



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1089847
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: _____

1089847

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> _____	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

Sam Brownback, Governor

August 07, 2012

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

Re: ACO1
API 15-167-23799-00-00
Schmitt 2
SE/4 Sec.04-15S-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.

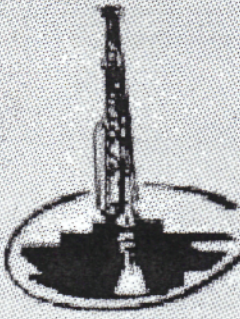
Respectfully,
Allen Bangert

OPERATOR

Company: Mai Oil Operations, Inc.
 Address: 5411 Preston Rd. Ste 800
 Dallas, TX 75225

Contact Geologist: Allen Bangert
 Contact Phone Nbr: 214-219-8883
 Well Name: Schmitt #2
 Location: SW-SE-SE Sec. 4-T15S-R14W
 Pool:
 State: Kansas

API: 15-167-23799-00-00
 Field: Kennebec
 Country: USA



Musgrove

**PETROLEUM
 CORPORATION**
 Claflin, Kansas

Scale 1:240 Imperial

Well Name: Schmitt #2
 Surface Location: SW-SE-SE Sec. 4-T15S-R14W
 Bottom Location: 8 5/8" @ 372': 5 1/2" @
 API: 15-167-23799-00-00
 License Number:
 Spud Date: 5/24/2012 Time: 9:00 AM
 Region: Russell County
 Drilling Completed: 6/2/2012 Time: 9:00 AM
 Surface Coordinates: 330' From South Line & 990' From East Line
 Bottom Hole Coordinates:
 Ground Elevation: 1764.00ft
 K.B. Elevation: 1772.00ft
 Logged Interval: 2200.00ft To: 3300.00ft
 Total Depth: 3300.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical Mud Displaced @2200'

LOGGED BY

Company: Musgrove Petroleum
 Address: 212 Main Street
 Claflin, KS 67525

Phone Nbr: 620-450-7087
 Logged By: Geologist

Name: Jim Musgrove_Kurt Talbott

CONTRACTOR

Contractor: Southwind Drilling, Inc.
 Rig #: 3
 Rig Type: mud rotary
 Spud Date: 5/24/2012
 TD Date: 6/2/2012
 Rig Release:

Time: 9:00 AM
 Time: 9:00 AM
 Time:

ELEVATIONS

K.B. Elevation: 1772.00ft
 K.B. to Ground: 8.00ft

Ground Elevation: 1764.00ft

ROCK TYPES

Cht vari
 Dolerim

Lmst fw<7
 shale, gry

shale, gry
 shale, gry

Shcol
 Shcol

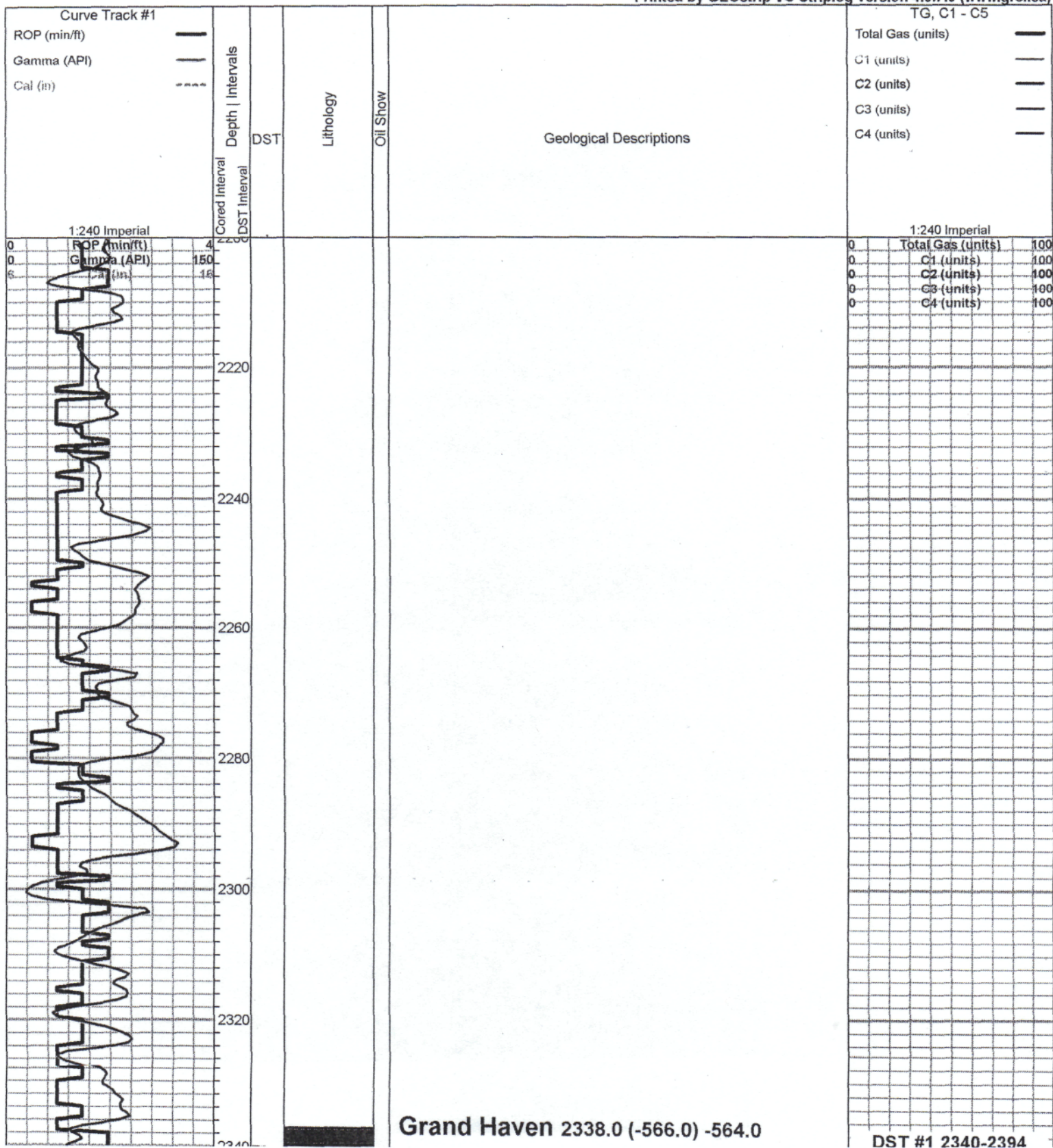
ROCK TYPES

- ▲▲▲▲▲ Cht vari
- Dolprim
- Lmst fw<7
- shale, grn
- shale, gry
- Carbon Sh
- Shcol
- Ss

OTHER SYMBOLS

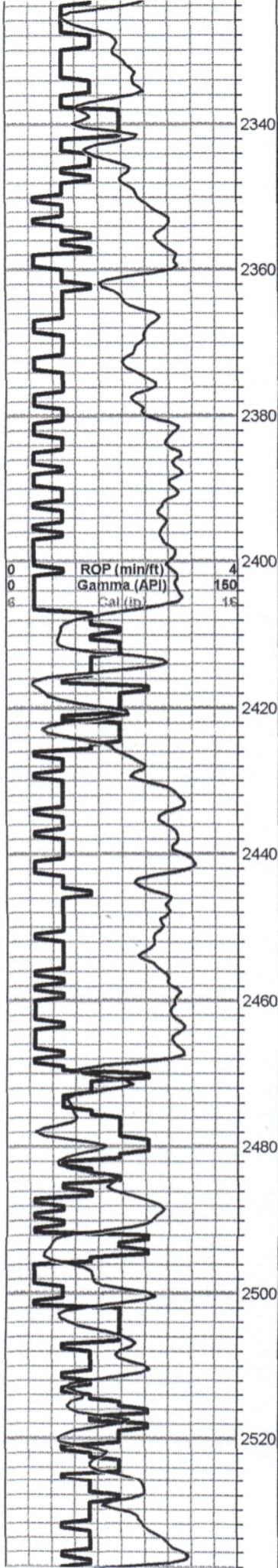
- DST**
- DST Int
 - DST alt

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)



Grand Haven 2338.0 (-566.0) -564.0

DST #1 2340-2394



Grand Haven 2338.0 (-566.0) -564.0

Ls-tan/gry, few fossils, chalky

1st Tarkio Sand 2348.0 (-576.0) -576.0

Sand-gry-silty, poorly developed por, NS

Dover 2360.0 (-588.0) -589.0

2nd Tarkio Sand 2366.0 (-594.0) -594.0

Sand-gry/tan, vfg, sub rounded/few sub angular, friable, Fair iner gran por. Few Shaley, mica, fair stain/saturation, SFO, fair odor

A/A

Shale-gry-silty

Tarkio Lime 2406.0 (-634.0) -634.0

Ls-tan/crm, fxln, fossils, granular, chalky, NS

Ls- A/A

Shale-gry, silty

Sand-gry, vfg, scattered por, Trace dark brown/black stains, TrSFO, no odor

A/A

Sand A/A, plus shale-gry-soft, mica

Elmont 2469.0 (-697.0) -696.0

Ls-buff/crm, fxln, fossils, poor vis por, chalky

Shale-gry/grn/maroon

LS& Shale A/A

Ls-lt gry/buff, fxln, fossils, chalky
Shale-gry/grn-soft

Ls-gry/buff, fxln, poro vis por, chalky
Shale-A/A

A/A

DST #1 2340-2394

30-30-45-45

Blow; BOB 1 min

No return

Recovery;

