Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1119389

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 # 5259
Name: Mai Oil Operations, Inc.
Address 1: 8411 PRESTON RD STE 800
Address 2:
City: DALLAS State: TX Zip: 75225 + 5520
Contact Person: Allen Bangert
Phone: (214) 219-8883
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Jim Musgrove
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 #:

01/02/2013	01/08/2013	01/08/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-167-23847-00-00
Spot Description:
NE - SW - NE - SW Sec. 15 Twp. 14 S. R. 12 ☐ East ☑ West
1950 Feet from ☐ North / ☑ South Line of Section
1890 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Russell
Lease Name: David Beisel Well #: 1
Field Name:
Producing Formation: N/A
Elevation: Ground: 1781 Kelly Bushing: 1789
Total Vertical Depth: 3353 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 366 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: 59000 ppm Fluid volume: 80 bbls
Dewatering method used: Evaporated
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: 02/21/2013
☑ **Confidential Release Date:** 02/21/2015
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 02/27/2013

1119389

Operator Name: Mai Oil Operations, Inc. Lease Name: David Beisel Well #: 1

Sec. 15 Twp. 14 S. R. 12 ☐ East ☑ West County: Russell

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

CNDL
DIL
Micro

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	20	366	60-40 POZ	200	2% gel, 3% CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ 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 *(Amount and Kind of Material Used)*	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: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	David Beisel 1
Doc ID	1119389

Tops

Name	Top	Datum
Anhydrite	657	+1132
Tarkio Lime	2308	-519
Topeka	2581	-792
Heebner	2822	-1033
Toronto	2841	-1052
Lansing	2907	-1118
Base Kansas City	3200	-1411
Arbuckle	3275	-1486

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

February 21, 2013

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

Re: ACO1
API 15-167-23847-00-00
David Beisel 1
SW/4 Sec.15-14S-12W
Russell 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 Inc.
David Beisel #1
NE-SW-NE-SW (1950' FSL & 1870' FWL)
Section 15-14s-12w
Russell County, Kansas

Dry and Abandoned

Contractor: Southwind Drilling Co. (Rig #3)

Commenced: January 2, 2013

Completed: January 8, 2013

Elevation: 1789' K.B; 1787' D.F; 1781' G.L.

Casing program: Surface; 8 5/8" @336'
Production; none.

Sample: Samples saved and examined 2100' to the Rotary Total Depth.

Drilling time: One (1) foot drilling time recorded and kept 2100 ft to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Formation Tests: There were three (3) Drill Stem Tests ran by Trilobite Testing Co.

Electric Log: By Nabors Completion and Production Services Co; Dual Induction, Compensated Density/Neutron Log and Micro.

Formation	Log Depth	Sub-Sea Datum
Anhydrite	657	+1132
Base Anhdyrite	692	+1097
Grand Haven	2235	-446
1st Tarkio Sand	2241	-452
Dover	2258	-469
2nd Tarkio Sand	2266	-477
Tarkio Lime	2308	-519
Elmont	2368	-579
Howard	2508	-719
Topeka	2581	-7952
Heebner	2822	-1033
Torotno	2841	-1052
Lansing	2907	-1118
Base Kansas City	3200	-1411
Conglomerate	3240	-1451
Arbuckle	3275	-1486
Rotary Total Depth	3350	-1561
Log Total Depth	3353	-1564

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

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

1ST TARKIO SECTION

2241-2250' Trace sand; very fine grained, silty, micaceous, poorly developed, no shows.

2ND TARKIO SECTION

2266-2280' Poor samples (junk).

TOPEKA SECTION

2581-2590' Limestone; white/cream, finely crystalline, scattered porosity, chalky, no shows.

2613-2620' Limestone; white, gray, finely crystalline, few fossiliferous, questionable brown stain, no show of free oil and no odor in fresh samples.

2728-2790' Limestone; white/cream, granular, sub oomoldic in part, poor porosity, no shows.

TORONTO SECTION

2841-2853' Limestone; tan, gray, chalky, plus white oolitic, opaque chert.

LANSING SECTION

2907-2914' Limestone; gray, white, finely crystalline, fossiliferous, sparry calcite cement, no shows.

2916-2930' Limestone; gray, white, oolitic/fossiliferous, chalky, dense.

2938-2952' Limestone; gray, cram, oomoldic, fair to good oomoldic porosity, fair brown to golden brown stain, show of free oil and faint odor in fresh samples.

2968-2976' Limestone; gray, white, slightly fossiliferous, chalky, no shows.

Drill Stem Test #1 2921-2980'

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

Blow: **Strong**

Recovery: **2753' gas in pipe**
35' gassy water cut mud
(15% gas, 15% water, 70% mud)
120' gassy muddy water
(10% gas, 60% water, 30% mud)

Pressures: **ISIP 741 psi**
FSIP 740 psi
IFP 34-49 psi

FFP	**44-73**	**psi**
HSH	**1448-1405**	**psi**

2988-2996' Limestone; tan, gray, finely crystalline, oolitic, oomoldic, poor to fair porosity, cherty, trace light brown stain, no show of free oil and odor in fresh samples.

3000-3016' Limestone; white, cream, finely crystalline, oolitic, oomoldic, fair oomoldic porosity, light brown edge staining, no free oil and faint/fair odor in fresh samples, chalky in part.

3060-3068' Limestone; gray, white, tan, finely crystalline, oolitic, sub oomoldic, chalky, no shows.

3093-3100' Limestone; white, finely crystalline, oolitic, sub oomoldic, poor sub oomoldic porosity, golden brown stain, trace of free oil and fair odor in fresh samples.

3115-3122' Limestone; white, light gray, finely crystalline, oolitic, poorly developed porosity, trace stain, no free oil and no odor.

3135-3144' Limestone; white, cream, finely crystalline, oolitic, fair intercrystalline porosity, golden brown stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #2 3060-3150'

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

Blow: **Strong**

Recovery: **380' gas in pipe**
60' very slightly oil cut watery mud
2% oil, 28% water, 70% mud)
120' very slightly oil cut muddy water
(2% oil, 48% water, 50% mud)

Pressures:		
ISIP	**614**	**psi**
FSIP	**596**	**psi**
IFP	**21-59**	**psi**
FFP	**65-132**	**psi**
HSH	**1540-1511**	**psi**

CONGLOMERATE SECTION

3241-3274' Varied colored oolitic opaque chert in matrix of varied colored shale.

ARBUCKLE SECTION

3275-3277' Dolomite; white/cream, fine to coarse crystalline, poor to fair intercrystalline porosity, poor stain, no free oil and questionable odor.

3277-3282' Dolomite; white, medium and coarse crystalline, poor to fair intercrystalline porosity, golden brown stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #3 **3212-3279' (Log measurements 3215-3282)**

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

Blow: **Strong**

Recovery: **420' oil cut muddy water**
(15% oil, 35% water, 50% mud)
510' very slightly oil cut muddy water
(5% oil, 80% water, 5% mud)

Pressures:

ISIP	**1082**	**psi**
FSIP	**1084**	**psi**
IFP	**33-217**	**psi**
FFP	**233-421**	**psi**
HSH	**1638-1627**	**psi**

3282-3300' Dolomite; white, fine and coarse crystalline, fair porosity, trace dark brown stain, trace of free oil and fair odor in fresh samples, trace gray and white chert.

3300-3320' Dolomite; white, coarse crystalline, poor to fair intercrystalline porosity (barren), plus chert, white, cream, pink.

320-3340' Dolomite; as above.

3340-3353' Dolomite; white, coarse crystalline, poor to fair intercrystalline porosity, no shows, trace chert, as above.

Rotary Total Depth **3350**
Log Total Depth **3353**

Recommendations:
The Beisel #1 was plugged and abandoned at the Log Total Depth 3353.

Respectfully submitted;

James C. Musgrove & Kurt Talbott

James C. Musgrove and
Kurt Talbott,
Petroleum Geologists

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.

8411 Preston Rd. Ste. #800
Dallas, TX 75225

ATTN: Jim Musgrove

15-14s-12w Russell,KS

David Beisel #1

Job Ticket: 51673 **DST#: 1**

Test Start: 2013.01.06 @ 07:02:15

GENERAL INFORMATION:

Formation: **Lansing**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:39:25
Time Test Ended: 12:39:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 66

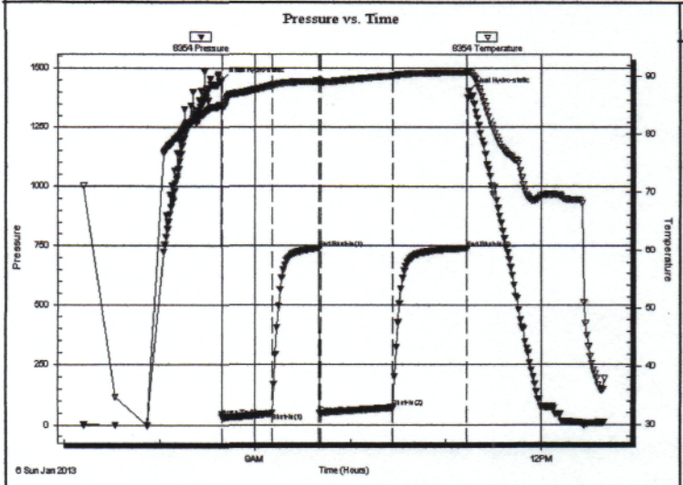
Interval: 2921.00 ft (KB) To 2980.00 ft (KB) (TVD)
Total Depth: 2980.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1819.00 ft (KB)
1812.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8354 **Inside**
Press@RunDepth: 73.03 psig @ 2957.00 ft (KB)
Start Date: 2013.01.06 End Date: 2013.01.06
Start Time: 07:12:15 End Time: 12:39:45

Capacity: 8000.00 psig
Last Calib.: 2013.01.06
Time On Btm: 2013.01.06 @ 08:38:55
Time Off Btm: 2013.01.06 @ 11:14:15

TEST COMMENT: IF-Strong building blow . BOB @ 1 minute 15 seconds.
ISI-No Return.
FF-Strong building blow . BOB @ 15 seconds. GTS @ 3 minutes. TSTM.
FSI-Weak surface return @ 8 minutes. Died @ 27 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1448.22	85.16	Initial Hydro-static
1	33.75	84.96	Open To Flow (1)
32	49.44	88.44	Shut-In(1)
62	741.25	89.16	End Shut-In(1)
63	44.10	89.04	Open To Flow (2)
108	73.03	90.11	Shut-In(2)
155	740.28	90.68	End Shut-In(2)
156	1404.84	90.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	10%Gas/60%Water/30%Mud	1.68
35.00	15%Gas/15%Water/70%Mud	0.49
0.00	2753' G.I.P.	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
Dallas, TX 75225

ATTN: Jim Musgrove

15-14s-12w Russell,KS

David Beisel #1

Job Ticket: 51674 **DST#: 2**

Test Start: 2013.01.07 @ 01:18:30

GENERAL INFORMATION:

Formation: **LKC "H-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:47:10
Time Test Ended: 07:19:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 66

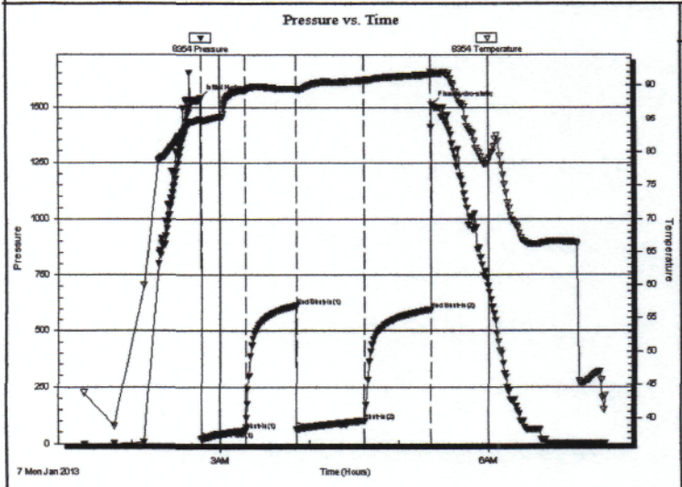
Interval: 3060.00 ft (KB) To 3150.00 ft (KB) (TVD)
Total Depth: 3150.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1819.00 ft (KB)
1812.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8354 **Inside**
Press@RunDepth: 101.85 psig @ 3130.00 ft (KB)
Start Date: 2013.01.07 End Date: 2013.01.07
Start Time: 01:28:30 End Time: 07:19:00

Capacity: 8000.00 psig
Last Calib.: 2013.01.07
Time On Btm: 2013.01.07 @ 02:47:00
Time Off Btm: 2013.01.07 @ 05:22:30

TEST COMMENT: IF-Weak building blow . BOB @ 18 minutes.
ISI-No Return.
FF-Weak building blow . BOB @ 33 minutes.
FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1540.02	84.93	Initial Hydro-static
1	20.68	84.48	Open To Flow (1)
31	58.56	89.30	Shut-In(1)
64	613.55	89.49	End Shut-In(1)
65	65.00	89.36	Open To Flow (2)
110	101.85	90.74	Shut-In(2)
155	595.98	91.60	End Shut-In(2)
156	1511.28	91.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	2%Oil/28%Water/70%Mud	1.68
60.00	2%Oil/48%Water/50%Mud	0.84
0.00	380' G.I.P.	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Mai Oil Operations, Inc.

8411 Preston Rd. Ste. #800
Dallas, TX 75225

ATTN: Jim Musgrove

15-14s-12w Russell,KS

David Beisel #1

Job Ticket: 51675 **DST#: 3**

Test Start: 2013.01.07 @ 20:21:15

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:54:15
Time Test Ended: 02:29:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 66

Interval: 3212.00 ft (KB) To 3279.00 ft (KB) (TVD)
Total Depth: 3279.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

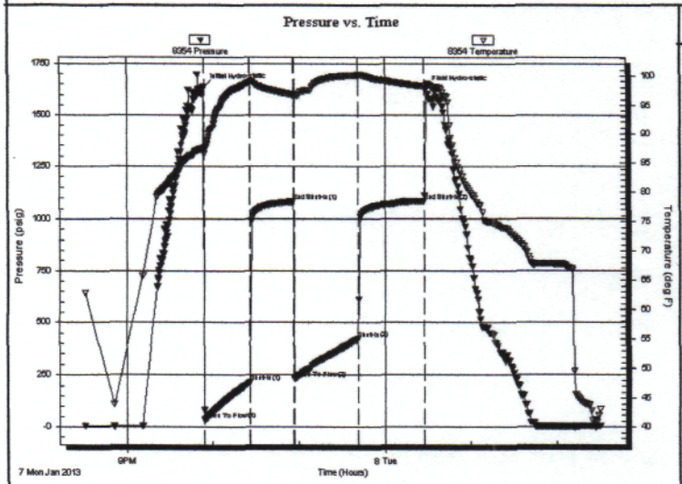
Reference Elevations: 1819.00 ft (KB)
1812.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8354 **Inside**

Press@RunDepth: 421.23 psig @ 3252.00 ft (KB)
Start Date: 2013.01.07 End Date: 2013.01.08
Start Time: 20:31:15 End Time: 02:29:45

Capacity: 8000.00 psig
Last Calib.: 2013.01.08
Time On Btm: 2013.01.07 @ 21:53:55
Time Off Btm: 2013.01.08 @ 00:28:45

TEST COMMENT: IF-Strong building blow . BOB @ 5 minutes 30 seconds.
ISI-No Return.
FF-Weak building blow . Built to 7 inches.
FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.00	87.45	Initial Hydro-static
1	33.41	87.07	Open To Flow (1)
32	216.83	98.84	Shut-In(1)
63	1081.58	96.76	End Shut-In(1)
63	233.15	96.25	Open To Flow (2)
108	421.23	100.06	Shut-In(2)
154	1083.77	98.19	End Shut-In(2)
155	1627.35	98.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
510.00	5%Oil/80%Water/15%Mud	7.15
420.00	15%Oil/35%Water/50%Mud	5.89

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. 6356

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-2-13	15	14	12	Russell	KS		12.30 AM

Location Bunker hill & 40 E to 190 25 [redacted] to

Lease David Beisel Well No. 1

Owner ½ W N into

Contractor Southwind 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 Surface

Charge To Mai oil

Hole Size 12¼ T.D. 366

Csg. 8⅝ Depth 366

Tbg. Size Depth

Street

Tool Depth

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 20 ft Shoe Joint 20 ft

Cement Amount Ordered 200 60 3%CC 2% gel 40

Meas Line Displace 22 BBL

EQUIPMENT

Pumptrk 15 No. Cementer Helper Brett

Bulktrk 14 No. Driver Driver Brett

Bulktrk 04 No. Driver Driver Lonnie W

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Cement did Circulate

Common	120
Poz. Mix	80
Gel.	4
Calcium	8
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	212
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	8⅝ wooden plug
Pumptrk Charge	Surface
Mileage	13
Tax	
Discount	
Total Charge	

X Signature Travis Rowe