



KANSAS CORPORATION COMMISSION 1048903  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- 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

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: \_\_\_\_\_



1048903

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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# BRAD HUTCHINSON

116 EVES DRIVE  
RUSSELL, KANSAS 67665

785-483-0492

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY BRUNGARDT DRILLING & LEASING, INC.  
 LEASE SELLEN'S "A" #1  
 FIELD \_\_\_\_\_  
 LOCATION SE NW NW NW  
 SEC 12 TWP 13S RGE 14W  
 COUNTY RUSSELL STATE KANSAS  
 CONTRACTOR SHIELDS DR. PRODUCERS, INC.  
 SPUD 10-18-10 COMP 10-25-10  
 RTD 3180 (-1545) LTD 3179 (-1544)  
 MUD UP 2200' TYPE MUD CHEMICAL

ELEVATIONS  
 KB 1735'  
 DF \_\_\_\_\_  
 GL 1730'  
 Measurements Are All From HELLY BUSHING

CASING  
 SURFACE 8 5/8" @ 219'  
 PRODUCTION 5 1/2" @ N/A

ELECTRICAL SURVEYS  
 CNT PLY  
 LDT MLT

SAMPLES SAVED FROM 2500' TO RTD  
 DRILLING TIME KEPT FROM 2400' TO RTD  
 SAMPLES EXAMINED FROM 2500' TO RTD  
 GEOLOGICAL SUPERVISION FROM 2500' TO RTD  
 GEOLOGIST ON WELL BRAD J. HUTCHINSON

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE		6516 +979
TOPERKA	2523 -888 (-5) 2524	-889
HEGNER	2750 -115 (-4) 2752	-117
TORONTO	2768 -1173	2772 -1137
LANING	2806 -1171 (-4) 2808	-1173
BASE KANSAS LITY	3069 -1474 (-2) 3071	-1436
ARBUCKLE	3114 -1479 (-3) 3116	-1481

0 Brungardt Oil  
 12  
 Structural Compaction

Rains & Millington 500 Dr. Log, Sellen's "A" #1 NW SW NW Sec. 12-13S-14W R. 16

REMARKS

BIT RECORD

DATE	DEPTH	DEVIATION
10-18-10	MIRU	
10-19-10	222'	
10-20-10	1060'	14 3/4
10-21-10	2050'	35 3/4
10-22-10	2703'	57 1/4
10-23-10	2895'	65 1/2
10-24-10	2958'	69 1/4
10-25-10	3180'	78 TOTAL HRS

RECOMMENDATIONS: IT WAS RECOMMENDED THAT 5 1/2" PRODUCTION CASING BE SET AND THE FOLLOWING ZONES TO BE TESTED.

DEPTH	PERF
L. LANSING 2906	perf
2896	perf
2807	perf

SURVEY

DEPTH: 222'  
2895'

DEVIATION: 10'  
10'

Respectfully Submitted,  
 Brad J. Hutchison

### LEGEND

Anhydrite	Salt	Sandstone	Shale	Carb sh	Limestone	Ool. Lime	Chert	Dolomite

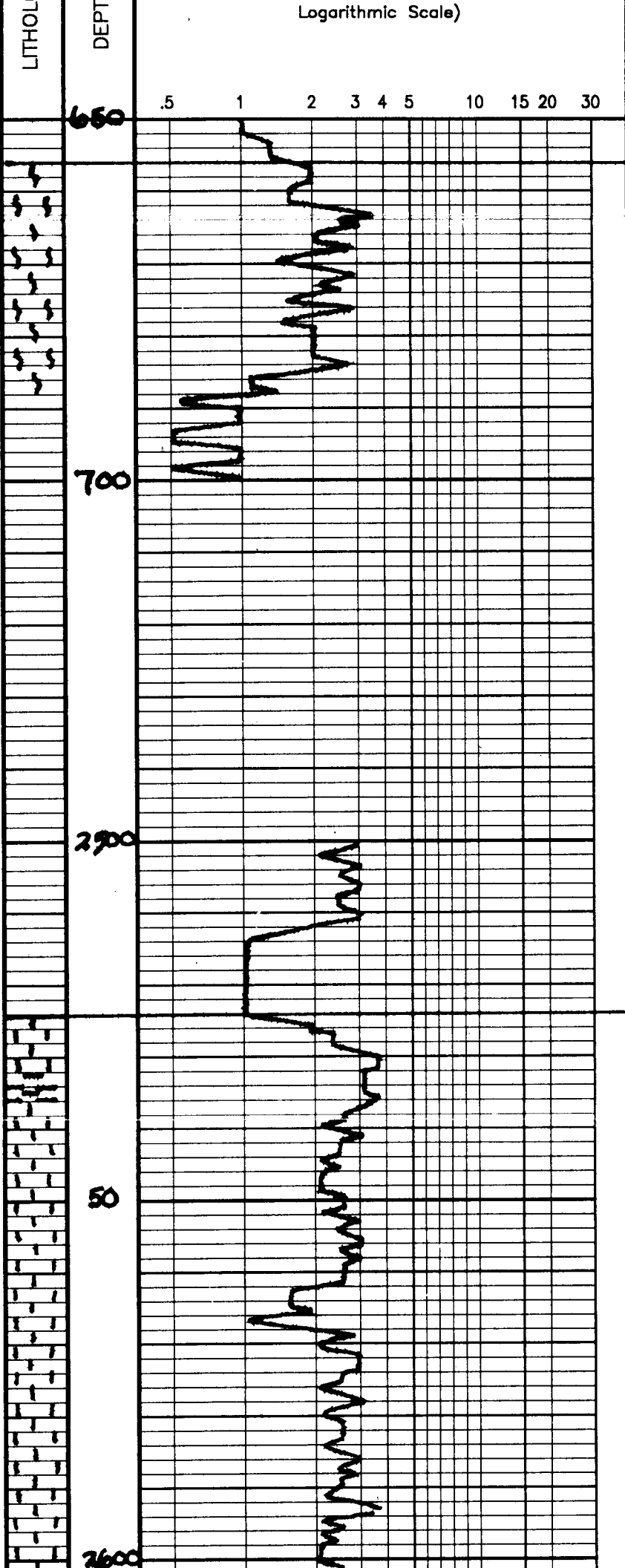
DRILLING TIME

LOG

H

5057

2077 907



SAMPLE DESCRIPTIONS

REMARKS

ANHY. 656 +979

TOPEKA 2524(88)

17 BUFF. LT GRY Dbc.  
FOSS

54 BLK CARB

17 DIRTY WHT FOSS -  
CHALKY FOSS -15-

15 TAN. GRY FOSS pyritic

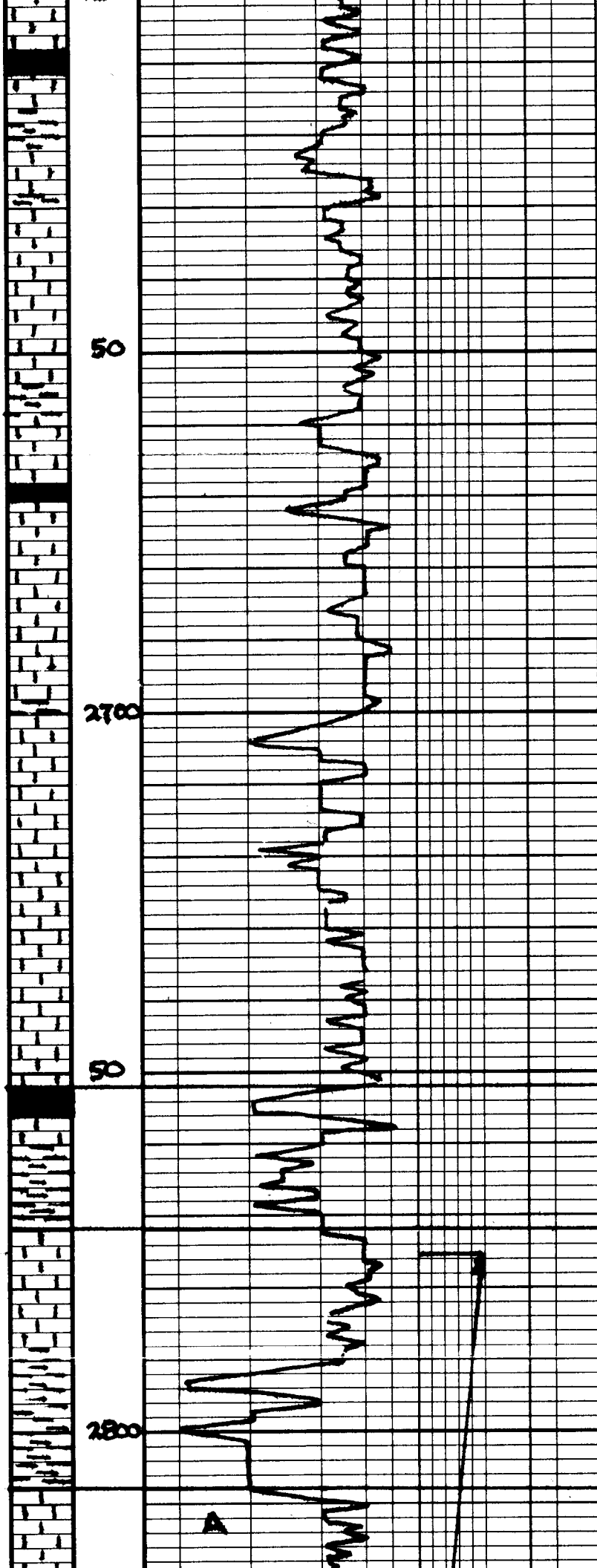
15 GRN-WHT HIGHLY  
CHALKY FOSS  
-15-

15 AA W/ TR smoky  
gray A

15 GRN CHALKY FOSS

54 BLK CARB

2600



L5 GRM-WHT FOSS SHLY  
TR STR?

SH GRY

L5 GRMY WHT FNXL DSE

AA w/ FBZ incus

SH RUSTY BRN

SH BLK CARB.

L5 GRYISH-WHT HIGHLY  
FOSS DSE w/ TR STR

AA w/ TR BRN STR ABUND  
smoky gry A

L5 WHT-GRM CHALKY  
FOSS TR OPT PPT TR  
OPT BRN STR. NFO or odor

L5 GRM FNXL CHALKY  
NO VIS OF TR OPT PPT  
POOR STR NFO or odor

L5 GRM-WHT CHALKY  
DSE

L5 A R.

HEEBNER 2752(-1117)

SH BLK CARB

SH GRY MAROON  
pale gen

TORONTO 2772(-1137)

L5 GRM-BUFF VFNXL  
DSE MASSIVE LS

NO

SH GRY-Pale gen  
(gumbo)

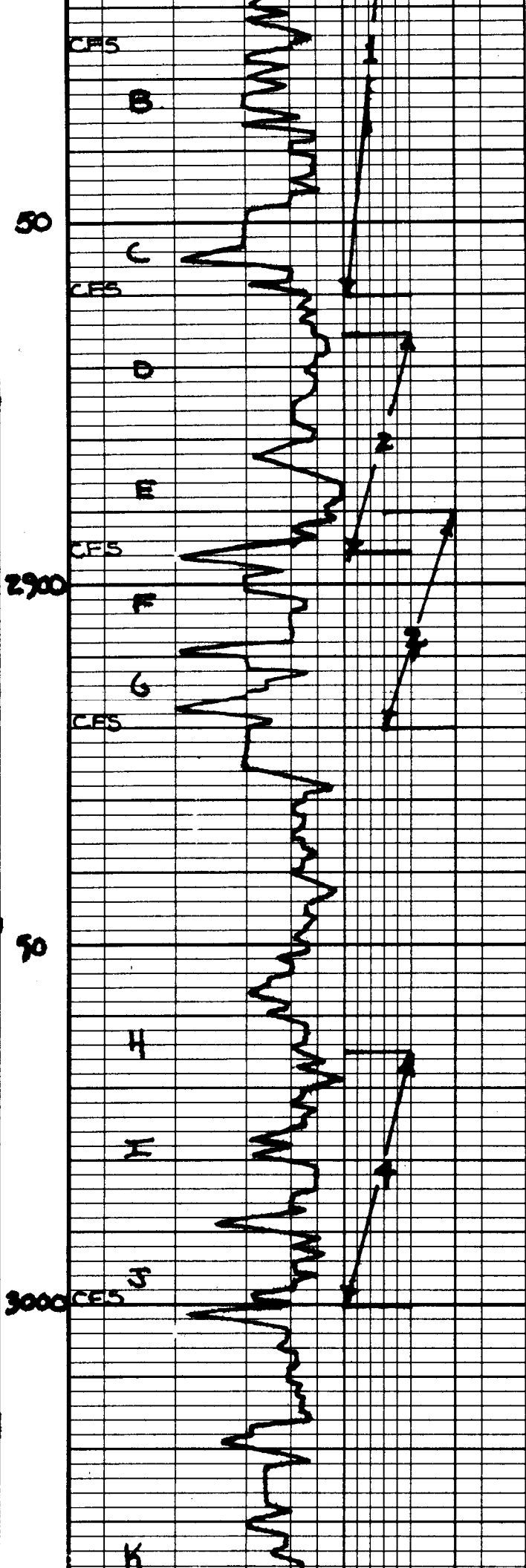
MICACEOUS.

AA

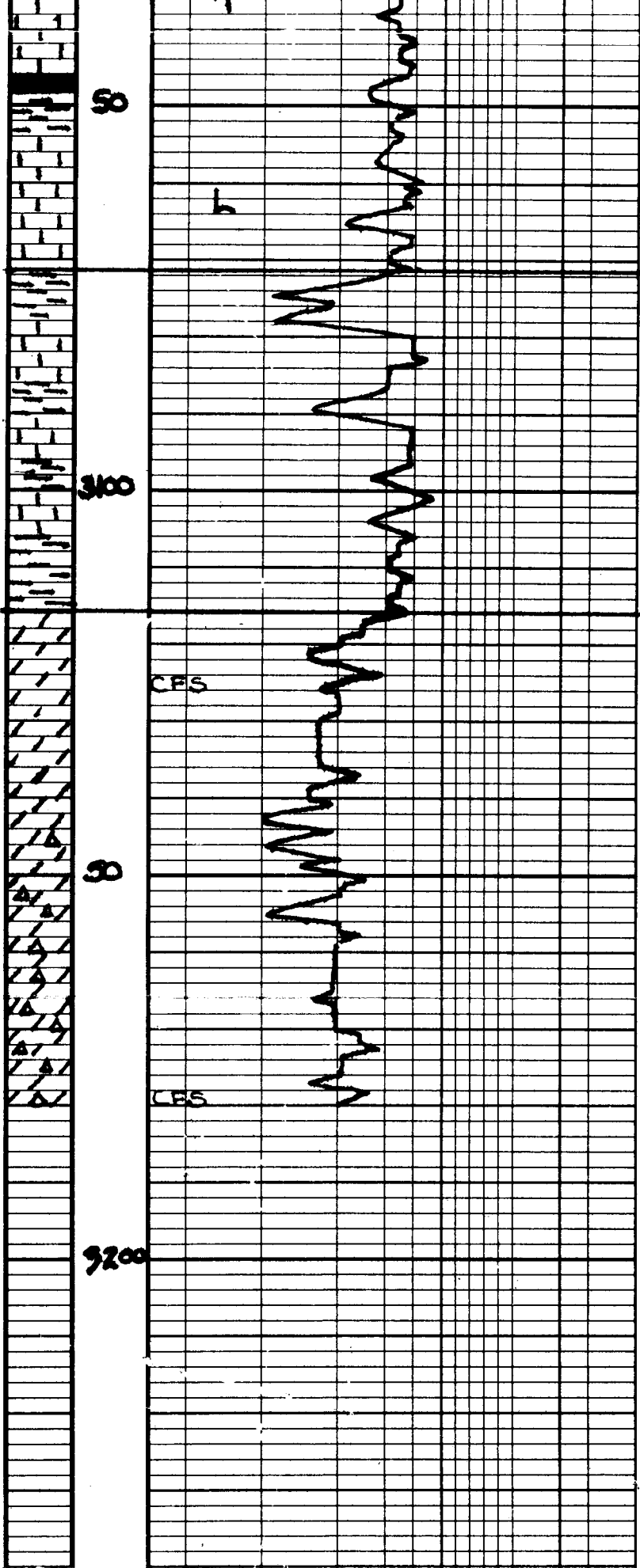
LANSING 2808(-1173)

L5 BUFF-LTGRY FNXL  
SCTD BRN STR. TR POOR  
OPT PPT TR FO WK odor

DY-1 2775-2860'



SH GRY	70' 30' 60' 60'	IF 6" FF 5 1/2"
LS CRM-WHT OOL-FOSS Dse. IR sctd ool- VUG of IR spt LI STA. NEO of OOL TR GRY A	REC. 90' GIP 70' OCM 15% O 85% M 60' OCM 20% O 25% O 55% M	
SH Pale GRN		
LS BUFF-LT GRY FNXL OOL FR sctd ool of IR spt LI STA. Mostly barren TR SO FT OOL	GIP 894-910# FP 14-30 35-52# HSH 1370-1327#	
LS LT GRY DSE MASSIVE		
SH BLK CARB		
LS GRY AY-DSE OOL-FOSS IR spt poor INT OOL-VUG of IR spt LI STA VUG FT OOL		CHART PROFILE
LS BUFF FNXL HIGHLY OOL- FOSS FR sctd INT OOL-VUG of FR sctd LI BRN STA SFO FT OOL		
LS AA	DST-2 2865-2895 'E' 30' 30' 30' 30'	IF WH JUARCE FF NO BLOW REC 2' V50CM GIP 39-31#
LS CRM-WHT FNXL OOL FR sctd ool of (barren) NO ABUND WHT CHALK,	FP 13-14 14-14# HSH 1392-1782#	
LS LT-GRY. BUFF DSE / W OH GRY - RUSTY BRN		
AA		
SH BLK CARB		CHART PROFILE
LS BRN-GRY DSE	DST-3 2890-2920 'E-L' 30' 30' 60' 60'	IF 2 1/4" FF 6 1/4" REC 50' GIP 70' GMLD W/TR H2O 20% O 55% O 9% W 20% M GIP 659-671# FP 14-24 25-42# HSH 1414-1373#
LS CRM-WHT FNXL OOL V poor INT OOL of sctd LI BRN STA SFO FT OOL		
LS CRM-WHT FNXL OOL SPT FR OOL of TR spt dk BRN STA SPT 1-2 pc. SFO FT OOL		
LS WHT FNXL CHALKY -N5-		
SH BLK CARB.		
SH GRY - Pale GRN Gumbo		
LS CRM-GRY FNXL		CHART PROFILE



