



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1211721
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: _____

1211721

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

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

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

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

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

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

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

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

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

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

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

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

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

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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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Miller Farms 1
Doc ID	1211721

Tops

Name	Top	Datum
Anhydrite	951	+1048
Heebner	3155	-1156
Toronto	3171	-1172
Douglas	3186	-1187
Brown Lime	3231	-1233
Lansing	3241	-1242
Base Kansas City	3442	-1443
Arbuckle	3451	-1452



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 Miller Farms #1
 FIELD Barrett
 LOCATION SE-SW-NE-SE (1350' FSL / 875' FEL)
 SEC 36 TWP 16³ RGE 14^W
 COUNTY Barton STATE Kansas

ELEVATIONS
 KB 1999
 DF _____
 GL 1991
 Measurements Are All
 from -KB-

CONTRACTOR Southwind Drilling (rig #3)
 SPUD 2-26-2014 COMP 3-5-2014
 RTE 3536 LTD 3534
 MUD UP 2800 TYPE MUD chemical displaced

CASING
 SURFACE 8780 517
 PRODUCTION 5 1/2" 11c 3529

ELECTRICAL SURVEYS
 By Nabors Dual induction,
Compensated Density/Neutron,
Micro, Sonic

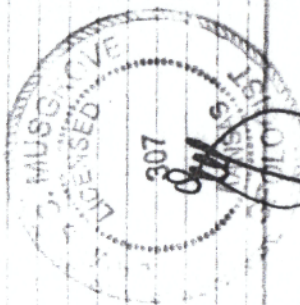
SAMPLES SAVED FROM 3000 TO _____
 DRILLING TIME KEPT FROM 3000 TO _____
 SAMPLES EXAMINED FROM 3000 TO _____
 GEOLOGICAL SUPERVISION FROM 3100 TO _____
 GEOLOGIST ON WELL Jim Musgrove

FORMATION TOPS	LOG	SAMPLES
anhydrite	951	+1048
Base anhydrite	981	+1018
Heebner	3155	-1156
Toronto	3171	-1172
Douglas	3186	-1187
Brown lime	3231	-1233
Mansing	3241	-1242
Base Kansas City	3442	-1443
Arbuckle	3451	-1452
RTD	3536	-1537

5 1/2" production casing set, cemented on the Miller Farms #1.

Respectfully Submitted;