372' GIP

60' mud

65' WOCM

(20%o5%w75%m)

Pressures;

ISIP- 532psi

FSIP- 568psi

IFP- 34-40psi

FFP- 54-69psi

HSH- 1074-1077psi

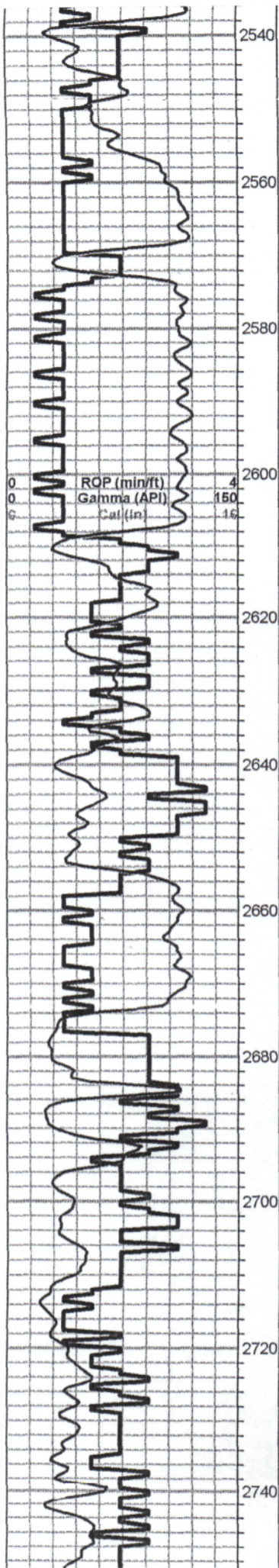
Jim Musgrove to 2400'

Kurt Talbott 2400'-

RTD

0 C3 (units) 100

0 C4 (units) 100



A/A

Ls-crm/tan, fxln, fossils, poor iner xln por, dense

Shale-gry/grn

Ls-tan/gry, fxln, few fossils, poor vis por, chalky

Shale-gry/grn, soft

A/A

Ls-cream/tan, fxln, fossils, poor vis por, slighty chalky.

Shale-gry/grn

Ls-crm/tan, fxln, few fossils, chalky

Shale-gry, soft, mica, silty.

Topeka 2676.0 (-904.0) -902.0

Ls-crm/gry, fxln, fossils, dense, poor vis por, chalky

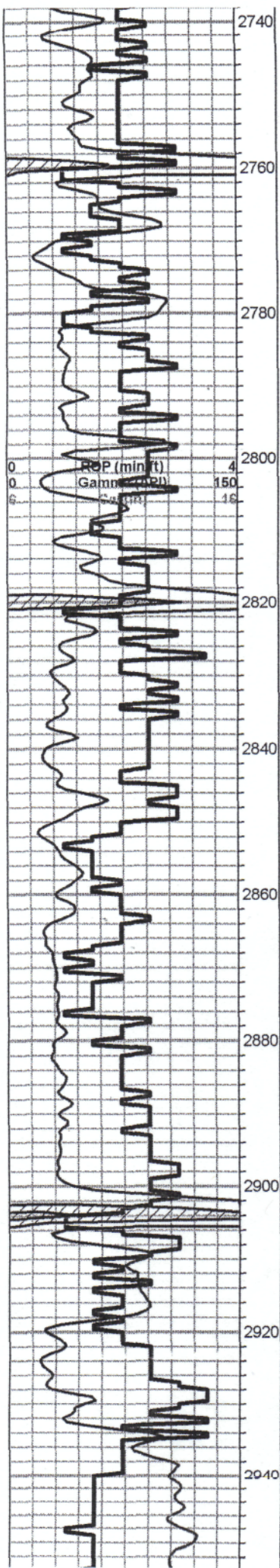
Ls-crm/gry, fxln, fossils, dense, poro vis por, slightly dolomitic

Ls-tan/crm, fxln, dense, chalky, poorly developed por

Ls-crm/tan, fxln, dense, poro vis por, chalky, cherty

A/A

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



A/A

Black carbon shale

Shale-gry/grn

Ls-crm/wht/gry, fxln, ool, fossils, chalky

A/A

Shale-gry

Ls-crm/gry, fxln, ool/fossils, chalky

Black carbon shale

Ls-tan/gry, fxln, fossils, poor iner xln por, dark brwn stns, NSFO, no odor, cherty

Ls-tan/gry, fxln, fossils, dense, poor vis por.

Ls-crm/gry, fxln, fossils, poor iner xln por, brwn stains, NSFO, faint odor, slightly chalky.