88

3100

30

9200

CES

CES

Foss 5' DSE  
 5H BLK CARB.  
 5 BUFF-CRM Foss  
 FRYL DSE  
 A A

BASE 3071 (-1436)

5H GRy - PALE GRN  
 GUMBO

DIT-4 2965-3000' I-J  
 70-70-70-70  
 IF SURFACE-18"  
 FF NO BLOW  
 REC 5' V10CM  
 2960 9890M  
 SIP 699-697#  
 FP 16-17 19-19#  
 H2H 1444-141#

DOLO LT GRy - BUFF VENYL  
 SUCROSIC  
 NS  
 DOLO AA IRC BRN DSE  
 DOLO  
 DOLO AA W/ CLR-FROST  
 SHARP A

ARBUCKLE 3116 (1481)

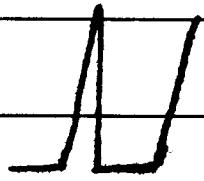


CHART PROFILE

DOLO TAN-LT BRN FRYL  
 W/ SOME IRC IN MD XL  
 DOLO W/ A AA  
 AA W/ IRC PK FRYL  
 DOLO  
 AA W/ ABUND A  
 NS

GEOLOGY RELEASED:  
 2:00 PM.  
 10-25-10



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing

**Sellesn A #1**

PO Box 871  
Russell Ks 67665

**12-13-14, Russell Ks**

ATTN: Brad Hutchinson

Job Ticket: 40979

**DST#: 1**

Test Start: 2010.10.22 @ 18:18:03

## GENERAL INFORMATION:

Formation: **KC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:47:33

Time Test Ended: 01:27:03

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

**Interval: 2775.00 ft (KB) To 2860.00 ft (KB) (TVD)**

Reference Elevations: 1641.00 ft (KB)

Total Depth: 2860.00 ft (KB) (TVD)

1636.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8319**

**Inside**

Press @ Run Depth: 52.21 psig @ 2779.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.22

End Date:

2010.10.23

Last Calib.: 2010.10.23

Start Time: 18:18:08

End Time:

01:27:02

Time On Btm: 2010.10.22 @ 20:46:33

Time Off Btm: 2010.10.22 @ 23:51:03

## TEST COMMENT:

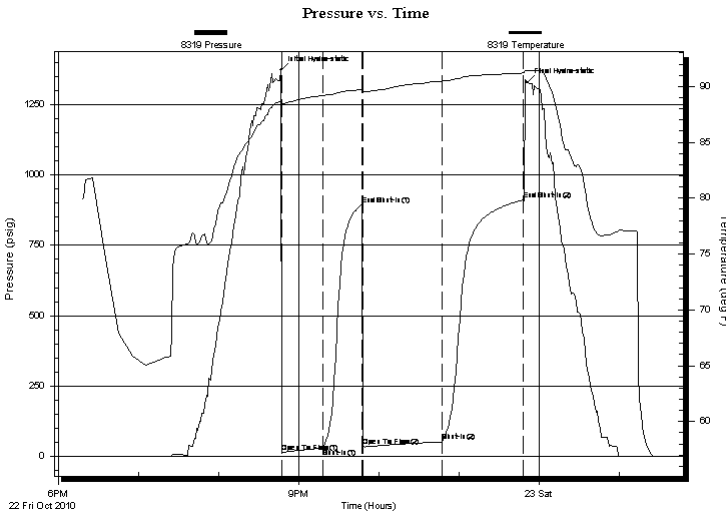
IF-6in blow

ISI-No blow

FF-5 1/2in blow

FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1370.79	88.61	Initial Hydro-static
1	14.11	88.34	Open To Flow (1)
32	29.93	89.18	Shut-In(1)
61	894.72	89.71	End Shut-In(1)
62	34.86	89.52	Open To Flow (2)
121	52.21	90.48	Shut-In(2)
182	910.50	91.22	End Shut-In(2)
185	1327.86	91.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 20%G 25%O 55%M	0.42
30.00	OCM 15%O 85%M	0.21
0.00	90ft GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brungardt Oil& Leasing

**Sellesn A #1**

PO Box 871  
Russell Ks 67665

**12-13-14,Russell Ks**

Job Ticket: 40979

**DST#: 1**

ATTN: Brad Hutchinson

Test Start: 2010.10.22 @ 18:18:03

## 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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 20%G 25%O 55%M	0.425
30.00	OCM 15%O 85%M	0.212
0.00	90ft GIP	0.000

Total Length: 90.00 ft      Total Volume: 0.637 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

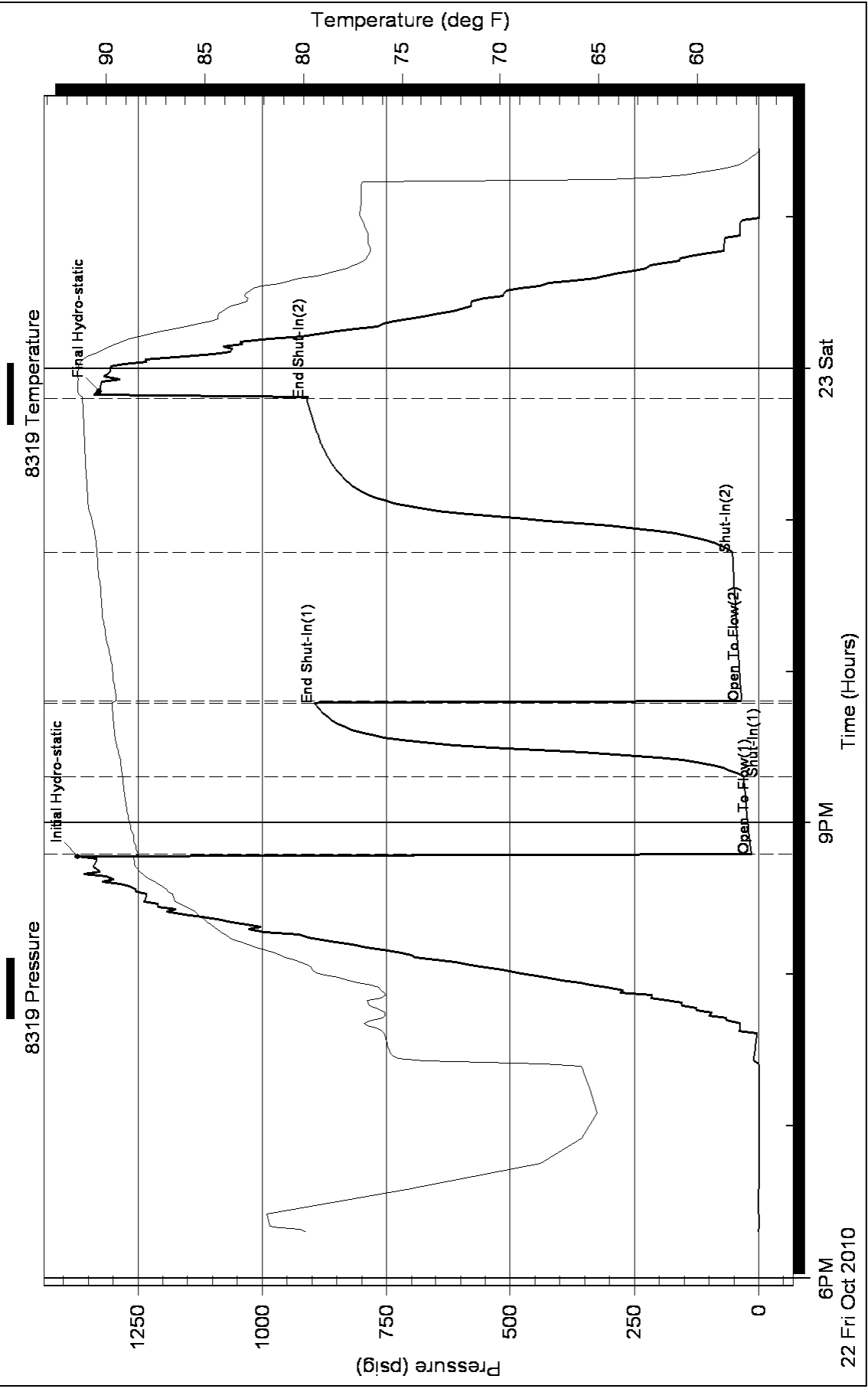
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing

**Sellens A #1**

PO Box 871  
Russell Ks 67665

**12-13-14, Russell Ks**

Job Ticket: 40980

**DST#: 2**

ATTN: Brad Hutchinson

Test Start: 2010.10.23 @ 08:10:30

## GENERAL INFORMATION:

Formation: **70ft zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:30:30

Time Test Ended: 13:37:30

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

**Interval: 2865.00 ft (KB) To 2895.00 ft (KB) (TVD)**

Reference Elevations: 1641.00 ft (KB)

Total Depth: 2895.00 ft (KB) (TVD)

1636.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8319 Inside**

Press @ Run Depth: 13.80 psig @ 2869.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.23

End Date: 2010.10.23

Last Calib.: 2010.10.23

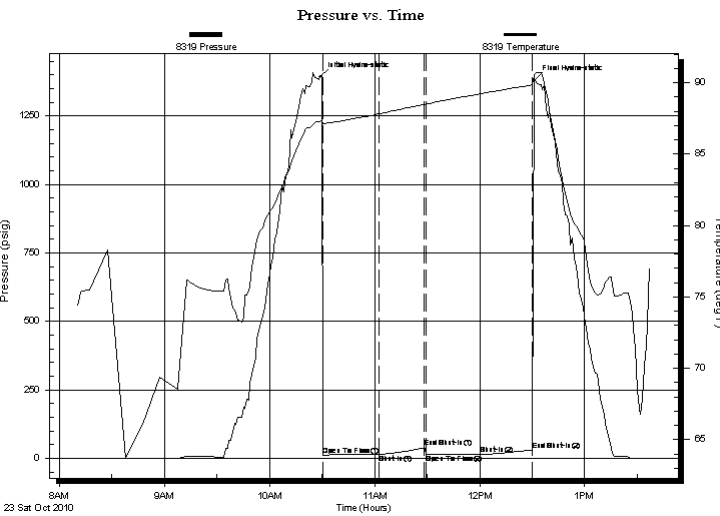
Start Time: 08:10:35

End Time: 13:37:29

Time On Btm: 2010.10.23 @ 10:29:00

Time Off Btm: 2010.10.23 @ 12:31:30

**TEST COMMENT:** IF-Very weak surface blow died in 4min  
ISI-No blow  
FF-No blow  
FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1392.46	87.26	Initial Hydro-static
2	12.75	87.12	Open To Flow (1)
34	14.41	87.81	Shut-In(1)
60	39.45	88.48	End Shut-In(1)
61	13.61	88.50	Open To Flow (2)
91	13.80	89.21	Shut-In(2)
121	30.93	89.83	End Shut-In(2)
123	1382.97	90.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	V/SOCM 5%O 95%M	0.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Brungardt Oil& Leasing

**Sellens A #1**

PO Box 871  
Russell Ks 67665

**12-13-14,Russell Ks**

Job Ticket: 40980

**DST#: 2**

ATTN: Brad Hutchinson

Test Start: 2010.10.23 @ 08:10:30

**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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
2.00	VSOCM 5%O 95%M	0.014

