



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1231122  
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: \_\_\_\_\_

1231122

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Alex Dechant 2
Doc ID	1231122

Tops

Name	Top	Datum
Anhydrite	1456	+769
Heebner	3701	-1476
Toronto	3713	-1488
Lansing	3746	-1521
BKC	4071	-1846
Marmaton	4110	-1885
Fort Scott	4263	-2038
Mississippi	4358	-2133





**JAMES C. MUSGROVE**

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

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations  
Alex Dechant #2  
SE-NW-SW-NE (1665' FNL & 2000' FEL)  
Section 17-20s-22w  
Ness County, Kansas

Page 1

**5 1/2" Production Casing Set**

**Contractor:** Southwind Drilling Co. (rig #2)  
**Commenced:** July 10, 2014  
**Completed:** July 19, 2014  
**Elevation:** 2225' K.B., 2223' D.F., 2216' G.L.  
**Casing program:** Surface; 8 5/8" @ 264'  
Production, 5 1/2" @ 4429'  
**Sample:** Samples saved and examined 3600' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 3600 ft. to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There were three (3) Drill Stem Tests ran by Trilobite Testing Co.  
**Electric Log:** By Nabors; Dual Induction, Compensated Density/Neutron Log and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	1456	+769
Base Anhydrite	1487	+738
Heebner	3701	-1476
Toronto	3713	-1488
Lansing	3746	-1521
Base Kansas City	4071	-1846
Marmaton	4110	-1885
Pawnee	4191	-1966
Fort Scott	4263	-2038
Cherokee Shale	4285	-2060
Mississippian Osage	4358	-2133
Rotary Total Depth	4430	-2205
Log Total Depth	4430	-2205

All tops and zones corrected to Electric Log Measurement.

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

**TOPEKA/TORONTO/LANSING SECTION**

- 3600-3760' The only show noted in the Topeka/Toronto/Lansing Section is as follows:
- 3763-3773' Limestone, cream, finely crystalline type porosity, trace light brown stain, no show of free oil and no odor in fresh samples.
- 3773-4071' There were several layers of well-developed porosity encountered in drills the rest of the Lansing Section but no shows of oil and/or gas was noted (see attached geologist report/samples log).

**MARMATON SECTION**

- 4110-4130' Limestone, cream, finely crystalline, chalky, fossiliferous, scattered vuggy type porosity; plus trace iron pyrite, no shows.
- 4143-4163' Limestone, cream, finely crystalline, chalky, increasingly cherty with depth, no shows.
- 4170-4190' Limestone, cream, finely crystalline, slightly cherty (dense), no shows.

**PAWNEE SECTION**

- 4191-4240' Limestone, gray, tan, finely crystalline, cherty; trace gray opaque chert, no shows.
- 4240-4256' Limestone, as above, shaley in part, no shows.

**FORT SCOTT**

- 4263-4284' Limestone, cream, finely crystalline, poor visible porosity, cherty in part, trace golden brown stain, trace of free oil and questionable odor in fresh samples.

**Drill Stem Test #1** **4244-4290**

**Times:** 30-30-30-45

**Blow:** Weak

**Recovery:** 5' mud

**Pressures:**

ISIP	231	psi
FSIP	157	psi
IFP	30-32	psi
FFP	31-32	psi
HSH	2058-1995	psi



**CHEROKEE SECTION**

4290-4306' Limestone, gray, white, finely crystalline, chalky in part, poor visible porosity, no shows.

**MISSISSIPPIAN OSAGE SECTION**

4358-4364' Chert, white, cream, semi tripolitic, slightly weathered, scattered vuggy type porosity, brown stain, show of free oil and strong odor in fresh samples.

**Drill Stem Test #2 4304-4364**

**Times:** 30-30-45-60  
**Blow:** Fair  
**Recovery:** 20' slightly oil cut mud  
(5% oil; 95% mud)  
30% gassy oil  
**Pressures:** ISIP 140 psi  
FSIP 540 psi  
IFP 36-44 psi  
FFP 44-50 psi  
HSH 2108-2047 psi

4364-4370' Chert, as above.

**Drill Stem Test #3 4304-4370**

**Times:** 30-30-45-60  
**Blow:** Fair to good  
**Recovery:** 90' gas in pipe  
40' clean gassy oil  
186' heavy oil and gas cut mud  
(30% oil; 70% mud)  
**Pressures:** ISIP 1312 psi  
FSIP 1332 psi  
IFP 54-80 psi  
FFP 85-119 psi  
HSH 2099-2020 psi

4370-4390' Chert, white, cream, semi tripolitic, scattered porosity; plus dolomitic, tan, finely crystalline, sucrosic, questionable stain, no free oil and no odor.