Ls-crm/tan, fxln, poor vis por, chalky, cherty

Ls-tan/buff, fxln, poor vis por, dense, chalky, cherty

Heebner 2902.0 (-1130.0) -1129.0

Black Carbon shale

Shale-gry/grn

Ls-crm/tan/buff, fxln, dense, poor vis por, Cherty.

Chalc-gry/grn

A/A

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

Ls-crm/tan/buff, fxln, dense, poor vis por, Cherty.

Shale-gry/grn

A/A

Lansing 2964.0 (-1192.0) -1190.0

Ls-crm/tan, fxln, ool, densem poor ppt por, Light brown stains, NSFO, Faint odor

Ls-crm/tan, fxln, ool, poor ppt por, light brown stains, NSFO, Faint odor.

Ls-crm/tan, fxln, ool/fossils, poor iner xln&ool por, Light to golden brown stain, Fair SFO, fair-good odor.

Ls-crm/tan, fxln, ool, poor-fair oom por, Light brown stains, TrSFO, good odor.

Ls-wht/crm/tan, few fossils, dense, poor vis por, slighty cherty, chalky
Shale-gry

Ls-crm/lt gry, fxln, poor vis por, chalky in part, few pieces dense, Trace spotty light brown stains, NSFO, No odor.

Ls-crm/wht/lt gry, fxln, slightly ool, fossils, poor iner part. por, Spotty light brown stns, VP SFO, faint odor, chalky, cherty

Ls-tan/lt gry, ool, fossils, poor vis por, dense, boney wht chert, Trace brwn stains, NSFO, no odor.

Ls-wht/lt gry/ crm, fxln, ool, poor vis por, chalky, cherty.

Ls-crm/tan, fxln, fossils, dense, poor vis por, chert-boney, chalky.

Ls-crm/buff, ool, fair-good oom por, Barren, no odor, chalky.

Ls-tan/lt gry, fxln, poor vis por, dense, chert-gry/boney, chalky.

Ls-tan/buff, fxln, poor vis por, dense, cherty.

Ls-A/A
Shale-gry/grn

Black carbon Shale.

Ls-crm/lt gry, ool, dense, scattered por, brown stains, TrSFO, faint odor

Ls-crm/tan, fxln, ool, scattered oom por, brwn stns, TrSFO, faint odor

Ls-crm/tan, fxln, ool, poor-fair oom por, Trace brwn Stns, TrSFO, Faint odor.

DST #2 2972-3010
30-45-30-45

Blow- Built to 2"

No Return

Recovery;

31' VSOCM
(2%o98%m)

Pressures;

ISIP- 610psi

FSIP- 581psi

IFP- 31-37psi

FFP- 35-42psi

HSH- 1480-1443psi

DST #3 3095-3165
30-45-45-60

Blow; BOB 10"

Surface return died in 26"

Recovery;

682' GIP

62' GMCO

(20%g75%o5%m)

