Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1150919

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 # 5259
Name: Mai Oil Operations, Inc.
Address 1: 8411 PRESTON RD STE 800
Address 2:
City: DALLAS State: TX Zip: 75225 + 5520
Contact Person: Allen Bangert
Phone: (214) 219-8883
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Jim Musgrove
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 #:

04/09/2013	04/15/2013	04/15/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-167-23872-00-00
Spot Description:
SE - NE - SW - NW Sec. 14 Twp. 15 S. R. 14 ☐ East ☑ West
1710 Feet from ☑ North / ☐ South Line of Section
1110 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Russell
Lease Name: Kramer Unit Well #: 1
Field Name:
Producing Formation: Arbuckle
Elevation: Ground: 1866 Kelly Bushing: 1874
Total Vertical Depth: 3386 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 515 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: 50000 ppm Fluid volume: 80 bbls
Dewatering method used: Evaporated
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: 07/08/2013
☑ **Confidential Release Date:** 07/08/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 07/09/2013

1150919

Operator Name: Mai Oil Operations, Inc. Lease Name: Kramer Unit Well #: 1

Sec. 14 Twp. 15 S. R. 14 ☐ East ☑ West County: Russell

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

CNDL
DIL
Micro

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	515	60-40 POZ	225	2% gel, 3% CC
Production	7.875	5.5	14	3381	60-40 POZ	200	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Kramer Unit 1
Doc ID	1150919

Tops

Name	Top	Datum
Anhydrite	856	+1018
Tarkio Lime	2497	-623
Topeka	2769	-895
Heebner	2998	-1124
Toronto	3012	-1138
Lansing	3058	-1184
Base Kansas City	3266	-1392
Arbuckle	3311	-1437

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

July 08, 2013

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

Re: ACO1
API 15-167-23872-00-00
Kramer Unit 1
NW/4 Sec.14-15S-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

James C. Musgrove
Petroleum Geologist
Office (620) 588-4250 — 212 Main St. • P.O. Box 215 • Claflin, KS 67525 — Home (620) 587-3444

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Mai Oil Operations, Inc.
LEASE Kramer Unit #1
FIELD Trapp
LOCATION SE-NE-SW-NW
SEC 14 TWSP 15 RGE 14
COUNTY Russell STATE KS

ELEVATIONS
KB 1874'
DF
GL 1866
Measurements Are All From KB

CONTRACTOR Southwind Drilling, Inc. (Rig #3)
SPUD 4/9/13 COMP 4/15/13
RTD 3385 LTD 3362
MUD UP 2200 TYPE MUD Chemical

CASING
SURFACE 8 5/8 @ 515
PRODUCTION 5½ ne

ELECTRICAL SURVEYS
By Nabors Completion
DIL, CNL/CDL, Micro

SAMPLES SAVED FROM 2300 TO RTD
DRILLING TIME KEPT FROM 2300 TO RTD
SAMPLES EXAMINED FROM 2300 TO RTD
GEOLOGICAL SUPERVISION FROM 2300 TO RTD
GEOLOGIST ON WELL Wyatt Urban

FORMATION TOPS	LOG	SAMPLES
Grand Haven	2426 (-552)	ARBuckle 3311 (-1437)
Dover	2451 (-577)	RTD 3385 (-1511)
Tarkio Lime	2497 (-623)	
Elmont	2509 (-635)	
Topeka	2769 (-895)	
Heebner	2998 (-1124)	anhy. 856 +1018
Toronto	3012 (-1138)	Base anhydrite 892 +1082
Douglas	3028 (-1154)	
Lansing	3058 (-1184)	
[redacted] Base Kansas City	3266 (-1392)	