Total Length: 2.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

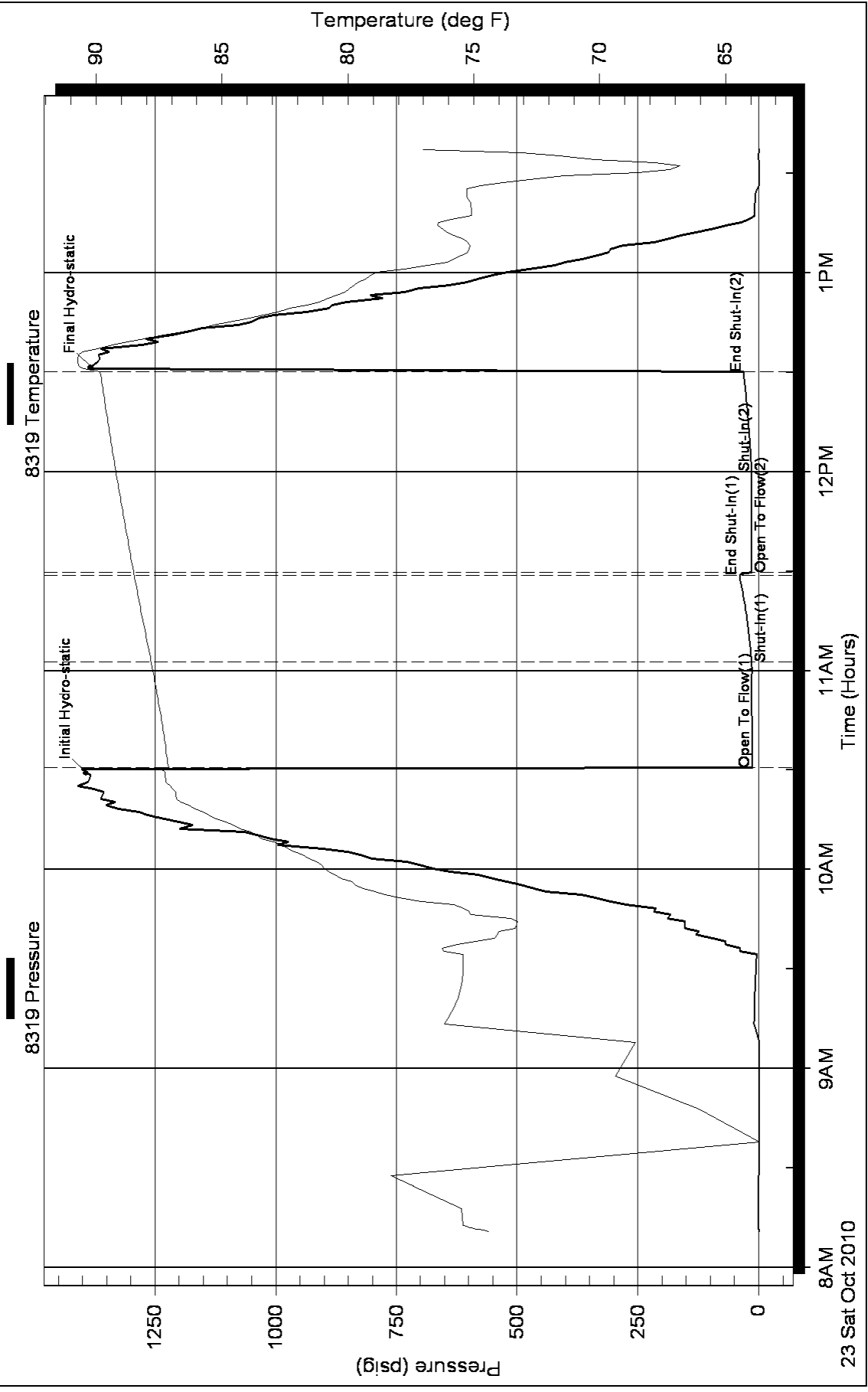
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing

**Sellens A #1**

PO Box 871  
Russell Ks 67665

**12-13-14, Russell Ks**

ATTN: Brad Hutchinson

Job Ticket: 40981

**DST#: 3**

Test Start: 2010.10.23 @ 19:18:01

## GENERAL INFORMATION:

Formation: **KC "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:33:01

Time Test Ended: 02:05:01

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

**Interval: 2890.00 ft (KB) To 2920.00 ft (KB) (TVD)**

Reference Elevations: 1641.00 ft (KB)

Total Depth: 2920.00 ft (KB) (TVD)

1636.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8319**

**Inside**

Press @ Run Depth: 42.52 psig @ 2893.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.23

End Date:

2010.10.24

Last Calib.: 2010.10.24

Start Time: 19:18:06

End Time:

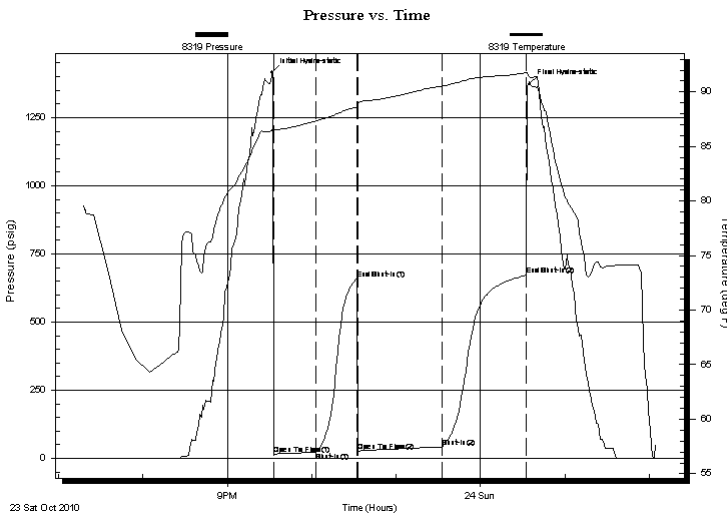
02:05:00

Time On Btm: 2010.10.23 @ 21:32:01

Time Off Btm: 2010.10.24 @ 00:35:01

**TEST COMMENT:** IF-2 1/4in blow  
ISI-No blow  
FF-6 1/4in blow  
FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1414.83	86.51	Initial Hydro-static
1	14.00	86.29	Open To Flow (1)
31	23.96	87.34	Shut-In(1)
60	659.15	88.62	End Shut-In(1)
61	24.67	88.80	Open To Flow (2)
121	42.52	90.53	Shut-In(2)
181	671.46	91.79	End Shut-In(2)
183	1373.73	91.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	VSWGMC0 20%G 55%O 5%W 20%M	0.50
0.00	50ft GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brungardt Oil& Leasing

**Sellens A #1**

PO Box 871  
Russell Ks 67665

**12-13-14,Russell Ks**

Job Ticket: 40981

**DST#: 3**

ATTN: Brad Hutchinson

Test Start: 2010.10.23 @ 19:18:01

## 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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	VSWGMC0 20%G 55%O 5%W 20%M	0.496
0.00	50ft GIP	0.000

