



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1088547
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: _____

1088547

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 24, 2012

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

Re: ACO1
API 15-009-25672-00-00
Dietz 3
NW/4 Sec.03-16S-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

JAMES C. MUSGROVE

Petroleum Geologist
212 Main Street
P.O. Box 215
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations
Dietz #3
E/2-SW-SW-NW (2310' FNL & 575' FWL)
Section 3-16s-14w
Barton County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (Rig #3)
Commenced: April 16, 2012
Completed: April 22, 2012
Elevation: 1939' K.B; 1937' D.F; 1931' G.L.
Casing program: Surface; 8 5/8" @ 436'
Production; 5 1/2" @ 3469'
Sample: Samples saved and examined 2800' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2800 ft to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were two (2) Drill Stem Tests ran by Trilobite Testing.
Electric Log: By Superior Well Services; Dual Induction, Compensated Neutron/Density Log and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	935	+1004
Base Anhydrite	956	+983
Topeka	2850	-911
Heebner	3080	-1141
Toronto	3097	-1158
Lansing	3147	-1208
Muncie Creek	3286	-1347
Base Kansas City	3347	-1480
Arbuckle	3379	-1440
Rotary Total Depth	3470	-1531
Lot Total Depth	3469	-1530

(All tops and zones corrected to Electric Log measurements).

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

3026-3040' Limestone; white/gray, fossiliferous, chalky, poor visible porosity, trace poor dark brown stain, no show of free oil and no odor in fresh samples.

TORONTO SECTION

3099-3110' Limestone; white, cream, finely crystalline, fossiliferous, chalky, spotty stain, show of free oil and no odor in fresh samples.

LANSING SECTION

3147-3160' Limestone; cream, finely crystalline, fossiliferous in part, poor porosity, no shows.

3166-3172' Limestone; white, gray, oolitic, fair porosity, brown stain, trace of free oil and no odor in fresh samples.

3193-3210' Limestone; white, oolitic, oomoldic, scattered porosity, trace brown spotty stain, trace of free oil and no odor in fresh samples.

3220-3225' Limestone; tan, finely crystalline, few oolitic, scattered intercrystalline and pinpoint type porosity, good stain and saturation, show of free oil and faint odor in fresh samples.

Drill Stem Test #1 3154-3225'

Times: 30-30-X-X

Blow: Weak

Recovery: 5' mud

**Pressures: ISIP 37 psi
 FSIP X psi
 IFP 18-20 psi
 FFP X psi
 HSH 1542-1518 psi**

3228-3234' Limestone; as above, plus white and gray chert.

3241-3251' Limestone; white, gray, sub oomoldic, chalky, poor visible porosity, no shows.

3271-3281' Limestone; white, gray, sub oomoldic, poorly developed porosity, trace gray opaque chert.

3293-3303' Limestone; white, gray, few fossiliferous, poor porosity, trace stain, trace of free oil and weak odor in fresh samples.

3308-3320' Limestone; white/gray, oolitic, fossiliferous, chalky, trace stain, trace of free oil and faint odor in fresh samples.

3326-3340' Limestone; gray, white, fossiliferous/oolitic, chalky, trace stain, trace of free oil and no odor.

ARBUCKLE SECTION

3379-3390' Dolomite; white, gray, medium crystalline, fair porosity, brown and golden brown stain and saturation, show of free oil and fair odor in fresh samples.

3390-3400' Dolomite; as above, few recrystallized plus trace white chert.

Drill Stem Test #2 **3344-3400'**

Times: 45-45-45-45

Blow: Strong

**Recovery: 279' gas in pipe
807' gassy oil
93' heavy oil and gas cut mud
(20% gas, 50% oil, 30% mud)**

**Pressures: ISIP 802 psi
FSIP 751 psi
IFP 41-232 psi
FFP 241-351 psi
HSH 1653-1618 psi**

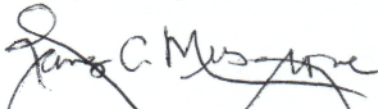
- 3410-3420' Dolomite; tan, gray, medium crystalline, fair to good intercrystalline and vuggy type porosity, brown and dark brown stain, show of oil and fair odor.
- 3410-3426' Dolomite; gray, white, sub oomoldic, fair porosity, brown and light brown stain, trace of free oil and faint odor, plus white chert.
- 3426-3450' Dolomite; white and gray, medium crystalline, fair porosity, brown and black stain, trace of free oil and questionable odor in fresh samples.
- 3450-3470' Dolomite; brown, medium and coarse crystalline, fair to good intercrystalline porosity, no show, plus white chert.

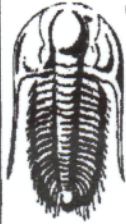
Rotary Total Depth 3470
Log Total Depth 3469

Recommendations:

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

Respectfully submitted;


James C. Musgrove,
Petroleum Geologist



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

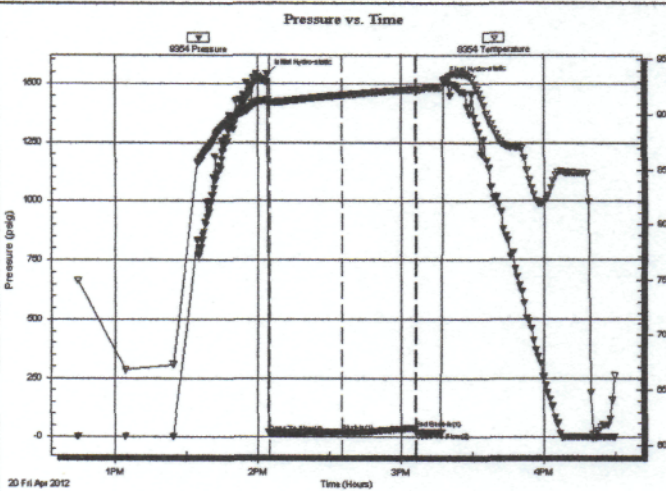
3/16S/14W-Barton
AAZ Dietz #3
 Job Ticket: 47218 DST#: 1
 Test Start: 2012.04.20 @ 12:34:15

GENERAL INFORMATION:

Formation: **LKC "B-E"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 14:04:35
 Time Test Ended: 16:29:45
 Interval: **3154.00 ft (KB) To 3225.00 ft (KB) (TVD)**
 Total Depth: **3225.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Dustin Rash**
 Unit No: **38**
 Reference Elevations: **1939.00 ft (KB)**
1931.00 ft (CF)
 KB to GRV/CF: **8.00 ft**

Serial #: 8354 Inside
 Press@RunDepth: **19.56 psig @ 3193.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.04.20** End Date: **2012.04.20** Last Calib.: **2012.04.20**
 Start Time: **12:44:15** End Time: **16:29:45** Time On Btm: **2012.04.20 @ 14:04:15**
 Time Off Btm: **2012.04.20 @ 15:17:45**

TEST COMMENT: IF-Weak surface blow . Died @ 5 minutes.
 IS-No Return.
 FF-No blow . Flushed tool. No blow . Pulled tool.



PRESSURE SUMMARY

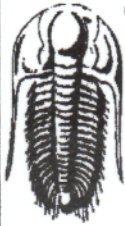
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1541.84	91.39	Initial Hydro-static
1	17.76	91.12	Open To Flow (1)
31	19.56	91.78	Shut-In(1)
62	37.18	92.34	End Shut-In(1)
62	19.79	92.32	Open To Flow (2)
74	1518.11	93.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	100%Mud	0.08

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: Jim Musgrove

3/16S/14W-Barton
Dietz #3
Job Ticket: 46220 **DST#: 3**
Test Start: 2012.04.21 @ 20:06:15

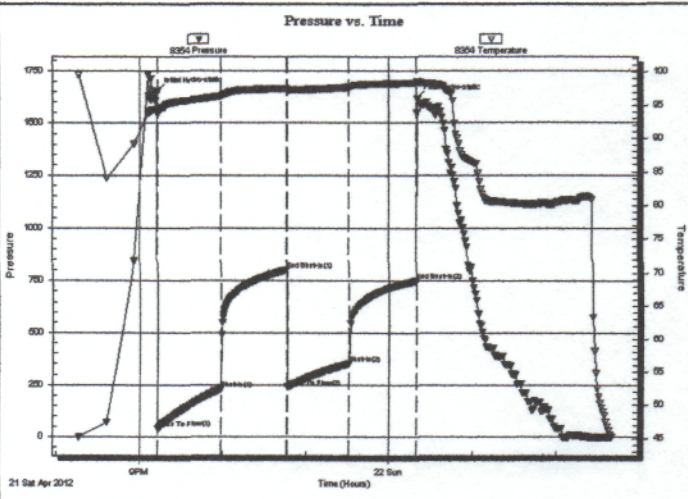
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No** Whipstock: ft (KB) Test Type: **Conventional Bottom Hole (Initial)**
Time Tool Opened: 21:12:55 Tester: **Dustin Rash**
Time Test Ended: 02:40:15 Unit No: **38**