REMARKS

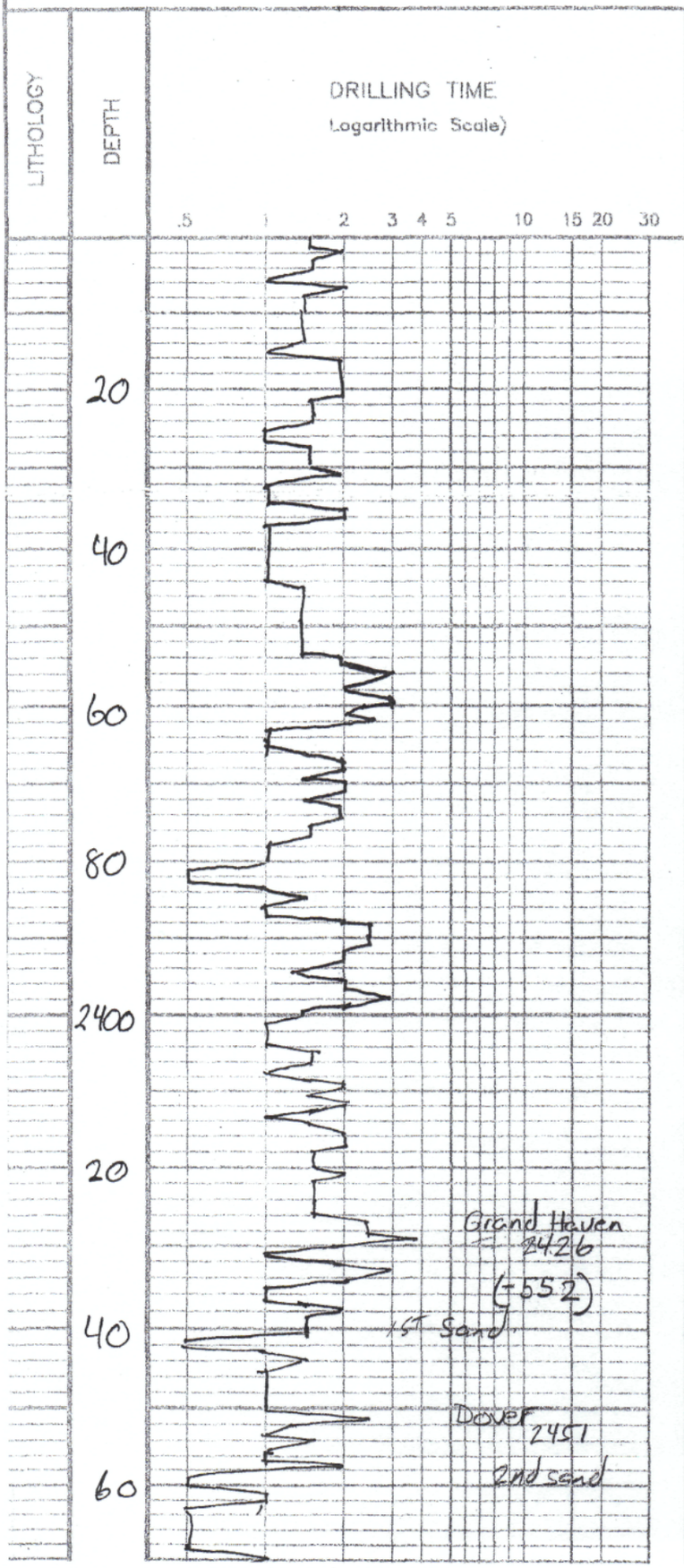
See typed report for recommendations.
Prospective Submitted
Wyatt Urban
Petroleum Geologist

LEGEND

Dolomite
Chert
Ool. Lime
Limestone
Carb sh
Shale
Sandstone
Salt
Anhydrite

DRILLING TIME

Anhydrite | Salt | Sandstone | Shale | Carb sh | Limestone | Ool. Lime | Chert | Dolomite



SAMPLE DESCRIPTIONS

L.S. TAN, FXL, Dns Poor Vis ϕ

Sh. gry silty

L.S. Brn, FXL, Foss, Dns

L.S. gry, FXL, Few Foss.
Lt. Brn spty stn. No odor, NSfo

L.S. Tan / Wht, FXL, Dns
Chiky.

L.S. Tan, FXL, Chik Dns NSfo
Poor Vis ϕ

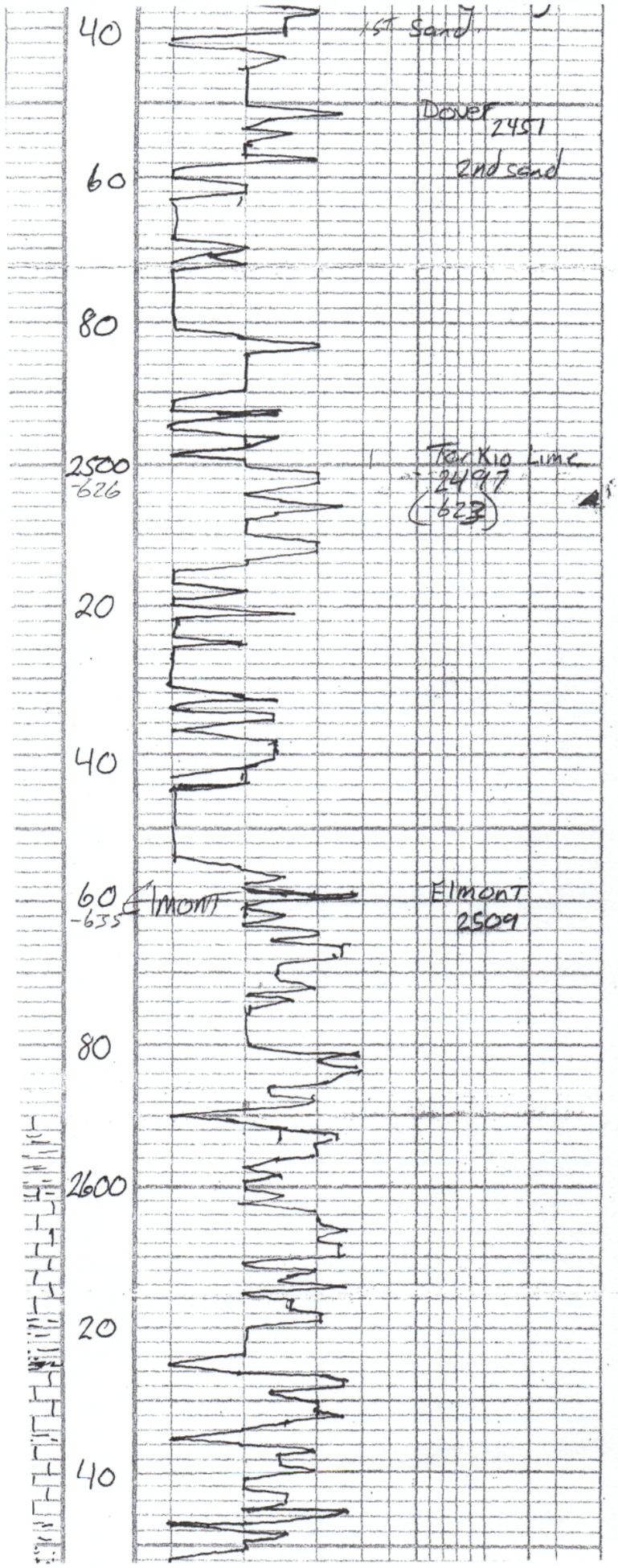
Sh. gry silty

L.S. Tan/Wht FXL Dns
Fr. Vfg, micac, Same) — NFS

L.S. Tan, Crm Foss FXL Dns
Lt. Spty brn Stn.

REMARKS

KB- 1874



L.S. Tan/Wht Fxl Dns
(r. vfg, mica, sand) — mg

KB- 1874

L.S. Tan, Crm Foss Fxl Dns
Lt. Spty brn stn.

Sd. gry F. grained, SFO (WK)
Ft. odor.

Sd. gry Ang. grain WK SFO.

L.S. Tan Few Foss Dns
NSFO, Lt. Brn stn.

L.S. Tan Fxl Dns Few
Foss.

Sd. gry F. Grain, ChlKy, NSFO,
No stn.

Sd. Lt. gry F. Grain Lt.
Brn stn. NSFO

L.S. Tan Few Foss, Fxl
Dns.

L.S. Tan, Crm, Fxl, Foss, No stn

L.S. Tan Fxl Foss, ~~Fos~~ trc.
Brn stn, NSFO.

L.S. gry/ tan, Foss, Fxl, Dns

Sh. gry silty

L.S. Tan, Fxl, Foss, ChlKy, Dns

L.S. Brn, Tan, Fxl, Foss, Dns
No stn

20

40

60

80

2700

20

40

60

80

2800

20

Howard
2698
C

Severy
2748
C

Topeka
2769

L.S. gry/tan, Foss, Fxl, Dns

Sh. gry silty

L.S. Tan, Fxl, Foss, Chlky, Dns

L.S. Brn, Tan, Fxl, Foss, Dns
No stn.

Sh. gry silty

L.S. Tan Fxl Dns, Foss, Fxl.
No stn, No odor.

Sd. gry f. grain. No stn, No odor

L.S. Brn, Fxl, Dns, Foss.
Poor Vis ϕ

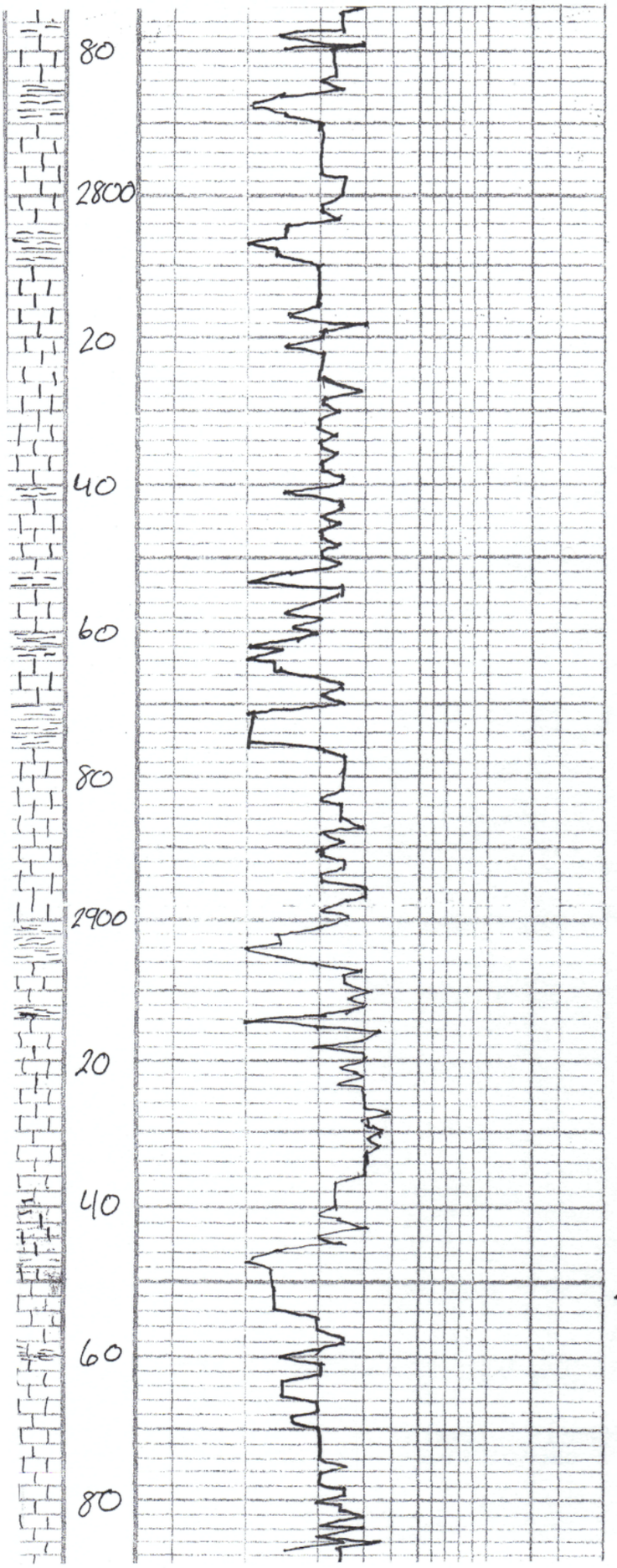
L.S. Tan/Buff Fxl, Dns
Few Foss.

L.S. Gry/Tan Fxl, Dly

L.S. Tan, gry, Fxl, Few foss, Dns

Sh. gry silty

L.S. Tan, fxl, Dns, Few Foss,
No Stn. NSFO.



[illegible] gry/gry+ Fxl, Few Foss, Dns

Sh. gry Silty

L.S. Tan, fxl, Dns, Few Foss, No Stn. NSFO.

L.S. gry Fxl Dly Dns.

L.S. gry, Fxl, Foss. Lt. Stn. No odor, NSFO

L.S. Tan, brn Fxl, Foss, Tr. QTz. Lt. brn Stn. NSFO, No odor.

L.S. Tan fxl Few Foss, Chlky Lt. brn spotty Stn.

L.S. Wht/Tan fxl, Chlky, Lt. Stn. NSFO

gry Silty Sh.

L.S. Tan Fxl, Foss, Dns, Lt. trc. Stn NSFO No odor.

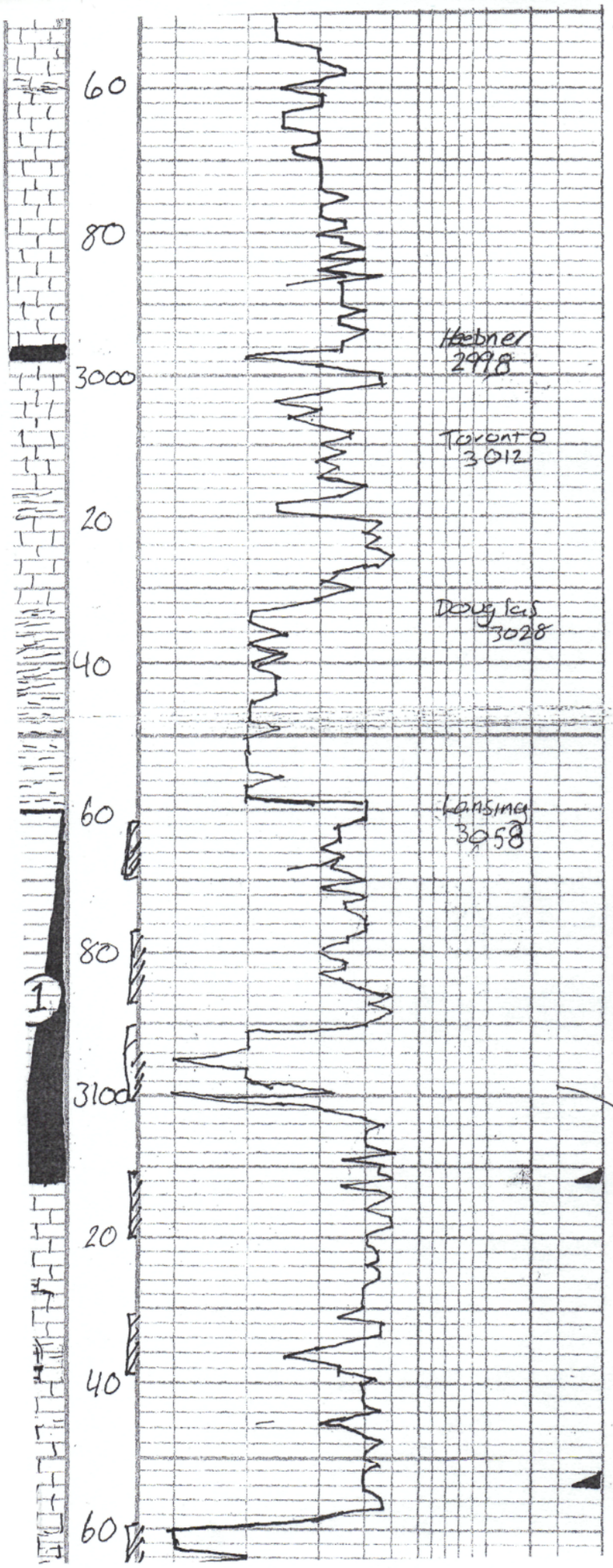
Sh. BLK Silty

LS) Tan, Subcom, Chlky ??t, stn, nsfo - no odor

BLK Shale.,

L.S. Tan, Brn, Fxl, Few Foss. Poor vis ϕ, Lt. trc stn

L.S. Tan Fxl, Dns, Few foss



LS) tan, sub oom, chlky
??, stn, nSFO - no odor

BLK Shale.,

L.S. Tan, Brn, Fxl, Few
Foss. Poor Vis Φ, Lt. trc Stn

L.S. Tan Fxl, Dns, Few foss
Lt. Brn Trc Stn., NSFO, No odor.

BLK Carb. Shale -

L.S. Tan, Crm, Chlky, Poor
Vis Φ, NO odor, Lt. trc. Brn Stn.

L.S., Tan, Brn, Fxl, Foss, V. Chlky
Lt. Spty brn stn. NSFO, odor???

Sh. red, gry., Silty

Sh. gry, greenish, blk silty
Ft. odor,

L.S. Tan, Brn. Fxl, Dly, Poor
Scatt Φ, trc. SFO, Ft-Fr odor.

L.S. Tan, FXL, Scatt Vuggy Φ (Fr.),
SFO, good odor.

L.S. Tan, Fxl, Scatt Vuggy Φ
SFO, good odor

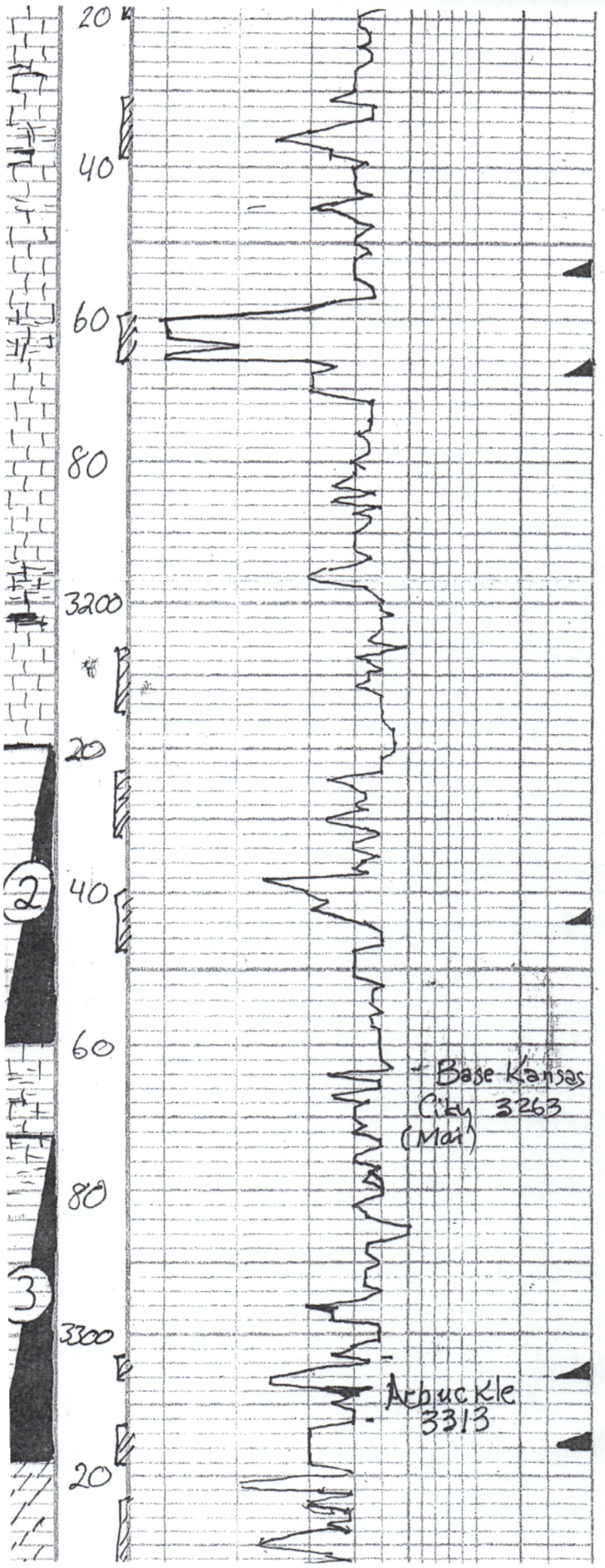
L.S. Tan, oom, good Vuggy Φ
good SFO, Strong odor.

Sh. gry, greenish, Silty

L.S. Tan, Crm, Dns, Chlky
Lt. brn stain, NSFO, Ft. odor

L.S. Tan ool., Scatt Φ
(Poor), Lt. Stn. Trc Oil, Chlky.

DST #1 3062-3112
30 · 30 · 30 · 30
Blow; B.O.B 1½ min.
Recovery
310' GIP
115' GOCWM
(30% Gas, 20% Oil,
20% Water, 30% mud)
Pressures
ISIP - 289 psi
FSIP - 287 "
IFP - 26-51 "
FFP - 52-71 "
HSH - 1555 - 1538 "



Sh. gry, greenish, silty

L.S. Tan, Crm, Dns, Chlky
Lt. brn stain, NSFO, Ft. odor

L.S. Tan ool., scatt Φ
(Poor), Lt. Stn. Trc Oil, Chlky

L.S. Tan, oom., good oom Φ
Lt. trc Stn, Ft. odor NSFO.

L.S. Tan, ool, Scatt ~~por~~ Φ
NSFO, NO odor

Sh. BLK, Gry Silty

L.S. Tan, FXL, Dns, Δy
Lt. Trc Stn, Ft. odor, NSFO

L.S. gry, FXL, Dns Δy,
Poor vis Φ, odor ??

DST 2 3220-32
30 · 30 · 45 · 45
Blow; BOB 12 min.
Recovery
60' GIP
2' clean oil
293' MCW
(90% water, 10% m
Pressures;
ISIP, 330 psi
FSIP, 330 psi
IFP, 19-88
FFP, 92-157
HSH, 1640-1527

L.S. Tan, FXL, Foss, Scatt Φ
WK-SFO, Strong odor,

L.S. gry, ool, FXL, poor vis Φ
SFO, Strong odor, trc Pyr.

L.S. Tan, FXL, Δy, NSFO
Ft. Odor, Trc. Stain, Ft. odor

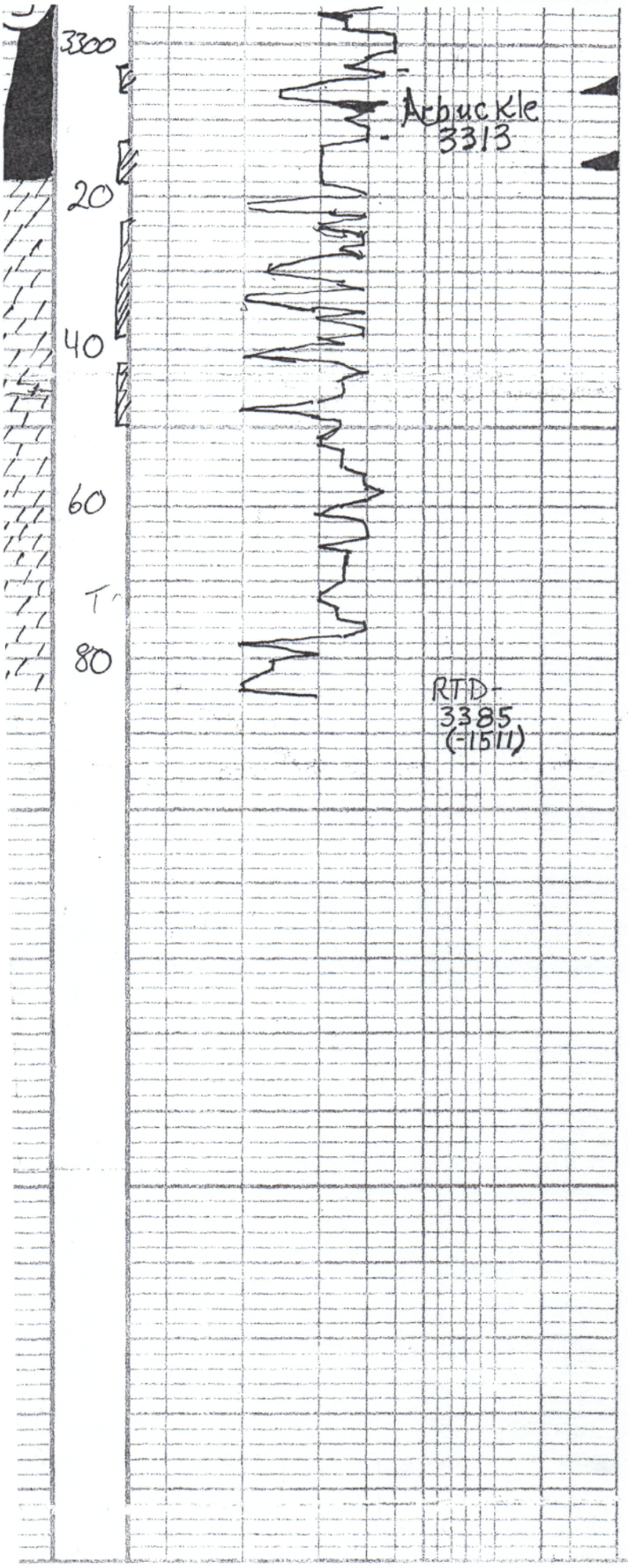
V.C. Sh. gry, greenish ~~/~~ brick red silty

DST 3 3273-3318
30 · 30 · 30 · 30
Blow; BOB 1.5 min
Recovery
5' clean oil
83' MWCO
(5% mud, 30% water,
65% oil)
378' MGWCO
(5% mud, 10% gas,
35% water, 50% oil)
409' MGWCO
(10% mud, 15% gas, 35% w
40% oil
630' MGWCO
(5% mud, 25% gas, 35% wa
35% oil

Sh. gry soft, ~~to~~ opaque chert,

L.S. Tan, Med. ~~Coarse~~ XLN, Chlky
Ft. odor, Lt. brn Stn. NSFO.

Dol. Wht/gry f. m. XLN
Φ, Fr Sat. [redacted] odor, SFO
Strong



L.S. Tan, med. crst. XLn, Chiky
Ft. odor, Lt. brn stn. NSFO.

Dol. Wht/gry f-m. IXLN
Φ, Fr Sats [redacted] odor, SFO
Strong

Dol. Wht/gry m, XLn,
Sm Fr SFO, Fair odor

Dol, Wht, gry, FXL, Ft. trc
SCHG (1-8%)
Stn, Ft odor, Trc Pyr.

Dol Wht, FXL, poor Vis Φ
Trc stn

Dol Wht, tan, gry f-XLn
Dns, NSFO, Ft odor, Lt. Stn.

83' MWCO
(5% mud, 30% Water,
65% oil)
378' MGWCO
(5% mud, 10% gas,
35% Water, 50% oil)
409' MGWCO
(10% mud, 15% gas, 35% W
40% oil
630' MGWCO
(5% mud, 25% gas, 35% Wa
35% oil
220' Water 100%
163' GIP

Pressures -
ISIP - 1051
FSIP - 1045
IFP - 87-491
FFP - 503-719
HSH - 1687-1568

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Mai Operations Inc

8411 Preston RD, STE 800
Dallas, TX 75225

ATTN: Wyatt Urban

14-15s-14w Russell,KS

Kramer Unit #1

Job Ticket: 52172 **DST#: 1**

Test Start: 2013.04.13 @ 00:52:00

GENERAL INFORMATION:

Formation: **A,B,C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:05:20
Time Test Ended: 07:49:09

Test Type: Conventional Bottom Hole (Initial)
Tester: Cody Bloedorn
Unit No: 41

Interval: 3062.00 ft (KB) To 3112.00 ft (KB) (TVD)
Total Depth: 3112.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

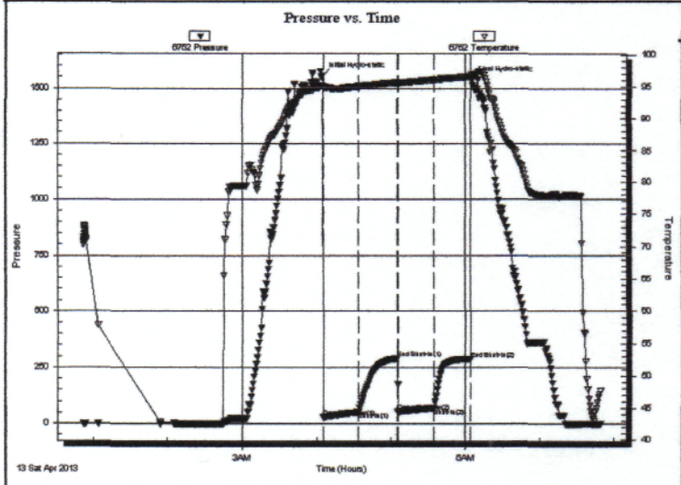
Reference Elevations: 1866.00 ft (KB)
1858.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6752 **Inside**

Press@RunDepth: 70.63 psig @ 3068.00 ft (KB)
Start Date: 2013.04.13 End Date: 2013.04.13
Start Time: 00:52:01 End Time: 07:49:10

Capacity: 8000.00 psig
Last Calib.: 2013.04.13
Time On Btm: 2013.04.13 @ 04:04:40
Time Off Btm: 2013.04.13 @ 06:04:30

TEST COMMENT: 30 - IF- B.O.B. in 1 1/2 Minutes.
30 - ISI- No return
30 - FF- B.O.B. in 1 Minute
30 - FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1555.59	95.24	Initial Hydro-static
1	26.68	95.01	Open To Flow (1)
29	51.64	95.13	Shut-In(1)
61	289.35	95.73	End Shut-In(1)
61	52.75	95.69	Open To Flow (2)
90	70.63	96.15	Shut-In(2)
120	287.58	96.65	End Shut-In(2)
120	1538.56	96.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	GSOCWM, 20%W, 20%O, 30%G, 30%M	1.61
0.00	310' of G.I.P.	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Mai Operations Inc

8411 Preston RD, STE 800
Dallas, TX 75225

ATTN: Wyatt Urban

14-15s-14w Russell,KS

Kramer Unit #1

Job Ticket: 53601 **DST#: 2**

Test Start: 2013.04.13 @ 22:34:00

GENERAL INFORMATION:

Formation: **LKC " H-K "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:05:10
Time Test Ended: 04:28:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 41

Interval: 3220.00 ft (KB) To 3260.00 ft (KB) (TVD)
Total Depth: 3260.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

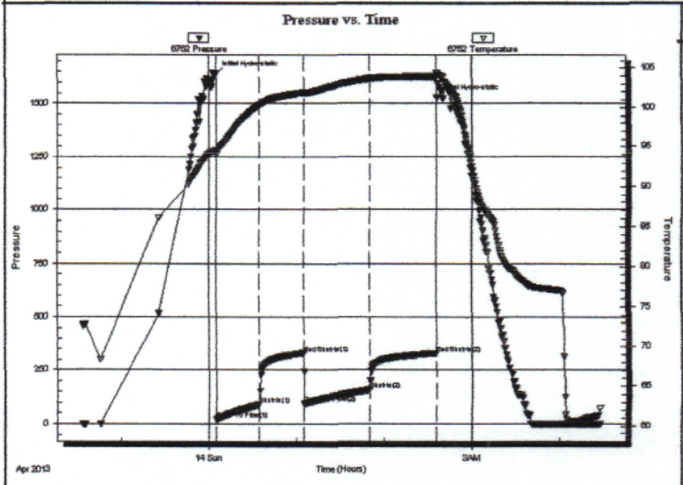
Reference Elevations: 1866.00 ft (KB)
1858.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6752 **Inside**

Press@RunDepth: 157.25 psig @ 3225.00 ft (KB)
Start Date: 2013.04.13 End Date: 2013.04.14
Start Time: 22:34:01 End Time: 04:27:40

Capacity: 8000.00 psig
Last Calib.: 2013.04.14
Time On Btm: 2013.04.14 @ 00:05:00
Time Off Btm: 2013.04.14 @ 02:36:00

TEST COMMENT: 30-IFP- BOB in 12 min.
30-ISIP- Very Weak Surface Blow
45-FFP- BOB in 21 min.
45-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.82	94.53	Initial Hydro-static
1	19.41	93.99	Open To Flow (1)
30	88.73	100.30	Shut-In(1)
60	330.98	101.86	End Shut-In(1)
61	92.15	101.82	Open To Flow (2)
105	157.25	103.64	Shut-In(2)
151	330.56	103.93	End Shut-In(2)
151	1527.05	104.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	CO 100%	0.03
293.00	MCW 10%m 90%w	4.11
0.00	60 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Mai Operations Inc

8411 Preston RD, STE 800
Dallas, TX 75225

ATTN: Wyatt Urban

14-15s-14w Russell,KS

Kramer Unit #1

Job Ticket: 53602 **DST#: 3**

Test Start: 2013.04.14 @ 12:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:59:10
Time Test Ended: 18:25:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 41

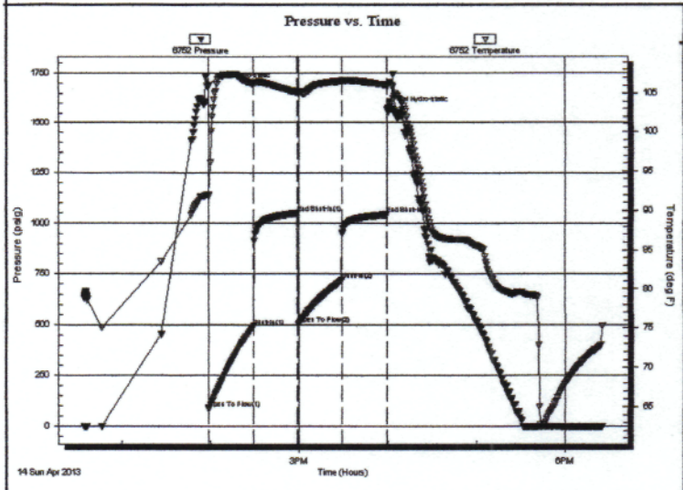
Interval: 3273.00 ft (KB) To 3318.00 ft (KB) (TVD)
Total Depth: 3318.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1866.00 ft (KB)
1858.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6752 **Inside**
Press@RunDepth: 719.66 psig @ 3283.00 ft (KB)
Start Date: 2013.04.14 End Date: 2013.04.14
Start Time: 12:35:01 End Time: 18:24:40

Capacity: 8000.00 psig
Last Calib.: 2013.04.14
Time On Btm: 2013.04.14 @ 13:58:50
Time Off Btm: 2013.04.14 @ 15:59:40

TEST COMMENT: 30-IFP- BOB in 1 1/2 min
30-ISIP- Surface Blow
30-FFP- BOB in 2 min
30-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.87	91.98	Initial Hydro-static
1	87.14	91.78	Open To Flow (1)
31	491.03	106.23	Shut-In(1)
61	1051.41	105.10	End Shut-In(1)
61	503.97	105.00	Open To Flow (2)
90	719.66	106.54	Shut-In(2)
121	1045.54	106.04	End Shut-In(2)
121	1568.68	106.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	CO 100%	0.07
83.00	MWCO 5%m 30%w 65%o	1.16
378.00	MGWCO 5%m 10%g 35%w 50%o	5.30
409.00	MGWCO 10%m 15%g 35%w 40%o	5.74
630.00	MGWCO 5%m 25%g 35%w 35%o	8.84
220.00	Water 100%	3.09

* 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. 8735

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-10-13	14	15	14	Russell	KS	1:00 AM	3:00 AM

Location Russell S 5 W and S into Intch 11

Lease Kramer Unit	Well No. 1	Owner DR	
Contractor Southwind 3		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			
Hole Size 12 1/4	T.D. 515	Charge To	
Csg. 8 5/8	Depth 515	Street	
Tbg. Size	Depth	City Moi State	
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg. 20 ft	Shoe Joint 20 ft	Cement Amount Ordered 275 60/40 4% CC 2% gel	
Meas Line	Displace 31.5 BBL		

EQUIPMENT

Pumptrk 5	No.	Cementer	Matt
		Helper	
Bulktrk 3	No.	Driver	Matt
		Driver	
Bulktrk 14	No.	Driver	Doug
		Driver	

JOB SERVICES & REMARKS

Remarks:	
Rat Hole	
Mouse Hole	
Centralizers	
Baskets	
D/V or Port Collar	
Cement did Circulate	

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Wood Plug	
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X Signature

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. 6652

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-15-13	14	15S	14W	Russell	KS		3:00pm

Location Russell S to Mitchell Rd W&S into

Lease Kramer Unit | Well No. #1 | Owner

Contractor South Wind #3

Type Job Longstring

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 7/8 | T.D. 3385

Charge To Mai Oil

Csg. 5 1/2 14 lbs New | Depth 3382

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. 22 | Shoe Joint 22

Cement Amount Ordered 100 60/40 18% salt 2% gel 1/4 #flo

Meas Line | Displace 82bbl

100 60/40 10% salt 2% gel 1/4 #flo 1000 mud Clear 48

EQUIPMENT

Pumptrk 15	No.	Cementer	
		Helper	Cisco Travis
Bulktrk 1	No.	Driver	
		Driver	Lonny W. Rick
Bulktrk 3	No.	Driver	
		Driver	Billy

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers 1-10, 21, 22, 24

Baskets 15' from bottom of #15

D/V or Port Collar

pipe on bottom break circulation pump 1000 gal mud clear 48 ~~tab~~bbl fw behind it plug Rat hole 30 sks hooked to 5 1/2 casing mixed 70 sks 60/40 18% salt 2% gel 1/4 flo 100 sks 60/40 10% salt 2% gel 1/4 flo Shut down washed pump and lines. Release plug and Displace with 82bbl fw Released and held

lift presser 800psi
landed plug 1360psi

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer 13	turbos
Baskets 1	Weatherford
AFU Inserts	
Float Shoe 1	
Latch Down 1	

Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X Signature