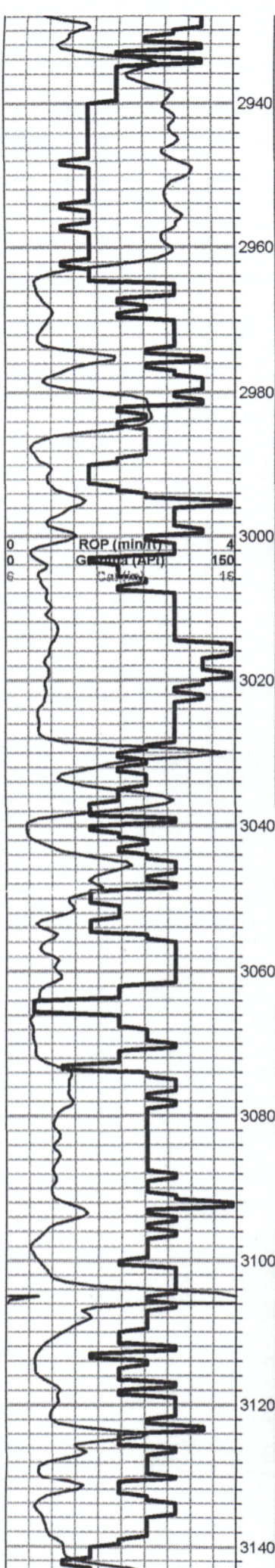
45' GHOCM

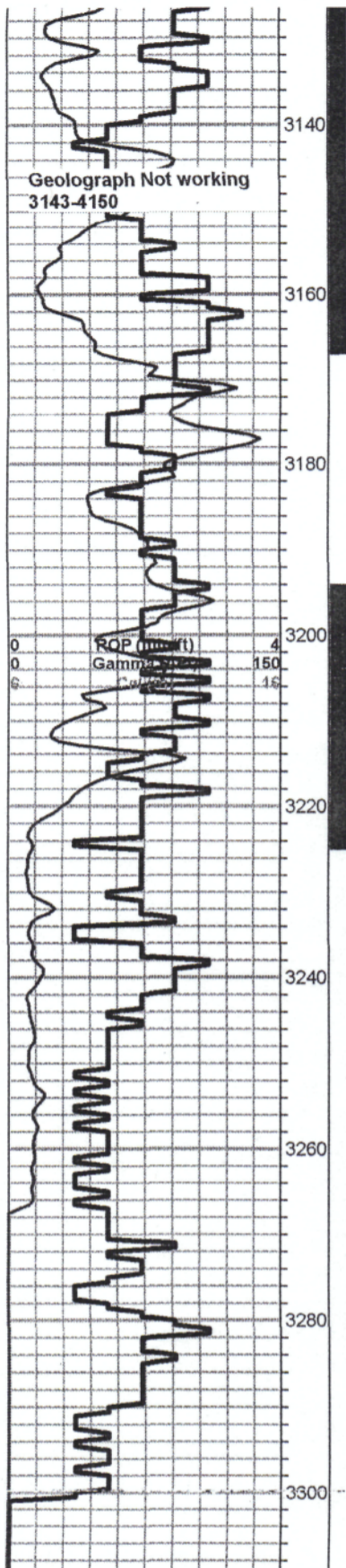
(20%g40%o40%m)

Pressures;

ISIP- 842psi

FSIP- 829psi





Ls-crm/tan, fxln, ool, scattered oom por, brwn stns, TrSFO, faint odor

Ls-crm/tan, fxln, ool, poor-fair oom por, Trace brwn Stns, TrSFO, Faint odor.

Ls- crm/tan, fxln, scattered oom por with fair ppt por, golden brown stains, SFO, good odor, Chert-gry/boney wht

Ls-tan/lt gry, fxln, ool, dense, poor vis por, slightly chalky.

Ls-wht/tan, fxln, dense, poor vis por. Slightly cherty

Base KC 3172.0 (-1400.0) -1396.0

Shale-varying color
Slightly cherty

Ls-tan/lt gry, fxln, dense, poor vis por, chalky. Shale-A/A

Ls-tan/crm, dense, poor vis por, cherty

A/A- chert-amber/tan

Ls-crm/tan, dense, poor vis por, cherty, chalky, few gry shales. Chert-gry/amber/boney

Arbuckle 3217.0 (-1445.0) -1444.0

Dol-wht, med xln, poor-fair iner xln, por, Light/golden brown stains, SFO, good odor.

Dol-crm/wht, f-med-xln, fair iner xln por with scattered vug por, dense, golden brown stains/sat, SFO, good odor.

Dol-crm/wht, medium rhomb. crystalline, fair-good iner xln por with scattered fair vug por. Golden Brown staining, Broken open SFO, faint odor.

Dol-wht, medium rhomb xln, fair-good iner xln por, brwn staining, Slight SFO, fair odor. Slightly cherty.

Dol-wht/tan, f-med xln, few rhomb., dense, poor iner xln por, brwn stns, TrSFO, no odor

Dol-wht/lt gry, f-med xln, dense, poor iner xln por, trace brown stains, NSFO, no odor. cherty.

Dol-wht, fxln, dense, qtz grains/sandy, poor vis por, slightly cherty.

Crm/pink, f-xln, qtz gran., poor vis por, dense, cherty.

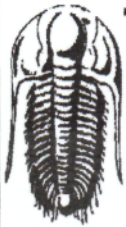
Dol-tan/crm/lt gry, fxln, sandy, chert-gry, Trace dolomitic sand-vfg

ROTARY TOTAL DEPTH 3300'

45' GHOCM
(20%g40%o40%m)
Pressures;
ISIP- 842psi
FSIP- 829psi
IFP- 46-62psi
FFP- 68-87psi
HSH- 1577-1547psi

DST #4 3194-3223
30-30-30-45
Blow: BOB 13 min.
Return: Built to 1 1/8"
Recovery;
247' GIP
63' OCM
(10%o90%m)
194' Gassy oil
(30%g70%o)

Pressures;
ISIP- 1007psi
FSIP- 1016psi
IFP- 29-80psi
FFP-87-133psi
HSH- 1587-1560psi



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations INC
 8411 Preston RD STE 800
 Dallas, TX 75225
 ATTN: Allen Bangert/ Jim M

