

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

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 # 31297  
Name: James B Read Operating Inc.  
Address 1: PO Box 638  
Address 2: \_\_\_\_\_  
City: Ardmore State: OK Zip: 73402-0638  
Contact Person: Randall Voth  
Phone: (316) 841-3053  
CONTRACTOR: License # 5822  
Name: Val Energy Inc.  
Wellsite Geologist: Well Sight Systems  
Purchaser: \_\_\_\_\_

Designate Type of Completion:

- |  |   |                                     |
|--|---|-------------------------------------|
| <input type="checkbox"/> New Well              | <input type="checkbox"/> Re-Entry                         | <input type="checkbox"/> Workover   |
| <input type="checkbox"/> Oil                   | <input type="checkbox"/> WSW                              | <input type="checkbox"/> SWD        |
| <input type="checkbox"/> Gas                   | <input checked="" type="checkbox"/> D&A                   | <input type="checkbox"/> ENHR       |
| <input type="checkbox"/> OG                    | <input type="checkbox"/> GSW                              | <input type="checkbox"/> Temp. Abd. |
| <input type="checkbox"/> CM (Coal Bed Methane) |   |                                     |
| <input type="checkbox"/> Cathodic              | <input type="checkbox"/> Other (Core, Expl., etc.): _____ |                                     |

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- |   |                                   |  |                                       |
|---|-----------------------------------|--|---------------------------------------|
| <input type="checkbox"/> Deepening        | <input type="checkbox"/> Re-perf. | <input type="checkbox"/> Conv. to ENHR | <input type="checkbox"/> Conv. to SWD |
|   |                                   | <input type="checkbox"/> Conv. to GSW  |                                       |
| <input type="checkbox"/> Plug Back: _____ | Plug Back Total Depth _____       |  |                                       |
| <input type="checkbox"/> Commingled       | Permit #: _____                   |  |                                       |
| <input type="checkbox"/> Dual Completion  | Permit #: _____                   |  |                                       |
| <input type="checkbox"/> SWD              | Permit #: _____                   |  |                                       |
| <input type="checkbox"/> ENHR             | Permit #: _____                   |  |                                       |
| <input type="checkbox"/> GSW              | Permit #: _____                   |  |                                       |

10-19-10 10-26-10 10-27-10  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 155-21564-0000  
Spot Description: \_\_\_\_\_  
NW SW NW SW Sec. 19 Twp. 25 S. R. 8  East  West  
2000 Feet from  North /  South Line of Section  
632 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Reno  
Lease Name: Locke Well #: 1  
Field Name: None  
Producing Formation: None  
Elevation: Ground: 1603 Kelly Bushing: 1613  
Total Depth: 3838 Plug Back Total Depth: 1300  
Amount of Surface Pipe Set and Cemented at: 305 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: 26,000 ppm Fluid volume: 600 bbls  
Dewatering method used: Allow to dry.

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

**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.

Signature: [Signature]  
Title: Agent Date: 6-6-11

**KCC Office Use ONLY RECEIVED**

Letter of Confidentiality Received

Date: JUN 06 2011

Confidential Release Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT  I  II  III Approved by: DG Date: 6/10/11

**KCC WICHITA**

Operator Name: James B. Read Operating Lease Name: Locke Well #: 1  
 Sec. 19 Twp. 25 S. R. 8  East  West County: Reno

**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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets)  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If no, Submit Copy)  List All E. Logs Run: <u>Strip Log</u>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Hebner</td> <td>3073</td> <td>-1400</td> </tr> <tr> <td>Brown LS</td> <td>3266</td> <td>-1653</td> </tr> <tr> <td>BKC</td> <td>3664</td> <td>-2051</td> </tr> <tr> <td>Miss</td> <td>3826</td> <td>-2213</td> </tr> </table>	Name	Top	Datum	Hebner	3073	-1400	Brown LS	3266	-1653	BKC	3664	-2051	Miss	3826	-2213
Name	Top	Datum														
Hebner	3073	-1400														
Brown LS	3266	-1653														
BKC	3664	-2051														
Miss	3826	-2213														

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
Surface	12 1/4	8 5/8	21#	305	Common A POZMix	250	

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 checked="" type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	1300	Common POZMix	155	4% Gel 5 sacks

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: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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 (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# ALLIED CEMENTING CO., LLC. 042239

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

SERVICE POINT:  
Medicine Lodge, KS

DATE <u>10-18-2010</u>	SEC. <u>19</u>	TWP. <u>25S</u>	RANGE <u>8W</u>	CALLED OUT <u>7:30 pm</u>	ON LOCATION <u>10:00 pm</u>	JOB START <u>3:00 AM</u>	JOB FINISH <u>4:50 AM</u>
LEASE <u>Locke</u>	WELL # <u>1</u>	LOCATION <u>Arlington KS west on</u>			COUNTY <u>Peno</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>Hwy 54 to Sterling Rd, 3/4 S, E/14th</u>				

CONTRACTOR <u>VCI #3</u>
TYPE OF JOB <u>Surface</u>
HOLE SIZE <u>12 1/4</u> T.D. <u>311'</u>
CASING SIZE <u>8 5/8</u> DEPTH <u>309'</u>
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT <u>42'</u>
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT <u>17 bbls of fresh water</u>

OWNER <u>Voth Oil</u>
CEMENT
AMOUNT ORDERED <u>150sk 60!40! 2% 60%</u>
<u>3% ocl + 1/2 # flocc, 100sk C1955 A</u>
<u>4% sst + 5# kdsesl + 3% ocl + 1/2 # flocc</u>
COMMON C1955 A <u>190sk @ 15.45 2,935.50</u>
POZMIX <u>60sk @ 8.00 480.00</u>
GEL <u>3sk @ 20.80 62.40</u>
CHLORIDE <u>9sk @ 58.20 523.80</u>
ASC @
<u>Flocc 125# @ 2.50 312.50</u>
<u>Kdsesl 500# @ .89 445.00</u>
<u>Sst 4sk @ 12.00 48.00</u>
@
@
@
@
@
HANDLING <u>250sk @ 2.40 600.00</u>
MILEAGE <u>250/30/10 750.00</u>
TOTAL <u>6,157.20</u>

### EQUIPMENT

PUMP TRUCK CEMENTER <u>Derin F.</u>
# <u>360-265</u> HELPER <u>Matt T</u>
BULK TRUCK
# <u>356-250</u> DRIVER <u>Jason T</u>
BULK TRUCK
# DRIVER

RECEIVED  
KANSAS CORPORATION COMMISSION  
JUN 06 2011  
CONSERVATION DIVISION  
WICHITA, KS

### REMARKS:

Pipe on bottom & break circulation  
Pump 3 bbls fresh water check mix 150sk  
of lead cement, mix 100sk of sst  
Cement, Shut down, Release plug, sst  
displacement, pump 17 bbls & shut  
in, cement did circulate

### SERVICE

DEPTH OF JOB <u>309'</u>
PUMP TRUCK CHARGE <u>1018.00</u>
EXTRA FOOTAGE <u>10 @ .85 8.50</u>
MILEAGE <u>301 @ 7.00 210.00</u>
MANIFOLD @
<del>RECEIVED</del> @
<del>RECEIVED</del> @
TOTAL <u>1,236.50</u>

CHARGE TO: Voth Oil  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

JUN 06 2011  
KCC WICHITA

### PLUG & FLOAT EQUIPMENT

<u>8 5/8</u>
1-Wooden plug @ <u>68.00 68.00</u>
1-Bottle Plug @ <u>152.00 152.00</u>
1-Guide Shoe @ <u>287.00 287.00</u>
3-centrifugers @ <u>44.80 134.40</u>
@

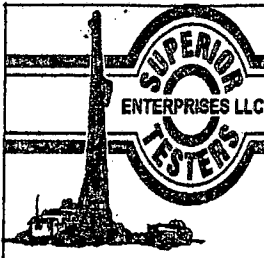
TOTAL 641.40

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 641.40  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

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 X Rodney Gazzates  
SIGNATURE X Rodney Gazzates  
Thank You!!!





# DRILL STEM TEST REPORT

James B. Reading Operating, Inc.  
 P.O. Box 638  
 Ardmore Okalhoma 73402+0638  
 ATTN: Randy Voth

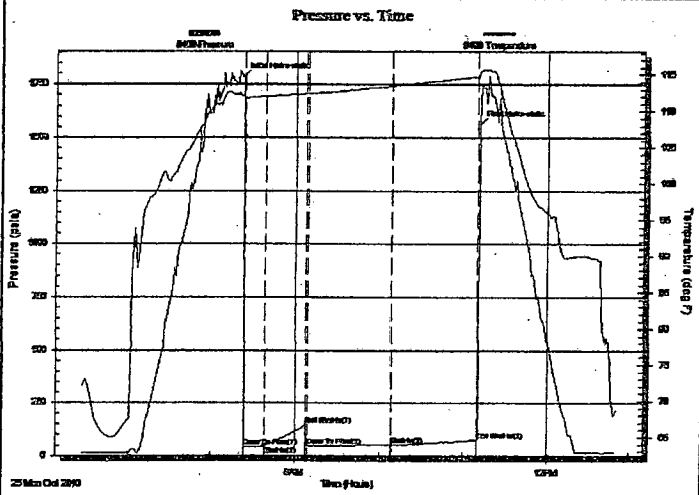
**Locke #1**  
**19/25S/8W Reno**  
 Job Ticket: 15707      **DST#: 1**  
 Test Start: 2010.10.25 @ 06:26:00

## GENERAL INFORMATION:

Formation: **Stark Shale**  
 Deviated: No Whipstock      ft (KB)  
 Time Tool Opened: 08:23:30  
 Time Test Ended: 12:51:00  
 Interval: **3612.00 ft (KB) To 3636.00 ft (KB) (TVD)**  
 Total Depth: 3636.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dylan E Ellis  
 Unit No: 3345-Great Bend-150  
 Reference Elevations: 1612.00 ft (KB)  
 1603.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8400**      **Outside**  
 Press@RunDepth: 51.36 psia @ 3638.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2010.10.25      End Date: 2010.10.25      Last Calib.: 2010.10.25  
 Start Time: 06:26:00      End Time: 12:51:00      Time On Btrm: 2010.10.25 @ 08:22:00  
 Time Off Btrm: 2010.10.25 @ 11:11:30

**TEST COMMENT:** 1ST Opening 15 Minutes very weak blow /blow built to 0.25 inches into a bucket of water.  
 1ST Shut-in 30 Minutes no blow back  
 2ND Opening 60 Minutes very weak blow /blow built to .50 inches into a bucket of water/died off slowly/blow died in 41 minutes

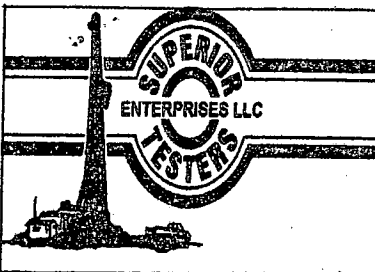


PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1784.45	112.16	Initial Hydro-static
2	44.29	111.82	Open To Flow (1)
17	46.24	112.03	Shut-in(1)
46	149.37	112.41	End Shut-in(1)
47	47.35	112.39	Open To Flow (2)
107	51.36	113.50	Shut-in(2)
168	75.68	114.72	End Shut-in(2)
170	1564.98	115.39	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
8.00	Oil speck Mud	0.04
0.00	1% Oil 99% Mud	0.00

Gas Rates		
Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)

**RECEIVED**  
**JUN 06 2011**  
**KCC WICHITA**



# DRILL STEM TEST REPORT

James B. Reading Operating, Inc.

Locke #1

P.O. Box 638  
Ardmore Oklahoma 73402+0638

19/25S/8W Reno

Job Ticket: 15707

DST#: 1

ATTN: Randy Voth

Test Start: 2010.10.25 @ 06:26:00

## GENERAL INFORMATION:

Formation: **Stark Shale**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 08:23:30

Time Test Ended: 12:51:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345-Great Bend-150

Interval: **3612.00 ft (KB) To 3636.00 ft (KB) (TVD)**

Total Depth: 3636.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1612.00 ft (KB)

1603.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 4143

Inside

Press@RunDepth: 83.20 psia @ 3637.00 ft (KB)

Start Date: 2010.10.25

End Date:

2010.10.25

Capacity: 5000.00 psia

Last Calib.: 2010.10.25

Start Time: 06:26:00

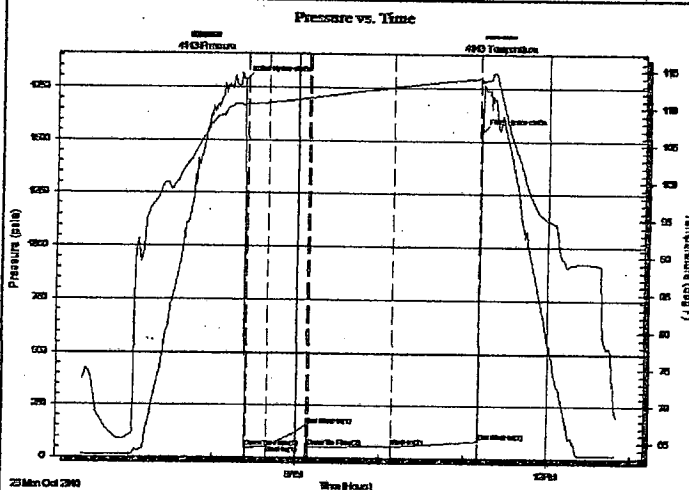
End Time:

12:50:15

Time On Btm: 2010.10.25 @ 08:22:16

Time Off Btm: 2010.10.25 @ 11:11:46

TEST COMMENT: 1ST Opening 15 Minutes very weak blow/blow built to 0.25 inches into a bucket of water  
 1ST Shut-in 30 Minutes no blow back  
 2ND Opening 60 Minutes very weak blow/blow built to .50 inches into a bucket of water/died off slowly/blow died in 41 minutes



## PRESSURE SUMMARY

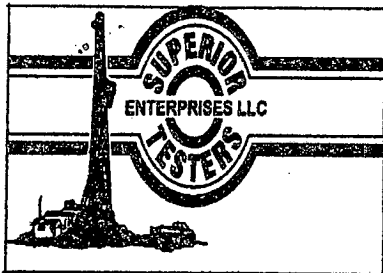
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1785.72	110.38	Initial Hydro-static
2	49.16	110.46	Open To Flow (1)
17	58.17	110.65	Shut-in(1)
45	156.27	111.28	End Shut-in(1)
47	53.50	111.32	Open To Flow (2)
106	56.78	112.80	Shut-in(2)
168	83.20	114.01	End Shut-in(2)
170	1546.22	113.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
8.00	Oil speck Mud	0.04
0.00	1% Oil 99% Mud	0.00

## Gas Rates

	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

TOOL DIAGRAM

James B. Reading Operating, Inc.

Locke #1

P.O. Box 638  
Ardmore Oklahoma 73402+0638

19/25S/8W Reno

Job Ticket: 15707

DST#: 1

ATTN: Randy Voth

Test Start: 2010.10.25 @ 06:26:00

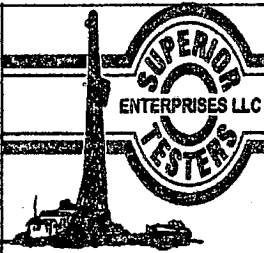
## Tool Information

Drill Pipe:	Length: 3476.09 ft	Diameter: 3.80 inches	Volume: 48.76 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: 20000.00 lb
Drill Collar:	Length: 120.91 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 10000.00 lb
			Total Volume: 49.35 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3612.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3589.00	
Shut-In Tool	5.00			3594.00	
Hydroic Tool	5.00			3599.00	
Jars	6.00			3605.00	
Safety Joint	2.00			3607.00	
Packer	5.00			3612.00	24.00 Bottom Of Top Packer
Packer ' Shale '	5.00			3617.00	
Perforations	19.00			3636.00	
Recorder	1.00	4143	Inside	3637.00	
Recorder	1.00	8400	Outside	3638.00	
Bullnose	3.00			3641.00	29.00 Anchor Tool
<b>Total Tool Length:</b>	<b>53.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

James B. Reading Operating, Inc.

Locke #1

P.O. Box 638  
Ardmore Oklahoma 73402+0638

19/25S/8W Reno

Job Ticket: 15707

DST#: 1

ATTN: Randy Voht

Test Start: 2010.10.25 @ 06:26:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 59.00 sec/qt  
Water Loss: 8.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psia

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	Oil speck Mud	0.039
0.00	1% Oil 99% Mud	0.000

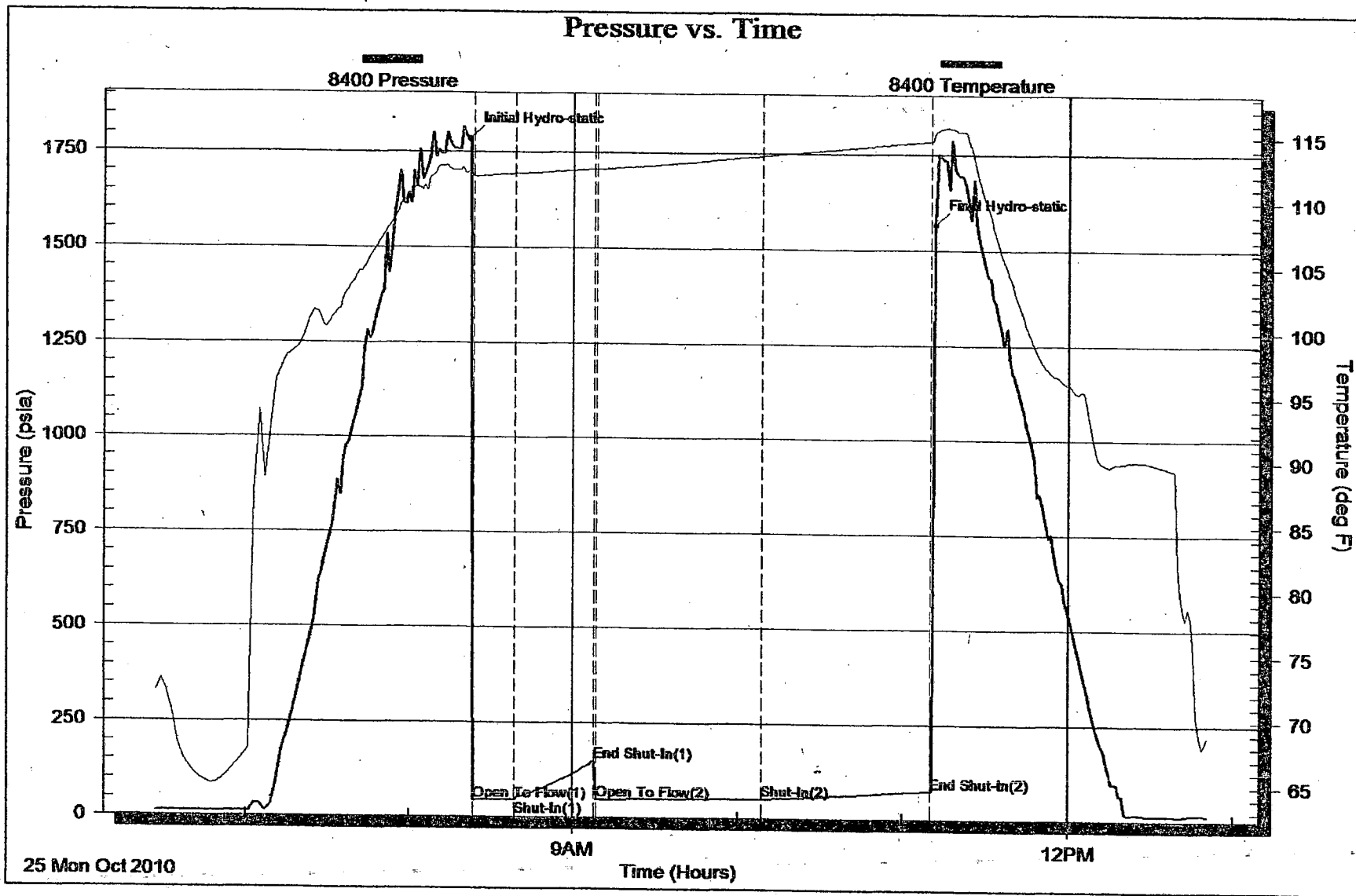
Total Length: 8.00 ft      Total Volume: 0.039 bbl

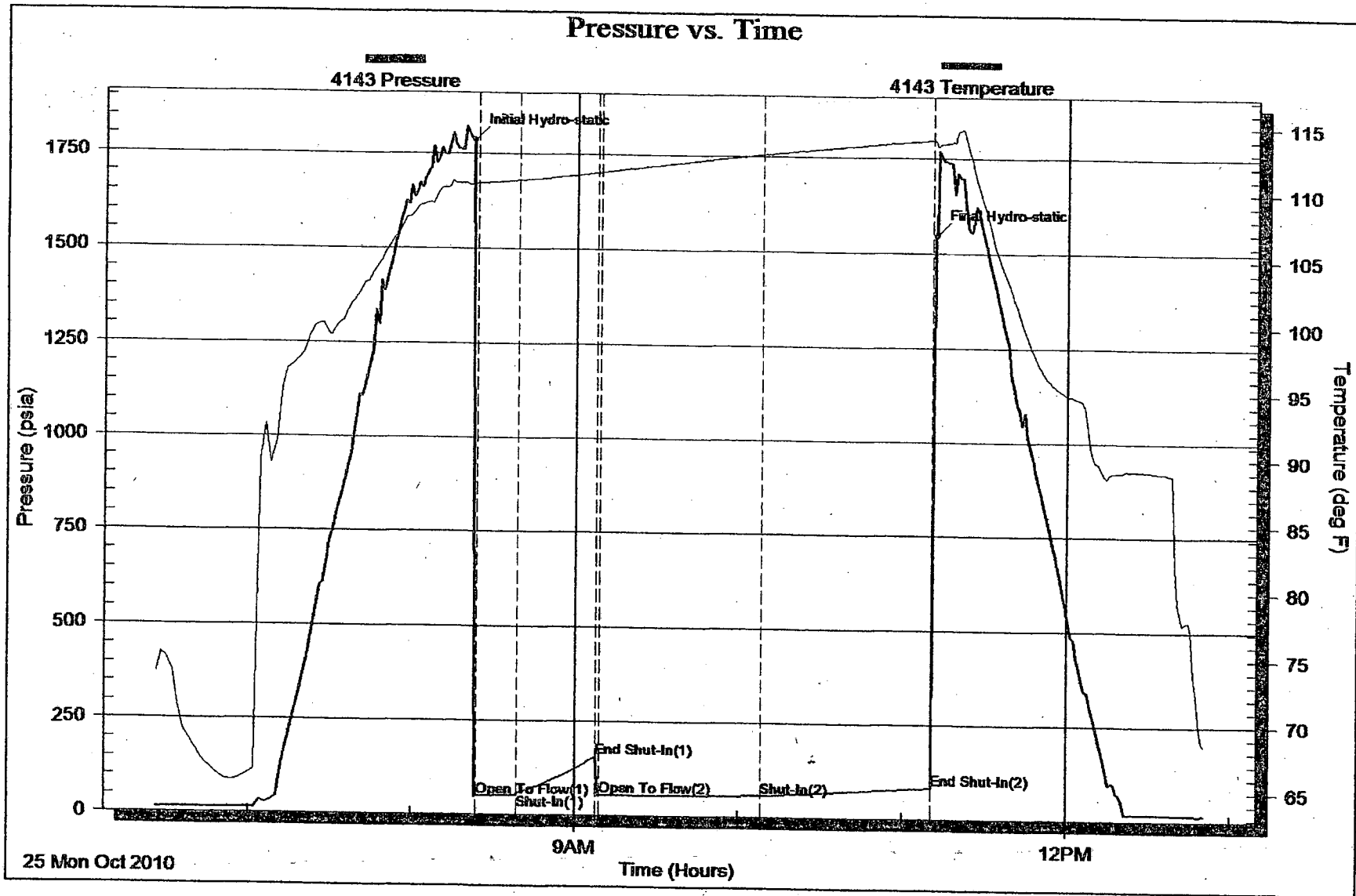
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

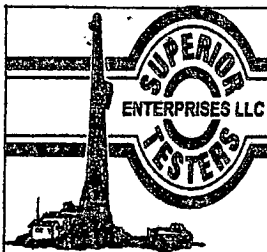
Laboratory Name:      Laboratory Location:

Recovery Comments:









# DRILL STEM TEST REPORT

James B. Reading Operating, Inc.

Locke #1

P.O. Box 638  
Ardmore Okalhorra 73402+0638

19/25S/8W Reno

Job Ticket: 15708 DST#: 2

ATTN: Randy Voth

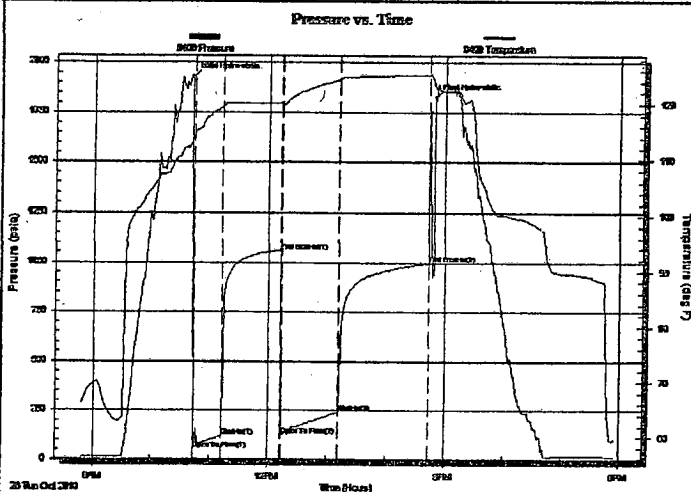
Test Start: 2010.10.26 @ 08:47:00

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:43:00  
 Time Test Ended: 17:56:30  
 Interval: **3827.00 ft (KB) To 3835.00 ft (KB) (TVD)**  
 Total Depth: **3835.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dylan E Ellis  
 Unit No: 3345-Great Bend-150  
 Reference Elevations: 1612.00 ft (KB)  
 1603.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8400** Outside  
 Press@RunDepth: 241.03 psia @ 3837.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.10.26 End Date: 2010.10.26 Last Calib.: 2010.10.26  
 Start Time: 08:47:00 End Time: 17:56:30 Time On Btm: 2010.10.26 @ 10:41:00  
 Time Off Btm: 2010.10.26 @ 14:49:30

**TEST COMMENT:** 1ST Opening 30 Minutes strong blow/blow blew to bottom of bucket of water in 6 minutes bled off and blow came back to blow at the bottom of bucket of water in 6 minutes  
 1ST Shut-In 60 Minutes yes blow back/bled off and it blew 2.50 inches into water  
 2ND Opening 60 Minutes strong blow/blow blew to bottom of bucket of water in 2 minutes/bled off and blow to bottom



## PRESSURE SUMMARY

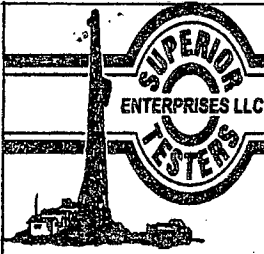
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1923.69	113.33	Initial Hydro-static
2	51.80	114.67	Open To Flow (1)
31	121.00	119.55	Shut-In(1)
91	1058.01	120.25	End Shut-In(1)
92	124.61	119.82	Open To Flow (2)
151	241.03	124.43	Shut-In(2)
243	995.74	125.21	End Shut-In(2)
249	1825.18	123.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	Water 100%	2.27
120.00	Water with a Skim of Oil	1.68
0.00	Oil 2% Water 98%	0.00
60.00	Slightly Oil cut Muddy Water	0.84
0.00	Oil 3% Mud 20% Water 77%	0.00
30.00	Oilly cut Muddy Water	0.42

## Gas Rates

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



# DRILL STEM TEST REPORT

James B. Reading Operating, Inc.

Locke #1

P.O. Box 638  
Ardmore Oklahoma 73402+0638

19/25S/8W Reno

Job Ticket: 15708      DST#: 2

ATTN: Randy Voth

Test Start: 2010.10.26 @ 08:47:00

## GENERAL INFORMATION:

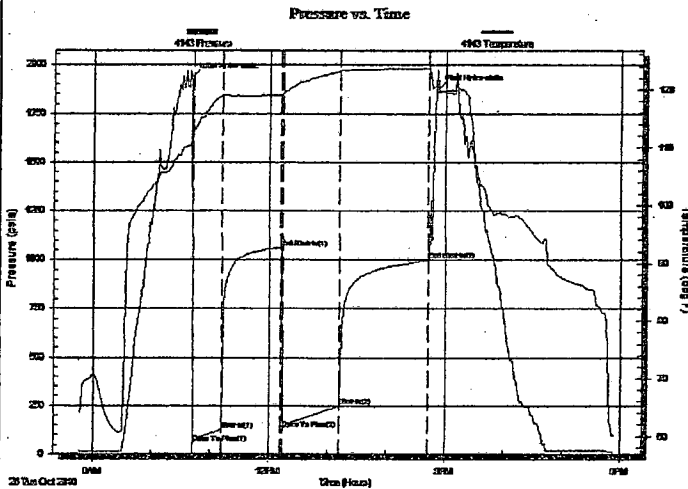
Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:43:00  
 Time Test Ended: 17:56:30  
 Interval: **3827.00 ft (KB) To 3835.00 ft (KB) (TVD)**  
 Total Depth: 3835.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dylan E Ellis  
 Unit No: 3345-Great Bend-150  
 Reference Elevations: 1612.00 ft (KB)  
 1603.00 ft (CF)  
 KB to GR/CF: 9.00 ft

## Serial #: 4143

Inside

Press@RunDepth: 999.53 psia @ 3836.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2010.10.26      End Date: 2010.10.26      Last Calib.: 2010.10.26  
 Start Time: 08:47:00      End Time: 17:54:45      Time On Btm: 2010.10.26 @ 10:40:46  
 Time Off Btm: 2010.10.26 @ 14:51:46

TEST COMMENT: 1ST Opening 30 Minutes strong blow/blow blew to bottom of bucket of water in 6 minutes bled off and blow came back to blow at the bottom of bucket of water in 6 minutes  
 1ST Shut-In 60 Minutes yes blow back/bled off and it blew 2.50 inches into water  
 2ND Opening 60 Minutes strong blow/blow blew to bottom of bucket of water in 2 minutes/bled off and blow to bottom



## PRESSURE SUMMARY

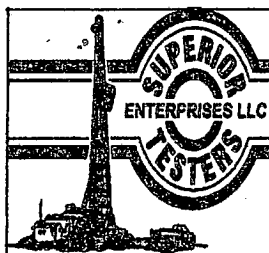
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1932.90	110.95	Initial Hydro-static
3	57.58	112.91	Open To Flow (1)
31	126.06	118.94	Shut-In(1)
91	1062.34	118.98	End Shut-In(1)
93	132.46	119.27	Open To Flow (2)
152	248.00	123.15	Shut-In(2)
242	999.53	123.61	End Shut-In(2)
251	1878.31	119.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	Water 100%	2.27
120.00	Water with a Skirm of Oil	1.68
0.00	Oil 2% Water 98%	0.00
60.00	Slightly Oil cut Muddy Water	0.84
0.00	Oil 3% Mud 20% Water 77%	0.00
30.00	Oilly cut Muddy Water	0.42

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

James B. Reading Operating, Inc.

Locke #1

P.O. Box 638  
Ardmore Oklahoma 73402+0638

19/25S/8W Reno

Job Ticket: 15708

DST#: 2

ATTN: Randy Voth

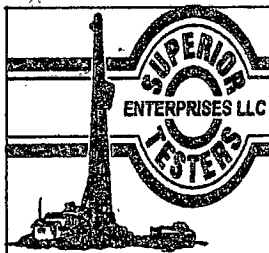
Test Start: 2010.10.26 @ 08:47:00

## Tool Information

Drill Pipe:	Length: 3688.00 ft	Diameter: 3.80 inches	Volume: 51.73 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: 20000.00 lb
Drill Collar:	Length: 120.91 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 52.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.91 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3827.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3804.00	
Shut-In Tool	5.00			3809.00	
Hydroic Tool	5.00			3814.00	
Jars	6.00			3820.00	
Safety Joint	2.00			3822.00	
Packer	5.00			3827.00	24.00 Bottom Of Top Packer
Packer Shale	5.00			3832.00	
Perforations	3.00			3835.00	
Recorder	1.00	4143	Inside	3836.00	
Recorder	1.00	8400	Outside	3837.00	
Bullnose	3.00			3840.00	13.00 Anchor Tool
<b>Total Tool Length:</b>	<b>37.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

James B. Reading Operating, Inc.

Locke #1

P.O. Box 638  
Ardmore Oklahoma 73402+0638

19/25S/8W Reno

Job Ticket: 15708

DST#: 2

ATTN: Randy Voth

Test Start: 2010.10.26 @ 08:47:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 60.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psia

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Water 100%	2.265
120.00	Water with a Skim of Oil	1.683
0.00	Oil 2% Water 98%	0.000
60.00	Slightly Oil cut Muddy Water	0.842
0.00	Oil 3% Mud 20% Water 77%	0.000
30.00	Oily cut Muddy Water	0.421
0.00	Oil 40% Mud 30% Water 30%	0.000
0.00	Resistivity .20 @ 76 Degrees	0.000
0.00	Chlorides were 62,000.0	0.000

Total Length: 450.00 ft      Total Volume: 5.211 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