James C. Musgrove
Petroleum Geologist

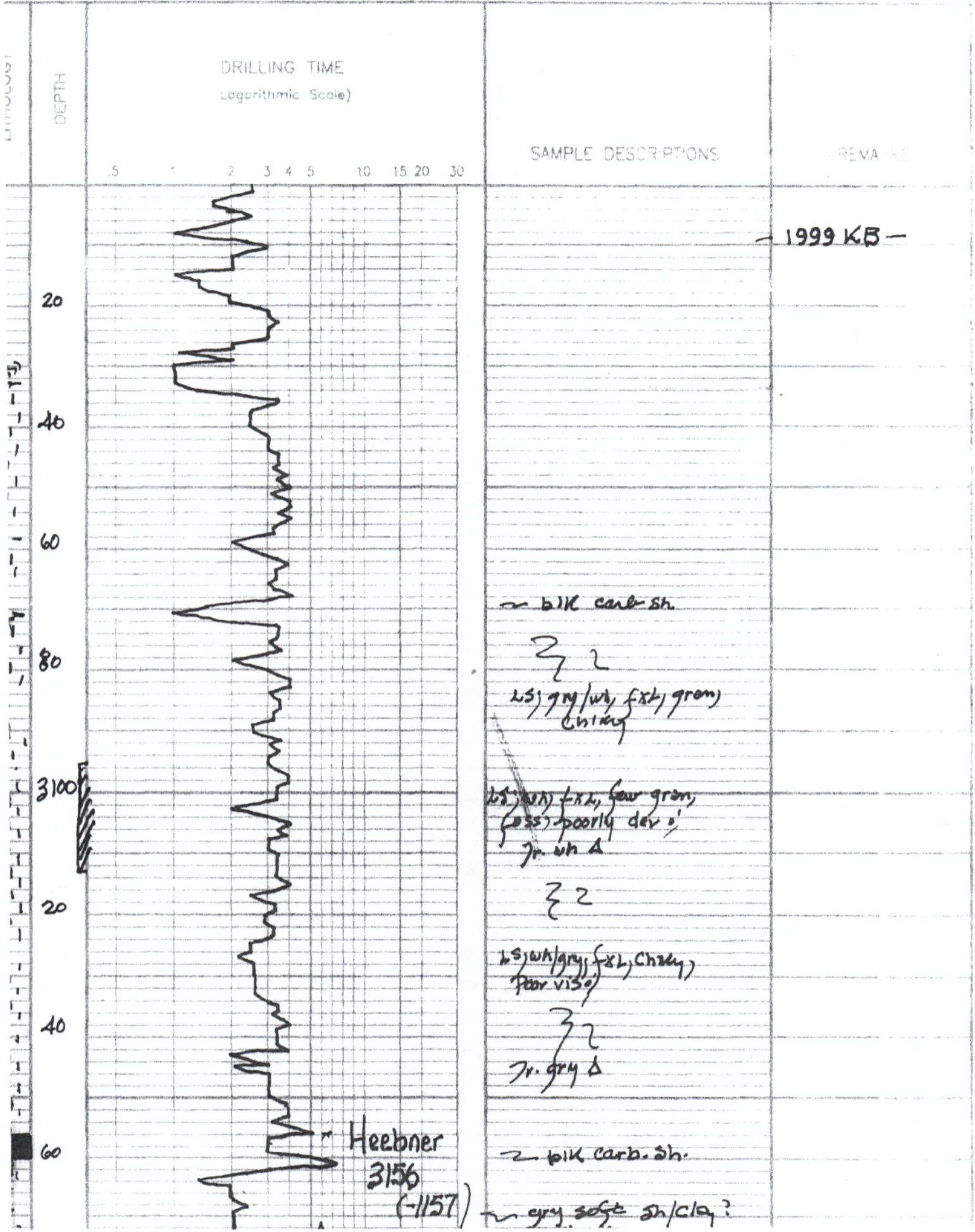
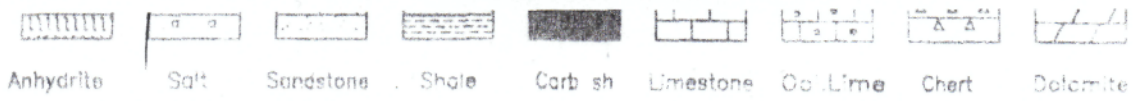


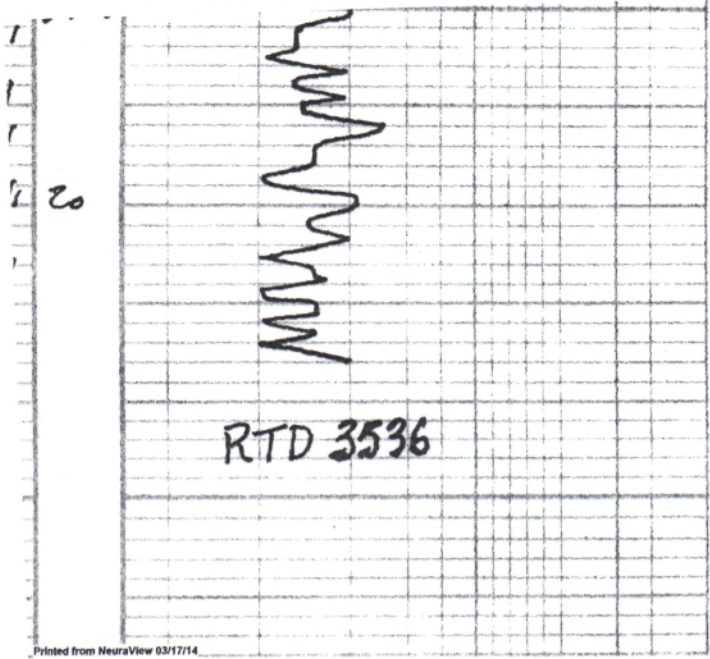
LEGEND

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

DRILLING TIME

MARKS

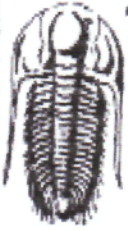




Dr 1 xl = Spotty brackish / SP
 dol; crm. tan f-mal xl sl. gray
 Poor vis. Spotty sh. N50W Abadan
 dol; tan-buff fxl dense
 Poor c. P/S

1705-1681 ps
 1718
 -1710 ps

DST # 3 3432-3466
 30-30-45-45
 Blow, strong
 Rec; 125' Gassy muddy
 oil
 (20% gas, 20% mud)
 (60% oil)
 340' Gassy oil
 (20% gas, 80% oil)
 pressures / SSIP 1057 PSI
 SSIP 1064
 I/P 30-104
 P/P 110-188
 HSH
 1718
 -1710 ps



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.

36-16s-14w Barton,KS

8411 Preston Rd STE
800 Dalls TX 75225

Miller Farms #1

Job Ticket: 56220

DST#: 1

ATTN: Jim Musgrove

Test Start: 2014.03.02 @ 20:30:00

GENERAL INFORMATION:

Formation: **KC"H"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 22:44:45

Time Test Ended: 02:54:30

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Brett Dickinson**

Unit No: **59**

Interval: **3361.00 ft (KB) To 3391.00 ft (KB) (TVD)**

Total Depth: **3391.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1999.00 ft (KB)**

1991.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8736

Outside

Press@RunDepth: **21.00 psig @ 3388.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2014.03.02**

End Date:

2014.03.03

Last Calib.:

2014.03.03

Start Time: **20:30:05**

End Time:

02:54:29

Time On Btm:

2014.03.02 @ 22:44:15

Time Off Btm:

2014.03.03 @ 01:15:00

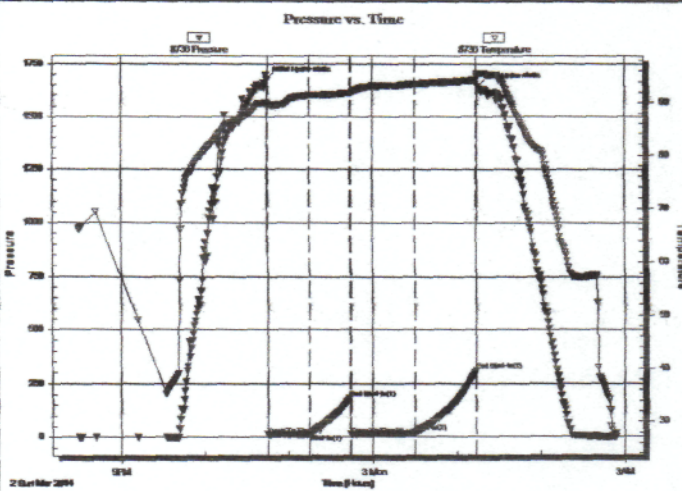
TEST COMMENT:

F-5" blow

IS- No blow

FF-7 1/2" blow

FS- No blo



PRESSURE SUMMARY

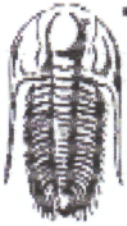
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1674.91	90.06	Initial Hydro-static
1	11.85	89.65	Open To Flow (1)
30	16.23	91.39	Shut-In(1)
59	181.52	91.81	End Shut-In(1)
60	11.40	91.82	Open To Flow (2)
106	21.00	93.57	Shut-In(2)
150	310.93	94.23	End Shut-In(2)
151	1643.24	95.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 30%O 70%M	0.28
0.00	100ft GIP	0.00

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 Dalls TX 75225
 ATTN: Jim Musgrove

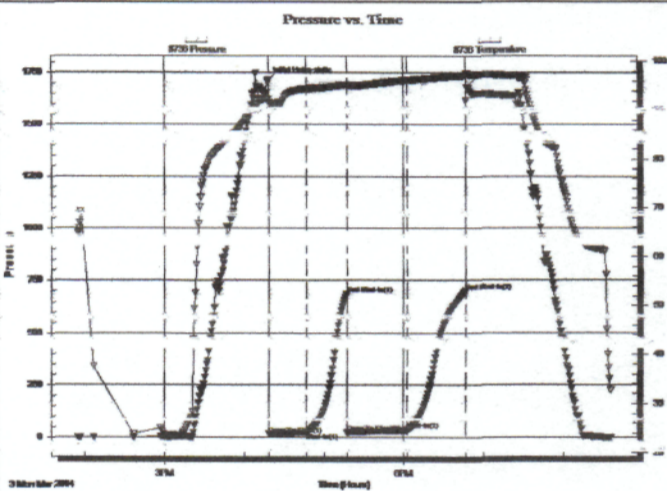
36-16s-14w Barton,KS
Miller Farms #1
 Job Ticket: 56221 **DST#: 2**
 Test Start: 2014.03.03 @ 13:55:00

GENERAL INFORMATION:

Formation: **KC"1-K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:18:30
 Time Test Ended: 20:35:45
 Interval: **3393.00 ft (KB) To 3456.00 ft (KB) (TVD)**
 Total Depth: 3456.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 1999.00 ft (KB)
 1991.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 0700 Outside
 Start Date: 2014.03.03 End Date: 2014.03.03
 Start Time: 13:55:05 End Time: 20:35:44
 Capacity: 0000.00 psig
 Last Calib.: 2014.03.03
 Time On Btm: 2014.03.03 @ 16:17:45
 Time Off Btm: 2014.03.03 @ 18:47:45

TEST COMMENT: F-8 3/4" blow
 FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.20	92.01	Initial Hydro-static
7	10.77	91.07	Open To Flow (1)
30	24.29	94.47	Shut-In(1)
60	685.40	95.23	End Shut-In(1)
60	23.82	95.01	Open To Flow (2)
105	35.21	96.14	Shut-In(2)
149	699.81	97.09	End Shut-In(2)
150	1661.34	97.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OCM 40%O 60%M	0.70
0.00	FOOT OIL	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 Dalls TX 75225
 ATTN: Jim Musgrove

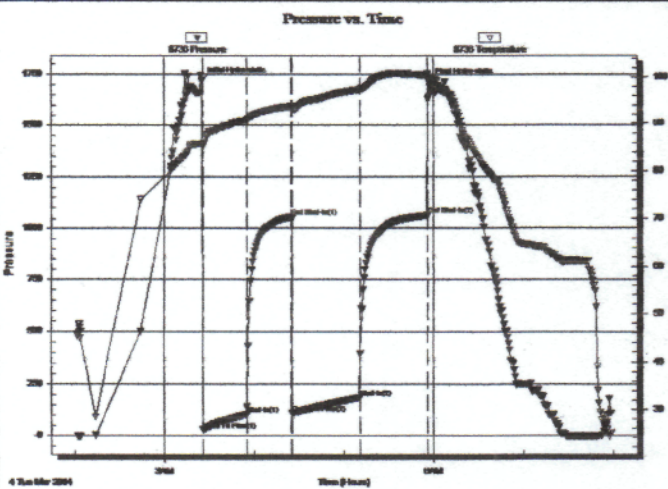
36-16s-14w Barton,KS
Miller Farms #1
 Job Ticket: 56222 **DST#: 3**
 Test Start: 2014.03.04 @ 02:02:00

GENERAL INFORMATION:

Formation: **Arb**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 03:25:45
 Time Test Ended: 07:58:45
 Interval: **3432.00 ft (KB) To 3466.00 ft (KB) (TVD)**
 Total Depth: 3466.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 1999.00 ft (KB)
 1991.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8736 Outside
 Press@RunDepth: 188.35 psig @ 3463.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.04 End Date: 2014.03.04 Last Calib.: 2014.03.04
 Start Time: 02:02:05 End Time: 07:58:44 Time On Btm: 2014.03.04 @ 03:25:00
 Time Off Btm: 2014.03.04 @ 05:57:00

TEST COMMENT: F-BOB in 4 1/2 min
 IS-1/4" blow
 FF-BOB in 7 min
 FS-1/4" blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1717.68	85.68	Initial Hydro-static
1	30.23	85.28	Open To Flow (1)
30	103.85	90.84	Shut-In(1)
60	1057.08	93.77	End Shut-In(1)
61	110.35	93.42	Open To Flow (2)
106	188.35	97.30	Shut-In(2)
151	1064.33	100.42	End Shut-In(2)
152	1709.96	99.57	Final Hydro-static

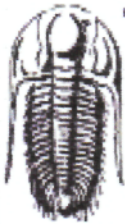
Recovery

Length (ft)	Description	Volume (bbl)
125.00	GMCO 20%G 20%O 60%O	1.75
340.00	GO 20%G 80%O	4.77

* 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 Dalls TX 75225
 ATTN: Jim Musgrove

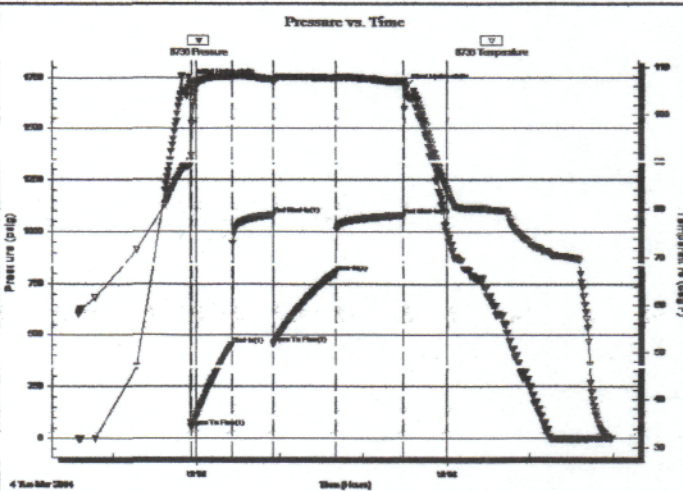
36-16s-14w Barton,KS
Miller Farms #1
 Job Ticket: 56223 **DST#: 4**
 Test Start: 2014.03.04 @ 16:35:00

GENERAL INFORMATION:

Formation: **Arbuckie**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 17:56:15
 Time Test Ended: 22:59:15
 Interval: **3466.00 ft (KB) To 3476.00 ft (KB) (TVD)**
 Total Depth: **3476.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Brett Dickinson**
 Unit No: **59**
 Reference Elevations: **1999.00 ft (KB)**
 1991.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8736 **Outside**
 Press@RunDepth: **806.91 psig @ 3473.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2014.03.04** End Date: **2014.03.04** Last Calib.: **2014.03.04**
 Start Time: **16:35:05** End Time: **22:59:14** Time On Btm: **2014.03.04 @ 17:55:30**
 22:59:14 Time Off Btm: **2014.03.04 @ 20:30:00**

TEST COMMENT: F-BOB in 1 1/2 min
 IS-1/4" blow
 FF-BOB in 1 1/2 min
 FS-1/4" blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1726.74	90.19	Initial Hydro-static
1	56.52	91.32	Open To Flow (1)
30	451.30	107.99	Shut-in(1)
60	1080.97	107.42	End Shut-in(1)
60	458.07	106.98	Open To Flow (2)
105	806.01	107.70	Shut in(2)
154	1078.78	106.93	End Shut-in(2)
155	1702.30	106.38	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1455.00	water	20.41
125.00	Oil Spotted Water	1.75
125.00	VSGMMCO 5%G 50%O 40%W 5%M	1.75
90.00	GO 30%G 70%O	1.26

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

* Recovery from multiple tests

QUALITY OILWELL CEMENTING, INC.

