

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1238577  
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: \_\_\_\_\_

1238577

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

<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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**JAMES C. MUSGROVE**

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

Office (620) 588-4250

Res. Clafin (620) 587-3444

Mai Oil Operations  
Berry #5  
NE-SE-NE-NE (750' FNL & 250' FEL)  
Section 33-15s-13w  
Russell County, Kansas

Page 1

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

**Contractor:** Southwind Drilling Co. (rig #3)  
**Commenced:** September 18, 2014  
**Completed:** September 24, 2014  
**Elevation:** 1900' K.B., 1898' D.F., 1892' G.L.  
**Casing program:** Surface; 8 5/8" @ 514'  
Production, 5 1/2" @ 3414'  
**Sample:** Samples saved and examined 2300' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 2300' 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 Diamond 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	856	+1044
Base Anhydrite	888	+1012
Grand Haven	2422	-522
1 <sup>st</sup> Tarkio Sand	2437	-537
Dover	2446	-546
2 <sup>nd</sup> Tarkio Sand	2456	-556
Tarkio Lime	2494	-594
Willard Sand	2517	-617
Howard	2698	-798
Topeka	2772	-872
Heebner	3004	-1104
Toronto	3021	-1121
Lansing	3083	-1183
Base Kansas City	3288	-1388
Arbuckle	3341	-1441
Quartzite	3410	-1510
Rotary Total Depth	3593	-1577
Log Total Depth	3414	-1514

All tops and zones corrected to Electric Log Measurement.

Mai Oil Operations  
Berry #5  
NE-SE-NE-NE (750' FNL & 250' FEL)  
Section 33-15s-13w  
Russell County, Kansas

Page 2

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

**TARKIO SECTION**

2437-2443' No shows of oil and/or gas was noted in the drilling of the Tarkio Sand(s)  
2456-2470' (see attached sample log/geologist report)  
2577-2526'  
2532-2544'

**TORONTO SECTION**

3021-3030' Limestone, cream, tan, finely crystalline, chalky, poor visible porosity, no shows.

**LANSING SECTION**

3083-3088' Limestone, brown, finely crystalline, slightly cherty, poor porosity, no shows.  
3090-3100' Limestone, tan, brown, oomoldic, poorly developed porosity, chalky in part, golden brown stain, trace of free oil and no odor in fresh samples.  
3114-3126' Limestone, as above, few fossiliferous, brown stain, poor show of free oil and no odor.

**Drill Stem Test #1 3104-3140**

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

**Blow: Fair**

**Recovery: 150' muddy water**

**Pressures: ISIP 736 psi  
FSIP 694 psi  
IFP 79-74 psi  
FFP 97-106 psi  
HSH 1579-1505 psi**

3140-3150' Limestone, cream, buff finely crystalline, chalky, poor visible porosity, no shows.

Mai Oil Operations  
Berry #5  
NE-SE-NE-NE (750' FNL & 250' FEL)  
Section 33-15s-13w  
Russell County, Kansas

Page 3

- 3152-3160' Limestone, cream, white, finely crystalline chalky, poor scattered porosity, no shows.
- 3165-3182' Limestone, tan, oomoldic, chalky, poor to fair oomoldic porosity, light brown to black stain, show of free oil and faint odor in fresh samples.
- 3195-3216' Limestone, tan, few oomoldic, chalky; poorly scattered porosity, light brown stain, trace of free oil and faint odor in fresh samples.
- 3224-3230' Limestone, tan, brown, finely crystalline, poor visible porosity, no shows.
- 3246-3250' Limestone, tan, brown, finely crystalline, oolitic, poor visible porosity, slightly cherty, black stain, no free oil and no odor in fresh samples.
- 3263-3270' Limestone, cream, white, tan, finely crystalline, dense, poor black stain, no free oil and no odor in fresh samples.
- 3295-3310' Limestone, white, tan finely crystalline, chalky, few cherty; plus trace white chert.

### **ARBUCKLE SECTION**

- 3341-3347' Dolomite, white, finely crystalline, sandy, poor to fair porosity, trace spotty stain, show of free oil; plus loose unconsolidated quartz grains.

