd., dns., VEG - mxln.  
 mic. 1 abun. ch. occ. pebb. s. sh. var. 1  
 pc. 1 pr. fr. vug. Φ. pr. stn. it. - wk.  
 cut & fl. 1 No odor. NO F.O. ?perm  
 Ls. crm. - gry. - tan, hrd., dns., VEG - mxln.  
 mic. 1 fr. ch. 1 tr. r. ex. 1. 1 rare foss.  
 occ. sh. stn. NΦ NSFOC

**Johnston Zone (-1571)**  
 Weak Show

Ls. A.A. 13-4 pc. 1/1 pr. - fr. vug. Φ  
 1 tr. stn. 1 tr. cut & fl. 1 No odor,  
 No F.O. ?perm, thin zone

Ls. crm. - gry. hrd., dns., VEG - mxln. mic.  
 occ. foss. w/ pr. - fr. vug. Φ. occ.  
 1 vgr. vugs, 1 qd. odor. 1 st. O. 1 qd. - ex.  
 cut & fl. thin zone

Ls. A.A. NΦ NSFOC, sh. dk. gry. 1 hack.  
 Ss. gry. m. hrd., dns., mod. - w. cmtd. w.  
 s. to. 1 sub ang. - sub ang. pr. int. ang.  
 Φ. 1 qd. oil stn. 1 qd. F.O. on brk. 1 tr. odor  
 sh. gry. - dk. 1 hack. 1 abun. Ls. A.A. NΦ NSFOC

Ss. A.A. 1 tr. stf. 1 tr. A. 1 w. pr. 1 pr. cmtd.  
 qd. sat. on brk. 1 No odor. 1 qd. cut. & fl.

Ss. wh. hrd. - m. stf. 1 fr. 1 qnd. 1 sub ang.  
 mod. - w. cmtd. 1 calc. cen. 1  
 No vis. Φ, w. mod. w. s. to.

Ss. wh. - H. gry. hrd. - m. stf. 1 dns. 1  
 occ. fr. 1 tr. 1 VEG. 1 calc. cmtd.  
 1 w. cmtd. 1 sub ang. - sub ang.  
 mod. w. s. to. NΦ NSFOC

Ss. A.A. 1 occ. med. qnd. 1 ang. - sub.  
 ang. NΦ NSFOC

Ss. A.A. 1 tr. med. qnd. 1 w. well cmtd.  
 NΦ NSFOC

sh. gry. - gry. 1 qnd. 1 m. hrd. 1 dns. 1  
 hackly 1  
 Ls. crm. 1 hrd. 1 dns. 1 faxln. 1 s. ndy. NΦ  
 Ss. A.A. NSFOC

Ss. 1 Ls. crm. - wh. 1 m. hrd. 1 dns. 1  
 1 tr. VEG. 1 ln. 1 s. ndy. - 1 s. ndy.  
 occ. mod. s. to. NΦ NSFOC

Ls. wh. crm. 1 hrd. - m. hrd. 1 dns. 1 VEG  
 - mxln. 1 mic. 1 s. ndy. - 1 s. ndy. A.A.  
 tr. stf. 1 ool. - 1 w. sm. ool. + s. to.

Ls. crm. 1 m. stf. - hrd. 1 dns. 1 VEG. 1 ln. 1  
 occ. foss. 1 tr. s. ndy. 1 tr. ool. ?  
 tr. chiky NΦ NSFOC

occ. sh. gry. qnd. m. stf. 1 m. ss. cavings.  
 sh. cavings A.A. ± 50%

Ls. crm. 1 m. stf. - hrd. 1 dns. 1 VEG - mxln.  
 mic. 1 occ. s. ndy. 1 occ. foss. 1 tr.  
 chiky NΦ NSFOC

Ls. - calc. Ss. crm. 1 m. stf. - hrd. 1  
 dns. 1 fr. 1 qnd. 1 mod. w. fnd. 1 w.  
 s. to. 1 tr. foss. 1 s. ndy. 1 ool. 1 Ls.  
 abun. sh. cavings. NΦ NSFOC

Ls. s. ndy. - calc. Ss. wh. - crm. 1 m. stf.  
 - hrd. 1 dns. 1 sub ang. - hrd. 1 mod. -  
 pr. s. to. w. cmtd. 1 Ls. rare foss.

Ls. crm. 1 hrd. - m. stf. 1 dns. 1 VEG -  
 mxln. 1 s. ndy. - 1 s. ndy. 1 mod. s. to.  
 mod. w. fnd. 1 rare foss. + ool.

Ls. crm. - tan, hrd. 1 dns. 1 VEG - mxln.  
 abun. mic. 1 rare ch. 1 occ. s. ndy. 1  
 rare foss. NΦ NSFOC

abun. sh. cavings

Ls. crm. - tan, hrd. 1 dns. 1 VEG -  
 mxln. 1 mic. 1 rare s. ndy. 1 rare  
 foss. 1 1-2 pc. sh. stn. on frags  
 resembles oil NΦ NSFOC

Ls. crm. - tan, hrd. 1 dns. 1 VEG - mxln.  
 abun. mic. 1 tr. s. ndy. 1 occ. foss.  
 tr. sh. stn. 1 tr. chiky.

Ls. crm. - tan, hrd. 1 dns. 1 VEG - mxln.  
 mic. 1 occ. foss. 1 tr. sh. stn. 1  
 rare s. ndy. NΦ NSFOC

**Atoka Ls. (-1595)**  
 Very Weak Show

**Fair - Good Show**  
**Basal Penn. Ss.**  
**Good Show**  
**Fair Show**

**Mississippian**  
**(St. Genevieve)**  
**(-1629)**  
 Mud Check @ 4647'  
 M.W. 9.4  
 Vis. 62  
 WL 8.4  
 Chl. 3500  
 Solids 7.8  
 LCM 5

Mud Check @ 4768'  
 M.W. 9.2 16.19 gal.  
 Vis. 76 sec. 196.  
 WL 7.6 ml/30 min.  
 Chl. 3,000 ppm  
 Solids 6.4%  
 LCM 6#

**D.T.D. 4800'**  
**1 TD 4800'**





N. D. # 000  
Dev. 10  
Robert Logg  
7/25/12



## DRILL STEM TEST REPORT

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

250 N Water STE 300  
Wichita, KS 67202

ATTN: Bob Stolze

### **Agnes #1-7**

#### **7-16s-32w Scott,KS**

Start Date: 2012.07.21 @ 13:42:00

End Date: 2012.07.21 @ 21:12:30

Job Ticket #: 47065                      DST #: 1

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

Printed: 2012.07.25 @ 16:02:11



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

**7-16s-32w Scott,KS**

250 N Water STE 300  
Wichita, KS 67202

**Agnes #1-7**

Job Ticket: 47065

**DST#: 1**

ATTN: Bob Stolzle

Test Start: 2012.07.21 @ 13:42:00

## GENERAL INFORMATION:

Formation: **LKC "K" Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:08:00

Time Test Ended: 21:12:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Sam Esparza

Unit No: 64

**Interval: 4270.00 ft (KB) To 4310.00 ft (KB) (TVD)**

Reference Elevations: 3021.00 ft (KB)

Total Depth: 4310.00 ft (KB) (TVD)

3010.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8844 Outside**

Press @ Run Depth: 877.77 psig @ 4271.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.21

End Date:

2012.07.21

Last Calib.:

2012.07.21

Start Time: 13:42:30

End Time:

21:12:30

Time On Btm:

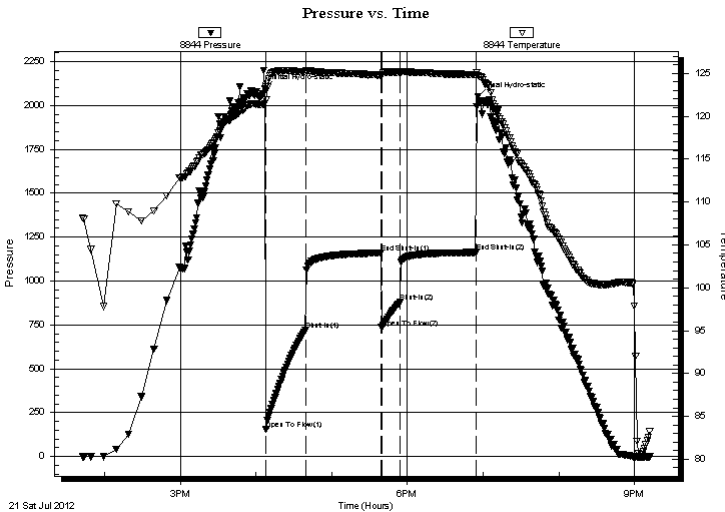
2012.07.21 @ 16:07:00

Time Off Btm:

2012.07.21 @ 18:56:00

**TEST COMMENT:** IF: BOB @ 2 min.  
IS: No return.  
FF: BOB @ 3 1/2 min.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2094.60	121.46	Initial Hydro-static
1	153.19	121.94	Open To Flow (1)
32	719.29	125.18	Shut-In(1)
92	1160.28	124.80	End Shut-In(1)
93	734.32	124.71	Open To Flow (2)
107	877.77	125.10	Shut-In(2)
167	1163.00	124.86	End Shut-In(2)
169	2051.73	124.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
260.00	MW 50m 50w	1.48
315.00	MW 20m 80w	4.42
1260.00	MW 5m 95w	17.67

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co., Inc.

**7-16s-32w Scott,KS**

250 N Water STE 300  
Wichita, KS 67202

**Agnes #1-7**

Job Ticket: 47065

**DST#: 1**

ATTN: Bob Stolzle

Test Start: 2012.07.21 @ 13:42:00

## Tool Information

Drill Pipe:	Length: 4018.00 ft	Diameter: 3.80 inches	Volume: 56.36 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 57.53 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	77000.00 lb
Depth to Top Packer:	4270.00 ft			Final	82000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	69.00 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			4242.00	
Shut In Tool	5.00			4247.00	
Hydraulic tool	5.00			4252.00	
Jars	5.00			4257.00	
Safety Joint	3.00			4260.00	
Packer	5.00			4265.00	29.00 Bottom Of Top Packer
Packer	5.00			4270.00	
Stubb	1.00			4271.00	
Recorder	0.00	8846	Outside	4271.00	
Recorder	0.00	8844	Outside	4271.00	
Perforations	35.00			4306.00	
Bullnose	4.00			4310.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**7-16s-32w Scott,KS**

250 N Water STE 300  
Wichita, KS 67202

**Agnes #1-7**

Job Ticket: 47065

**DST#: 1**

ATTN: Bob Stolzle

Test Start: 2012.07.21 @ 13:42:00

**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:

48000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
260.00	MW 50m 50w	1.479
315.00	MW 20m 80w	4.419
1260.00	MW 5m 95w	17.674