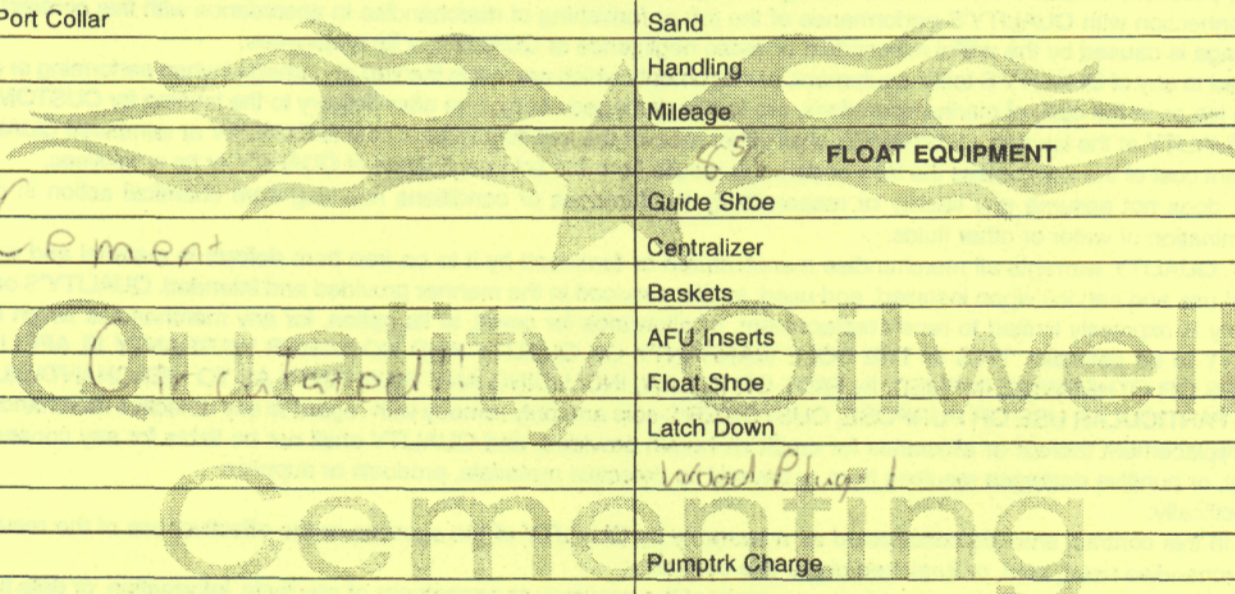
Federal Tax I.D.# 20-2886107

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

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

No. 7075

Date	2-26-14	Sec.	36	Twp.	16	Range	14	County	Barton	State	KS	On Location	Finish	12:30AM
								Location						
Lease								Well No.		Owner				
Miller Farm								#1		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.				
Contractor										Type Job				
Southwind #3										Surface				
Hole Size								T.D.		Charge To				
12 1/4								517'		Mo. Oil				
Csg.								Depth		Street				
8 5/8								517						
Tbg. Size								Depth		City				
										State				
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.				
										Cement Amount Ordered				
Cement Left in Csg.								Shoe Joint		225 360/110 3% cc 2% bal				
30'														
Meas Line								Displace						
								31 bbl						
EQUIPMENT										Common				
Pumptrk								No.		Cementer				
17										Helper				
										Nick				
Bulktrk								No.		Driver				
14										Doug				
Bulktrk								No.		Driver				
PU										Brian				
										Calcium				
JOB SERVICES & REMARKS										Hulls				
Remarks:										Salt				
Rat Hole										Flowseal				
Mouse Hole										Kol-Seal				
Centralizers										Mud CLR 48				
Baskets										CFL-117 or CD110 CAF 38				
D/V or Port Collar										Sand				
										Handling				
										Mileage				
										FLOAT EQUIPMENT				
										Guide Shoe				
										Centralizer				
										Baskets				
										AFU Inserts				
										Float Shoe				
										Latch Down				
										Wood Plug #1				
										Pumptrk Charge				
										Mileage				
										Tax				
										Discount				
										Total Charge				
Signature														
Guy Houder														



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. 471

Date	3-5-14	Sec.	36	Twp.	16	Range	14	County	Barton	State	KS	On Location	4:00 PM	Finish	> 5 PM
Lease								Location		Sticky E to 20th ave					
Miller farms								Well No.		#1					
Contractor								Owner		L.S. Winto					
South Wind 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								Long Strips							
Hole Size				T.D.				Charge To				Mai Oil			
5 1/2				3536											
Csg.				Depth				Street							
5 1/2				3529											
Tbg. Size				Depth				City				State			
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
								Cement Amount Ordered				160 10% Salt			
Cement Left in Csg.				Shoe Joint				Cement				2% gel Yu flow			
20.08				21.08											
Meas Line				Displace											
14.5				89.5											
EQUIPMENT															
Pumptrk				Cementer				Common							
016				No. 2											
Bulktrk				Helper				Poz. Mix							
14				No. 1											
Bulktrk				Driver				Gel.							
pu				No. 1											
				Driver				Calcium							
				No. 1											
				Driver				Hulls							
				No. 1											
				Driver				Salt							
				No. 1											
				Driver				Flowseal							
				No. 1											
				Driver				Kol-Seal							
				No. 1											
				Driver				Mud CLR 48				1000 g			
				No. 1											
				Driver				CFL-117 or CD110 CAF 38							
				No. 1											
				Driver				Sand							
				No. 1											
				Driver				Handling							
				No. 1											
				Driver				Mileage				5%			
				No. 1											
				Driver				Guide Shoe							
				No. 1											
				Driver				Centralizer turbos				10			
				No. 1											
				Driver				Baskets				Bed 1			
				No. 1											
				Driver				AFU Inserts							
				No. 1											
				Driver				Float Shoe							
				No. 1											
				Driver				Latch Down				1			
				No. 1											
				Driver				Pumptrk Charge							
				No. 1											
				Driver				Mileage							
				No. 1											
				Driver				Tax							
				No. 1											
				Driver				Discount							
				No. 1											
				Driver				Total Charge							
				No. 1											

X Signature *Burt Homeier*