4390-4410' Dolomite, tan, sucrosic, fair pinpoint porosity, plus chert, white, cream, boney, no shows.

4410-4430' Dolomite and chert as above, no shows.

Mai Oil Operations  
Alex Dechant #2  
SE-NW-SW-NE (1665' FNL & 2000' FEL)  
Section 17-20s-22w  
Ness County, Kansas

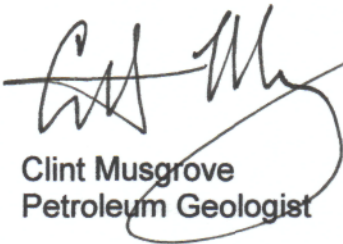
Page 4

**Rotary Total Depth**            **4430**  
**Log Total Depth**             **4430**

**Recommendations:**

5 ½" production casing set and cemented on the Mai Oil Operations Inc., Alex Dechant #2.

Respectfully yours,



Clint Musgrove  
Petroleum Geologist





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mai Oil Operations Inc  
 8411 Preston Rd, STE 800  
 Dallas TX 75225  
 ATTN: Clint Musgrove

**17-20s-22w Ness,KS**  
**Alex Dechant #2**  
 Job Ticket: 54073      DST#: 1  
 Test Start: 2014.07.16 @ 22:33:00

## GENERAL INFORMATION:

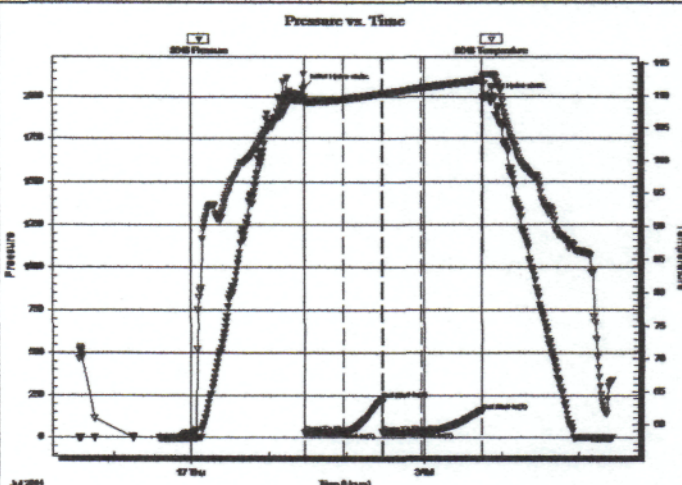
Formation: **Ft. Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:28:00  
 Time Test Ended: 05:25:45  
 Interval: **4244.00 ft (KB) To 4290.00 ft (KB) (TVD)**  
 Total Depth: 4290.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Cody Bloedorn  
 Unit No: 73  
 Reference Elevations: 2216.00 ft (KB)  
 2208.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8648

Inside

Press@RunDepth: 32.15 psig @ 4282.00 ft (KB)  
 Start Date: 2014.07.16      End Date: 2014.07.17  
 Start Time: 22:33:05      End Time: 05:25:44  
 Capacity: 8000.00 psig  
 Last Calib.: 2014.07.17  
 Time On Btmr: 2014.07.17 @ 01:27:45  
 Time Off Btmr: 2014.07.17 @ 03:45:30

TEST COMMENT: 30 - IF- 1/4" blow  
 30 - IS- No return  
 30 - FF- No blow  
 45 - FS- No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2058.59	109.90	Initial Hydro-static
1	30.50	109.09	Open To Flow (1)
30	32.19	109.45	Shut-in(1)
60	231.33	110.34	End Shut-in(1)
61	31.68	110.27	Open To Flow (2)
91	32.15	111.18	Shut-in(2)
138	157.75	112.41	End Shut-in(2)
138	1999.53	113.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud, 100%M	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  
 ATTN: Clint Musgrove