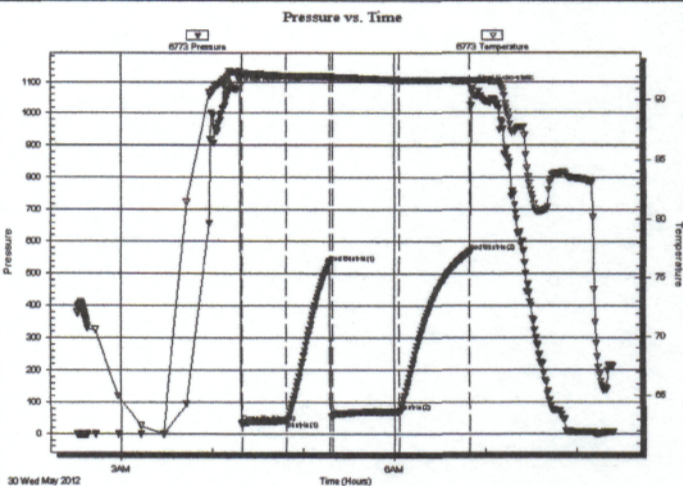
4-15s-14w Russell,KS
Schmitt #2
 Job Ticket: 47749 **DST#: 1**
 Test Start: 2012.05.30 @ 02:31:00

GENERAL INFORMATION:

Formation: **Tarkio**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:20:00
 Time Test Ended: 08:24:30
 Interval: **2340.00 ft (KB) To 2394.00 ft (KB) (TVD)**
 Total Depth: 2394.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Staats
 Unit No: 47
 Reference Elevations: 1770.00 ft (KB)
 1764.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6773 Outside
 Press@RunDepth: 69.75 psig @ 2341.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.30 End Date: 2012.05.30 Last Calib.: 2012.05.30
 Start Time: 02:31:05 End Time: 08:24:29 Time On Btm: 2012.05.30 @ 04:16:45
 Time Off Btm: 2012.05.30 @ 06:51:00

TEST COMMENT: IF: Strong blow BOB 1 min
 IS: No blow back
 FF: Strong blow BOB in 2 sec
 FS: No blow back



PRESSURE SUMMARY

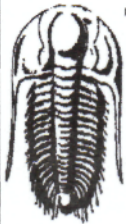
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1074.39	92.40	Initial Hydro-static
4	34.10	92.30	Open To Flow (1)
32	40.84	92.09	Shut-In(1)
61	532.60	92.06	End Shut-In(1)
63	54.87	91.97	Open To Flow (2)
107	69.75	91.72	Shut-In(2)
153	568.13	91.66	End Shut-In(2)
155	1077.58	91.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MUD 100%	0.30
65.00	W,cut Oil ,Mud 5%water 20%oil75%mud	0.36
0.00	372 GIP	0.00

Gas Rates

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



**TRIBOLITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations INC

4-15s-14w Russell,KS

8411 Preston RD STE 800
Dallas, TX 75225

Schmitt #2

Job Ticket: 47189

DST#: 2

ATTN: Allen Bangert/ Jim M

Test Start: 2012.05.31 @ 12:37:00

GENERAL INFORMATION:

Formation: "A-C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:03:00

Time Test Ended: 17:45:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 44

Interval: 2972.00 ft (KB) To 3010.00 ft (KB) (TVD)

Total Depth: 3010.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1770.00 ft (KB)

1764.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8737

Outside

Press@RunDepth: 42.71 psig @ 2975.00 ft (KB)

Start Date: 2012.05.31

End Date:

2012.05.31

Start Time: 12:37:01

End Time:

17:45:00

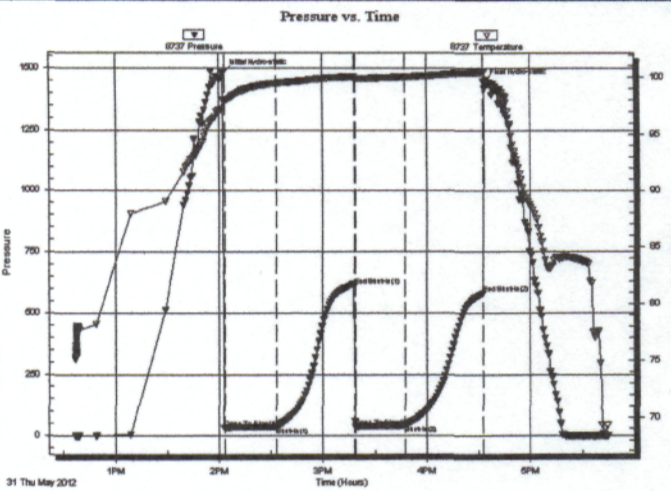
Capacity: 8000.00 psig

Last Calib.: 2012.05.31

Time On Btm: 2012.05.31 @ 14:02:30

Time Off Btm: 2012.05.31 @ 16:33:00

TEST COMMENT: 30 - IF- 2" Blow
45 - IS- No blow back
30 - FF- 5" Blow
45 - FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1480.72	98.02	Initial Hydro-static
1	31.33	97.89	Open To Flow (1)
31	37.30	99.46	Shut-In(1)
76	610.73	100.02	End Shut-In(1)
77	35.20	99.86	Open To Flow (2)
105	42.71	100.03	Shut-In(2)
150	581.15	100.43	End Shut-In(2)
151	1443.92	100.55	Final Hydro-static

