



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1098883

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Liberty Oper & Compl, Inc
Well Name	Green 1
Doc ID	1098883

All Electric Logs Run

Dual Receiver Cement Band Log
Compensated Density/Neutron PE Log
Dula Induction Log
Micro Log

Form	ACO1 - Well Completion
Operator	Liberty Oper & Compl, Inc
Well Name	Green 1
Doc ID	1098883

Tops

Name	Top	Datum
Anhydrite	1621	+609
Topeka	3191	-961
Heebner Shale	3398	-1168
Toronto	3417	-1187
L/KC A	3437	-1207
Stark Shale	3616	-1386
b/KC	3600	-1430
cong	3672	-1442
Arbuckle	3748	-1518



DRILL STEM TEST REPORT

Prepared For: **Liberty Operations & Completions Inc**

308 W. Mill
Plainville KS 67663

ATTN: Jerry Green

Green #1

33-9s-19w Rooks,KS

Start Date: 2012.09.29 @ 22:40:00

End Date: 2012.09.30 @ 08:58:30

Job Ticket #: 51003 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.10.02 @ 16:18:29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Liberty Operations & Completions Inc

33-9s-19w Rooks,KS

308 W. Mill
Plainville KS 67663

Green #1

Job Ticket: 51003

DST#: 1

ATTN: Jerry Green

Test Start: 2012.09.29 @ 22:40:00

GENERAL INFORMATION:

Formation: **Cong - L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:11:30

Time Test Ended: 08:58:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 38

Interval: 3630.00 ft (KB) To 3714.00 ft (KB) (TVD)

Reference Elevations: 2225.00 ft (KB)

Total Depth: 3714.00 ft (KB) (TVD)

2220.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8520 Outside

Press @ RunDepth: 854.90 psig @ 3700.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.29

End Date: 2012.09.30

Last Calib.: 2012.09.30

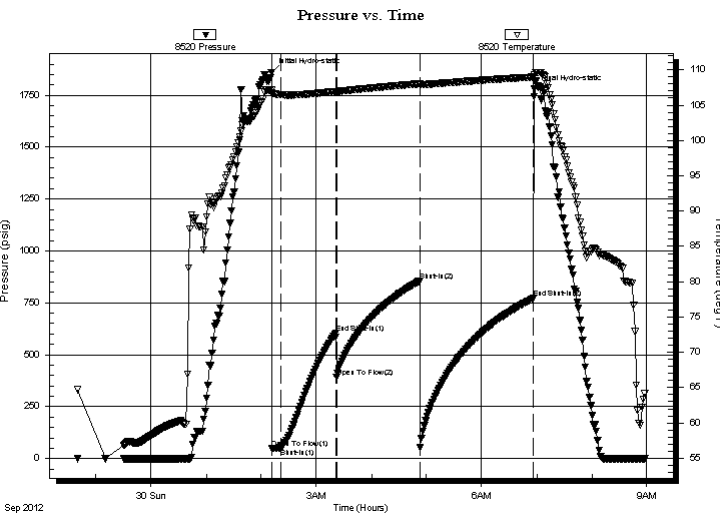
Start Time: 22:40:00

End Time: 08:58:30

Time On Btm: 2012.09.30 @ 02:11:00

Time Off Btm: 2012.09.30 @ 06:57:00

TEST COMMENT: 010 - IF- 1/2" blow .
060 - IS- No blow back
090 - FF- No blow
120 - FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1859.88	107.12	Initial Hydro-static
1	49.52	106.74	Open To Flow (1)
10	50.89	106.46	Shut-In(1)
70	604.52	106.94	End Shut-In(1)
71	392.55	106.92	Open To Flow (2)
162	854.90	108.02	Shut-In(2)
286	771.95	108.98	End Shut-In(2)
286	1779.12	109.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud - w Show of Oil, 100%M	0.06

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Liberty Operations & Completions Inc

33-9s-19w Rooks,KS

308 W. Mill
Plainville KS 67663

Green #1

Job Ticket: 51003

DST#: 1

ATTN: Jerry Green

Test Start: 2012.09.29 @ 22:40:00

Tool Information

Drill Pipe:	Length: 3634.00 ft	Diameter: 3.80 inches	Volume: 50.98 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 34000.00 lb
			<u>Total Volume: 50.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3630.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	104.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3611.00	
Shut In Tool	5.00			3616.00	
Hydraulic tool	5.00			3621.00	
Packer	5.00			3626.00	20.00 Bottom Of Top Packer
Packer	4.00			3630.00	
Stubb	1.00			3631.00	
Perforations	5.00			3636.00	
Change Over Sub	1.00			3637.00	
Drill Pipe	62.00			3699.00	
Change Over Sub	1.00			3700.00	
Recorder	0.00	8354	Inside	3700.00	
Recorder	0.00	8520	Outside	3700.00	
Perforations	11.00			3711.00	
Bullnose	3.00			3714.00	84.00 Bottom Packers & Anchor

Total Tool Length: 104.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Liberty Operations & Completions Inc

33-9s-19w Rooks,KS

308 W. Mill
Plainville KS 67663

Green #1

Job Ticket: 51003

DST#: 1

ATTN: Jerry Green

Test Start: 2012.09.29 @ 22:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Mud - w Show of Oil, 100%M	0.056

Total Length: 4.00 ft Total Volume: 0.056 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

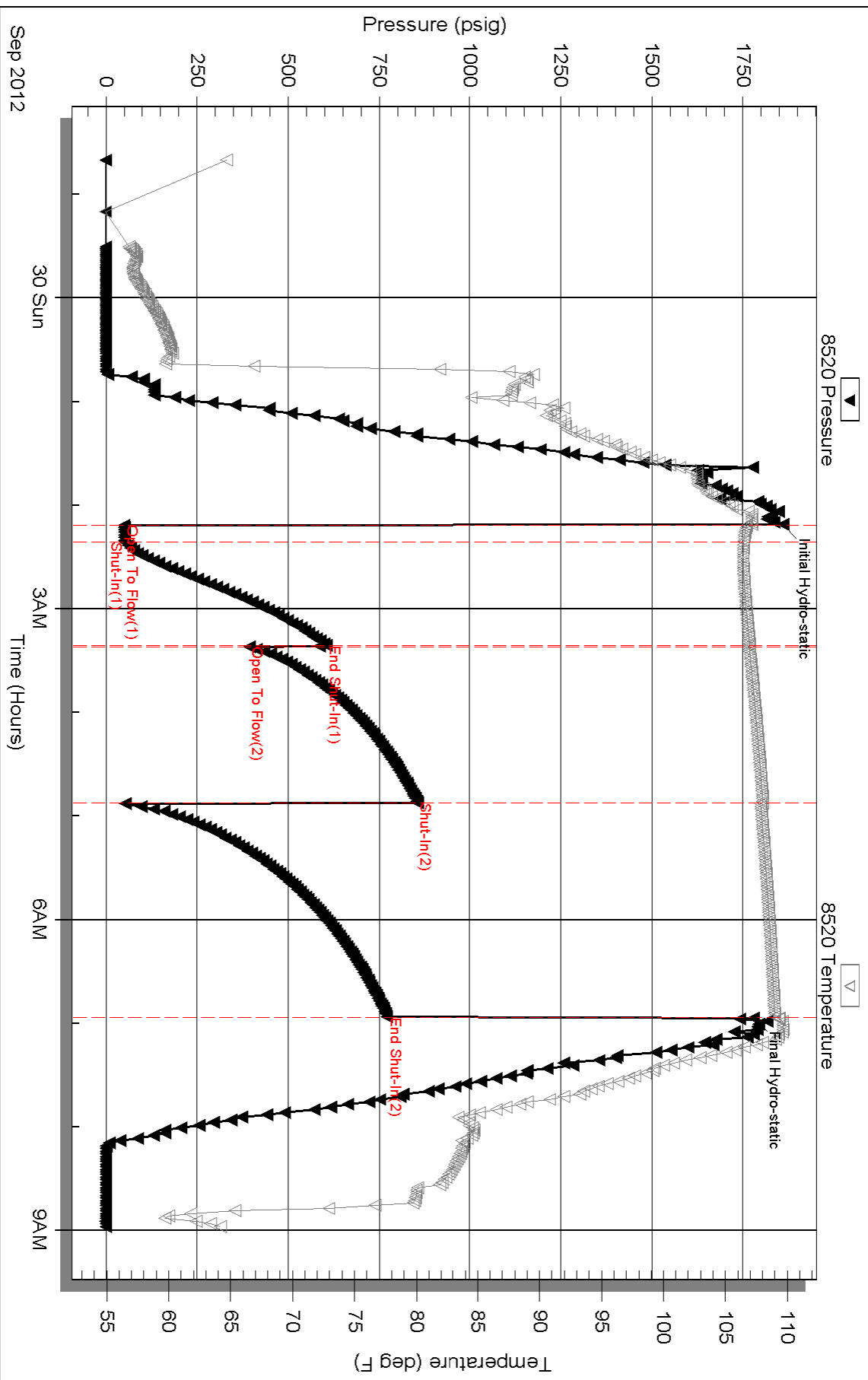
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51003

Well Name & No. Green # 1 Test No. 1 Date 9-29-62
 Company Liberty Oper & Compl, INC Elevation 2225 KB 2220 GL
 Address 308 W Mill, Plainville KS, 67063
 Co. Rep / Geo. Jerry Green Rig White Knight
 Location: Sec. 33 Twp. 9 S Rge. 19 W Co. Rooks State KS