Total Length: 1835.00 ft      Total Volume: 23.572 bbl

Num Fluid Samples: 0

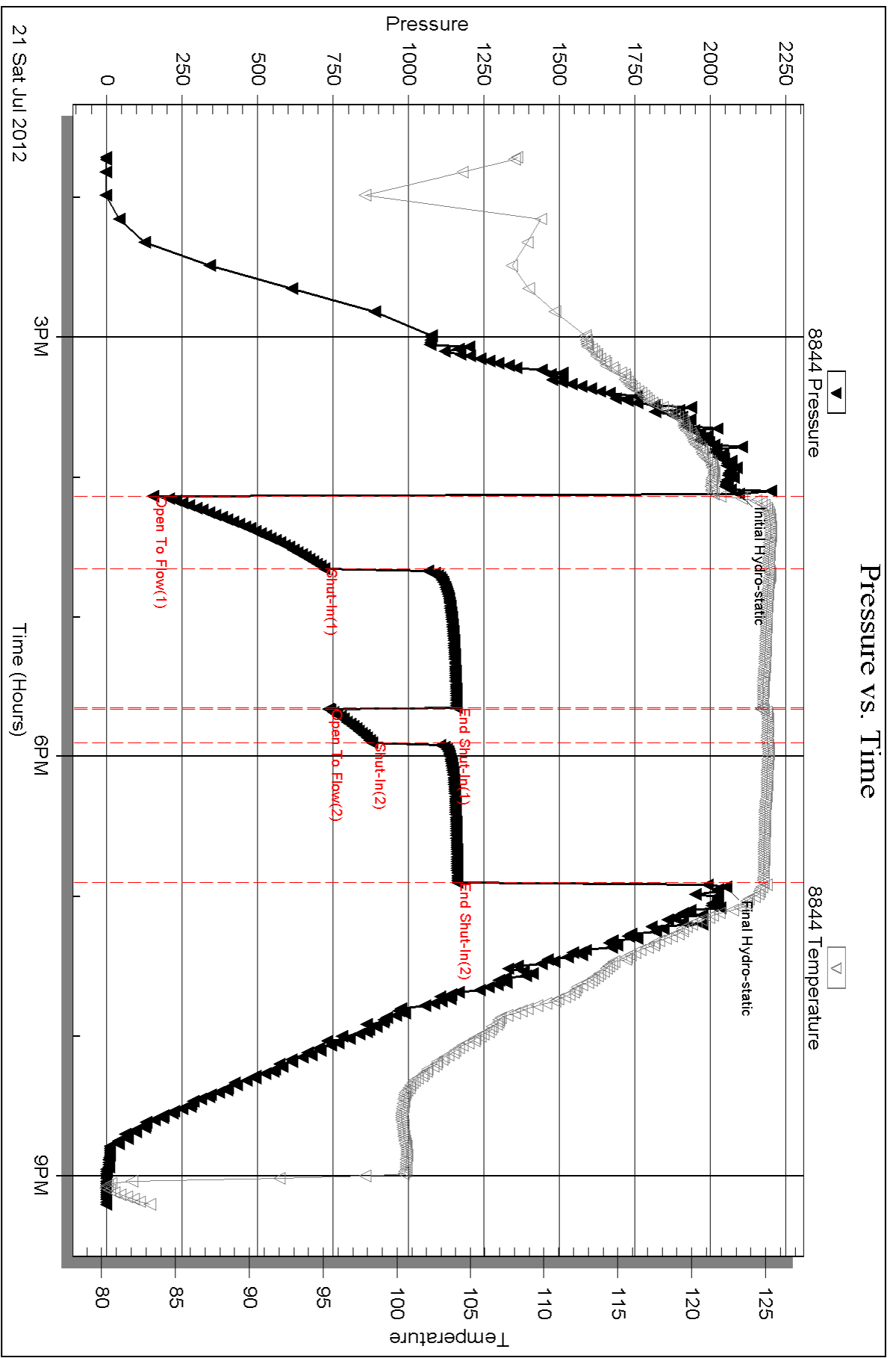
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .11 @ 98 Degrees= 48000 ppm





## DRILL STEM TEST REPORT

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

250 N Water STE 300  
Wichita, KS 67202

ATTN: Bob Stolze

**Agnes #1-7**

**7-16s-32w Scott,KS**

Start Date: 2012.07.22 @ 21:22:00

End Date: 2012.07.23 @ 04:27:30

Job Ticket #: 47065                      DST #: 2

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

Printed: 2012.07.25 @ 16:01:27



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

**7-16s-32w Scott, KS**

250 N Water STE 300  
Wichita, KS 67202

**Agnes #1-7**

Job Ticket: 47065

**DST#: 2**

ATTN: Bob Stolzle

Test Start: 2012.07.22 @ 21:22:00

## GENERAL INFORMATION:

Formation: **Marmaton- Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:18:00

Time Test Ended: 04:27:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

**Interval: 4408.00 ft (KB) To 4515.00 ft (KB) (TVD)**

Reference Elevations: 3021.00 ft (KB)

Total Depth: 4515.00 ft (KB) (TVD)

3010.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8844 Outside**

Press @ RunDepth: 19.30 psig @ 4409.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.22

End Date:

2012.07.23

Last Calib.:

2012.07.23

Start Time: 21:22:30

End Time:

04:27:30

Time On Btm:

2012.07.22 @ 23:17:00

Time Off Btm:

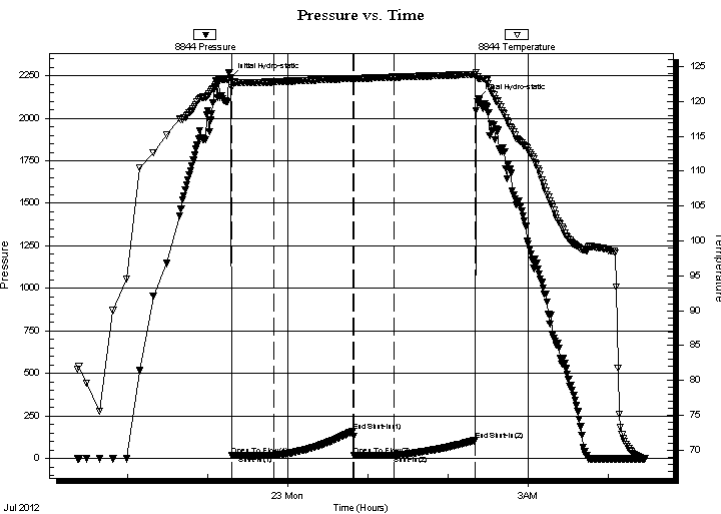
2012.07.23 @ 02:22:30

TEST COMMENT: IF: 1/4" blow died @ 28 min.

IS: No return.

FF: No blow.

FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2238.03	123.28	Initial Hydro-static
1	17.07	122.02	Open To Flow (1)
32	16.82	122.81	Shut-In(1)
92	161.21	123.30	End Shut-In(1)
93	18.10	123.28	Open To Flow (2)
122	19.30	123.48	Shut-In(2)
183	106.83	123.87	End Shut-In(2)
186	2115.75	123.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	MO 5m 95o	0.01

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co., Inc.

**7-16s-32w Scott,KS**

250 N Water STE 300  
Wichita, KS 67202

**Agnes #1-7**

Job Ticket: 47065

**DST#: 2**

ATTN: Bob Stolzle

Test Start: 2012.07.22 @ 21:22:00

## Tool Information

Drill Pipe:	Length: 4146.00 ft	Diameter: 3.80 inches	Volume: 58.16 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4408.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	107.00 ft			
Tool Length:	136.00 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			4380.00	
Shut In Tool	5.00			4385.00	
Hydraulic tool	5.00			4390.00	
Jars	5.00			4395.00	
Safety Joint	3.00			4398.00	
Packer	5.00			4403.00	29.00 Bottom Of Top Packer
Packer	5.00			4408.00	
Stubb	1.00			4409.00	
Recorder	0.00	8846	Outside	4409.00	
Recorder	0.00	8844	Outside	4409.00	
Perforations	37.00			4446.00	
Change Over Sub	1.00			4447.00	
Drill Pipe	63.00			4510.00	
Change Over Sub	1.00			4511.00	
Bullnose	4.00			4515.00	107.00 Bottom Packers & Anchor

**Total Tool Length: 136.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**7-16s-32w Scott,KS**

250 N Water STE 300  
Wichita, KS 67202

**Agnes #1-7**

Job Ticket: 47065

**DST#: 2**

ATTN: Bob Stolzle

Test Start: 2012.07.22 @ 21:22:00

## 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:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	MO 5m 95o	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl

Num Fluid Samples: 0

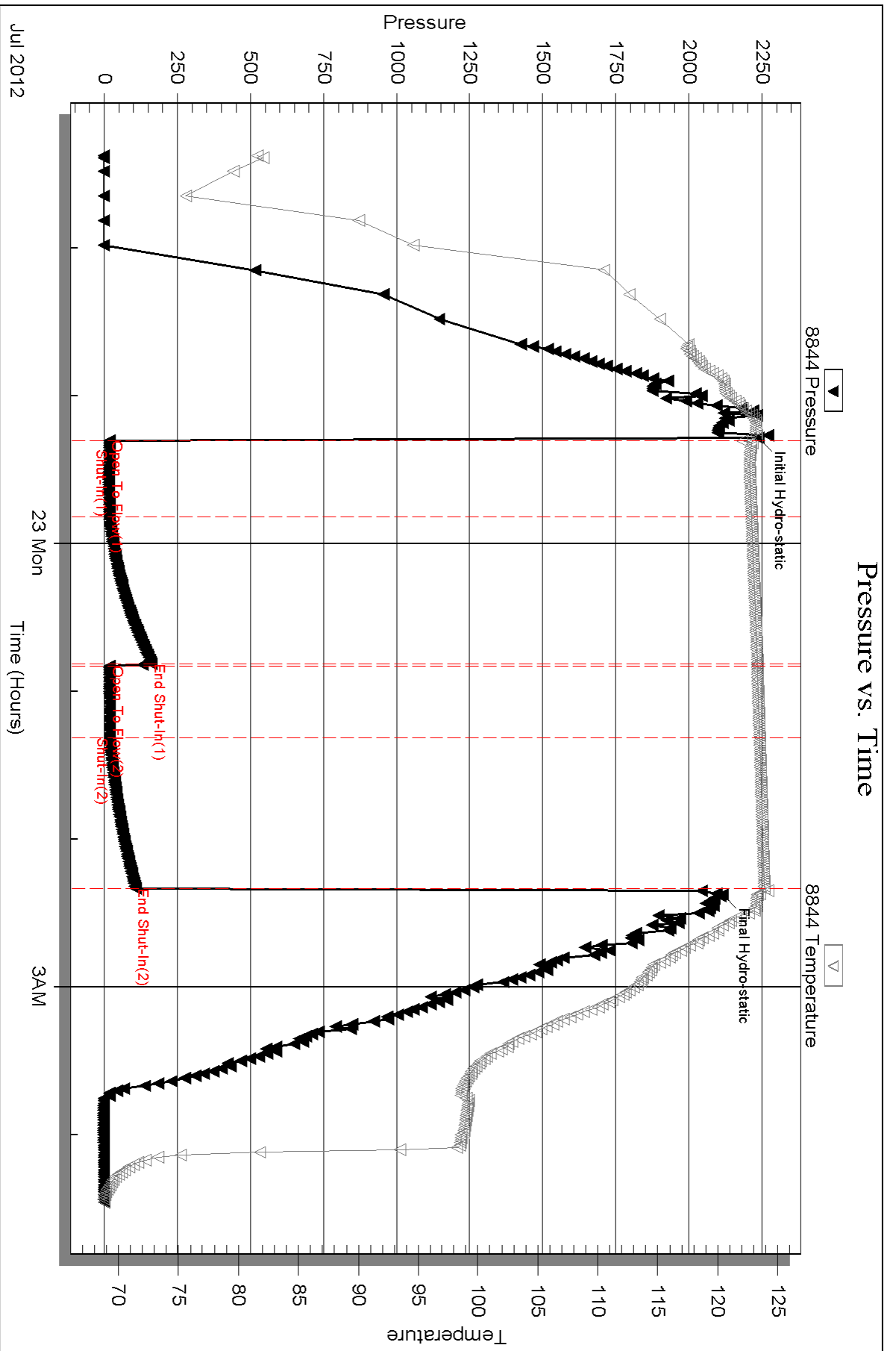
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

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

250 N Water STE 300  
Wichita, KS 67202

ATTN: Bob Stolze

### **Agnes #1-7**

#### **7-16s-32w Scott,KS**

Start Date: 2012.07.23 @ 19:12:00

End Date: 2012.07.24 @ 03:43:30

Job Ticket #: 47067                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.07.25 @ 16:00:33



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

**7-16s-32w Scott,KS**

250 N Water STE 300  
Wichita, KS 67202

**Agnes #1-7**

Job Ticket: 47067

**DST#: 3**

ATTN: Bob Stolzle

Test Start: 2012.07.23 @ 19:12:00

## GENERAL INFORMATION:

Formation: **Ft. Scott- Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:26:30

Time Test Ended: 03:43:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

**Interval: 4518.00 ft (KB) To 4620.00 ft (KB) (TVD)**

Reference Elevations: 3021.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

3010.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8844 Outside**

Press @ Run Depth: 53.63 psig @ 4519.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.23

End Date:

2012.07.24

Last Calib.: 2012.07.24

Start Time: 19:12:30

End Time:

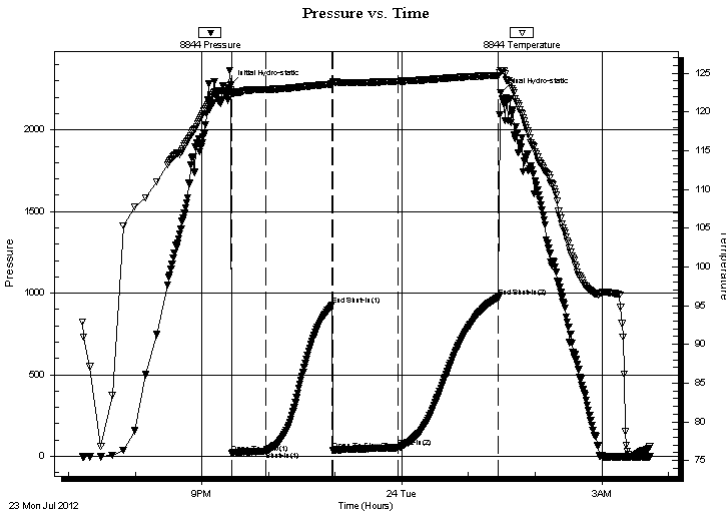
03:43:30

Time On Btm: 2012.07.23 @ 21:26:00

Time Off Btm: 2012.07.24 @ 01:29:00

**TEST COMMENT:** IF: 1 1/4" blow.  
IS: No return.  
FF: 1 1/2" blow.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.30	122.82	Initial Hydro-static
1	20.05	122.36	Open To Flow (1)
31	31.86	122.88	Shut-In(1)
91	925.77	123.58	End Shut-In(1)
92	36.34	123.84	Open To Flow (2)
151	53.63	123.95	Shut-In(2)
241	974.24	124.73	End Shut-In(2)
243	2227.97	125.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	OCM 5o 95m	0.34

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co., Inc.

**7-16s-32w Scott,KS**

250 N Water STE 300  
Wichita, KS 67202

**Agnes #1-7**

Job Ticket: 47067

**DST#: 3**

ATTN: Bob Stolzle

Test Start: 2012.07.23 @ 19:12:00

### Tool Information

Drill Pipe:	Length: 4269.00 ft	Diameter: 3.80 inches	Volume: 59.88 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 61.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4518.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	131.00 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			4490.00	
Shut In Tool	5.00			4495.00	
Hydraulic tool	5.00			4500.00	
Jars	5.00			4505.00	
Safety Joint	3.00			4508.00	
Packer	5.00			4513.00	29.00 Bottom Of Top Packer
Packer	5.00			4518.00	
Stubb	1.00			4519.00	
Recorder	0.00	8845	Outside	4519.00	
Recorder	0.00	8844	Outside	4519.00	
Perforations	20.00			4539.00	
Change Over Sub	1.00			4540.00	
Drill Pipe	63.00			4603.00	
Change Over Sub	1.00			4604.00	
Perforations	12.00			4616.00	
Bullnose	4.00			4620.00	102.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>131.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**7-16s-32w Scott,KS**

250 N Water STE 300  
Wichita, KS 67202

**Agnes #1-7**

Job Ticket: 47067

**DST#: 3**

ATTN: Bob Stolzle

Test Start: 2012.07.23 @ 19:12:00

## 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	OCM 5o 95m	0.344

Total Length: 70.00 ft      Total Volume: 0.344 bbl

Num Fluid Samples: 0

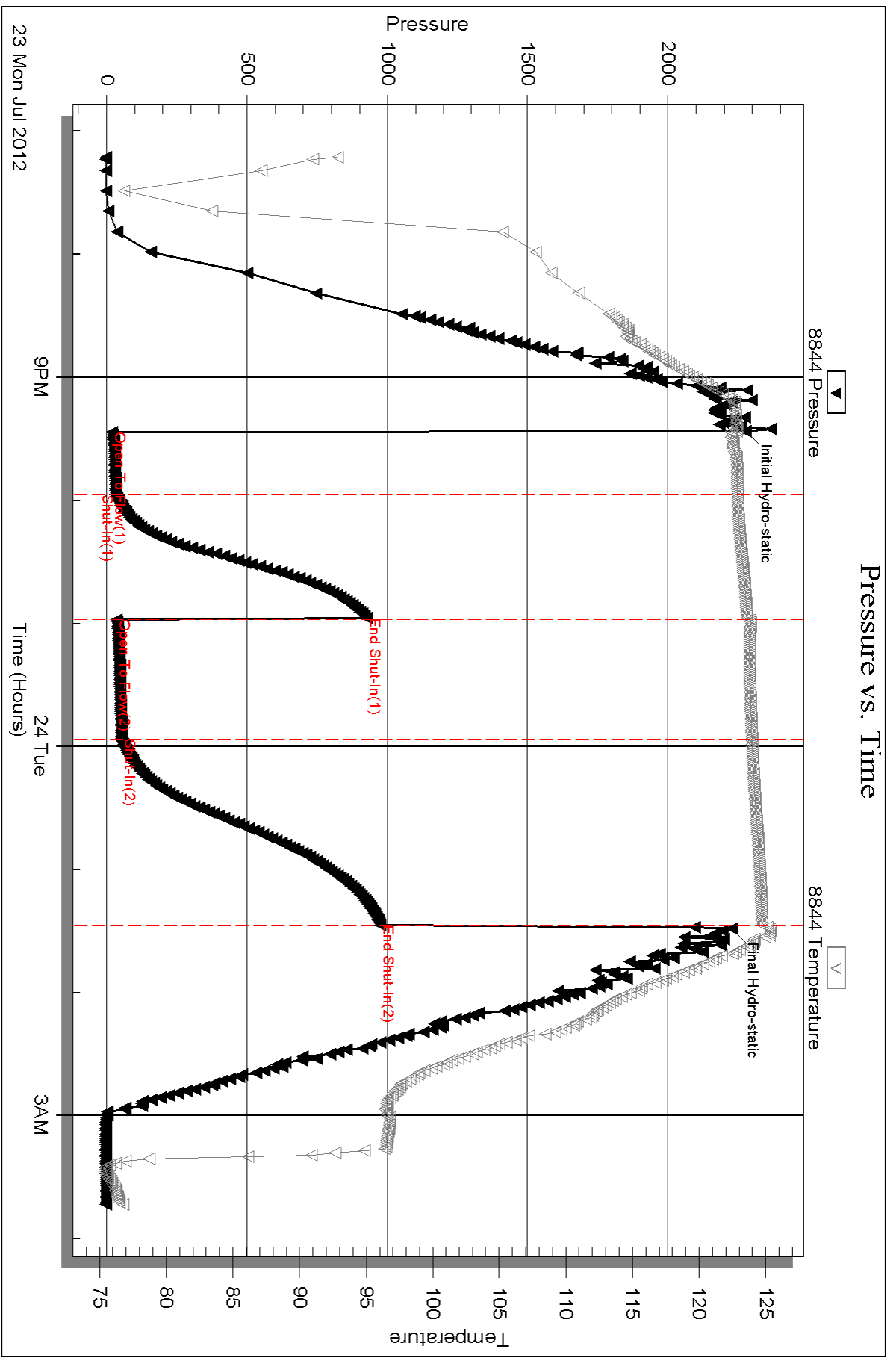
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

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

250 N Water STE 300  
Wichita, KS 67202

ATTN: Bob Stolze

### **Agnes #1-7**

#### **7-16s-32w Scott,KS**

Start Date: 2012.07.24 @ 01:09:00

End Date: 2012.07.24 @ 09:43:30

Job Ticket #: 47068                      DST #: 4

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

Printed: 2012.07.25 @ 15:59:43



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

**7-16s-32w Scott, KS**

250 N Water STE 300  
Wichita, KS 67202

**Agnes #1-7**

Job Ticket: 47068

**DST#: 4**

ATTN: Bob Stolzle

Test Start: 2012.07.24 @ 01:09:00

## GENERAL INFORMATION:

Formation: **Atoka-Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:21:30

Time Test Ended: 09:43:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

**Interval: 4607.00 ft (KB) To 4647.00 ft (KB) (TVD)**

Reference Elevations: 3021.00 ft (KB)

Total Depth: 4647.00 ft (KB) (TVD)

3010.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8844 Outside**

Press @ Run Depth: 43.74 psig @ 4608.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.24

End Date:

2012.07.24

Last Calib.:

2012.07.24

Start Time: 01:09:30

End Time:

09:43:30

Time On Btm:

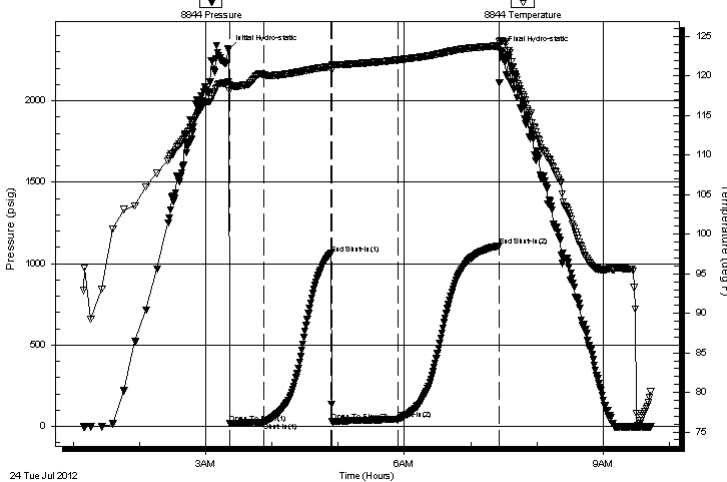
2012.07.24 @ 03:21:00

Time Off Btm:

2012.07.24 @ 07:27:30

**TEST COMMENT:** IF: 1 1/4" Blow.  
IS: No return.  
FF: 3 1/4" Blow.  
FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2315.99	119.32	Initial Hydro-static
1	17.17	118.16	Open To Flow (1)
32	26.31	120.10	Shut-In(1)
93	1061.85	121.22	End Shut-In(1)
94	30.49	121.40	Open To Flow (2)
154	43.74	122.05	Shut-In(2)
245	1109.28	123.83	End Shut-In(2)
247	2306.46	124.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 5o 95m	0.02
60.00	OCM 20o 80m	0.30

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co., Inc.

**7-16s-32w Scott,KS**

250 N Water STE 300  
Wichita, KS 67202

**Agnes #1-7**

Job Ticket: 47068

**DST#: 4**

ATTN: Bob Stolzle

Test Start: 2012.07.24 @ 01:09:00

## Tool Information

Drill Pipe:	Length: 4365.00 ft	Diameter: 3.80 inches	Volume: 61.23 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 62.40 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	75000.00 lb
Depth to Top Packer:	4607.00 ft			Final	75000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	69.00 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			4579.00	
Shut In Tool	5.00			4584.00	
Hydraulic tool	5.00			4589.00	
Jars	5.00			4594.00	
Safety Joint	3.00			4597.00	
Packer	5.00			4602.00	29.00 Bottom Of Top Packer
Packer	5.00			4607.00	
Stubb	1.00			4608.00	
Recorder	0.00	8846	Outside	4608.00	
Recorder	0.00	8844	Outside	4608.00	
Perforations	35.00			4643.00	
Bullnose	4.00			4647.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**7-16s-32w Scott,KS**

250 N Water STE 300  
Wichita, KS 67202

**Agnes #1-7**

Job Ticket: 47068

**DST#: 4**

ATTN: Bob Stolzle

Test Start: 2012.07.24 @ 01:09:00

## 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: 62.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OCM 5o 95m	0.025
60.00	OCM 20o 80m	0.295

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0

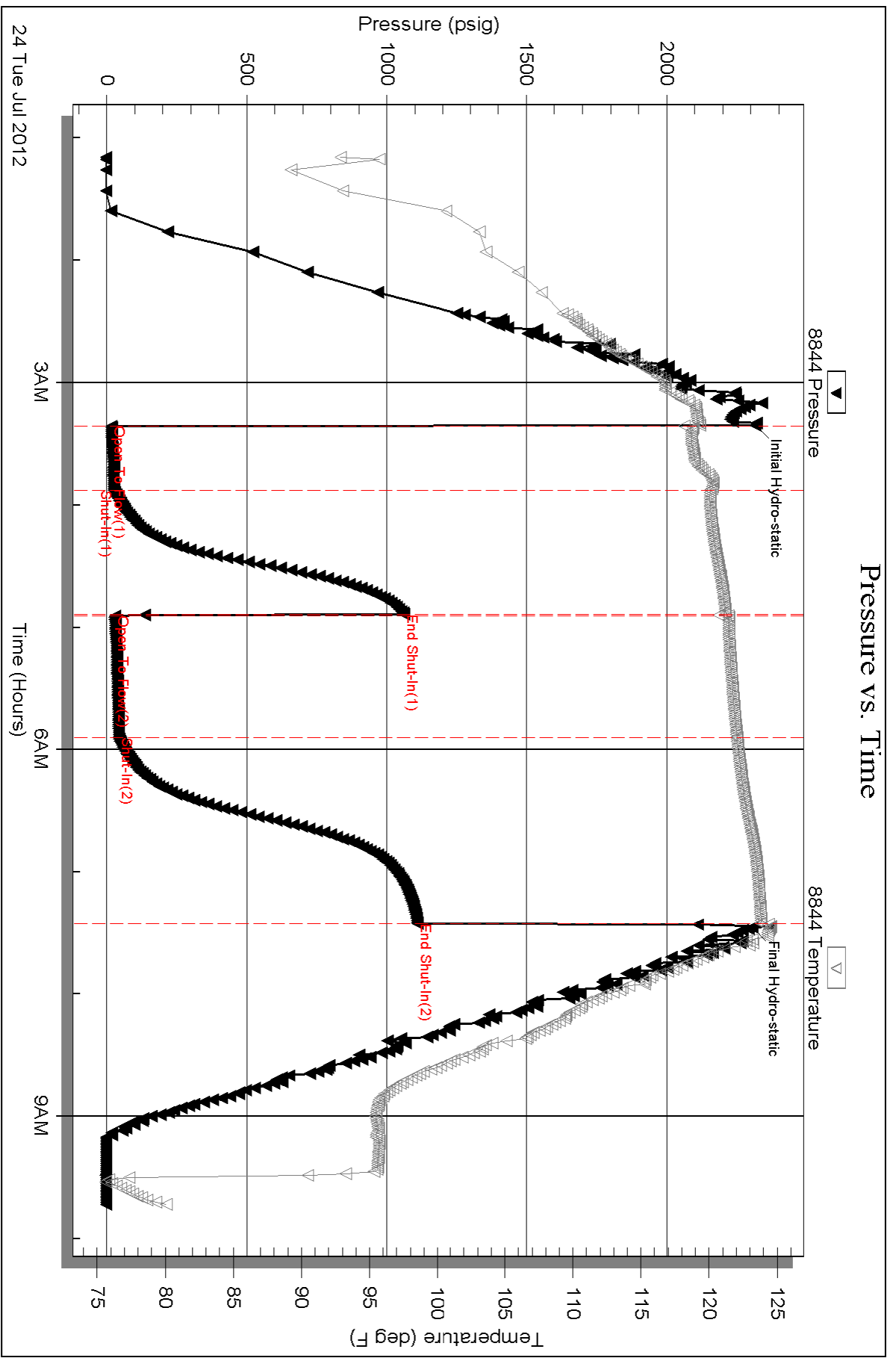
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. **47065**

Well Name & No. Agnes #1-7 Test No. 1 Date 7/21/12  
 Company Murfin Drilling Co., Inc Elevation 3021 KB 3010 GL  
 Address 250 N Water STE 300 Wichita, Ks 67202  
 Co. Rep / Geo. Bob Stolze Rig Murfin #21  
 Location: Sec. NE7 Twp. 16E Rge. 32W Co. Scott State Ks

Interval Tested 4270-4310 Zone Tested LKC "K" zone  
 Anchor Length 40' Drill Pipe Run 4018 Mud Wt. 9.3  
 Top Packer Depth 4266 Drill Collars Run 238 Vis SS  
 Bottom Packer Depth 4270 Wt. Pipe Run 0 WL 6.4  
 Total Depth 4310 Chlorides 2300 ppm System LCM 6

Blow Description BoB @ 2 min.  
No Return.  
BoB @ 3 1/2 min.  
No Return.

Rec	Feet of MW	%gas	%oil	%water	%mud
<u>260</u>				<u>50</u>	<u>50</u>
<u>315</u>				<u>80</u>	<u>20</u>
<u>1260</u>				<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1635 BHT 125 Gravity — API RW all @ 98 °F Chlorides 48,000 ppm

(A) Initial Hydrostatic	<u>2095</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>12:00</u>
(B) First Initial Flow	<u>153</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>13:42</u>
(C) First Final Flow	<u>719</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>16:08</u>
(D) Initial Shut-In	<u>1160</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>18:54</u>
(E) Second Initial Flow	<u>734</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>21:13</u>
(F) Second Final Flow	<u>878</u>	<input checked="" type="checkbox"/> Mileage	<u>40 R/T</u> 62	Comments	
(G) Final Shut-In	<u>1163</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2052</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>15</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>60</u>	<input type="checkbox"/> Day Standby		Total	<u>1637</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1637</u>		

Approved By Robert Stally Agent Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged or lost 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.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47066

4/10

Well Name & No. Agnes #1-7 Test No. 2 Date 7/22/12  
 Company Murfin Drilling Co., Inc Elevation 3021 KB 3010 GL  
 Address 250 N Water STE 300 Wichita, Ks 67202  
 Co. Rep / Geo. Bob Stolze Rig Murfin #21  
 Location: Sec. NE7 Twp. 16S Rge. 32W Co. Scott State KS

Interval Tested 4408-4515 Zone Tested Marmaton-Pawnee  
 Anchor Length 107' Drill Pipe Run 4146 Mud Wt. 9.1  
 Top Packer Depth 4404 Drill Collars Run 238 Vis 60  
 Bottom Packer Depth 4408 Wt. Pipe Run Ø WL 6.8  
 Total Depth 4515 Chlorides 2400 ppm System LCM 6  
 Blow Description 1/4" Blow died @ 28min.  
No Return.  
No Blow.  
No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>MCO</u>		<u>95</u>		<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 124 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2238</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>21:00</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>21:22</u>
(C) First Final Flow <u>17</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>23:18</u>
(D) Initial Shut-In <u>161</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2:20</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>4:28</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>40 R/T</u> 62	Comments
(G) Final Shut-In <u>107</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2116</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1637</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1637</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47067

Well Name & No. Agnes #1-7 Test No. 3 Date 7/23/12  
 Company Murfin Drilling Co., Inc Elevation 3221 KB 3010 GL  
 Address 250 N Water STE 300 Wichita, Ks 67202  
 Co. Rep / Geo. Bob Stolzie Rig Murfin #21  
 Location: Sec. NE7 Twp. 16S Rge. 32W Co. Scott State Ks

Interval Tested 4518-4620 Zone Tested Ft. Scott - Johnson  
 Anchor Length 102' Drill Pipe Run 4269 Mud Wt. 9.3  
 Top Packer Depth 4514 Drill Collars Run 238 Vis 58  
 Bottom Packer Depth 4518 Wt. Pipe Run Ø WL 7.2  
 Total Depth 4620 Chlorides 2700 ppm System LCM 5  
 Blow Description 1 1/4" Blow,  
No Return.  
1 1/2" Blow,  
No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Feet of OCM</u>		<u>5</u>		<u>95</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 70 BHT 124 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2275</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>18:30</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>19:12</u>
(C) First Final Flow <u>32</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>21:26</u>
(D) Initial Shut-In <u>926</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1:28</u>
(E) Second Initial Flow <u>36</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>3:44</u>
(F) Second Final Flow <u>54</u>	<input checked="" type="checkbox"/> Mileage <u>40 R/T</u> 62	Comments
(G) Final Shut-In <u>97H</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2228</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1637</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1637</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.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47068