Interval: **3344.00 ft (KB) To 3400.00 ft (KB) (TVD)** Reference Elevations: 1939.00 ft (KB)
Total Depth: **3400.00 ft (KB) (TVD)** 1931.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: 8.00 ft

Serial #: 8354 **Inside**
Press@RunDepth: **350.93 psig @ 3383.00 ft (KB)** Capacity: 8000.00 psig
Start Date: **2012.04.21** End Date: 2012.04.22 Last Calib.: 2012.04.22
Start Time: **20:16:15** End Time: 02:40:15 Time On Btm: 2012.04.21 @ 21:12:45
Time Off Btm: 2012.04.22 @ 00:20:15

TEST COMMENT: IF-Strong building blow . BOB in 3 minutes 30 seconds.
ISI-Return @ 1 minute. Built to 2&1/2 inches.
FF-Fair building blow . Built to BOB in 6 minutes 30 seconds.
FSI-No Return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1653.35	94.46	Initial Hydro-static
1	40.94	93.72	Open To Flow (1)
46	232.26	96.41	Shut-In(1)
93	801.86	97.53	End Shut-In(1)
94	240.64	97.36	Open To Flow (2)
138	350.93	97.73	Shut-In(2)
187	750.81	98.33	End Shut-In(2)
188	1617.49	98.55	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
93.00	20%Gas/50%Oil/30%Mud	1.30
807.00	40%Gas/60%Oil	11.32
0.00	279' G.I.P.	0.00

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. 324

Date	4-16-12	Sec.	3	Twp.	16	Range	14	County	Barton	State	KS	On Location		Finish	11:00p.m.
Lease	DIETZ			Well No.	3			Location	Russell's CO Line 1w 1/2 S E into						
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						
Hole Size	12 1/4			T.D.	436			Depth	436						
Csg.	8 5/8			Tbg. Size				Tool							
Cement Left in Csg.	10' 20'			Shoe Joint				Meas Line	Displace			26 1/2 BCL			
								Cement Amount Ordered	22.5 60/40 3% 6cc 2% 6cc						

EQUIPMENT

Pumptrk	5	No.	Cementer	Clag	Common
			Helper		
Bulktrk		No.	Driver	Brett	Poz. Mix
			Driver		
Bulktrk	10	No.	Driver	Levy	Gel.
			Driver		

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
8 5/8 on bottom. Est Circulation.	CFL-117 or CD110 CAF 38
Mix 22.5-50cc Displace Plug	Sand
Cement Circulated	Handling
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts 8 5/8 wooden Plug
	Float Shoe
	Latch Down

	Pumptrk Charge	Tax
	Mileage	Discount
		Total Charge

X Signature *Jay Idrii*

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. 281

Date	4/23/12	Sec.	3	Twp.	16	Range	14	County	Baron	State	KS	On Location	Finish	12:45AM	
Lease	Diets		Well No.	3		Location									
Contractor												Owner			
Type Job												To Quality Oilwell Cementing, Inc.			
Hole Size												You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Csg.												Charge To			
Tbg. Size												Street			
Tool												City			
Cement Left in Csg.												State			
Meas Line												The above was done to satisfaction and supervision of owner agent or contractor.			
EQUIPMENT												Cement Amount Ordered			
Pumptrk												16000 10% 5.4 20/200			
Bulktrk												4# flocc 60/40			
JOB SERVICES & REMARKS												Calcium			
Remarks:												Hulls			
Rat Hole												Salt			
Mouse Hole												Flowseal			
Centralizers												Kol-Seal			
Baskets												Mud CLR 48 1000 gal.			
D/V or Port Collar												CFL-117 or CD110 CAF 38			
Est Circ.												Sand			
Pump												Handling			
Mud												Mileage			
Displace												FLOAT EQUIPMENT			
Lent Plug												Guide Shoe			
Plug												Centralizer 10 - Turbos			
T												Baskets			
Y												AFU Inserts			
												Float Shoe			
												Latch Down			
												Pumptrk Charge			
												Mileage			
												Tax			
												Discount			
X Signature												Total Charge			