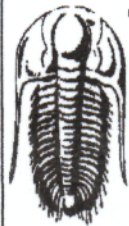
Recovery

Length (ft)	Description	Volume (bbl)
31.00	VSOCM, 2%O, 98%M	0.43

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations INC
 8411 Preston RD STE 800
 Dallas, TX 75225
 ATTN: Allen Bangert/ Jim M

4-15s-14w Russell,KS
Schmitt #2
 Job Ticket: 47190 **DST#: 3**
 Test Start: 2012.06.01 @ 06:54:00

GENERAL INFORMATION:

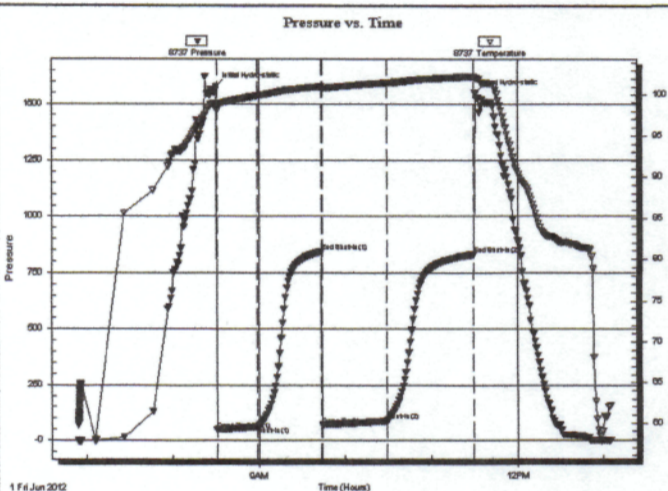
Formation: **"H-K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:30:30
 Time Test Ended: 13:05:00
 Interval: **3095.00 ft (KB) To 3165.00 ft (KB) (TVD)**
 Total Depth: 3165.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 44
 Reference Elevations: 1770.00 ft (KB)
 1764.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8737

Outside

Press@RunDepth: 87.12 psig @ 3162.00 ft (KB)
 Start Date: 2012.06.01 End Date: 2012.06.01
 Start Time: 06:54:01 End Time: 13:05:00
 Capacity: 8000.00 psig
 Last Calib.: 2012.06.01
 Time On Btm: 2012.06.01 @ 08:30:00
 Time Off Btm: 2012.06.01 @ 11:30:30

TEST COMMENT: 30 - IF- B.O.B. in 10 Min.
 45 - IS- Weak surface blow, died in 26 Min.
 45 - FF- B.O.B. in 1 Min.
 60 - FS- Surface blow back, died in 15 Min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1577.32	99.01	Initial Hydro-static
1	46.95	98.13	Open To Flow (1)
29	62.46	99.90	Shut-In(1)
74	842.69	101.06	End Shut-In(1)
74	68.97	100.83	Open To Flow (2)
119	87.12	101.51	Shut-In(2)
180	829.67	102.26	End Shut-In(2)
181	1547.12	102.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMCO, 5%M, 20%G, 75%O	0.87
45.00	GHOCM, 20%G, 40%O, 40%M	0.63
0.00	682' of G.I.P.	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 INC
8411 Preston RD STE 800
Dallas, TX 75225
ATTN: Allen Banger/ Jim M

4-15s-14w Russell, KS
Schmitt #2
Job Ticket: 44800 **DST#: 4**
Test Start: 2012.06.01 @ 21:20:52

GENERAL INFORMATION:

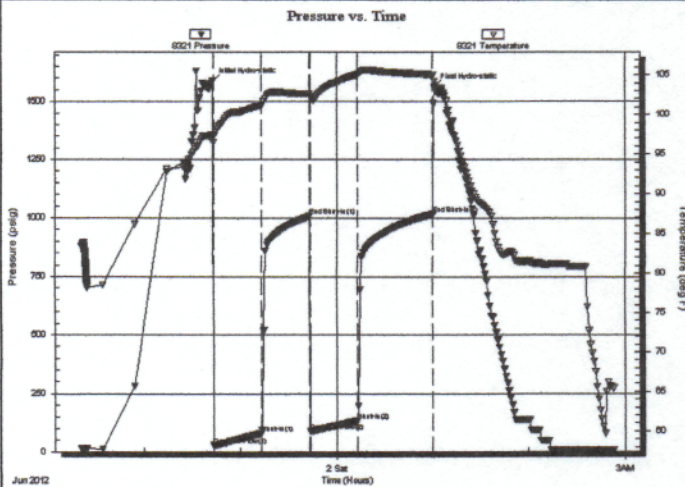
Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:43:16
Time Test Ended: 02:53:16
Interval: **3194.00 ft (KB) To 3223.00 ft (KB) (TVD)**
Total Depth: 3223.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 44
Reference Elevations: 1770.00 ft (KB)
1764.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8321