#### **Drill Stem Test #2**

**3312-3347**

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

**Blow: Strong**

**Recovery: 210' gas in pipe  
210' slightly oil cut muddy water  
(5% oil, 75% water, 20% mud)  
240' oil cut muddy water  
(20% oil; 60% water; 20% mud)**

**Pressures: ISIP 1095 psi  
FSIP 1093 psi  
IFP 82-131 psi  
FFP 159-238 psi  
HSH 1657-1635 psi**

- 3347-3359' Dolomite, white, gray, medium crystalline, sandy; good inter-crystalline porosity, brown stain, show of free oil and good odor, plus iron pyrite.

Mai Oil Operations  
Berry #5  
NE-SE-NE-NE (750' FNL & 250' FEL)  
Section 33-15s-13w  
Russell County, Kansas

Page 4

**Drill Stem Test #3**

**3349-3359**

**Times: 15-15-30-30**

**Blow: Strong**

**Recovery: 2250' water**

**Pressures:** ISIP 1075 psi  
FSIP 1081 psi  
IFP 329-645 psi  
FFP 649-1010 psi  
HSH 1743-1592 psi

3359-3380' Dolomite, white, gray finely crystalline, poor to fair inter-crystalline porosity, no shows.

3380-3410' Dolomite, gray, finely crystalline, fair inter-crystalline porosity, no shows.

**QUARTZITE SECTION**

3410-3415' Quartzite, clear, angular, heavily fractured, dolomitic, plus gray, dense dolomite, no shows.

**Rotary Total Depth 3415**  
**Log Total Depth 3414**

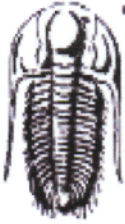
**Recommendations:**

The 5 1/2" production casing set and cemented on the Mai Oil Operations Inc., Berry #5.

Respectfully yours,



Wyatt Urban  
Petroleum Geologist



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Mai Oil Operation Inc

33-15s-13w Russell, KS

8411 Preston RD Ste 800 Dallas TX 75225+5520

**Berry #5**

Job Ticket: 60440

DST#: 1

ATTN: Wyatt Urban

Test Start: 2014.09.21 @ 23:30:00

### GENERAL INFORMATION:

Formation: **LKC A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:00:00

Time Test Ended: 04:55:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: S5

Interval: **3104.00 ft (KB) To 3140.00 ft (KB) (TVD)**

Reference Elevations: 1900.00 ft (KB)

Total Depth: 3140.00 ft (KB) (TVD)

1894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8400**

Inside

Press@RunDepth: 106.14 psig @ 3105.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.09.21

End Date:

2014.09.22

Last Calib.:

2014.09.22

Start Time: 23:31:00

End Time:

04:55:30

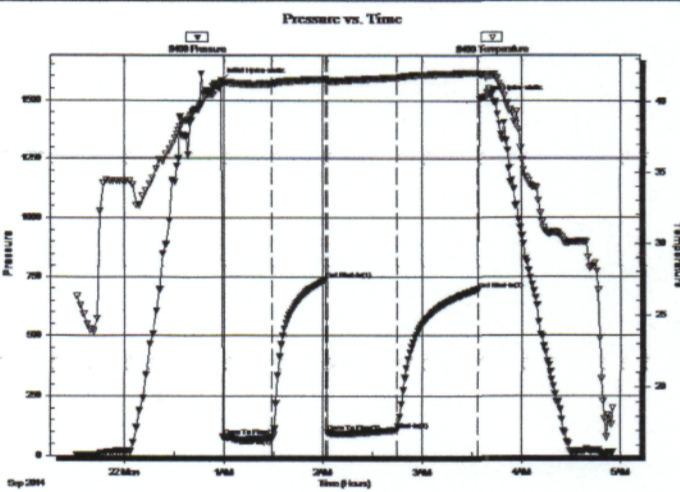
Time On Btm:

2014.09.22 @ 00:58:30

Time Off Btm:

2014.09.22 @ 03:34:30

TEST COMMENT: IFF-30 Fair blow built 9"  
ISIP-30 No blow back  
FFP-45 Fair blow built 6"  
FSIP-45 No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg C)	Annotation
0	1579.76	41.39	Initial Hydro-static
2	79.09	41.34	Open To Flow (1)
31	74.22	41.24	Shut-In(1)
63	736.00	41.55	End Shut-In(1)
64	97.27	41.41	Open To Flow (2)
106	106.14	41.66	Shut-In(2)
155	694.52	41.99	End Shut-In(2)
156	1505.77	41.90	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
150.00	MW 30% mud 70% water	2.10

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Mai Oil Operation Inc

**33-15s-13w Russell,KS**

8411 Preston RD Ste 800 Dallas TX 75225+5520

**Berry #5**

Job Ticket: 60441

**DST#: 2**

ATTN: Wyatt Urban

Test Start: 2014.09.22 @ 23:31:00

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:42:30

Time Test Ended: 05:12:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: S5

Interval: **3312.00 ft (KB) To 3347.00 ft (KB) (TVD)**

Reference Elevations: 1900.00 ft (KB)

Total Depth: 3347.00 ft (KB) (TVD)

1894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

### Serial #: 8400

Inside

Press@RunDepth: 238.55 psig @ 3313.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.09.22

End Date:

2014.09.23

Last Calib.: 2014.09.23

Start Time: 23:31:00

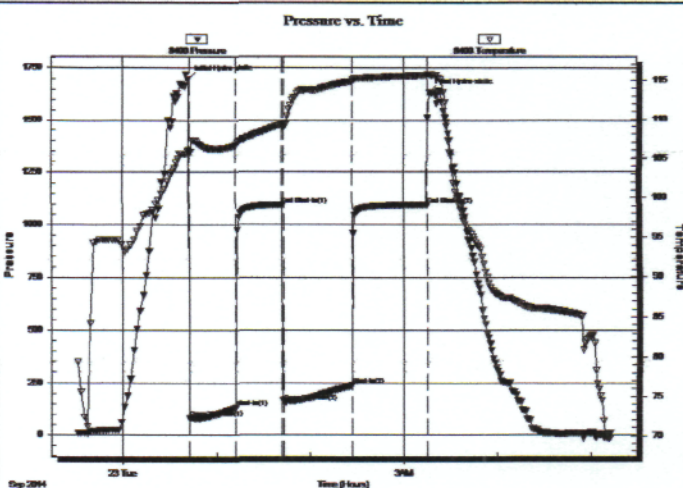
End Time:

05:12:30

Time On Btm: 2014.09.23 @ 00:42:00

Time Off Btm: 2014.09.23 @ 03:16:30

TEST COMMENT: IFP- BOB in 12 minutes  
ISIP-No blow back  
FFP-BOB in 12 minutes  
FSP-1" blow back



### PRESSURE SUMMARY

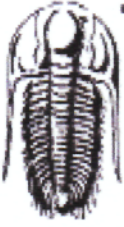
Time (Min.)	Pressure (psig)	Temp (deg C)	Annotation
0	1697.39	106.00	Initial Hydro-static
1	82.75	105.64	Open To Flow (1)
31	131.11	106.55	Shut-In(1)
60	1095.32	109.26	End Shut-In(1)
61	159.84	109.00	Open To Flow (2)
105	238.55	114.79	Shut-In(2)
153	1093.78	115.56	End Shut-In(2)
155	1635.96	115.71	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
210.00	OWM 5%oil 75%water20%mud	2.95
240.00	OWM 20%oil 60%w 20%m	3.37
0.00	210 gas in pipe	0.00

### Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Mai Oil Operation Inc

**33-15s-13w Russell,KS**

8411 Preston RD Ste 800 Dallas TX 75225+5520

**Berry #5**

Job Ticket: 60442

**DST#: 3**

ATTN: Wyatt Urban

Test Start: 2014.09.23 @ 11:35:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:46:00

Time Test Ended: 15:55:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: S5

Interval: **3349.00 ft (KB) To 3359.00 ft (KB) (TVD)**

Reference Elevations: 1900.00 ft (KB)

Total Depth: 3359.00 ft (KB) (TVD)

1894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8938**

**Inside**

Press@RunDepth: 1010.09 psig @ 3355.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.09.23

End Date:

2014.09.23

Last Calib.: 2014.09.23

Start Time: 11:36:00

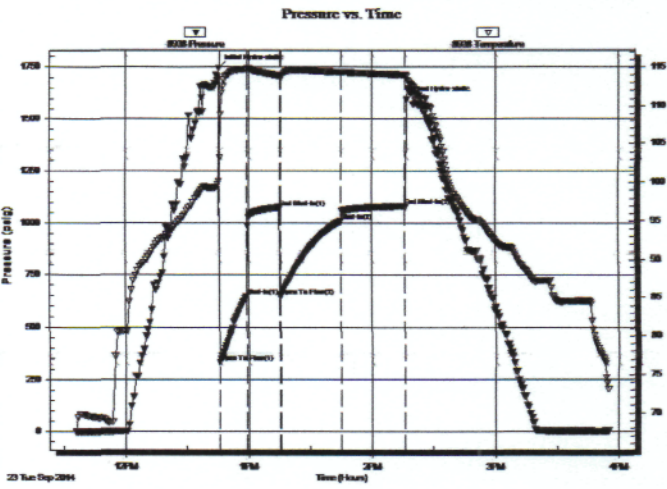
End Time:

15:55:00

Time On Btm: 2014.09.23 @ 12:45:30

Time Off Btm: 2014.09.23 @ 14:17:00

TEST COMMENT: IFP-15 BOB in 1 minute  
ISIP-15 No blow back  
FFP-30 BOB in 1 minute  
FSIP-30 No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg C)	Annotation
0	1743.92	100.16	Initial Hydro-static
1	329.78	103.15	Open To Flow (1)
14	645.44	114.74	Shut-In(1)
30	1075.05	113.93	End Shut-In(1)
30	649.30	113.74	Open To Flow (2)
60	1010.09	114.36	Shut-In(2)
91	1081.98	114.03	End Shut-In(2)
92	1592.52	113.81	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
2220.00	MW 80%water 20%mud	31.14
30.00	MW 85%water15%mud	0.42

**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. 856

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-24-14	33	15	13	Russell	KS		12:15PM

Location 281 & Michaelis, 4 1/2 E, Sn 2

Lease	Well No.	Owner
Berry	5	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		Charge To
Southwind #3		Mai Oil
Type Job	T.D.	
long string	3415	
Hole Size	Depth	Street
7 7/8	3411	
Csg.	Tbg. Size	City
5 1/2 14 #		State
	Tool	
	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered
	18.48	160 sx 60/40, 10% salt, 2% gel
Meas Line	Displace	
	82 3/4 bbl	1/4" Flow

**EQUIPMENT**

Pumptrk	No.	Cementer	Common
17		Helper Lennie	Poz. Mix
Bulktrk	No.	Driver	Gel.
1		Driver Chad	Calcium
Bulktrk	No.	Driver	
1		Driver Travis	

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole 30 sx	Salt
Mouse Hole	Flowseal
Centralizers 1-10	Kol-Seal
Baskets	Mud CLR 48 1000 gal
D/V or Port Collar	CFL-117 or CD110 CAF 38
Pipe on bottom broke circulation, Pumped 1000 gal Mud CLR 48 with 10 bbl fw behind it. Plugged Rat hole with 30 sx. Hooked to 5 1/2 and Mixed 130 sx 60/40, 10% salt, 2% gel, 1/4" Flow. Shut down washed pump and lines. Released plug and displaced with 82 3/4 bbl. Plug landed and held.	Sand
lift pressure 800 psi	Handling
Plug landed at 1400 psi	Mileage

**FLOAT EQUIPMENT**

	Guide Shoe
	Centralizer 10 turbo's
	Baskets
	AFU Inserts
	Float Shoe 1
	Latch Down 1
	Pumptrk Charge
	Mileage

X Signature

*[Handwritten Signature]*

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. 641

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-18-14	33	15	13	Russell	KS		7:30pm

Location 281 Michealis 4 1/2 E. Sinto

Lease	Well No.	Owner	
Berry	5	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		Charge To	
Sarthwind 3		main oil operations	
Type Job	T.D.	Street	
surface	514		
Hole Size	Depth	City	
12 1/4	514	State	
Csg.	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
8 5/8	514	Cement Amount Ordered 250 00/40 37cc 29gel	
Tbg. Size	Shoe Joint	Cement Left in Csg.	
	15	15	
Tool	Displace	Meas Line	
	3 1 3/4		

**EQUIPMENT**

Pumptrk	No.	Cementer	Common
16		Helper Billy	Poz. Mix
Bulktrk	No.	Driver	Gel.
1		Lennie M	Calcium
Bulktrk	No.	Driver	
pu		RICK	

**JOB SERVICES & REMARKS**

Remarks:	Hulls
cement d.e circulate	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

**FLOAT EQUIPMENT**

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down
Rubber plug
Pumptrk Charge
Mileage

X Signature	Tax
	Discount
	Total Charge

