



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1088846
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: _____

1088846

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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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

July 27, 2012

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

Re: ACO1
API 15-009-25673-00-00
Miller Trust 'A' 5
NW/4 Sec.04-16S-14W
Barton 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

Office
(620) 568-4250

212 Main St. • P.O. Box 215 • Claflin, KS 67525

James C. Musgrove
Petroleum Geologist

Home
(620) 587-3444

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Mai Oil Operations Inc.

LEASE Milker Trust -A' #5

FIELD Trapp

LOCATION nw-sw-ne-nw (875' FWL, 1425' FWL)

SEC 4 TWP 16 S RGE 14 W

COUNTY Barton STATE Kansas

ELEVATIONS

KB 1920

DF _____

GL 1912

Measurements Are All From -KB-

CONTRACTOR Southwind Drilling Co. (rig #3)

SPUD 4-9-2012 COMP 4-15-2012

RTD 3450 LTD 3450

MUD UP 2700 TYPE MUD Chemical displaced

CASING SURFACE 8 5/8" C 433
PRODUCTION 5 1/2" C 3449

ELECTRICAL SURVEYS
By Superior Well Services
DIC, CD/WH Micro

SAMPLES SAVED FROM 2800 TO _____

DRILLING TIME KEPT FROM 2800 TO _____

SAMPLES EXAMINED FROM 2800 TO _____

GEOLOGICAL SUPERVISION FROM 2900 TO _____

GEOLOGIST ON WELL Jim Musgrove

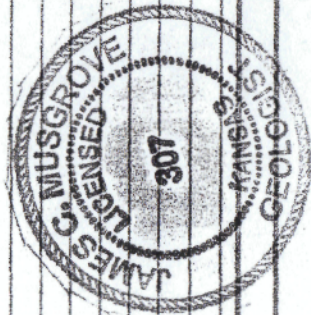
RTD

FORMATION TOPS	LOG	SAMPLES
anhydrite	906 +1014	
Base anhydrite	941 +979	
Topeka	2838 -918	
Heebner	3068 -1148	
Toronto	3081 -1161	
Kansing	3131 -1211	
Base Kansas City	3336 -1416	
Arbuckle	3371 -1451	
RTD	3450 -1530	
LTD	3450 -1530	

REMARKS

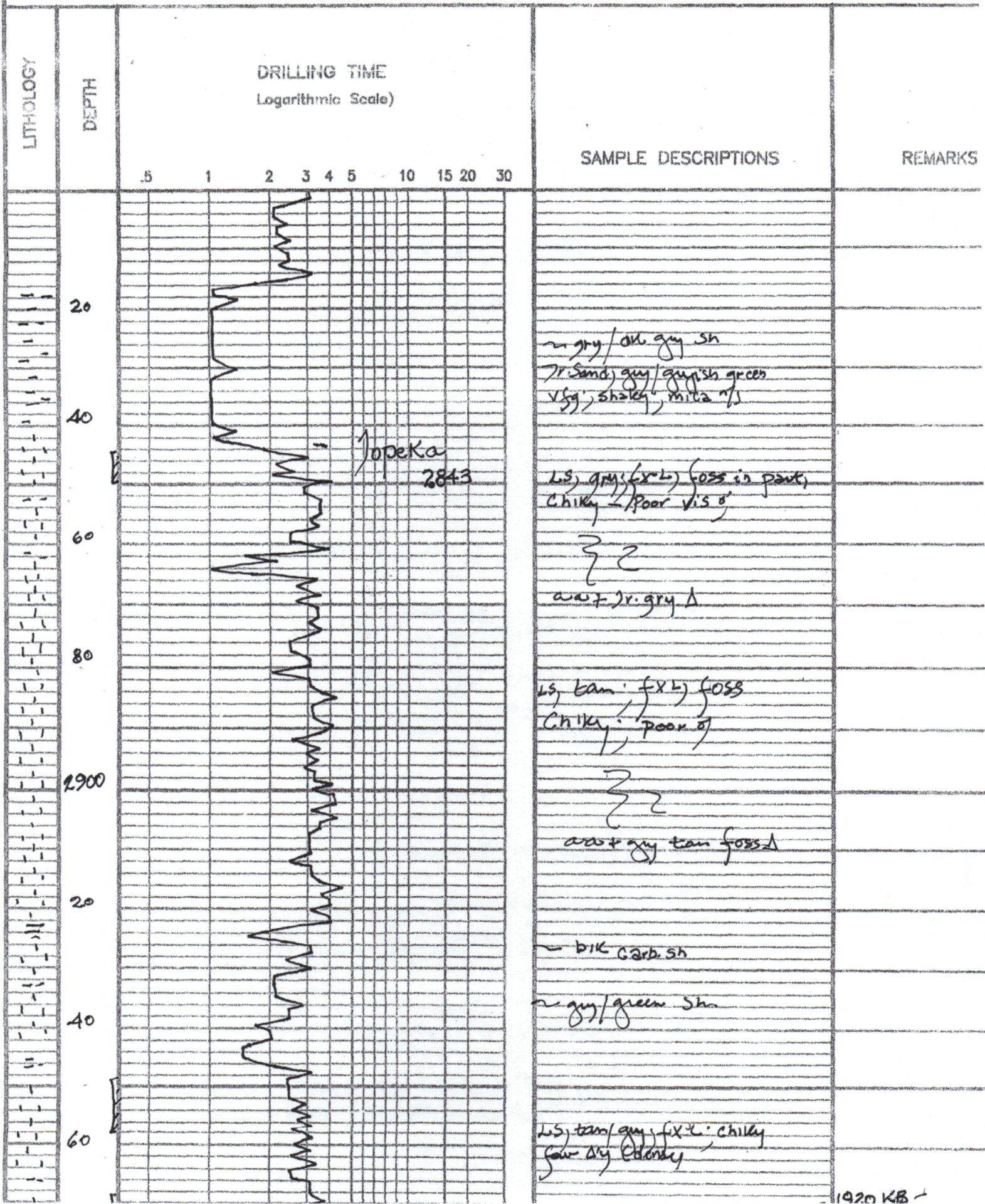
5 1/2" production casing set & cemented.
Respectfully Submitted

James C. Musgrove
Petroleum Geologist

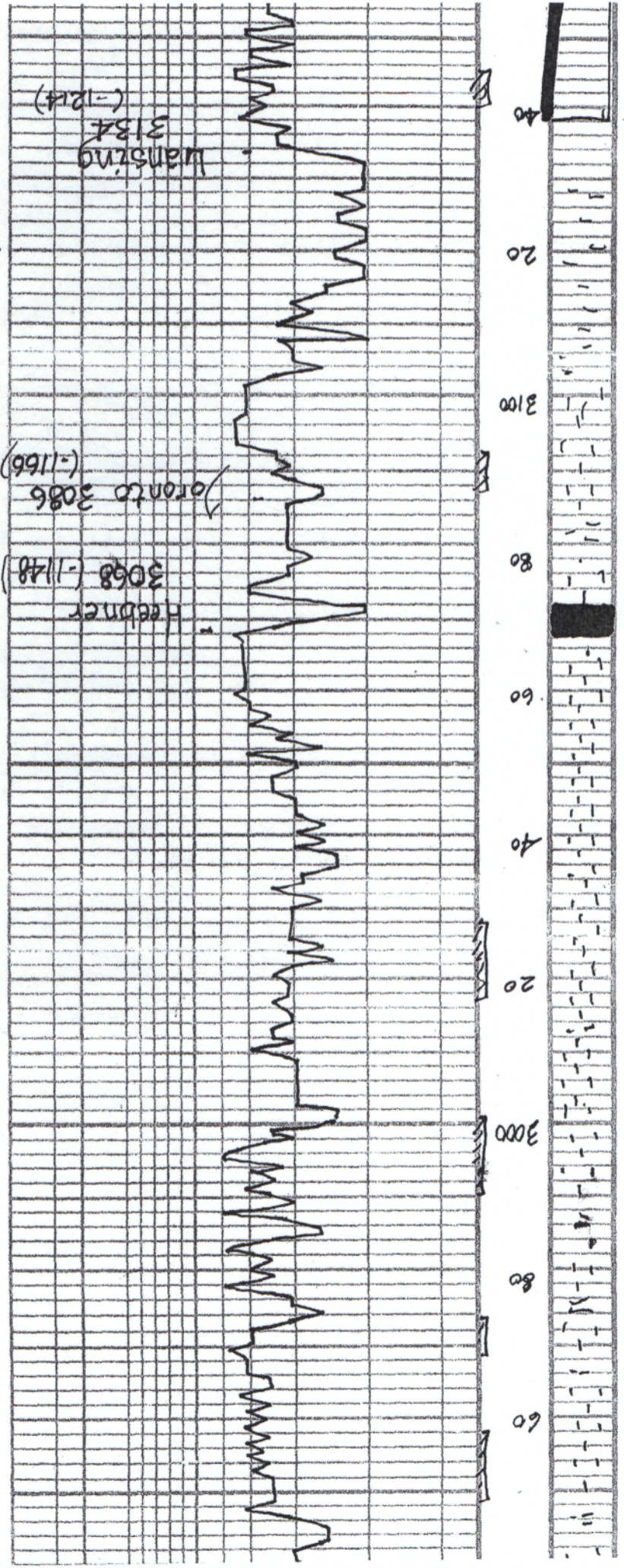
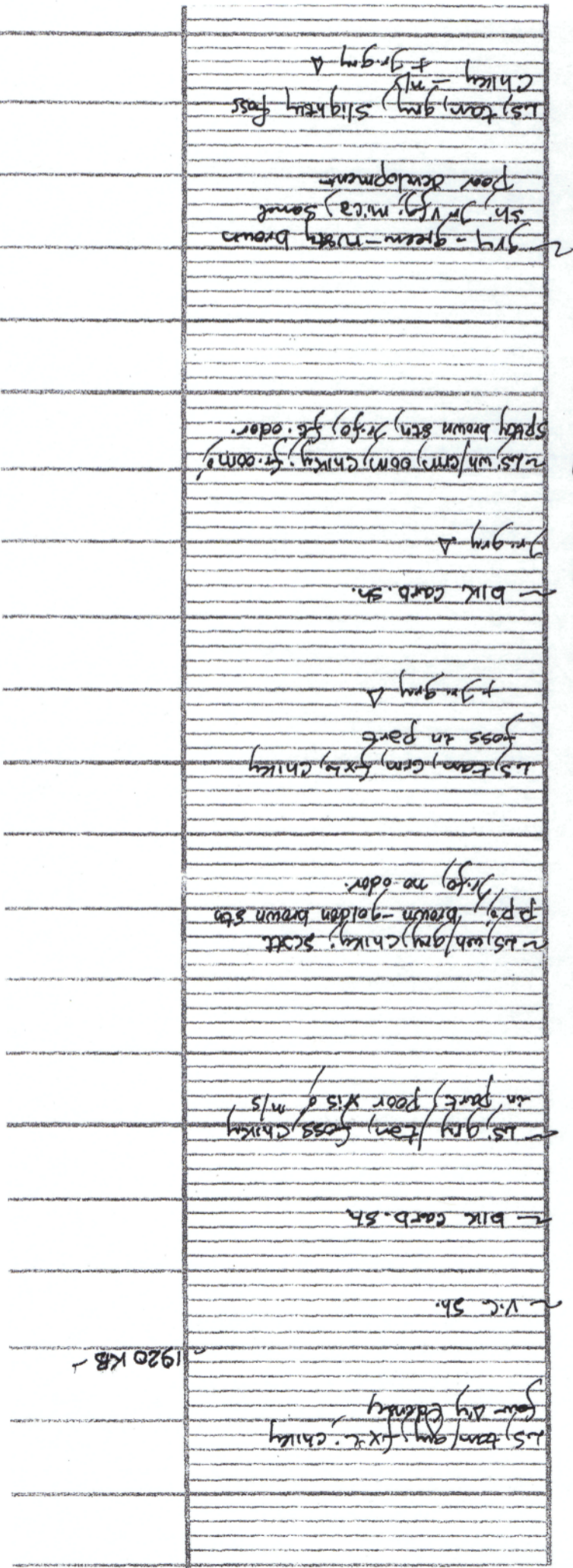


LEGEND

- Dolomite
- Chert
- Gal. Lime
- Limestone
- Carb. sh
- Shale
- Sandstone
- Salt
- Anhydrite



1000 ft
2843



DST#1 3138-
 30-30-15-5
 Blow/wear
 30-30-15-5
 Rec. 5' mud
 pressures, ISIP 8
 SSIP 21
 IFF 16
 IFF 16
 SSIP 16
 MSN
 1486
 -1

L.S. tan, gm, slightly foss
 Chiky - m/s
 + g. gm Δ

L.S. tan, oil, salt & bic-brown
 heavy stn m/sfo, 27' odor.

L.S. sub (gm) sub oom, Chiky
 poor vis. of m/s

Rec. 5' mud
 pressures, ISIP 8
 SSIP 21
 IFF 16
 IFF 16
 SSIP 16
 MSN
 1486
 -1

L.S. gm, wh. oil, Chiky
 Dr. light brown stn, m/sfo
 ft. odor

L.S. gm, wh. oil, Chiky
 Dr. light brown stn, m/sfo
 ft. odor

L.S. gm, wh. oil, Chiky
 Dr. light brown stn, m/sfo
 ft. odor

L.S. gm, wh. oil, Chiky
 Dr. light brown stn, m/sfo
 ft. odor

L.S. tan, foss, Chiky, fr
 2 part stn, m/sfo, ft. odor
 tech/oor Δ

Blow/wear 1/8-
 and opening, wear to
 30-30-45-4
 3288-3:
 30-30-45-4
 Blow/wear 1/8-

DST#2
 3288-3:
 30-30-45-4
 Blow/wear 1/8-

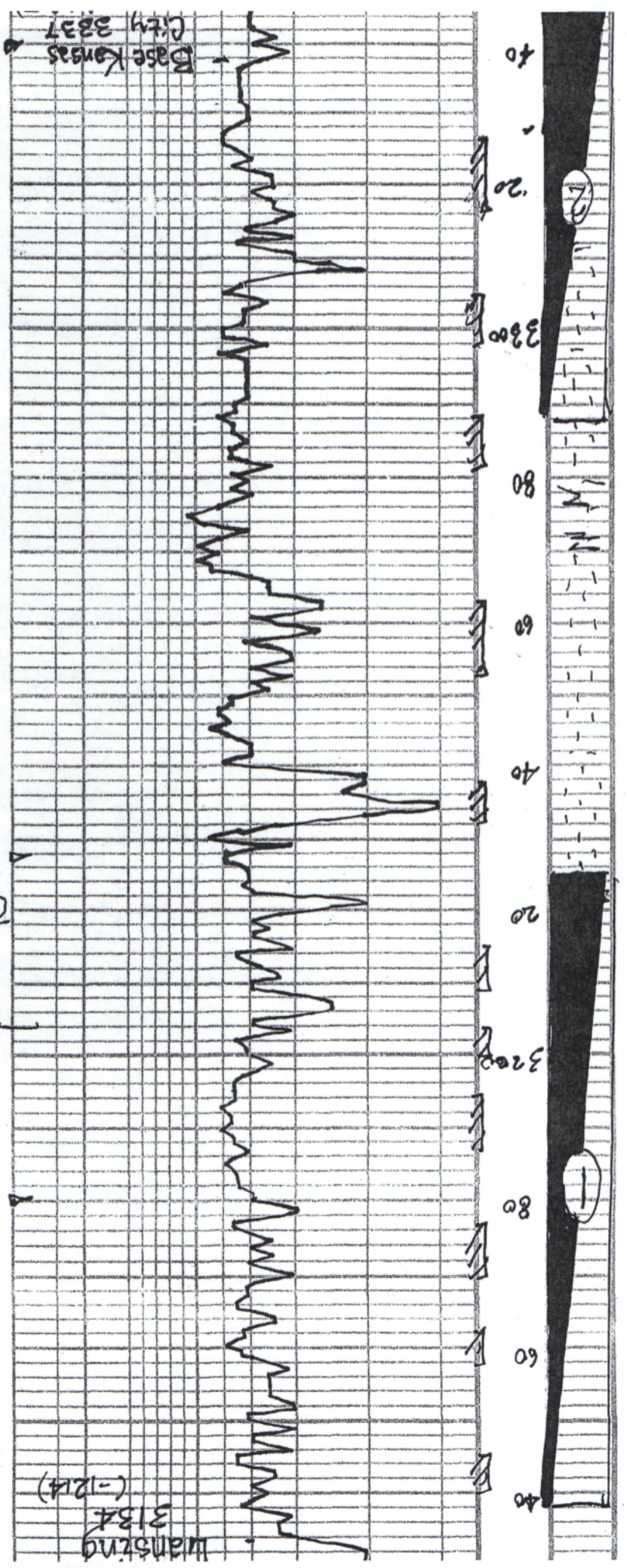
L.S. gm, wh. oil, foss,
 Chiky
 odor

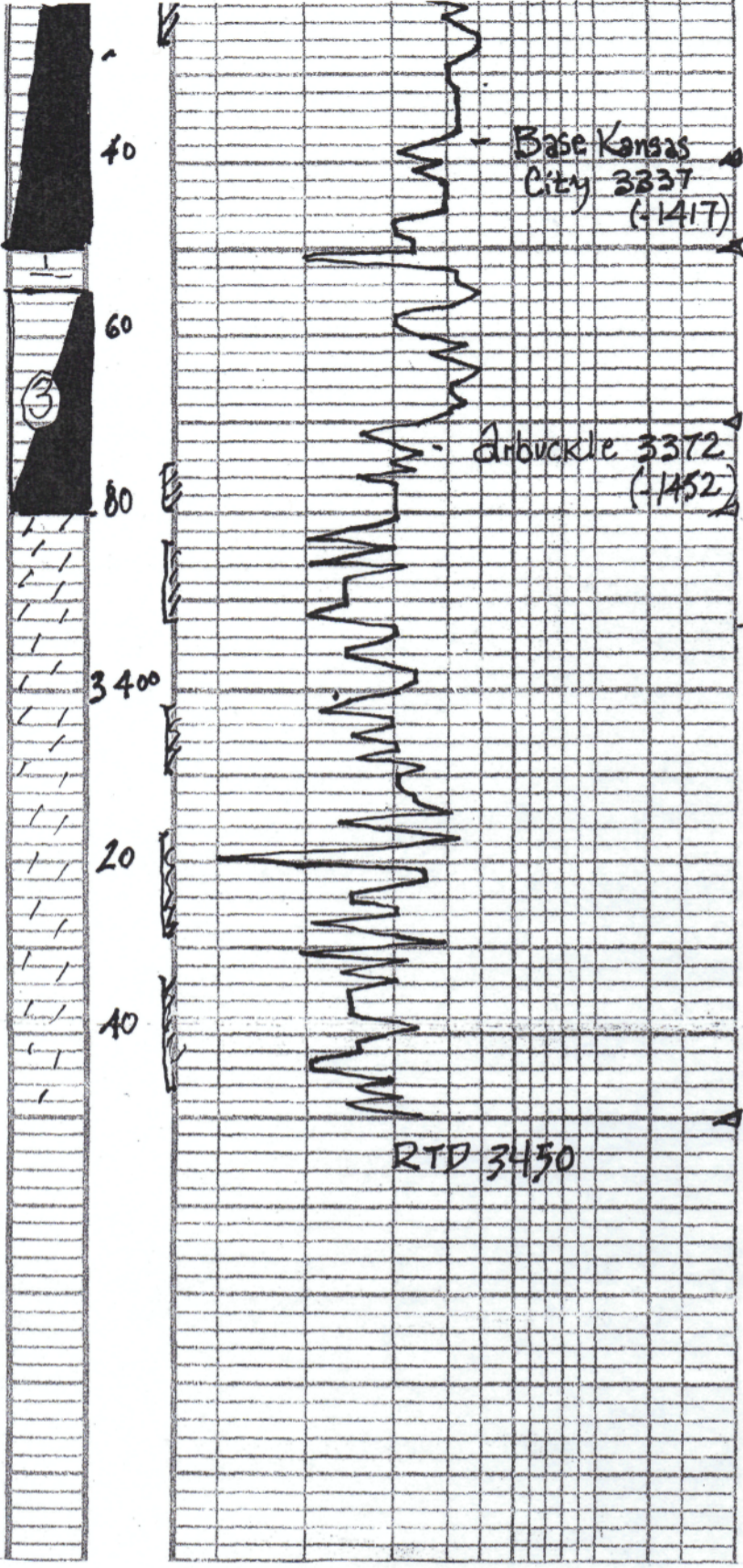
L.S. gm, wh. oil, foss,
 Chiky
 odor

L.S. gm, wh. oil, foss,
 Chiky
 odor

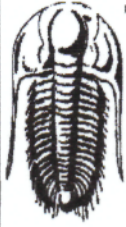
V.C. sh.

3)





cloudy / brown stn, sfo)
 odor
 } 2
 v.c. sh.
 ls/gly, wh, fix l, fess/ool
 chills (-3)
 Dst # 3 3354-3
 60-45-60-60
 Blow/ weak
 (1/2 - 3/4)
 2nd opening/ weak
 (1/4 - 1/2)
 Rec/ 60' gas in p
 60' clean oil
 20' HO & CM
 (1070g; 4070;
 5070 mud)
 pressures) ISIP T1
 FSIP 72
 ISIP 16-
 FSIP 35
 MSH
 1600-1
 dol, tan f-med xl, scatt,
 fr-l, brown-golden brown
 stn, sfo) st/sr. odor.
 dol, tan, brown-golden
 brown stn, sfo, fr. odor
 dol, wh, gny, fr, h, suc,
 Poor vis of fr brown stn, nsfo
 st/sr odor + wh Δ
 } 3
 are, few sandy - blk stn
 nsfo no odor
 } 3
 dol Δ are
 Base Kansas City 3337 (+1417)
 Arbuckle 3372 (+1452)
 RTD 3450



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations Inc

4-16s-14w Barton,KS

8411 Preston Rd
Ste 800
Dallas TX 75225-5520
ATTN: Kurt Mai

Miller Trust A#5

Job Ticket: 47362

DST#: 1

Test Start: 2012.04.13 @ 11:10:13

GENERAL INFORMATION:

Formation: **LKC B-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:44:08

Time Test Ended: 15:24:38

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: **3138.00 ft (KB) To 3225.00 ft (KB) (TVD)**

Total Depth: 3225.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1919.00 ft (KB)

1912.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: **6625**

Inside

Press@RunDepth: 18.38 psig @ 3140.00 ft (KB)

Start Date: 2012.04.13

End Date:

2012.04.13

Start Time: 11:10:13

End Time:

15:24:38

Capacity: 8000.00 psig

Last Calib.: 2012.04.13

Time On Btm: 2012.04.13 @ 12:41:08

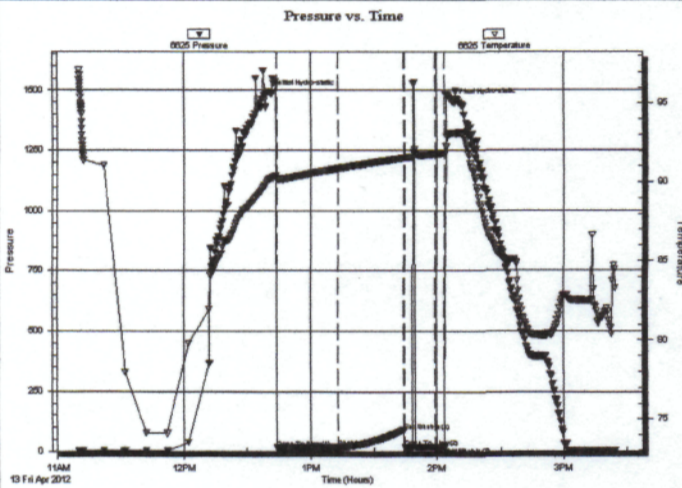
Time Off Btm: 2012.04.13 @ 14:07:38

TEST COMMENT: 30-IFP-surface bl, died in 10 min

30-ISIP-no bl

15-FFP-no bl, flushed tool

5-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1486.55	90.23	Initial Hydro-static
3	16.57	90.21	Open To Flow (1)
32	17.29	90.88	Shut-In(1)
63	84.19	91.55	End Shut-In(1)
64	16.98	91.54	Open To Flow (2)
78	18.38	91.80	Shut-In(2)
83	20.65	91.87	End Shut-In(2)
87	1452.55	93.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

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 75225-5520
ATTN: Kurt Mai

4-16s-14w Barton,KS
Miller Trust A#5
Job Ticket: 47363 **DST#: 2**
Test Start: 2012.04.14 @ 04:00:44

GENERAL INFORMATION:

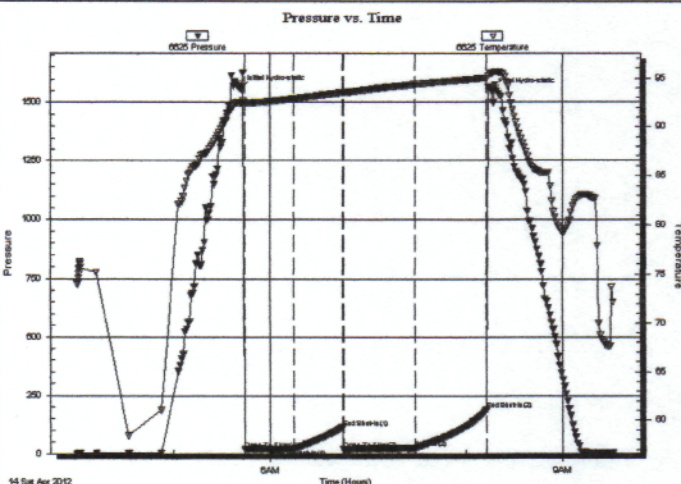
Formation: **LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:44:09
Time Test Ended: 09:31:08
Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schwager
Unit No: 42
Interval: **3288.00 ft (KB) To 3350.00 ft (KB) (TVD)**
Total Depth: 3350.00 ft (KB) (TVD)
Reference Elevations: 1919.00 ft (KB)
1912.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 7.00 ft

Serial #: 6625

Inside

Press@RunDepth: 22.25 psig @ 3294.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.04.14 End Date: 2012.04.14 Last Calib.: 2012.04.14
Start Time: 04:00:44 End Time: 09:31:08 Time On Btm: 2012.04.14 @ 05:41:39
Time Off Btm: 2012.04.14 @ 08:16:39

TEST COMMENT: 30-IFP-w k bl 1/8" to 1 1/4" bl
30-ISIP-no bl
45-FFP-w k to a fr bl 3" to 5 1/2" bl
45-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1559.21	92.50	Initial Hydro-static
3	18.73	92.51	Open To Flow (1)
33	20.47	92.89	Shut-In(1)
63	113.95	93.50	End Shut-In(1)
63	17.38	93.49	Open To Flow (2)
108	22.25	94.33	Shut-In(2)
152	189.49	94.98	End Shut-In(2)
155	1546.36	95.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (tbi)
0.00	165'GIP	0.00
15.00	HOCM 30%O70%M	0.21

* 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 75225-5520
 ATTN: Kurt Mai

4-16s-14w Barton,KS
Miller Trust A#5
 Job Ticket: 47364 **DST#: 3**
 Test Start: 2012.04.14 @ 15:55:38

GENERAL INFORMATION:

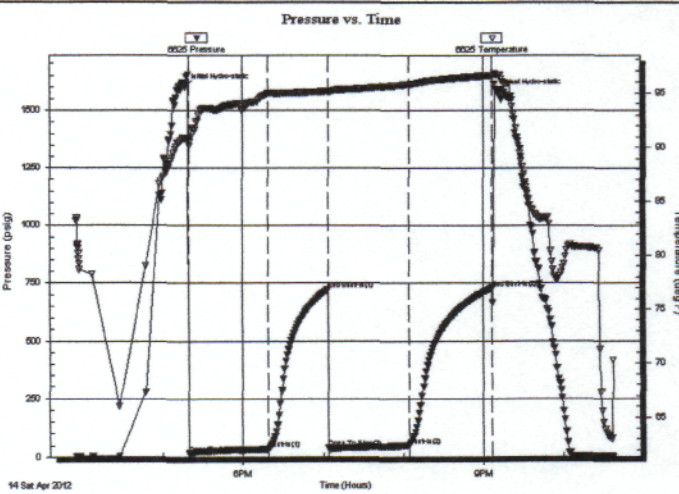
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:19:33
 Time Test Ended: 22:37:32
 Interval: **3354.00 ft (KB) To 3380.00 ft (KB) (TVD)**
 Total Depth: 3380.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1919.00 ft (KB)
 1912.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6625

Inside

Press@RunDepth: 48.67 psig @ 3355.00 ft (KB)
 Start Date: 2012.04.14 End Date: 2012.04.14
 Start Time: 15:55:38 End Time: 22:37:32
 Capacity: 8000.00 psig
 Last Calib.: 2012.04.14
 Time On Btm: 2012.04.14 @ 17:17:03
 Time Off Btm: 2012.04.14 @ 21:11:02

TEST COMMENT: 60-IFP-wk to a fr bl 1/2" to 3 1/2" bl
 45-ISIP-no bl
 60-FFP-wk bl thru-out 1/4" to 1 1/4" bl
 60-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1600.18	90.85	Initial Hydro-static
3	16.53	90.15	Open To Flow (1)
62	34.97	94.96	Shut-In(1)
107	722.50	95.14	End Shut-In(1)
107	39.15	95.08	Open To Flow (2)
167	48.67	95.78	Shut-In(2)
230	729.41	96.58	End Shut-In(2)
234	1573.26	96.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (tbl)
0.00	60'GIP	0.00
60.00	CO	0.84
20.00	HO&GCM 10%G40%O50%M	0.28

* 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. 5487

Date	4-9-12	Sec.	4	Twp.	16	Range	14	County	Barton	State	Ks	On Location		Finish	11:00 PM	
Lease	Miller Trust #1			Well No.	5			Location	Barton + Russell County Line, 12u							
Contractor	Southwind #3							Owner	S/Into							
Type Job	Surface							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	12 1/4"			T.D.	433'			Charge To	Ma. oil operations							
Csg.	8 5/8"			Depth	433'			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.	20'			Shoe Joint	20'			Cement Amount Ordered	22.5 SY 60/40 3% CC							
Meas Line				Displace	26 1/4 BLS											

EQUIPMENT

Pumptrk	15	No.	Cementer	Craig		2 1/2 Gal
			Helper			Common
Bulktrk	3	No.	Driver	Levy		Poz. Mix
			Driver			Gel.
Bulktrk	p.u.	No.	Driver	Rick		Calcium
			Driver			Hulls

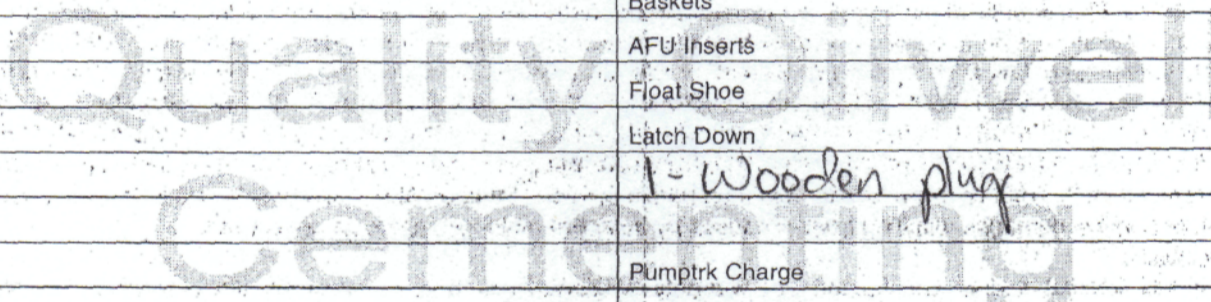
JOB SERVICES & REMARKS

Remarks:	Miller Trust "A" #5					
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					
	Mileage					

FLOAT EQUIPMENT

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

X Signature	<i>Jay Kruer</i>	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. 492

Date	4-15-12	Sec.	4	Twp.	16	Range	14	County	Barber	State	Kansas	On Location		Finish	7:00pm
Lease	Miller Trust	Well No.	A-5		Location Russell S. to Co. Line 1/4 Sec 16										

Contractor	Southwind Drilling Rig	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	Longstring	Charge To	Main Oil Operations												
Hole Size	7 7/8	T.D.	3450												
Csg.	5 1/2 14lb	Depth	3449												
Tbg. Size		Depth													
Tool		Depth													
Cement Left in Csg.	19.75	Shoe Joint	19.75	The above was done to satisfaction and supervision of owner agent or contractor.											
Meas Line		Displace	83 1/2 Bbl	Cement Amount Ordered 160 @ 140 10% Salt											

EQUIPMENT

Pumptrk	5	No.	Cementer	Steve	28 bbl 1/2 Flo Seal per sk 1000 Mud Chem 48										
			Helper	Steve	Common										
Bulktrk	10	No.	Driver	Brett	Poz. Mix										
			Driver	Brett											
Bulktrk		No.	Driver	Nick	Gel.										
			Driver	Nick											

JOB SERVICES & REMARKS

Remarks:		Calcium	
Rat Hole	30x	Hulls	
Mouse Hole		Salt	
Centralizers	1-10	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	10 Turbas
		Baskets	
		AFU Inserts	
		Float Shoe	1
		Latch Down	1

		Pumptrk Charge	
		Mileage	
		Tax	
		Discount	
		Total Charge	

X Signature

Handwritten signature: Keith