Inside

Press@RunDepth: 132.69 psig @ 3197.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.06.01 End Date: 2012.06.02 Last Calib.: 2012.06.02
Start Time: 21:20:53 End Time: 02:53:16 Time On Btm: 2012.06.01 @ 22:42:46
Time Off Btm: 2012.06.02 @ 01:01:16

TEST COMMENT: IFP-Good blow BOB in 13 min
ISI-Weak surface blow back built to 1 1/8 in
FFP-Good blow BOB in 15 min
FSI-Weak surface blow back built to 1/4 in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1587.14	97.43	Initial Hydro-static
1	28.88	96.48	Open To Flow (1)
31	80.05	101.08	Shut-In(1)
61	1007.23	102.63	End Shut-In(1)
61	87.33	102.32	Open To Flow (2)
91	132.69	105.09	Shut-In(2)
138	1016.45	105.07	End Shut-In(2)
139	1560.35	104.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	OCM 10%O 90%M	0.31
194.00	Gassy Oil 30%G 70%O	2.19
0.00	247-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. **968**

Date <u>5-24-12</u>	Sec. <u>4</u>	Twp. <u>15</u>	Range <u>14</u>	County <u>Russell</u>	State <u>Kansas</u>	On Location	Finish <u>2:15 AM</u>
Lease <u>Schmitt</u>	Well No. <u>2</u>		Location <u>1/2 Sec 81 1/2 W 15 N 14 R</u>				
Contractor <u>Southwind Drilling Rig</u>				Owner			
Type Job <u>Surface</u>				To Quality Oilwell Cementing, Inc.			
Hole Size <u>12 1/2</u>				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Csg. <u>SS</u>		T.D. <u>57</u>		Charge To <u>Oil Operations</u>			
Tbg. Size		Depth <u>572</u>		Street			
Tool		Depth		City		State	
Cement Left in Csg. <u>10-15'</u>		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace <u>223</u>		Cement Amount Ordered <u>225 60/40-300-2 1/2 gal</u>			
EQUIPMENT							
Pumptrk <u>15</u>	No.	Cementer <u>John</u>	Common				
		Helper					
Bulktrk <u>10</u>	No.	Driver <u>Cisco</u>	Poz. Mix				
		Driver					
Bulktrk <u>14</u>	No.	Driver <u>Mike</u>	Gel.				
		Driver					
JOB SERVICES & REMARKS							
Remarks:				Calcium			
Rat Hole				Hulls			
Mouse Hole				Salt <u>4962</u>			
Centralizers				Flowseal			
Baskets				Kol-Seal			
D/V or Port Collar				Mud CLR 48			
				CFL-117 or CD110 CAF 38			
				Sand			
				Handling			
				Mileage			
FLOAT EQUIPMENT							
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				<u>85 Wood Pile</u>			
				Pumptrk Charge			
				Mileage			
				Tax			
				Discount			
				Total Charge			
X Signature <u>John Driver</u>							

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. 677

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-3-12	4	15	14	Russell	KS		1:00 P.M.
Lease		Well No.		Location			
Schmitt		2		Russell S to River 1/2 W 1/2 SW 1/4			
Contractor				Owner			
Southwind #3				To Quality Oilwell Cementing, Inc.			
Type Job				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Production string							
Hole Size		T.D.		Charge To			
7/8		3300		Mud Oil			
Csg.		Depth		Street			
5/2 14#		3295					
Tbg. Size		Depth		City			
				State			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered			
2200		22.00		150 6/40 18% salt + 2% gel 1/4 #10			
Meas Line		Displace					
		79 3/4 BC					

EQUIPMENT

Pumptrk	5	No.	Cementer	Craig	Common	1000 gal mud clear
			Helper			
Bulktrk	8	No.	Driver	Brett	Poz. Mix	
			Driver	Don		
Bulktrk	10	No.	Driver	Saxon	Gel.	
			Driver			

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole	Hulls
30SK	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
5/2 set @ 3295. Insert @ 3273.	Sand
Est. Circulation Pump 1000 gal mud clear	Handling
with 5BC spacer. Plug Path.	Mileage
Cement 5/2 with 220SK. Clear lines	
Displace Plug. Plug land @ 1400ft.	
Release Pressure 1/2.	

FLOAT EQUIPMENT

Guide Shoe	5/2
Centralizer	12 Turbp's
Baskets	1 Weatherford
AFU Inserts	
Float Shoe	1
Latch Down	

Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X Signature *Allen B...*