Total Length: 70.00 ft Total Volume: 0.496 bbl

Num Fluid Samples: 0

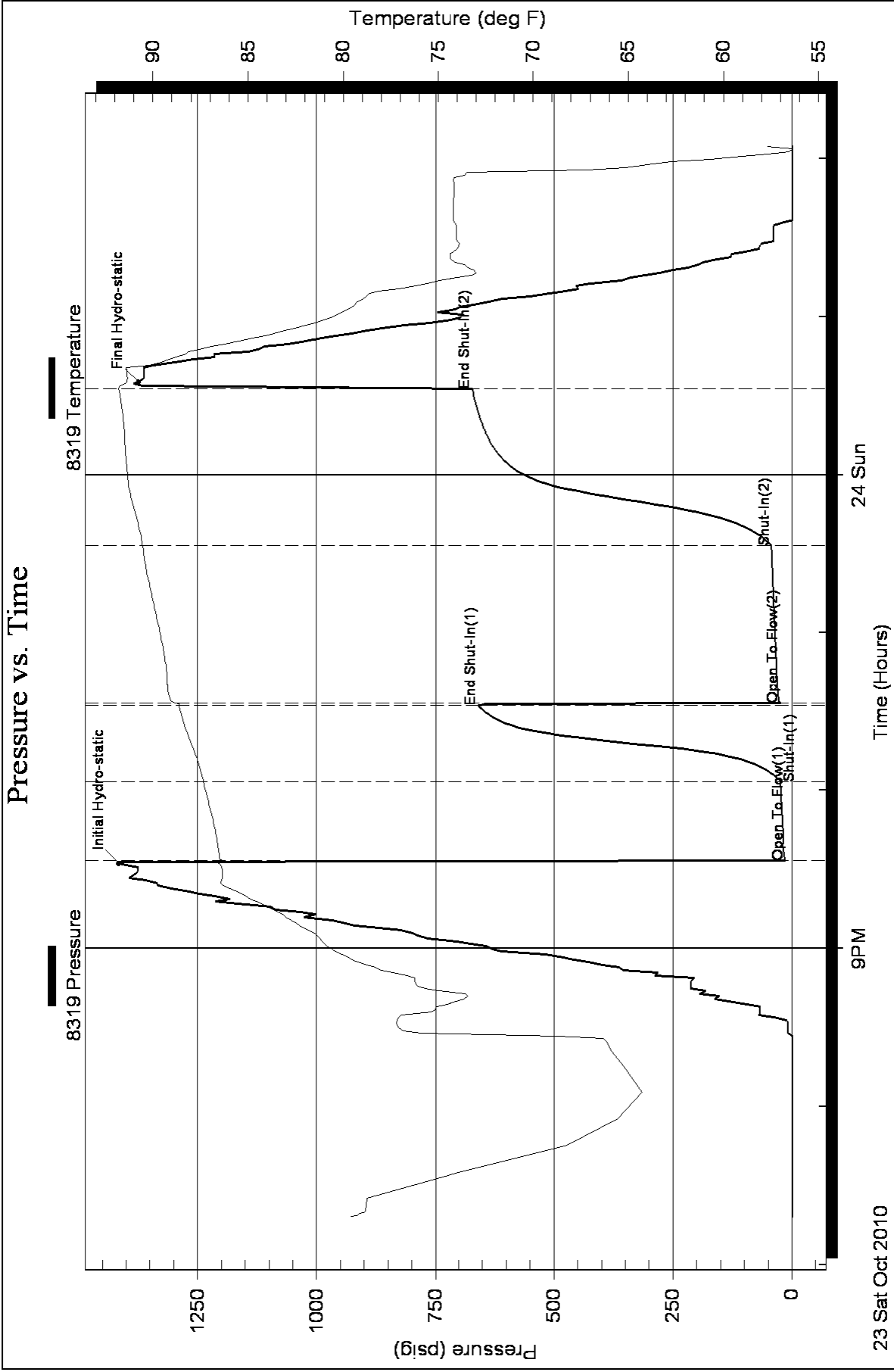
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





# ALLIED CEMENTING CO., LLC. 042013

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Russell KS

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
10-19-10	12	13	14			2:15am	8:45am
Sellers A		WELL # 1		LOCATION <u>Russell KS Blatin Plant</u>		COUNTY <u>Russell</u>	STATE <u>KS</u>
LEASE		OLD OR <input checked="" type="radio"/> NEW (Circle one)					
		3 1/2 <del>North and East North</del> East info					

CONTRACTOR <u>Shields Drilling Rig #1</u>	OWNER
TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE <u>12 1/4</u>	T.D. <u>222'</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>222'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>13 Bbl</u>	
EQUIPMENT	
PUMP TRUCK CEMENTER <u>John Roberts</u>	
# <u>378</u> HELPER <u>Richard TWS</u>	
BULK TRUCK	
# <u>378</u> DRIVER <u>Ron</u>	
BULK TRUCK	
#	DRIVER
REMARKS:	

Est. Circulation

Mix 150sk cement

Displace Plug w/ 13 Bbl H<sub>2</sub>O

Cement Did Circulate!  
Thank You!

CHARGE TO: Brangardt Oil and Leasing Inc.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

AMOUNT ORDERED <u>150 com 3 1/2 cc 2 1/2 Gel</u>	
COMMON <u>150</u> @ <u>13.50</u> <u>2025.00</u>	
POZMIX @	
GEL <u>3</u> @ <u>20.25</u> <u>60.75</u>	
CHLORIDE <u>5</u> @ <u>51.50</u> <u>257.50</u>	
ASC @	
HANDLING <u>150</u> @ <u>2.25</u> <u>337.50</u>	
MILEAGE <u>110 file</u> <u>300.00</u>	
TOTAL <u>2960.25</u>	

DEPTH OF JOB	
PUMP TRUCK CHARGE <u>99.00</u>	
EXTRA FOOTAGE @	
MILEAGE <u>3</u> @ <u>2.00</u> <u>21.00</u>	
MANIFOLD @	
TOTAL <u>1012.00</u>	

PLUG & FLOAT EQUIPMENT	
<u>8 5/8 Wooden Plug</u> @ <u>N-C</u>	
TOTAL <u>N-C</u>	

To Allied Cementing Co., 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 Thomas S Engel

SIGNATURE Thomas S Engel

SALES TAX (if Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

# ALLIED CEMENTING CO., LLC. 30128

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Russell

DATE	SEC	TWP	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
10/25/10	12	135	14N			7:30 AM	8:30 AM
LEASE # <u>Slows</u>	WELL # <u>A #1</u>	LOCATION <u>Glenn Plant 30N</u>		COUNTY <u>Russell</u>	STATE <u>Ks</u>		
<input checked="" type="checkbox"/> OLD OR <input type="checkbox"/> NEW (Circle one)							

CONTRACTOR <u>Specialty Drilling R #1</u>	OWNER
TYPE OF JOB <u>Production String</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>3160</u>
CASING SIZE <u>5 1/2 14"</u>	DEPTH <u>3129'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
<del>FOOT P.C.</del>	DEPTH <u>703'</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>75'</u>
CEMENT LEFT IN CSG. <u>38'</u>	
PERFS.	
DISPLACEMENT <u>76.72 bbl</u>	

EQUIPMENT		CEMENT	
PUMP TRUCK	CEMENTER <u>Shane</u>	AMOUNT ORDERED	<u>175 Com 108.5611</u>
# <u>417</u>	HELPER <u>Heath</u>	<u>22 bbl</u>	<u>500 bbl WFR-2</u>
BULK TRUCK			
# <u>410</u>	DRIVER <u>George Tws</u>		
BULK TRUCK			
#	DRIVER		

COMMON <u>175</u>	@ <u>17.50</u>	<u>3062.50</u>
POZMIX	@	
GEL <u>3</u>	@ <u>20.25</u>	<u>60.75</u>
CHLORIDE	@	
ASC	@	
<u>Salt</u> <u>7</u>	@ <u>21.25</u>	<u>148.75</u>
<u>WFR-2</u> <u>500</u>	@ <u>1.10</u>	<u>550.00</u>
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>175</u>	@ <u>2.25</u>	<u>393.75</u>
MILEAGE <u>110/16 p.m.</u>		<u>300.00</u>
		TOTAL <u>3815.25</u>

REMARKS:  
 Rat Hole Jacks Movable 15 Str  
 Fact # 3144 Run 5 str  
 to bottom but Circulation  
 Mixed 500 bbl WFR-2 Mix  
 130 Str Shut down washed Pump  
 Casing Displaced 76.7 bbl  
 Casing Plg @ 1400 psi  
 float held!

SERVICE			
DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1957.00</u>
EXTRA FOOTAGE	@		
MILEAGE <u>3</u>	@ <u>2.00</u>	<u>21.00</u>	
MANIFOLD	@		
	@		
		TOTAL	<u>1978.00</u>

CHARGE TO: Brungard L  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT			
<u>Art Caller</u>	@	<u>1750.00</u>	
<u>2- Centralizer</u>	@ <u>35.00</u>	<u>70.00</u>	
<u>8- Turbulizer</u>	@ <u>42.00</u>	<u>336.00</u>	
<u>Casing Stop</u>	@	<u>1.01.00</u>	
<u>Rubber Plug</u>	@	<u>43.00</u>	
		TOTAL	<u>2300.00</u>

To Allied Cementing Co., 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.

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES [REDACTED]  
 DISCOUNT [REDACTED] IF PAID IN 30 DAYS

PRINTED NAME Burton Beery  
 SIGNATURE Burton Beery

Thanks!

# ALLIED CEMENTING CO., LLC. 033980

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell KS

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
11-8-10	12	13	14			10:45am	11:15am
LEASE <u>Sellens 1/4"</u>						COUNTY	STATE
WELL # <u>1</u>				LOCATION <u>Bluin Plant 3 North, east into</u>	<u>Russell</u>	<u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR <u>C.K.W.S</u>		OWNER _____
TYPE OF JOB <u>Port Collar - Top Stage</u>		CEMENT <u>(Used 160 sk cement)</u>
HOLE SIZE _____	T.D. _____	AMOUNT ORDERED <u>200 @ 9/16 6' Gal 1/4" Flt</u>
CASING SIZE <u>5 1/2</u>	DEPTH _____	
TUBING SIZE <u>2 3/8</u>	DEPTH <u>704'</u>	
DRILL PIPE _____	DEPTH _____	
<del>TOP</del> <u>PC</u>	DEPTH <u>704'</u>	
PRES. MAX _____	MINIMUM _____	COMMON <u>9/16</u> @ <u>13.50</u> <u>1276.00</u>
MEAS. LINE _____	SHOE JOINT _____	POZMIX <u>64</u> @ <u>7.50</u> <u>483.00</u>
CEMENT LEFT IN CSG. _____		GEL <u>5</u> @ <u>20.20</u> <u>101.00</u>
PERFS. _____		CHLORIDE @ _____
DISPLACEMENT <u>2.75 Bbl</u>		ASC @ _____
EQUIPMENT _____		<u>Fl. Sol</u> <u>40</u> @ <u>2.45</u> <u>98.00</u>
		@ _____
		@ _____
		@ _____
		@ _____
		@ _____
		@ _____
		@ _____
		HANDLING <u>160</u> @ <u>2.25</u> <u>360.00</u>
		MILEAGE <u>10 1/2 hrs</u> <u>300.00</u>
		TOTAL <u>2689.00</u>

REMARKS:  
Test tog to 600 psi. open Port Collar  
Est. circulation mix 160 sk  
cement displace w/ 1.75 Bbl H2O  
closed port collar and test to  
600 psi. Ran in w/ 6 str. tubing  
and wash hole clean.  
Cement did circulate.  
John Roberts Thank You!

CHARGE TO: Bugardt Oil & Lease  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To Allied Cementing Co., 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 Doug L. Bugardt

SERVICE	
DEPTH OF JOB _____	
PUMP TRUCK CHARGE _____	<u>1159.00</u>
EXTRA FOOTAGE @ _____	
MILEAGE <u>3</u> @ <u>7.00</u>	<u>21.00</u>
MANIFOLD @ _____	
@ _____	
@ _____	
TOTAL	<u>1180.00</u>

PLUG & FLOAT EQUIPMENT	
@ _____	
@ _____	
@ _____	
@ _____	
@ _____	
TOTAL	_____

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS