



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1210468
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: _____

1210468

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> <i>(Submit ACO-4)</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	Ron Krug 1
Doc ID	1210468

Tops

Name	Top	Datum
Anhydrite	851	-1012
Tarkio Lime	2489	-629
Topeka	2766	-908
Heebner	2994	-1131
Toronto	3010	-1151
Lansing	3056	-1193
Base Kansas City	3260	-1397
Arbuckle	3309	--1446

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 Inc.
Ron Krug #1
NW-NE-SW-NW (1800' FSL & 330' FWL)
Section 11-15s-14w
Russell County, Kansas
Page 1

Dry and Abandoned

Contractor: Southwind Drilling Co. (Rig #3)
Commenced: March 17, 2014
Completed: March 23, 2014
Elevation: 1863' K.B., 1861' D.F., 1855' G.L.
Casing program: Surface; 8 5/8" @ 516'
Production, none
Sample: Samples saved and examined 2200' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2200 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	851	-1012
Base Anhydrite	890	+973
Grand Haven	2420	-560
1 st Tarkio Lime	2432	-572
Dover	2444	-584
2 nd Tarkio Lime	2450	-590
Tarkio Lime	2489	-629
3 rd Tarkio Lime	2515	-645
Elmont	2554	-691
Howard	2695	-832
Topeka	2766	-908
Heebner	2994	-1131
Toronto	3010	-1151
Lansing	3056	-1193
Base Kansas City	3260	-1397
Arbuckle	3309	-1446
Rotary Total Depth	3400	-1537
Log Total Depth	3398	-1535

(All top and zone determination were made from a correlation of Electric Log measurements).

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

TARKIO SECTION

- 1st Sand
2432-2438' Sand, white, gray, very fine grained, micaceous, shaley, poorly developed porosity; trace poor stain, no show of free oil and no odor in fresh samples.
- 2nd Sand
2450-2466' Sand, gray to grayish green; very fine to fine grained; micaceous, shaley in part; trace stains, no free oil and no odor in fresh samples

TOPEKA SECTION

- 2766-2771' Limestone, cream, tan fine and medium crystalline, slightly dolomitic, scattered inter-crystalline type porosity, trace stain, no show of free oil and no odor in fresh samples.
- 2921-2930' Limestone, cream, tan, finely crystalline, fossiliferous, poorly developed pinpoint porosity, dark brown spotty stain, no free oil and no odor.
- 2943-2966' Limestone, cream, tan, finely crystalline, scattered porosity, trace scattered light brown stain no free oil and no odor in fresh samples.

TORONTO SECTION

- 3011-3020' Limestone, white/light gray, finely crystalline, chalky poorly developed porosity, trace poor stain, no free oil and no odor in fresh samples.

LANSING SECTION

- 3056-3067' Limestone, cream, white, finely crystalline, fossiliferous/oolitic, poor Scattered porosity, chalky, poor spotty dark brown stain, no free oil and no fresh samples.
- 3077-3084' Limestone, cream, tan oolitic/fossiliferous, cherty in part; poor visible porosity no shows.
- 3095-3103' Limestone, cream, tan, finely crystalline, chalky, oolitic, oomoldic, poor to fair oomoldic porosity, trace light brown stain, no free oil and no odor in fresh samples.
- 3134-3140' Limestone, cream, tan finely crystalline, oolitic, poor scattered sub-oomoldic porosity, no shows.
- 3153-3164' Limestone, cream, white finely crystalline, chalky, oomoldic/fair oomoldic porosity, (barren).
- 3178-3196' Limestone, cream, tan, finely crystalline oolitic, slightly chalky oomoldic, poorly developed porosity, no shows.
- 3205-3212' Limestone, cream, tan, finely crystalline, oolitic, fair inter-crystalline type porosity, dark brown to black stain, no free oil and no odor in fresh samples.
- 3218-3230' Limestone, cream, tan, light gray, finely crystalline, oolitic scattered pinpoint and fine vuggy type porosity, no shows

3240-3245' Limestone, cream, tan, finely crystalline, oolitic, poorly developed porosity, trace light brown stain, no free oil and no odor in fresh samples.

ARBUCKLE SECTION

3309-3323' Dolomite, white, light gray, fine and medium crystalline, fair inter-crystalline type porosity golden brown stain, show of free oil and faint/fair odor in fresh samples, plus chert; white/gray boney.

Drill Stem Test #1 3262-3323

Times: 30-45-30-45
Blow: Fair
Recovery: 10' clean oil
105' Oil specked muddy water
Pressures: ISIP 244 psi
FSIP 209 psi
IFP 17-43 psi
FFP 45-61 psi
HSH 1729-1619 psi

3323-3332' Dolomite, white, fine and medium crystalline, fair porosity, golden brown to dark brown stain, show of free oil and fair odor.

Drill Stem Test #2 3319-3332

Times: 30-45-45-45
Blow: Strong
Recovery: 60' clean oil
60' muddy oil
(50% oil and 50% mud)
Pressures: ISIP 340 psi
FSIP 163 psi
IFP 21-42 psi
FFP 42-51 psi
HSH 1787-1661 psi

3332-3340' Dolomite, white, fine and medium crystalline, poor to fair inter-crystalline porosity, fair with chalky luster, dark brown stain, trace of free oil and faint odor, plus scattered pyrite.

Drill Stem Test #3 **3326-3340**

Times: 30-45-30-45

Blow: Fair

**Recovery: 40' clean oil
100' muddy water**

**Pressures: ISIP 498 psi
FSIP 384 psi
IFP 27-49 psi
FFP 57-59 psi
HSH 1760-1764 psi**

3240-3360' Dolomite, white, light gray, fine and medium crystalline, poor visible porosity, cherty in part, dense.

3360-3380' Dolomite, white, finely crystalline, poorly developed porosity, cherty trace pyrite; no show.

3380-3400' Dolomite, white, fine and medium crystalline, fair inter-crystalline porosity, black tarry stain, no free oil and no odor in fresh samples.

**Rotary Total Depth 3400-1537
Log Total Depth 3398-1535**

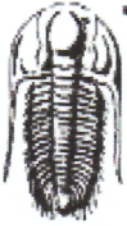
Recommendations:

The Mai Oil Operations, Ron Krug #1, was plugged and abandoned at the Rotary Total Depth 3400.

Respectfully submitted;



Kurt Talbott,
Petroleum Geologist



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations Inc
 8411 Preston Rd STE 800
 Dallas, TX 75225
 ATTN: Kurt Talbot

11-15s-14w Russell, KS
Ron Krug #1
 Job Ticket: 57529 **DST#: 1**
 Test Start: 2014.03.21 @ 21:09:00

GENERAL INFORMATION:

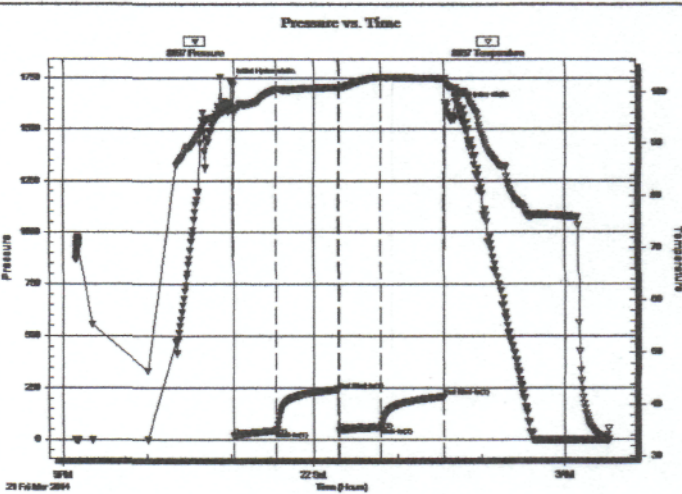
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:02:40
 Time Test Ended: 03:32:00
 Interval: **3262.00 ft (KB) To 3323.00 ft (KB) (TVD)**
 Total Depth: 3323.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Tim Phillips
 Unit No: 49
 Reference Elevations: 1845.00 ft (KB)
 1836.00 ft (CF)
 KB to GRV/CF: 9.00 ft