Interval Tested 3630-3714 Zone Tested ~~3630~~ Congl - L
 Anchor Length 84' Drill Pipe Run 3634' Mud Wt. 8.7
 Top Packer Depth 3625 Drill Collars Run — Vis 60
 Bottom Packer Depth 3630 Wt. Pipe Run — WL 8.0
 Total Depth 3714 Chlorides 1,000 ppm System LCM —
 Blow Description IF - 1/2" blow
ISI - No blow back.
FF - No blow
FSI - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>4</u>	<u>Mud - show of oil</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 4' BHT 108° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1859</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>7:49pm</u>
(B) First Initial Flow <u>49</u>	<input type="checkbox"/> Jars <u>—</u>	T-Started <u>10:30pm</u>
(C) First Final Flow <u>50</u>	<input type="checkbox"/> Safety Joint <u>—</u>	T-Open <u>2:16am</u>
(D) Initial Shut-In <u>604</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>7:00am</u>
(E) Second Initial Flow <u>392</u>	<input checked="" type="checkbox"/> Hourly Standby <u>4 hrs</u> 4.25hrs 425	T-Out <u>9:03am</u>
(F) Second Final Flow <u>854</u>	<input checked="" type="checkbox"/> Mileage <u>34, 68 RT x 3</u> 316.20	Comments <u>Problems w light</u>
(G) Final Shut-In <u>771</u>	<input type="checkbox"/> Sampler <u>—</u>	<u>Plant / Cat head</u>
(H) Final Hydrostatic <u>1779</u>	<input type="checkbox"/> Straddle <u>—</u>	<u>on 10-1-12 Drove to get tool,</u>
	<input type="checkbox"/> Shale Packer <u>—</u>	<u>couldn't get. went back Home</u>
	<input type="checkbox"/> Extra Packer <u>—</u>	<input checked="" type="checkbox"/> Ruined Shale Packer <u>Picked up tool</u>
Initial Open <u>10</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	<input checked="" type="checkbox"/> Ruined Packer <u>on 10-2-12</u>
Initial Shut-In <u>60</u>	<input checked="" type="checkbox"/> Day Standby <u>1d 24hrs</u> 1d 24hrs	<input checked="" type="checkbox"/> Extra Copies <u>@ 9:00am</u>
Final Flow <u>90</u>	<input type="checkbox"/> Accessibility <u>—</u>	Sub Total <u>800</u>
Final Shut-In <u>120</u>	Sub Total <u>1891.20</u>	Total <u>2691.20</u>

Approved By _____ Our Representative Cody B...

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

ALLIED OIL & GAS SERVICES, LLC 056552

Federal Tax I.D. # 20-5975804

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

SERVICE POINT:
Russell KS

DATE	SEC.	TWP.	RANGE	LOC.	LOCATION	CALL	OUT	ON	LOCATION	JOB	START	JOB	FINISH
10-8-15	33	9	19		2 miles NW 1/4 Sec. 16					2100 AM		2:30 AM	
					WELL # 1								
LEASE 500 gal mud flush													
OLD OR NEW (Circle one)													

CONTRACTOR W. H. Williams

OWNER

TYPE OF JOB DIV

HOLE SIZE 7 7/8 T.D. 3790

CASING SIZE 5 7/8 DEPTH 3794.75

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DIV DEPTH 1751.74

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 10.82

CEMENT LEFT IN CSG. 10.82

PERFS.

DISPLACEMENT 8976001 9116001

EQUIPMENT

PUMP TRUCK CEMENTER Robert Y Bob S

917 HELPER Wendy O

BULK TRUCK

410 DRIVER Kevin R

BULK TRUCK

481 DRIVER William K

REMARKS:

917 Cement 517 14.55

11.55 of top well pump truck

39000 100 gal 1.50 gal of 100 gal

89 341115 unit - pump truck 451300

proposed short open Div top cementer

500 gal of 500 gal of 500 gal

500 gal of 500 gal of 500 gal

land plug at 1800 ft

cement did circulate to surface

CHARGE TO: Liberty

STREET

CITY STATE ZIP

(R. H. Williams)
(Receiver Operations)
Thank you!!!

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE Robert Y Bob S

DEPTH OF JOB	CHARGE	TOTAL
PUMP TRUCK	2558.75	
EXTRA FOOTAGE	269.50	
MILEAGE 35 MI/HR	440	154.00
MANIFOLD	580	580
WAITING TIME 3 x 4 hr		
TOTAL		6268.50

PLUG & FLOAT EQUIPMENT

ITEM	QTY	UNIT PRICE	TOTAL
TR DIV 1000	@	5335.26	5335.26
7 7/8 casing	@	57.33	401.31
2 3/4 drill pipe	@	3947.9	7895.8
1 2 1/2 float shoe	@	475.02	475.02
TOTAL			7000.17

SALES TAX (If Any) _____

TOTAL CHARGES 29748.10

DISCOUNT 11457.02 IF PAID IN 30 DAYS