



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1075783
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: _____

1075783

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

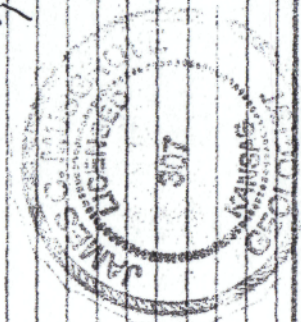
COMPANY <u>Mai Oil Operations Inc.</u>	ELEVATIONS
LEASE <u>Flegler 'C' #2</u>	KB <u>1876</u>
FIELD <u>Trapp</u>	DF _____
LOCATION <u>Ne-se-sw-se (450' FSL, 1355' FEL)</u>	GL <u>1868</u>
SEC <u>11</u> TWP <u>15^S</u> RGE <u>14^W</u>	Measurements Are All From <u>- K.B. -</u>
COUNTY <u>Russell</u> STATE <u>Kansas</u>	
CONTRACTOR <u>Southwind Drilling Co. (rig #3)</u>	CASING
SPUD <u>12/5/2011</u> COMP <u>12/14/2011</u>	SURFACE <u>8 5/8" x 46'</u>
RTD <u>3401</u> LTD <u>3399</u>	PRODUCTION _____
MUD UP <u>2200</u> TYPE MUD <u>Chemical displaced</u>	ELECTRICAL SURVEYS
	By <u>Superior well services DIL, CNL/CBL, micro</u>
SAMPLES SAVED FROM <u>2300</u> TO _____	
DRILLING TIME KEPT FROM <u>2300</u> TO _____	RTD
SAMPLES EXAMINED FROM <u>2300</u> TO _____	
GEOLOGICAL SUPERVISION FROM <u>2400</u> TO _____	
GEOLOGIST ON WELL <u>Jim Musgrove</u>	

FORMATION TOPS	LOG	SAMPLES
anhydrite	855 - 1021	Arbuckle 3336 - 1460
Base anhydrite	893 - 983	R.T.D 3401 - 1525
Grand Haven	2421 - 545	L.T.D 3399 - 1523
Dover	2445 - 569	
Tarkio lime	2491 - 615	
Elmont	2536 - 680	
Howard	2696 - 820	
Topella	2767 - 891	
Hebner	2994 - 1118	
Toronto	3010 - 1134	
Wansing	3057 - 1181	

REMARKS

5 1/2" production casing was set & cemented.

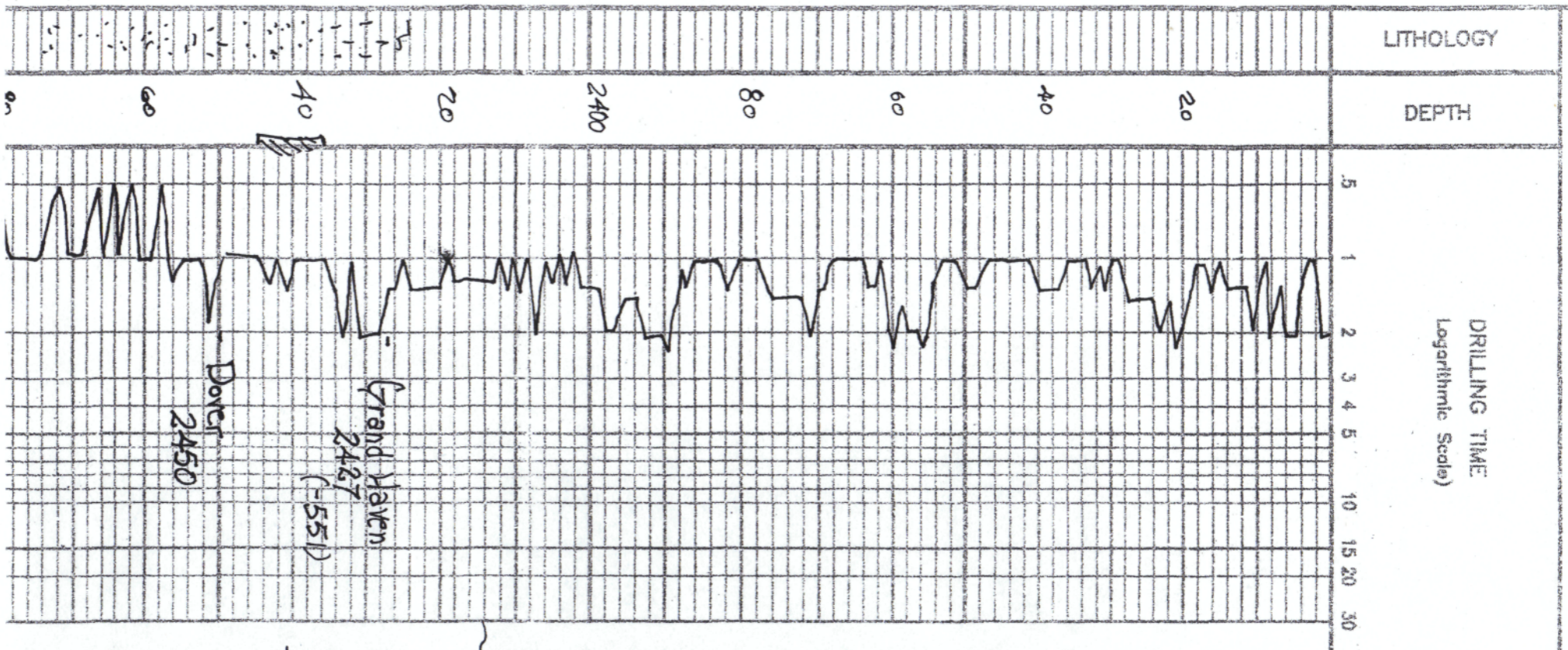
Respectfully Submitted
James C. Musgrove
Petroleum Geologist
William R. Austin



LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carbonate
- Limestone
- Oil Lime
- Chert
- Dolomite

DRILLING TIME



SAMPLE DESCRIPTIONS

poor samples

Junk

~ ve. soft silty sh

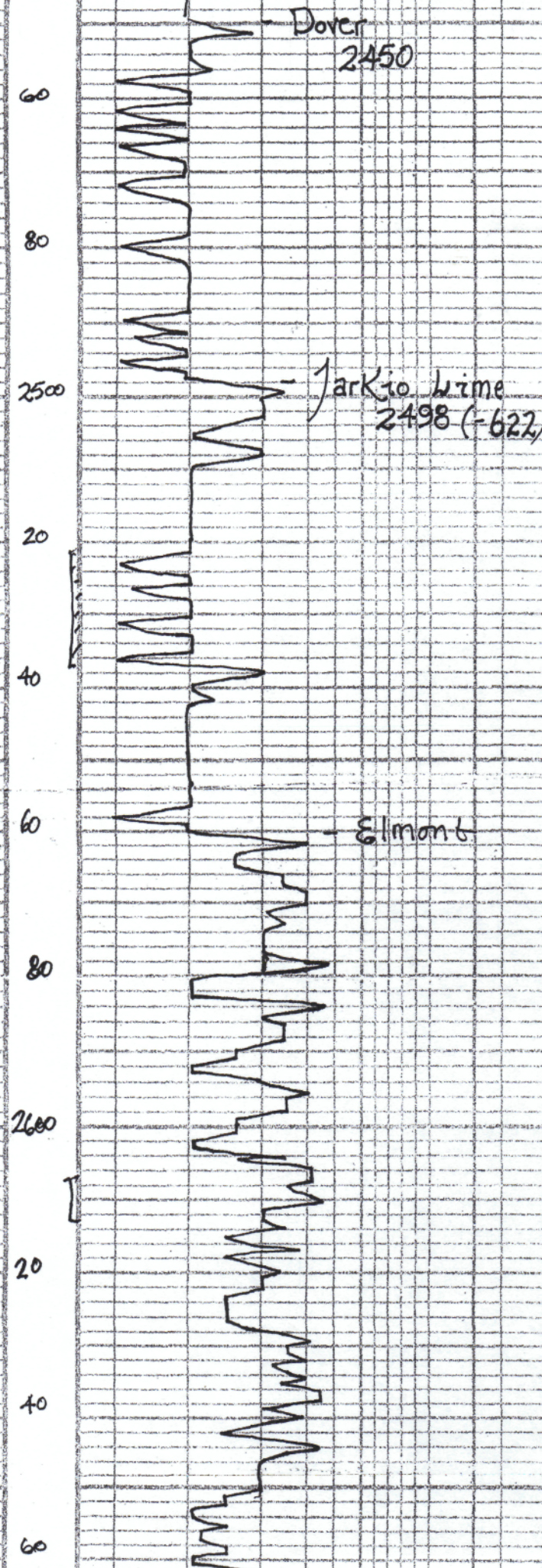
~ 1.5 tan/gry; (sxl) foss in part; poor g

~ sd, wh brownish green vfg; sub rounded; yr. brown sh. yr. fg no odor

~ 1r sand; gry; vfg; sub sh; sub rounded; friable; gr. fg; mica brown sh; spe; no odor. (shaly)

REMARKS

- 1876 KB -



Dover
2450

no odor /
 }
 Jr. Sand) gm, vfg, sub s;
 sub rounded, friable, fr. Ig, mica
 brown sth, sfo, no odor. (shaly)
 }
 }

Jarkio Lime
2498 (-622)

ls, tan/gm (xL)
 foss; chky - poor of

gm/greyish green silty sh

sd; gm/greyish green, vfg;
 sub s - few sub rounded, fr - sorting;
 friable, mica, Jr. brown sth
 sfo, no odor

gm/silty - gummy sh

Elimont

ls, tan/gm, few foss
 chky

gm/green sh

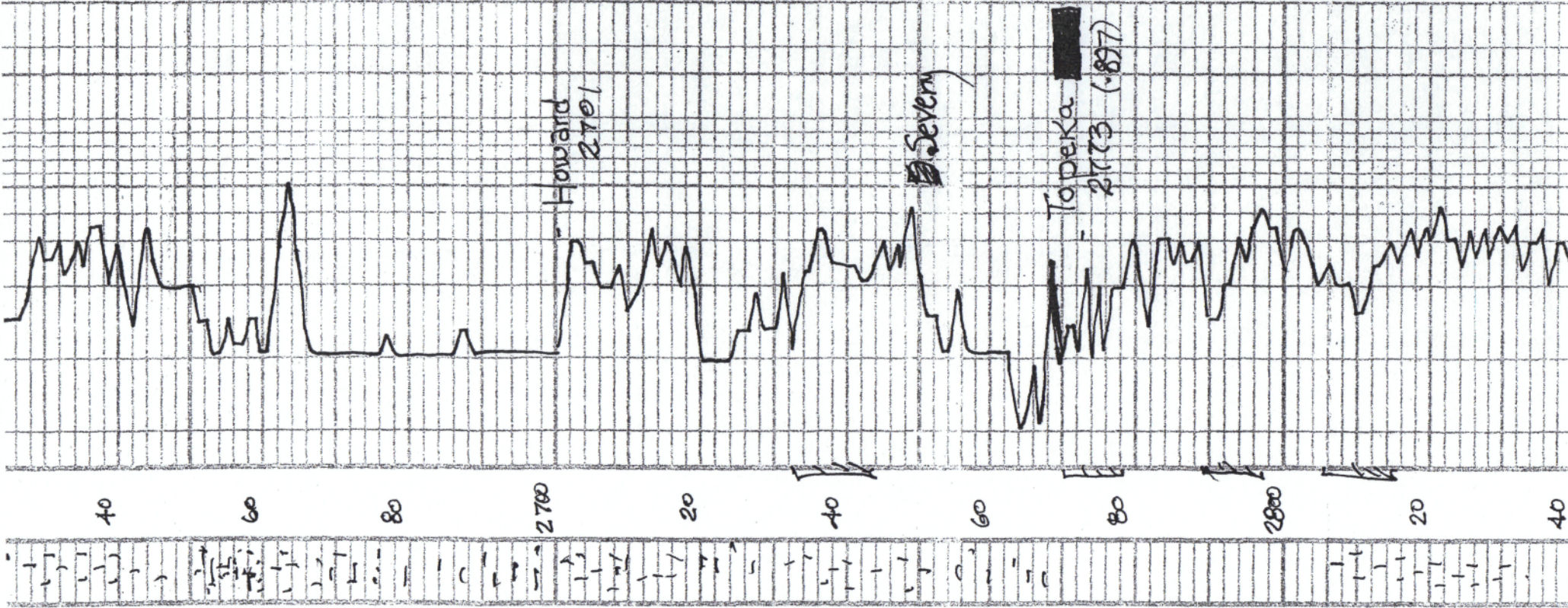
ls, tan/gm - chky foss
 poor of

inc/gm - green/gm sh

gm - blk sh

ls, tan, fr, chky -
 foss - poor of

Jr. sd) gm/vfg, scott of
 ??? sth, m sfo, no odor



ls, tan (fx) cherty
foss - poor

21. 200 gm (fx), scatt. f
?? sh, mss, no odor

ls, gm (wh) cherty - dem

32

ls sand / gy - greenish gm
silty sh

32

ls, gm / cm, (fx) few
foss, cherty - few dis
(disc)

ls gm / blk sh

ls, ea.

ls gm / greenish green silty
nice sh

ls, gm (fx - L) few foss
scatt. of rns

ls, wh / gm, (fx) foss
?? discoloration, mss
no odor

ls, gm - wh, (fx) foss
green, poor vis of rns

32

2999

(-1123)

Toronto

3014

(-1138)

Douglas

3031

Lansing

3063

2

3

4

20

40

60

80

3/80

20

40

60

80

3200

~ grey-green ss
LS, wh/ tan fxl, slightly
dolomitic, some pp-g,
brown/golden brown str
sfo) ??? odor

Shale; grey-green
Silty mica in part

grey silty shale
mica in part

LS - cream fine dense to 1x6
/ brown str to spotty fo (pic)
very st odor

grey-green shale

LS - cream - wh. finely cool - some
chky fr some golden brown str sfo
st good odor

LS - cream - tan some chky fr - good
some brown str sfo to gbs fr good
odor

LS, grey/cream, chky - dense

Dr. grey/blue sh

LS; grey/wh fxl, finely cool;
brown/dk. brown str, Dr. fo, no odor

LS, wh, highly oil, good
good golden brown str, sfo,
??? odor

LS; cream/grey, some, good some
? str; sfo, odor

LS, wh/grey, chky, poor vis

???

Dr. grey

black sh

LS - cream/wh. slight

DST #2 2999
30-30-45-
Blow; fair built
Final BOB in 8m
Weak surface blow
Recovery 200' G
35' V
(3/10) 97
30' 90
(10/10) 10/10

Pressure 15IP 26
FSIP 41
IFP 14-
FFP 30-
HSH 149
-14

DST #3 3072
45-45-45-4
Blow; BOB in 7
4 1/2" blow back
Final BOB in 13m
5" blow back

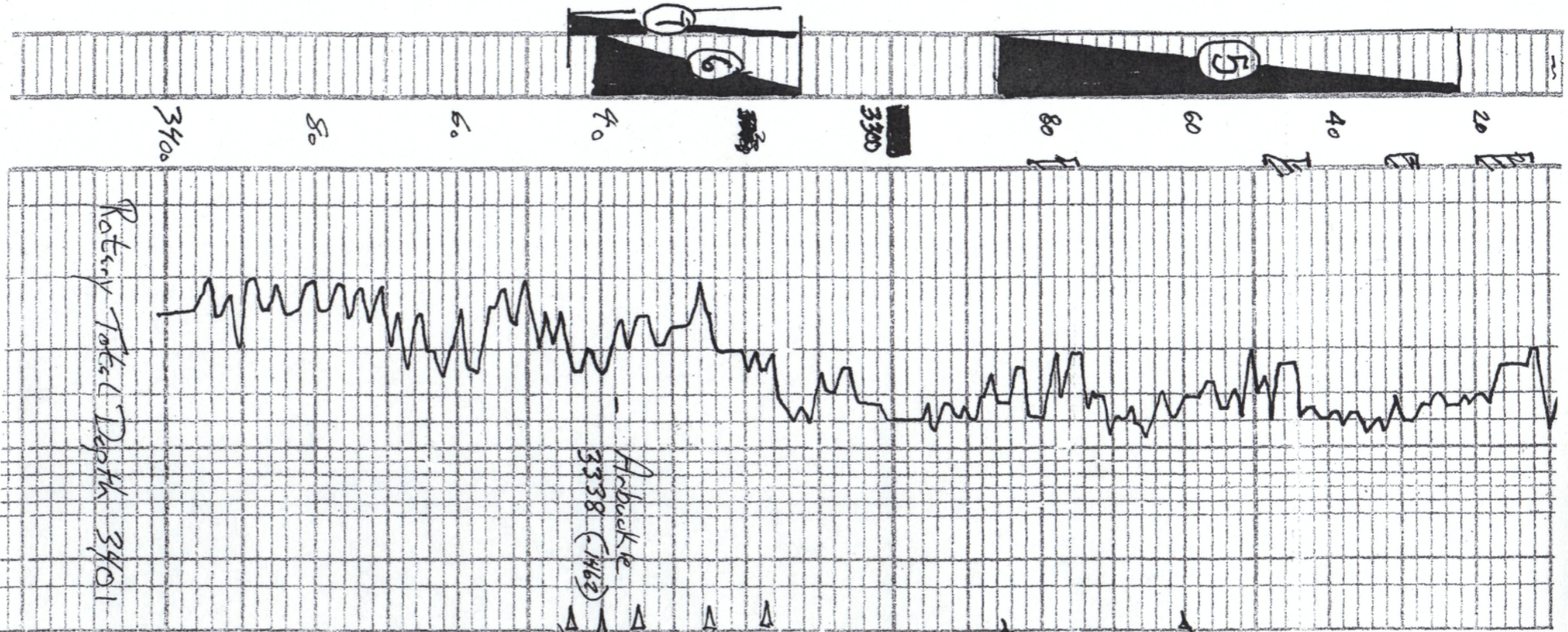
Recovery 255
70' 7
75' 9
(15/10) 15/10 10/10
85' 11
5' m

Pressure 15IP 40
FSIP 39
IFP 18-
FFP 76-
HSH 150-
-14

DST #4 3126
45-45-45-4
Blow; BOB in 2m
Final BOB in 11m
No blow back

Recovery 5' VSOCI
525' mud
10' mud

Pressure 15IP 32
FSIP 23



LS, gray, w/ly, slightly
fossiliferous, m.

151P 23
F51P 23
F5P 176-
HSH 153
-14

LS, gray, w/ly, fossiliferous
poorly dev., thin shaly
to ss.

DST# 5 3223
45-45-45-
Blow. BOB in 8

LS, gray, crin, ool, cherty
brown sh., (rifer) nodular

1" blow back
Final BOB in 14 1/2
1" blow back

gray - mac sh. slt.

Recovery 60' @
20' @
70' m

LS, con. 14. gray, fine, fine
dense sh.

Pressure 151P 2
F51P 5
F5P 8
F5P 16
HSH 16

LS, con. ool, few s. sh.
thin sh. to N. sh.
gray - med - green sh. slt.

LS, Tan. con. fine dense sh. sh.
to highly ool. ls. sh. to ss.

DST# 6 3312
30-30-30-
Blow, weak-no
Recovery 1' oil
4' mud

dol. sh. med. xl. fossils.
to thin spotty in thin fossils

Pressure 151P
F51P 1
F5P 1
F5P 1
HSH 1

dolomite. con. sh. f. med. xl
to 1/2" to 1" brn sh. ss. to sh. ol. c.

dol. ac dense to brn sh.
dol. sh, med - coarse xl,
to 1/2" to 1" brn sh. spotty ss. to sh.

Dolomite, sh. f. med. xl dense
few xl. vuggy, to brn-sh. sh.
to spotty, to very sh. ol. c.
to sh. brn sh.

DST# 7 :
30-45-45-
Blow. BOB in
No blow back
Final BOB in 1
weak surface ble

dol. ac + wd sh.

Recovery 120'
120'
45'

(5/9 as 20/0.1
Pressures 151P



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Rd. Ste. 800
 Dallas, Tx 75225
 ATTN: Jim Musgrove

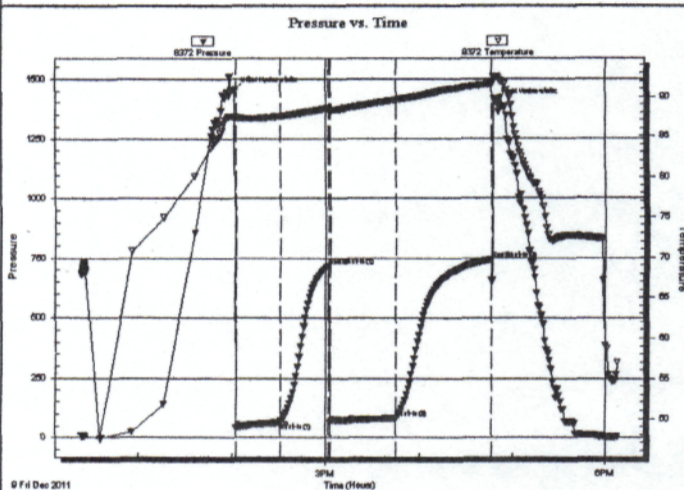
11-15-14 Russell, Ks
Flegler "C" #2
 Job Ticket: 44740 **DST#: 1**
 Test Start: 2011.12.09 @ 12:24:15

GENERAL INFORMATION:

Formation: **Plattsmouth**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 14:02:45
 Time Test Ended: 18:08:15
 Interval: **2937.00 ft (KB) To 2995.00 ft (KB) (TVD)**
 Total Depth: **2995.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Brian Fairbank**
 Unit No: **41**
 Reference Elevations: **1875.00 ft (KB)**
 1868.00 ft (CF)
 KB to GR/CF: **7.00 ft**

Serial #: 8372 **Inside**
 Press@RunDepth: **82.05 psig @ 2940.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.12.09** End Date: **2011.12.09** Last Calib.: **2011.12.09**
 Start Time: **12:24:16** End Time: **18:08:15** Time On Btm: **2011.12.09 @ 14:01:15**
 Time Off Btm: 2011.12.09 @ 16:48:45

TEST COMMENT: IFP - BOB 11 min
 ISI - 1" blow back - died 24 min
 FFP - BOB 3 min
 FSI - 1 3/4" blow back



PRESSURE SUMMARY

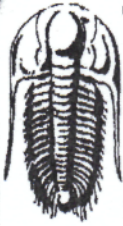
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1451.04	87.44	Initial Hydro-static
2	42.38	87.25	Open To Flow (1)
30	63.45	87.51	Shut-in(1)
61	718.19	88.51	End Shut-in(1)
62	63.45	88.32	Open To Flow (2)
104	82.05	89.59	Shut-in(2)
165	743.96	91.59	End Shut-in(2)
168	1401.81	92.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GMO 50%O, 25%O, 25%M	0.15
100.00	GHOCM 5%O, 35%O, 60%M	0.56
0.00	485' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Rd. Ste. 800
 Dallas, Tx 75225
 ATTN: Jim Musgrove

11-15-14 Russell, Ks
Flegler "C" #2
 Job Ticket: 44742 DST#: 3
 Test Start: 2011.12.10 @ 22:12:02

GENERAL INFORMATION:

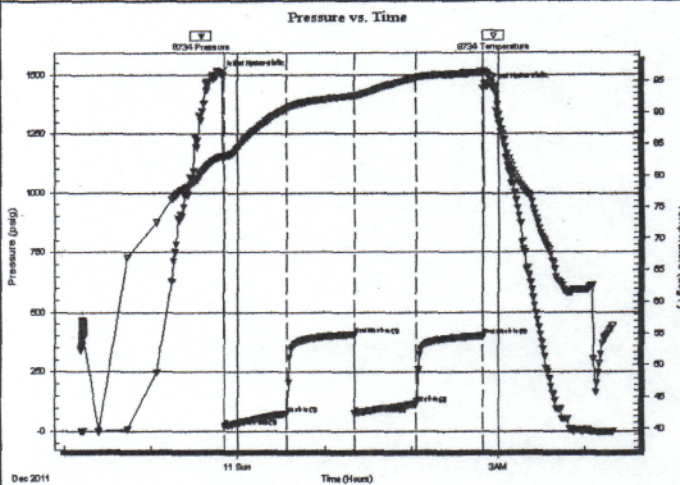
Formation: **LKC "A-C"**
 Deviated: **No** Whipstock: ft (KB)
 Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: 23:50:32 Tester: **Brian Fairbank**
 Time Test Ended: 04:20:02 Unit No: **41**
 Interval: **3072.00 ft (KB) To 3110.00 ft (KB) (TVD)** Reference Elevations: 1875.00 ft (KB)
 Total Depth: **3110.00 ft (KB) (TVD)** 1868.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: 7.00 ft

Serial #: 8734

Outside

Press@RunDepth: **116.26 psig @ 3075.00 ft (KB)** Capacity: 8000.00 psig
 Start Date: **2011.12.10** End Date: 2011.12.11
 Start Time: **22:12:03** End Time: 04:20:02 Last Calib.: 2011.12.11
 Time On Btm: **2011.12.10 @ 23:48:02**
 Time Off Btm: **2011.12.11 @ 02:52:02**

TEST COMMENT: IFP - BOB 7 min
 ISI - 4 1/2" blow back
 FFP - BOB 13 min
 FSI - 5" blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1503.61	83.05	Initial Hydro-static
3	18.39	82.93	Open To Flow (1)
46	74.69	90.66	Shut-In(1)
92	405.06	92.73	End Shut-In(1)
93	76.23	92.63	Open To Flow (2)
135	116.26	95.53	Shut-In(2)
181	399.39	96.40	End Shut-In(2)
184	1449.15	96.18	Final Hydro-static

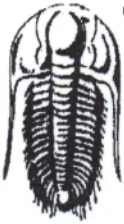
Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD 100%	0.07
85.00	MW 90%W, 10%M	1.19
75.00	GW & OCM 15%G, 15%O, 10%W, 60%M	1.05
70.00	FREE OIL 95%O, 5%M	0.98
0.00	255' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Rd. Ste. 800
 Dallas, Tx 75225
 ATTN: Jim Musgrove

11-15-14 Russell, Ks
Flegler "C" #2
 Job Ticket: 44744 **DST#: 5**
 Test Start: 2011.12.12 @ 07:23:19

GENERAL INFORMATION:

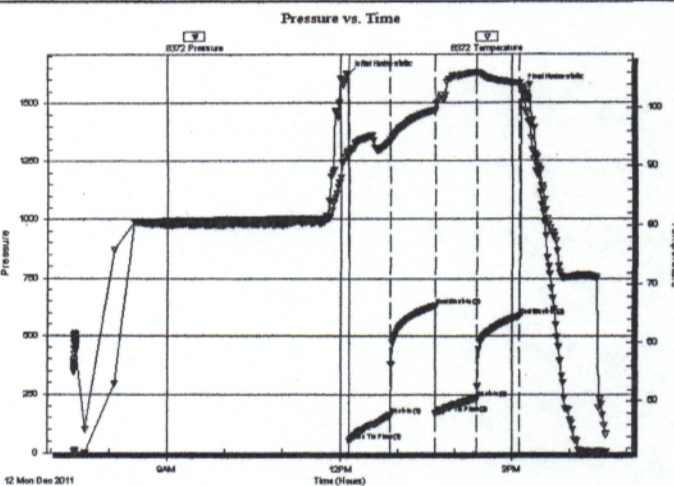
Formation: **LKC "I-K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:09:19
 Time Test Ended: 16:37:49
 Interval: **3222.00 ft (KB) To 3285.00 ft (KB) (TVD)**
 Total Depth: 3285.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brian Fairbank
 Unit No: 41
 Reference Elevations: 1875.00 ft (KB)
 1868.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8372

Inside

Press@RunDepth: 231.23 psig @ 3229.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.12.12 End Date: 2011.12.12 Last Calib.: 2011.12.12
 Start Time: 07:23:20 End Time: 16:37:49 Time On Btm: 2011.12.12 @ 12:07:49
 Time Off Btm: 2011.12.12 @ 15:09:19

TEST COMMENT: IFP - BOB 8 min
 ISI - 1" blow back - died 18 min
 FFP - BOB 14 min
 FSI - 1" blow back - died 19 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1621.03	92.60	Initial Hydro-static
2	50.16	92.22	Open To Flow (1)
44	158.74	94.41	Shut-in(1)
91	630.02	99.60	End Shut-in(1)
92	168.33	99.58	Open To Flow (2)
135	231.23	106.06	Shut-in(2)
180	585.91	104.23	End Shut-in(2)
182	1563.78	103.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	muddy water 90% water 10% mud	3.37
70.00	watery mud 15% water 85% mud	0.98
20.00	clean oil	0.28
0.00	60' gas in pipe	0.00
0.00	Rw .25@49 = 44,000	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations
8411 Preston Rd. Ste. 800
Dallas, Tx 75225
ATTN: Jim Musgrove

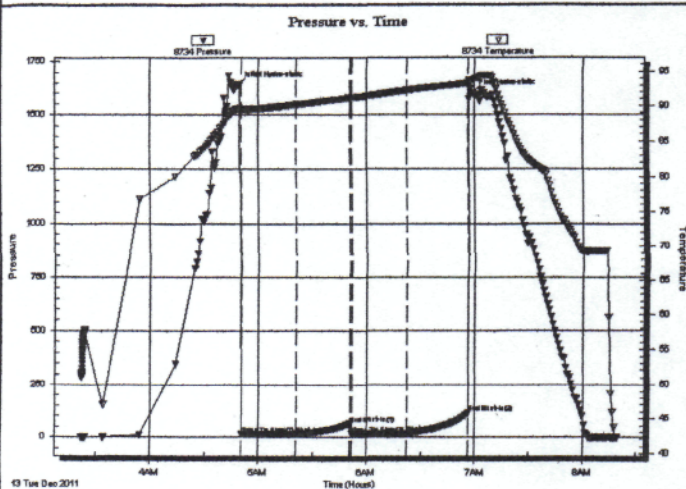
11-15-14 Russell, Ks
Flegler "C" #2
Job Ticket: 44745 **DST#: 6**
Test Start: 2011.12.13 @ 03:22:04

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:50:34
Time Test Ended: 08:20:04
Interval: **3312.00 ft (KB) To 3340.00 ft (KB) (TVD)**
Total Depth: 3340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Brian Fairbank
Unit No: 41
Reference Elevations: 1875.00 ft (KB)
1868.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8734 Outside
Press@RunDepth: 16.89 psig @ 3317.00 ft (KB)
Start Date: 2011.12.13 End Date: 2011.12.13
Start Time: 03:22:05 End Time: 08:20:04
Capacity: 8000.00 psig
Last Calib.: 2011.12.13
Time On Btm: 2011.12.13 @ 04:49:04
Time Off Btm: 2011.12.13 @ 06:58:34

TEST COMMENT: IFF - 1" blow - died 16 min
ISI - no blow back
FFP - no blow
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.07	89.61	Initial Hydro-static
2	14.66	89.28	Open To Flow (1)
32	15.25	90.17	Shut-In(1)
62	64.05	91.15	End Shut-In(1)
63	15.75	91.18	Open To Flow (2)
93	16.89	92.23	Shut-In(2)
127	114.34	93.29	End Shut-In(2)
130	1603.07	93.78	Final Hydro-static

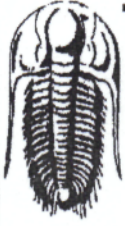
Recovery

Length (ft)	Description	Volume (bbl)
4.00	DRL MUD 100%	0.06
1.00	OIL TSTM	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Rd. Ste. 800
 Dallas, Tx 75225
 ATTN: Jim Musgrove

11-15-14 Russell, Ks
Flegler "C" #2
 Job Ticket: 44746 **DST#: 7**
 Test Start: 2011.12.13 @ 13:18:03

GENERAL INFORMATION:

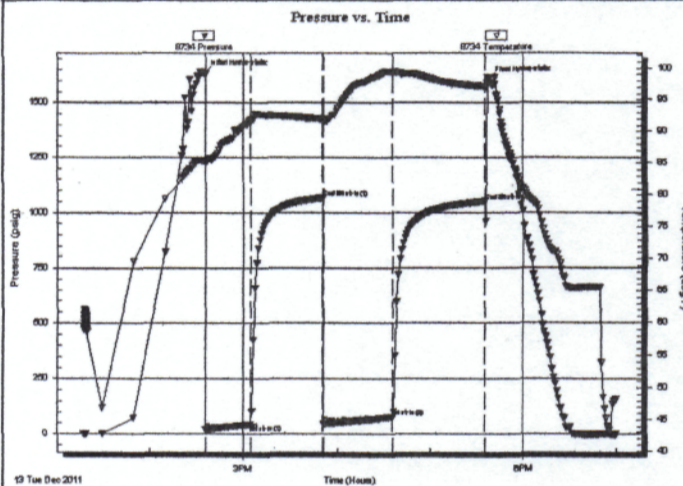
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:36:03
 Time Test Ended: 19:00:03
 Interval: **3312.00 ft (KB) To 3344.00 ft (KB) (TVD)**
 Total Depth: 3344.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brian Fairbank
 Unit No: 41
 Reference Elevations: 1875.00 ft (KB)
 1868.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8734

Outside

Press@RunDepth: 76.67 psig @ 3321.00 ft (KB)
 Start Date: 2011.12.13 End Date: 2011.12.13
 Start Time: 13:18:04 End Time: 19:00:03
 Capacity: 8000.00 psig
 Last Calib.: 2011.12.13
 Time On Btm: 2011.12.13 @ 14:34:33
 Time Off Btm: 2011.12.13 @ 17:37:03

TEST COMMENT: IFP - BOB 18 min
 ISI - no blow back
 FFP - BOB 17 min
 FSI - sur blow back - died 12 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1635.06	85.35	Initial Hydro-static
2	18.86	85.24	Open To Flow (1)
30	41.91	91.86	Shut-in(1)
76	1065.32	92.04	End Shut-in(1)
77	45.13	91.74	Open To Flow (2)
122	76.67	99.40	Shut-in(2)
181	1051.03	97.09	End Shut-in(2)
183	1606.18	97.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GOOM 5%G, 20%O, 75%M	0.63
120.00	FREE OIL 95%O, 5%M	1.68
0.00	120' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 189

Date	12-6-11	Sec.	11	Twp.	15	Range	14	County	Russell	State	Ks	On Location	Finish
Lease	Flegler "C"			Well No.	#2			Location	Walter Rd + 281 - 1E, 3/4 S, W/S				
Contractor	Southwind #3							Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.				
Type Job	Surface							Charge To	Mai oil operations				
Hole Size	12 1/4"			T.D.	467'			Depth	467'				
Csg.	8 5/8"			Depth	467'			Street					
Tbg. Size				Depth				City	State				
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.	15'			Shoe Joint	15'			Cement Amount Ordered	225 sx 60/40 3% CC 2% Gel				
Meas Line				Displace	28 3/4 BLS								

EQUIPMENT

Pumptrk	1	No.	Cementer	Cisco	Common	135
			Helper			
Bulktrk	8	No.	Driver	Brian S.	Poz. Mix	90
			Driver		Gel.	4
Bulktrk	p.m.	No.	Driver	Rich	Calcium	9
			Driver		Hulls	

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate	
Rat Hole	Salt	
Mouse Hole	Flowseal	
Centralizers	Kol-Seal	
Baskets	Mud CLR 48	
D/V or Port Collar	CFL-117 or CD110 CAF 38	
	Sand	
	Handling	237
	Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	1- wooden plug
Pumptrk Charge	Surface
Mileage	14

X Signature Jay Hrico

Tax	
Discount	
Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 546

Date	12/14/11	Sec.	11	Twp.	15	Range	14	County	Russell	State	KS	On Location		Finish	3:00PM
Lease	Floater	Well No.	C # 2			Location Russell, - to Walters Rd, 1E, 15, W: to									
Contractor	Southwind Drilling Rig #3							Owner							
Type Job	Production String							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	7 1/8		T.D. 3401'												
Csg.	5 1/2" 11#		Depth 3384'												
Tbg. Size	Depth														
Tool	Depth														
Cement Left in Csg.	20'		Shoe Joint		20'		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line	Displace 82 1/4 Bbls.														
EQUIPMENT										150sx 60/40 18% Salt 2% gel 1/4# Floater					
Pumptrk	9	No.	Cementer	Paul		Common									
			Helper			100sx 60/40 10% Salt 2% gel 1/4# Floater									
Bulktrk	10	No.	Driver	Matt		Poz. Mix									
			Driver			Gel.									
Bulktrk	3	No.	Driver	Doug		E Fair									
			Driver			Calcium									
JOB SERVICES & REMARKS										Hulls					
Remarks:										Salt					
Rat Hole 30sx										Flowseal					
Mouse Hole										Kol-Seal					
Centralizers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 22, 25										Mud CLR 48 1000 gal.					
Baskets 11										CFL-117 or CD110 CAF 38					
D/V or Port Collar										Sand					
Est Circ. 45 min.										Handling					
Pump 1000 gal mud clar										Mileage 5 1/2					
Plug Cut hole 30sx										FLOAT EQUIPMENT					
Mud 100sx 18% Salt										Guide Shoe					
Mix 100sx 10% Salt										Centralizer 12 - T-100s					
Displace										Baskets 1 - Wellheadford					
Band Plug										AFU Inserts					
Float Hold										Float Shoe 1					
THREAT										Latch Down 1 w/ Plug					
You										Pumptrk Charge					
										Mileage					
										Tax					
										Discount					
X Signature <i>Cory Miller</i>										Total Charge					

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

March 06, 2012

Allen Bangert
Mai Oil Operations, Inc.
8411 PRESTON RD STE 800
DALLAS, TX 75225-5520

Re: ACO1
API 15-167-23761-00-00
Flegler 'C' 2
SE/4 Sec.11-15S-14W
Russell 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,
Allen Bangert