**17-20s-22w Ness,KS**  
**Alex Dechant #2**  
 Job Ticket: 54074      DST#: 2  
 Test Start: 2014.07.17 @ 19:17:00

**GENERAL INFORMATION:**

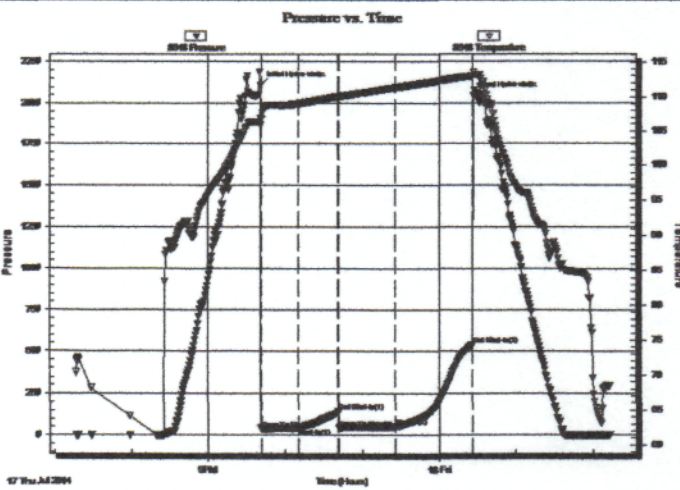
Formation: **Miss**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: 21:41:30  
 Time Test Ended: 02:12:45  
 Interval: **4304.00 ft (KB) To 4364.00 ft (KB) (TVD)**  
 Total Depth: **4364.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Cody Bloedorn**  
 Unit No: **73**  
 Reference Elevations: **2216.00 ft (KB)**  
    **2208.00 ft (CF)**  
 KB to GR/CF: **8.00 ft**

**Serial #: 8648**

**Inside**

Press@RunDepth: **50.80 psig @ 4342.00 ft (KB)**  
 Start Date: **2014.07.17** End Date: **2014.07.18**  
 Start Time: **19:17:05** End Time: **02:12:44**  
 Capacity: **8000.00 psig**  
 Last Calib.: **2014.07.18**  
 Time On Btm: **2014.07.17 @ 21:40:45**  
 Time Off Btm: **2014.07.18 @ 00:26:45**

TEST COMMENT: 30 - F- 3 1/2" blow  
 30 - IS- No return  
 45 - FF- 3/4" blow  
 60 - FS- No return



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.08	106.95	Initial Hydro-static
1	36.17	106.68	Open To Flow (1)
30	44.07	109.04	Shut-In(1)
61	140.99	110.08	End Shut-In(1)
62	44.32	110.08	Open To Flow (2)
105	50.80	111.36	Shut-In(2)
166	540.36	113.03	End Shut-In(2)
166	2047.96	113.63	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
20.00	SOCM, 5%O, 95%M	0.28
35.00	GO, 5%G, 95%O	0.49
0.00	60' 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: Clint Musgrove

**17-20s-22w Ness,KS**  
**Alex Dechant #2**  
 Job Ticket: 54075 **DST#: 3**  
 Test Start: 2014.07.18 @ 08:36:00

## GENERAL INFORMATION:

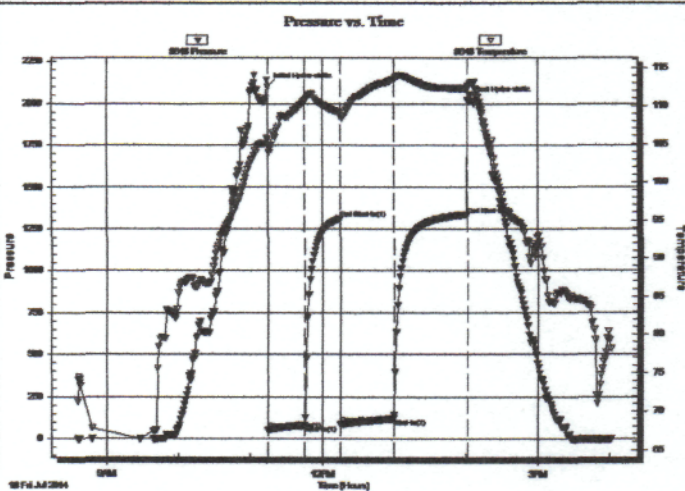
Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:14:45  
 Time Test Ended: 16:01:30  
 Interval: **4304.00 ft (KB) To 4370.00 ft (KB) (TVD)**  
 Total Depth: 4370.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cody Bloedorn  
 Unit No: 73  
 Reference Elevations: 2216.00 ft (KB)  
 2208.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8648

Inside

Press@RunDepth: 119.84 psig @ 4342.00 ft (KB)  
 Start Date: 2014.07.18 End Date: 2014.07.18  
 Start Time: 08:36:05 End Time: 16:01:29  
 Capacity: 8000.00 psig  
 Last Calib.: 2014.07.18  
 Time On Btmr: 2014.07.18 @ 11:14:30  
 Time Off Btmr: 2014.07.18 @ 14:01:30

TEST COMMENT: 30 - IF- 7 1/2" blow  
 30 - IS- No return  
 45 - FF- 7 1/2" blow  
 60 - FS- No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2099.85	105.53	Initial Hydro-static
1	54.23	104.71	Open To Flow (1)
31	80.15	110.63	Shut-in(1)
61	1312.75	109.17	End Shut-in(1)
61	85.23	108.65	Open To Flow (2)
105	119.84	113.45	Shut-in(2)
167	1335.55	112.30	End Shut-in(2)
167	2020.52	112.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	HOCM, 30%O, 70%M	2.61
40.00	GO, 5%G, 95%O	0.56
0.00	90' of G.I.P.	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. 263

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-11-14	17	20	22	Ness	KS		1:15 AM

Location Bezine, 3W to AA Rd, 9S to 40 Rd, 1W to 2 Rd.

Leasé	Well No.	Owner	
<u>Alex Dechant</u>	<u>2</u>	<u>ks, un2</u>	
Contractor	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.		
<u>Southwind #2</u>			
Type Job	T.D.	Charge To	
<u>Surface</u>	<u>264</u>	<u>Maj Oil</u>	
Hole Size	Depth	Street	
<u>12 1/4</u>	<u>264.26</u>		
Csg. Size	Depth	City	
<u>8 5/8</u>		State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner, agent or contractor	
		Cement Amount Ordered <u>170 sx 60/40, 3%cc, 2%gel.</u>	
Tool	Depth		
Cement Left in Csg.	Shoe Joint		
<u>20</u>	<u>20</u>		
Meas Line	Displace		
	<u>15 1/2 461</u>		

**EQUIPMENT**

Pumptrk	No.	Cementer	Common
<u>17</u>		<u>Lonnie W</u>	Poz. Mix
Bulktrk	No.	Driver	Gel
<u>3</u>		<u>Claton</u>	Caicum
Bulktrk	No.	Driver	Hulls
<u>P4</u>		<u>Travis</u>	Salt

**JOB SERVICES & REMARKS**

Remarks:	Flowseal
<u>Cement did circulate</u>	Kol-Seat
Rat Hole	Mud CLR 48
Mouse Hole	CFL-117 or CD110 CAF 38
Centralizers	Sand
Baskets	Handling
D/V or Port Collar	Mileage

**FLAT EQUIPMENT**

Guide Shoe
Centralizer
Baskets
AFB Inserts
Float Shoe
Latch Down

# Quality Oilwell Cementing

Signature	Pumptrk Charge	Tax
<u>William Sanders</u>	Mileage	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. 093

Date	7-19-14	Sec.	17	Twp.	20	Range	22	County	Neosho	State	Ks	On Location		Finish	5:45	
Lease								Location								
Alex Dechant								Bazine, Ks - 3W to AA Rd 93 to 1W to Z Rd 1/2 S, W/Intro								
Contractor								Owner								
Southwind #2								To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish operator and helper to assist owner or contractor to do work as listed								
Type Job								Charge To								
Production								Main oil operations								
Hole Size								T.D.								
7 7/8"								4430'								
Csg. New								Depth								
5 1/2" 14#								4424.50'								
Tbg. Size								Depth								
Tool								Depth								
Port Collar								1437'								
Cement Left in Csg.								Shoe Joint								
21.50'								21.50'								
Meas Line								Displace								
								107 1/2 BLS 1/4# Flow Seal, 1000 gal. mud. CLR 48								
<b>EQUIPMENT</b>																
Pumptrk		No.	Cementer		Helper		Common		Poz. Mix		Gal.		Calcium		Hulls	
16			Billy		Billy		105		70		3					
Bulktrk		No.	Driver		Driver		Common		Poz. Mix		Gal.		Calcium		Hulls	
9			Ryan		Ryan		105		70		3					
Bulktrk		No.	Driver		Driver		Common		Poz. Mix		Gal.		Calcium		Hulls	
p.u.			Rick		Rick		105		70		3					
<b>JOB SERVICES &amp; REMARKS</b>																
Remarks:								Salt								
								13								
Rat Hole								Flowseal								
								43#								
Mouse Hole								Kol-Seal								
Centralizers								Mud CLR 48								
turbo's #1-5 Reg #70								1000 gal								
Baskets								CFL-117 or CD110 CAF 38								
#71 10' from bottom								7000								
D/V of Port Collar								Sand								
#71 1437'								103								
pipe on bottom break Circulation								Handling								
pump 100 gal mud CLR 48								Mileage								
Rathole with 5" Hook								<b>FLOAT EQUIPMENT</b>								
+ Mix 145 cement. Shut down								Guide Shoe								
wash pump + lines Released plug +								Centralizer								
Displaced with 107 1/2 BLS of water. 1000								5 turbo's 1 Reg								
Released + hold								Baskets								
								1								
Land plug to 800 #								AFU Inserts								
								1								
lift pressure 1300#								Float Shoe								
								1								
								Latch Down								
								1								
								Port Collar								
								1								
								Pumptrk Charge								
								p.u. 1000								
								Mileage								
								20								
Signature								Tax								
B. A. Hansen								Discount								
								Total Charge								