Well Name & No. Agnes #1-7 Test No. 4 Date 7/24/12  
 Company Murfin Drilling Co., Inc Elevation 3021 KB 3010 GL  
 Address 250 N Water STE 300 Wichita, KS 67202  
 Co. Rep / Geo. Bob Stoizle Rig Murfin #21  
 Location: Sec. NE 7 Twp. 16 S Rge. 32 W Co. Scott State KS

Interval Tested 4607-4647 Zone Tested Atoka - Morrow  
 Anchor Length 40' Drill Pipe Run 4365 Mud Wt. 9.4  
 Top Packer Depth 4603 Drill Collars Run 238 Vis 62  
 Bottom Packer Depth 4607 Wt. Pipe Run Ø WL 8.4  
 Total Depth 4647 Chlorides 3500 ppm System LCM 5  
 Blow Description 1 1/4" Blow.  
No Return.  
3 1/4" Blow.  
No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OCM</u>		<u>5</u>		<u>95</u>
<u>60</u>	<u>OCM</u>		<u>20</u>		<u>80</u>

Rec Total 65 BHT 124 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2316</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>13:00</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>13:09</u>
(C) First Final Flow <u>26</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>15:22</u>
(D) Initial Shut-In <u>1062</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>19:25</u>
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>21:44</u>
(F) Second Final Flow <u>44</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT X2</u> 124	Comments <u>picked up tools @ 1:00pm</u>
(G) Final Shut-In <u>1109</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2306</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1699</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1699</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.





PO Box 93999  
Southlake, TX 76092

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

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Prod-Lizt*

# INVOICE

Invoice Number: 131980

Invoice Date: Jul 16, 2012

Page: 1

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

**PROD COPY**



Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Agnes #1-7	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jul 16, 2012	8/15/12

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Class A Common	16.25	2,681.25
6.00	MAT	Chloride	58.20	349.20
173.25	SER	Cubic Feet	2.10	363.83
255.68	SER	Ton Mileage	2.35	600.85
1.00	SER	Surface	1,125.00	1,125.00
32.00	SER	Pump Truck Mileage	7.00	224.00
1.00	SER	Manifold Swedge Rental	200.00	200.00
32.00	SER	Light Vehicle Mileage	4.00	128.00
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Brandon Wilkinson		

Account	Inv. No.	Inv. Date	Amount	Description
FD203	3.	0084.0001	3938.42	Cement S. Co. #1-7
				OK12

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

**\$ 1985.24**

ONLY IF PAID ON OR BEFORE

**Aug 10, 2012**

Subtotal	5,672.13
Sales Tax	251.53
Total Invoice Amount	5,923.66
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,923.66</b>

*(1985.24)*

*3938.42*



# ALLIED OIL & GAS SERVICES, LLC 056238

Federal Tax I.D.# 20-5976804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT

*Cakley*

DATE <i>7-16-12</i>	SEC. <i>7</i>	TWP. <i>16</i>	RANGE <i>32</i>	CALLED OUT	ON LOCATION <i>12:00 PM</i>	JOB START <i>1:00 PM</i>	JOB FINISH <i>1:30 PM</i>
LEASE <i>Plynos</i>	WELL # <i>1-7</i>	LOCATION <i>Cakley ST to 95 Hwy 1W</i>			COUNTY <i>Scott</i>	STATE <i>Ks</i>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)		Sinto			1.01		8.3

CONTRACTOR *Murfin #21*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. *227*

CASING SIZE *8 7/8* DEPTH *227*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *13.56*

EQUIPMENT

PUMP TRUCK CEMENTER *Darren Raette*

# *428-281* HELPER *Tyler Flipse*

BULK TRUCK

# *347* DRIVER *Brandon Wilkison*

BULK TRUCK

# DRIVER

REMARKS:

*Mix 165 SKs Cement*

*Displace with water*

*Cement did circulate*

*Thank You*

CHARGE TO: *Murfin*

STREET

CITY STATE ZIP

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 *Juan Tinoco*

SIGNATURE *Juan Tinoco*

OWNER *Same*

CEMENT

AMOUNT ORDERED *165 SKs Com 3% CC*

COMMON *165 SKs @ \$16.25 = \$2681.25*

POZMIX @

GEL @

CHLORIDE *6 SKs @ \$58.20 = \$349.20*

ASC @

HANDLING *173.25 x @ \$2.10 = \$363.83*

MILEAGE *8.99 x 32 x @ \$2.35 = \$680.88*

*255.68* TOTAL *\$3995.13*

SERVICE

DEPTH OF JOB *227'*

PUMP TRUCK CHARGE *\$1125.00*

EXTRA FOOTAGE @

MILEAGE *32 @ \$7.00 = \$224.00*

MANIFOLD *Wedge @ \$200.00*

*L.V mileage @ \$4.00 = \$128.00*

TOTAL *\$1677.00*

PLUG & FLOAT EQUIPMENT

@@@

TOTAL

SALES TAX (if Any) *251.52*

TOTAL CHARGES *3,672.13*

DISCOUNT *35 1985.24* IF PAID IN 30 DAYS



PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 132076  
Invoice Date: Jul 26, 2012  
Page: 1

*www.  
prod-sy.H.*



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Agnes #1-7	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jul 26, 2012	8/25/12

Quantity	Item	Description	Unit Price	Amount
180.00	MAT	Class A Common	16.25	2,925.00
120.00	MAT	Pozmix	8.50	1,020.00
10.00	MAT	Gel	21.25	212.50
75.00	MAT	Flo Seal	2.70	202.50
322.20	SER	Cubic Feet	2.10	676.62
430.52	SER	Ton Mileage	2.35	1,011.74
1.00	SER	Plug to Abandon	1,250.00	1,250.00
32.00	SER	Pump Truck Mileage	7.00	224.00
32.00	SER	Light Vehicle Mileage	4.00	128.00
1.00	EQP	8.5/8 Top Wooden Plug	92.00	92.00
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Jeremy Sterger		

*ok*

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

**\$ 2709.82**

ONLY IF PAID ON OR BEFORE  
**Aug 20, 2012**

Subtotal	7,742.36
Sales Tax	642.62
Total Invoice Amount	8,384.98
Payment/Credit Applied	
<b>TOTAL</b>	<b>8,384.98</b>