Serial #: 8897

Inside

Press@RunDepth: 61.12 psig @ 3287.00 ft (KB)
 Start Date: 2014.03.21 End Date: 2014.03.22
 Start Time: 21:09:01 End Time: 03:31:30
 Capacity: 8000.00 psig
 Last Calib.: 2014.03.22
 Time On Btm: 2014.03.21 @ 23:00:10
 Time Off Btm: 2014.03.22 @ 01:34:09

TEST COMMENT: IFP- Blow built to 6 1/4"
 ISL- Dead no Blow back
 FF- Blow built to 2 1/4"
 FSI- Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.72	96.75	Initial Hydro-static
3	16.73	96.03	Open To Flow (1)
33	43.42	100.57	Shut-In(1)
78	243.62	100.96	End Shut-In(1)
78	45.22	100.93	Open To Flow (2)
108	61.12	102.92	Shut-In(2)
154	208.93	102.63	End Shut-In(2)
154	1618.76	101.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	CO 100%O	0.14
105.00	SSOWCM TR O, 20% M, 80% W	1.47

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: Kurt Talbot

11-15s-14w Russell, KS
Ron Krug #1
 Job Ticket: 57531 **DST#: 2**
 Test Start: 2014.03.22 @ 08:32:00

GENERAL INFORMATION:

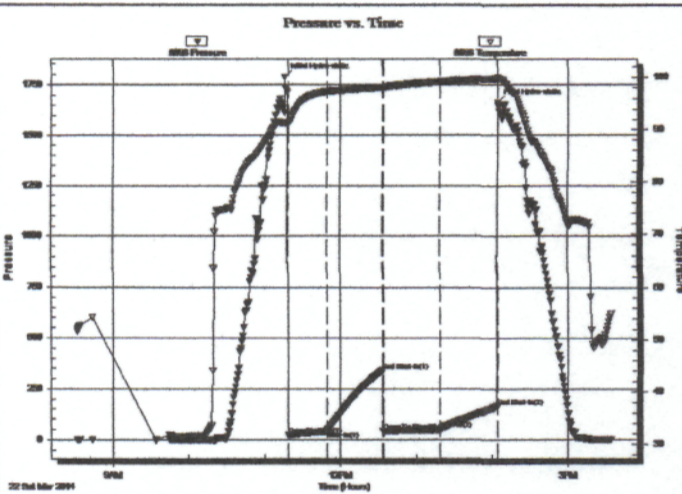
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:18:40
 Time Test Ended: 15:34:00
 Interval: **3319.00 ft (KB) To 3332.00 ft (KB) (TVD)**
 Total Depth: 3332.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Tim Phillips
 Unit No: 49
 Reference Elevations: 1845.00 ft (KB)
 1836.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8898

Outside

Press@RunDepth: 50.99 psig @ 3329.00 ft (KB)
 Start Date: 2014.03.22 End Date: 2014.03.22
 Start Time: 08:32:01 End Time: 15:33:50
 Capacity: 8000.00 psig
 Last Calib.: 2014.03.22
 Time On Btrm: 2014.03.22 @ 11:15:50
 Time Off Btrm: 2014.03.22 @ 14:04:20

TEST COMMENT: IFP- BOB in 30 min
 IS- Dead no blow back
 FF- Blow built to 4"
 FS- Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1787.11	91.30	Initial Hydro-static
3	21.19	91.05	Open To Flow (1)
34	41.64	97.32	Shut-In(1)
78	340.35	98.10	End Shut-In(1)
78	42.00	97.95	Open To Flow (2)
124	50.99	99.22	Shut-In(2)
169	162.83	99.77	End Shut-In(2)
169	1661.39	100.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	CO 100% O	0.88
63.00	MCO 50% O, 50% M	0.88

* 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

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

No. 7177

Cell 785-324-1041

2:30 AM

Date	3-18-14	Sec.	11	Twp.	15	Range	14	County	Russell	State	Ks	On Location		Finish	2:30 AM
------	---------	------	----	------	----	-------	----	--------	---------	-------	----	-------------	--	--------	---------

Location: Russell, Ks - S to Mitchell Rd, 1/4 W

Lease: Ron Krug Well No. 1 Owner: N/Into

Contractor: Southwest #3 To Quality Oilwell Cementing, Inc.
 Type Job: Surface You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size: 12 1/4" T.D. 516' Charge To: Mai oil operations

Csg. 8 5/8" Depth 516' Street:

Tbg. Size: Depth: City: State:

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

Cement Left in Csg. 20' Shoe Joint 20' Cement Amount Ordered 250 60/40 3% CC 2% Gel

Meas Line Displace 31 1/2

EQUIPMENT

Pumptrk 16	No.	Cementer	Billy	Common
		Helper		
Bulktrk 3	No.	Driver	Lonnie	Poz. Mix
		Driver		Gel.
Bulktrk p.u.	No.	Driver	Rock	Calcium
		Driver		

JOB SERVICES & REMARKS

Remarks: Cement did Circulate

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Handling

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

1 - wood plug

Pumptrk Charge

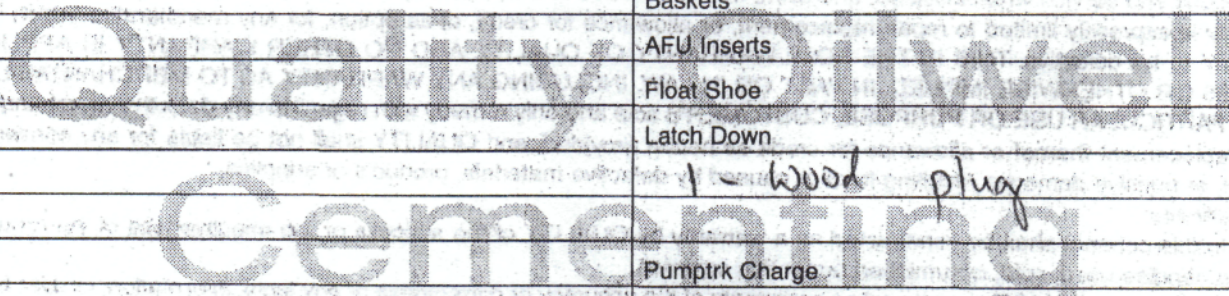
Mileage

Tax

Discount

Total Charge

Signature: Guy Krug



ALLIED OIL & GAS SERVICES, LLC 054215

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell

DATE <u>3-23-14</u>	SEC. <u>11</u>	TWP. <u>15s</u>	RANGE <u>14w</u>	CALLED OUT _____	ON LOCATION _____	JOB START <u>5:39am</u>	JOB FINISH <u>6:00am</u>
LEASE <u>Roy Kroger</u>		WELL # <u>1</u>	LOCATION <u>Russell 8s 4w</u>		COUNTY <u>Russell</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Southwind Drilling, Inc #3

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D. _____

CASING SIZE 8 5/8 DEPTH 516

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER _____

CEMENT AMOUNT ORDERED 205 sx @ 40 476 GALL

1/4" FIT F10 Seal

EQUIPMENT

PUMP TRUCK CEMENTER Glenne Gie

409 HELPER Nathan D.

BULK TRUCK

481 DRIVER Kenneth R.

BULK TRUCK

_____ DRIVER _____

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

REMARKS:

50 SX @ 3298

25 SX @ 875

90 SX @ 560

10 SX @ 40 w/ wooden Plug

30 SX @ RATHOLE

Thanks

TOTAL _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

CHARGE TO: MAE OIL Operations

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

8 7/8 Wooden Plug @ _____

_____ @ _____

_____ @ _____

_____ @ _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment