



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1196754  
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: \_\_\_\_\_

1196754

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 <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  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
<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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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 <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	Driscoll Heirs 5
Doc ID	1196754

All Electric Logs Run

Micro-log
BHC Sonic
DIL
CDL/CNL
CBL - TOC - 2210'

Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	Driscoll Heirs 5
Doc ID	1196754

Tops

Name	Top	Datum
Anhydrite	729	+1162
Base Anhydrite	758	+1133
Topeka	2662	-771
Heebner	2943	-1052
Toronto	2959	-1068
Douglas	2971	-1080
Brown Lime	3034	-1143
Lansing	3050	-1159
Base Kansas City	3311	-1420
Arbuckle	3350	-1429

# 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. 7617

Date	12-9-13	Sec.	31	Twp.	15	Range	11	County	Russell	State	KS	On Location	2.00pm	Finish	8.15	
Lease	Lip Driscoll Heirs							Well No.	5	Owner	Debuque 1 1/2 E 1/2 N Winto					
Contractor	Minnesota							101	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	long string							Charge To								
Hole Size	7 7/8							T.D.	3525	EMPIRE ENERGY						
Csg.	5 1/2							Depth	3515	Street						
Tbg. Size								Depth		City						
Tool								Depth		State						
Cement Left in Csg.	42.13							Shoe Joint	42.13	The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line	M.S.#							Displace	82.5 BBL	Cement Amount Ordered 200sx Q proc						
EQUIPMENT									10% Salt + 5% gilsonite Xiflow							
Pumptrk	15	No.		Cementer/Helper	Matt				Common 200							
Bulktrk	9	No.		Driver	Nick				Poz. Mix							
Bulktrk	pu	No.		Driver	Chad				Gel.							
JOB SERVICES & REMARKS									Calcium							
Remarks:										Watts flowseal 50#						
Rat Hole	30 SHS									Salt 17						
Mouse Hole	20 SHS									Flowseal KCL 2 gal						
Centralizers	1, 3, 5, 7, 9, 11, 13, 15, 17, 19									Kol-Seal 1000 #						
Baskets	11									Mud CLR 48 500 gal						
D/V or Port Collar										CFL-117 or CD110 CAF 38						
Dropped Ball Circulate									Sand							
1 hour Run 20 B of HCL									Handling 227							
10 of mud plus plugged									Mileage							
Run and mouse hole									5 1/2							
mixed 150 down									FLOAT EQUIPMENT							
hole displaced 82.5									Guide Shoe							
of Waste with HCL									Centralizer							
Lift 800 PSI									tubos 10							
Land 1600 PSI									Baskets							
									AFM Inserts							
									Float Shoe							
									Latch Down							
									Dc Pflc							
									Pumptrk Charge							
									Mileage 26							
									procl long string							
									Tax							
									Discount							
									Total Charge							
Signature <i>[Handwritten Signature]</i>																

# 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. 7658

Date <u>12-4-13</u>	Sec. <u>31</u>	Twp. <u>15</u>	Range <u>11</u>	County <u>Russell</u>	State <u>KS</u>	On Location	Finish <u>7:30 AM</u>
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Lease Driscoll Heins Well No. 5 Location Dubuque 1 1/2 E, 1/2 N, Wn 2

Contractor To Quality Oilwell Cementing, Inc.  
Owner 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 Empire Energy E&P, LLC

Hole Size 12 1/4 T.D. 735  
Street P.O. Box 548

Csg. 8 5/8 Depth 735.15  
City Great Bend State KS

Tbg. Size \_\_\_\_\_ Depth \_\_\_\_\_  
The above was done to satisfaction and supervision of owner agent or contractor.

Tool \_\_\_\_\_ Depth \_\_\_\_\_

Cement Left in Csg. \_\_\_\_\_ Shoe Joint 42.16  
Cement Amount Ordered 350 sx com 3% cc 2% gel

Meas Line \_\_\_\_\_ Displace 44661

**EQUIPMENT**

Pumptrk <u>18</u> No. <u>Cementer</u>	Common <u>350</u>
_____ No. <u>Helper</u> <u>Cody</u>	Poz. Mix _____
Bulktrk _____ No. <u>Driver</u> <u>David</u>	Gel. <u>7</u>
Bulktrk <u>PU</u> No. <u>Driver</u> <u>Travis</u>	Calcium <u>13</u>

**JOB SERVICES & REMARKS**

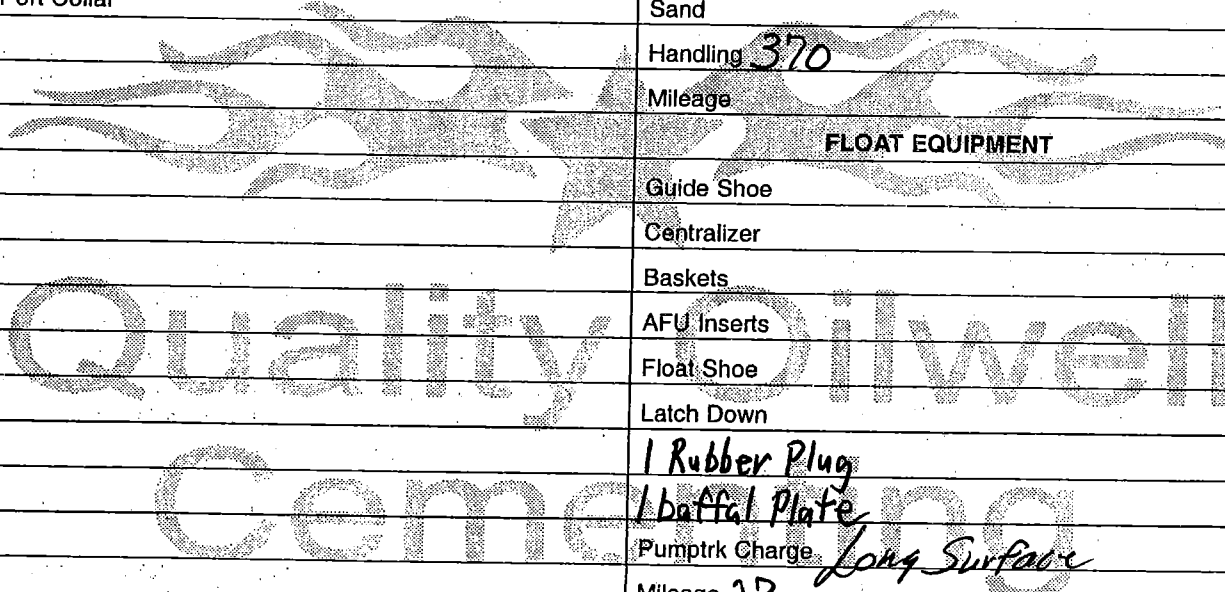
Remarks: <u>Cement did circulate</u>	Hulls _____
Rat Hole _____	Salt _____
Mouse Hole _____	Flowseal _____
Centralizers _____	Kol-Seal _____
Baskets _____	Mud CLR 48 _____
D/V or Port Collar _____	CFL-117 or CD110 CAF 38 _____
_____	Sand _____
_____	Handling <u>370</u>
_____	Mileage _____

**FLOAT EQUIPMENT**

Guide Shoe _____
Centralizer _____
Baskets _____
AFU Inserts _____
Float Shoe _____
Latch Down _____
<u>1 Rubber Plug</u>
<u>1 baffal plate</u>
Pumptrk Charge <u>Long Surface</u>
Mileage <u>27</u>

Tax _____
Discount _____
Total Charge _____

X Signature James Faust





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Empire Energy E&P llc  
345 Riverside st STE 540  
Wichita, ks 67203  
ATTN: Kurt Talbot

**31-15S-11W**  
**Driscall Heirs #5**  
Job Ticket: 54350      **DST#: 1**  
Test Start: 2013.12.07 @ 23:32:23

## GENERAL INFORMATION:

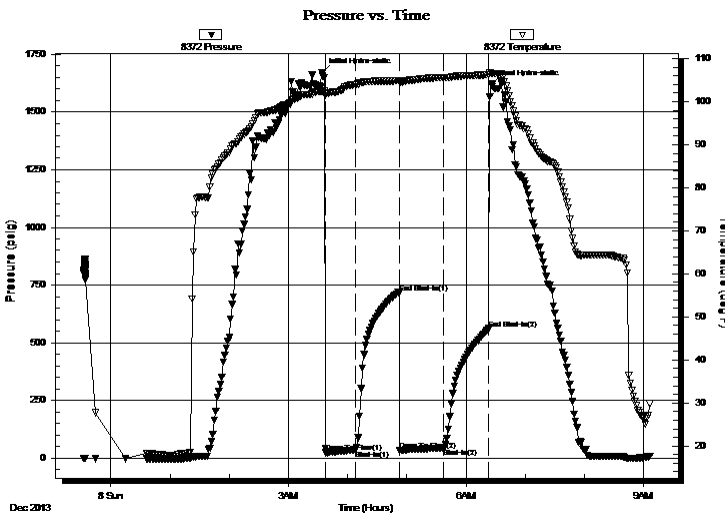
Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 03:37:53  
Time Test Ended: 09:06:53  
Interval: **3298.00 ft (KB) To 3361.00 ft (KB) (TVD)**  
Total Depth: 3361.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Tim Phillips  
Unit No: 68  
Reference Elevations: 1891.00 ft (KB)  
1878.00 ft (CF)  
KB to GR/CF: 13.00 ft

## Serial #: 8372

Press @ Run Depth: 42.07 psig @ ft (KB) Capacity: 8000.00 psig  
Start Date: 2013.12.07 End Date: 2013.12.08 Last Calib.: 2013.12.08  
Start Time: 23:32:24 End Time: 09:06:53 Time On Btm: 2013.12.08 @ 03:33:53  
Time Off Btm: 2013.12.08 @ 06:25:53

TEST COMMENT: IFP-30-Medium blow built to 4.25 in  
ISI-45-No blow back  
FF-45-Built to 3 in  
FSI-45-No blow back

## PRESSURE SUMMARY



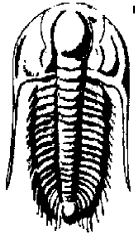
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1672.35	102.40	Initial Hydro-static
4	22.89	101.98	Open To Flow (1)
34	32.40	103.96	Shut-In(1)
79	717.43	104.87	End Shut-In(1)
79	33.30	104.54	Open To Flow (2)
123	42.07	105.59	Shut-In(2)
169	560.50	106.26	End Shut-In(2)
172	1619.47	106.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	100% Oil	0.84
5.00	OCM 10%O, 90% M	0.07

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Empire Energy E&P llc  
 345 Riverside st STE 540  
 Wichita, ks 67203  
 ATTN: Kurt Talbot

**31-15S-11W**

**Driscall Heirs #5**

Job Ticket: 54350

**DST#: 1**

Test Start: 2013.12.07 @ 23:32:23

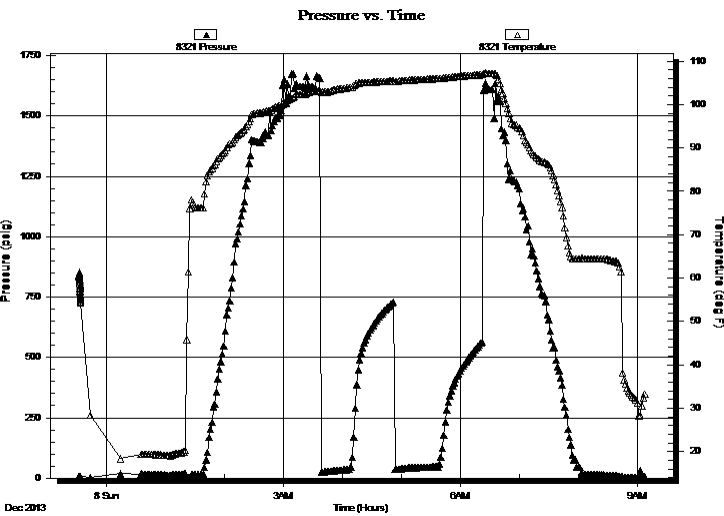
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:37:53  
 Time Test Ended: 09:06:53  
 Interval: **3298.00 ft (KB) To 3361.00 ft (KB) (TVD)**  
 Total Depth: 3361.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Tim Phillips  
 Unit No: 68  
 Reference Elevations: 1891.00 ft (KB)  
 1878.00 ft (CF)  
 KB to GR/CF: 13.00 ft

## Serial #: 8321

Press @ Run Depth: psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.12.07 End Date: 2013.12.08 Last Calib.: 2013.12.08  
 Start Time: 23:32:03 End Time: 09:07:02 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IFP-30-Medium blow built to 4.25 in  
 ISI-45-No blow back  
 FF-45-Built to 3 in  
 FSI-45-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	100% Oil	0.84
5.00	OCM 10%O, 90% M	0.07

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Empire Energy E&P llc

**31-15S-11W**

345 Riverside st STE 540  
Wichita, ks 67203

**Driscal Heirs #5**

Job Ticket: 54350

**DST#: 1**

ATTN: Kurt Talbot

Test Start: 2013.12.07 @ 23:32:23

## 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: 54.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	100% Oil	0.842
5.00	OCM 10%O, 90% M	0.070

Total Length: 65.00 ft      Total Volume: 0.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

