

10/26/09

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL Form ACO-1  
October 2008  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33335  
Name: IA Operating, Inc.  
Address 1: 9915 W. 21st Street, Ste B  
Address 2: \_\_\_\_\_  
City: Wichita State: KS Zip: 67205 + \_\_\_\_\_  
Contact Person: Robert D. Swann  
Phone: ( 316 ) 721-0036  
CONTRACTOR: License # 30606  
Name: Murfin Drilling Co., Inc.  
Wellsite Geologist: Randall Kilian  
Purchaser: None  
Designate Type of Completion:  
\_\_\_\_ New Well \_\_\_\_ Re-Entry \_\_\_\_ Workover  
\_\_\_\_ Oil \_\_\_\_ SWD \_\_\_\_ SLOW  
\_\_\_\_ Gas \_\_\_\_ ENHR \_\_\_\_ SIGW  
\_\_\_\_ CM (Coal Bed Methane) \_\_\_\_ Temp. Abd.  
 Dry \_\_\_\_ Other \_\_\_\_\_  
(Core, WSW, Expl., Cathodic, 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: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
\_\_\_\_ Commingled Docket No.: \_\_\_\_\_  
\_\_\_\_ Dual Completion Docket No.: \_\_\_\_\_  
\_\_\_\_ Other (SWD or Enhr.?) Docket No.: \_\_\_\_\_  
09/03/09      09/08/09      09/08/09  
Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date                Recompletion Date

API No. 15 - 039-21079-00-00  
Spot Description: \_\_\_\_\_  
SE NW SW Sec. 21 Twp. 4 S. R. 26  East  West  
1420 Feet from  North /  South Line of Section  
1250 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Decatur  
Lease Name: Melisa Abbie Unit Well #: 21-1  
Field Name: Wildcat  
Producing Formation: None  
Elevation: Ground: 2533' Kelly Bushing: 2538'  
Total Depth: 3774' Plug Back Total Depth: 3774'  
Amount of Surface Pipe Set and Cemented at: 221' 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 P+A AH II NR  
(Data must be collected from the Reserve Pit) 11-6-09  
Chloride content: 6000 ppm Fluid volume: 400 bbls  
Dewatering method used: Evaporation/Backfill  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**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.

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: Robert D. Swann  
Title: Vice President Date: 10-23-09  
Subscribed and sworn to before me this 23 day of October,  
2009.  
Notary Public: Julie Burrows  
Date Commission Expires: March 19, 2013

KCC Office Use ONLY  
 Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
UIC Distribution  
**RECEIVED**  
**OCT 26 2009**

JULIE BURROWS  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appt. Exp. 3-19-12

KCC WICHITA

Operator Name: IA Operating, Inc. Lease Name: Melisa-Abbie Unit Well #: 21-1  
 Sec. 21 Twp. 4 S. R. 26  East  West County: Decatur

**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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run: <b>Geologist's Well Report, Micro Log, Compensated Density Neutron Log, Dual Induction Log</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input 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>Anhydrite</td> <td>2124'</td> <td>+414</td> </tr> <tr> <td>Topeka</td> <td>3321'</td> <td>-783</td> </tr> <tr> <td>Heebner Shale</td> <td>3495'</td> <td>-957</td> </tr> <tr> <td>Toronto</td> <td>3524'</td> <td>-986</td> </tr> <tr> <td>Base Kansas City</td> <td>3728'</td> <td>-1190</td> </tr> <tr> <td>Total Depth</td> <td>3753'</td> <td>-1215</td> </tr> </table>	Name	Top	Datum	Anhydrite	2124'	+414	Topeka	3321'	-783	Heebner Shale	3495'	-957	Toronto	3524'	-986	Base Kansas City	3728'	-1190	Total Depth	3753'	-1215
Name	Top	Datum																				
Anhydrite	2124'	+414																				
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Toronto	3524'	-986																				
Base Kansas City	3728'	-1190																				
Total Depth	3753'	-1215																				

CASING RECORD <input checked="" 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"	23#	221'	Common	150	3%CC, 2%gel

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		60/40 Poz	220	4% gel, 1/4# flo-seal

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

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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

<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 <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

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

No. 3508

Date	Sec.	Twp.	Range	County	State	On Location	Finish
Lease <i>Melissa</i>		Well No.		Location			
Contractor <i>Apke</i>				Owner			
Type Job				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.			
Hole Size		T.D.		Charge To			
Csg.		Depth		To			
Tbg. Size		Depth		Street			
Drill Pipe		Depth		City		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint		<b>CEMENT</b>			
Press Max.		Minimum		Amount Ordered			
Meas Line		Displace		Common		<i>150 @ 14.00</i>	
Perf.				Poz. Mix			
<b>EQUIPMENT</b>				Gel.		<i>3 @ 17.00</i>	
Pumptrk		No. Cementer Helper		Calcium		<i>5 @ 42.00</i>	
Bulktrk		No. Driver		Mills		<i>210.00</i>	
Bulktrk		No. Driver		Salt			
<b>JOB SERVICES &amp; REMARKS</b>				Flowseal			
Pumptrk Charge		<i>SFC</i>		<i>500.00</i>			
Mileage		<i>36 @ 6.00</i>		<i>216.00</i>			
Footage							
		Total		<i>716.00</i>			
Remarks:				Handling		<i>158 @ 2.00</i>	
				Mileage		<i>.05 x 158 x 36</i>	
				Pump Truck Charge		<i>716.00</i>	
<b>FLOAT EQUIPMENT</b>							
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				<b>RECEIVED</b>		<i>69.00</i>	
				<b>OCT 26 2009</b>			
				<b>KCC WICHITA</b>			
				Rotating Head			
				Squeez Mainfold			
X Signature						Tax	
						Discount	
						Total Charge	
						<i>124.36</i>	
						<i>(753.00)</i>	
						<i>3288.40</i>	

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

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

No. 3798

21 4 26

Date	9-8-09	Sec.	<del>20</del>	Twp.	<del>9</del>	Range	<del>20</del>	County	Decatur	State	KS	On Location		Finish	7:30am
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Lease	Mesa Abbie	Well No.	21-1	Location	Alison 8N E1ND
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Contractor	Murkin # 8	Owner	To Quality Oilwell Cementing, Inc.
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Type Job	Battery plug	T.D.	3774	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
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Hole Size	7 7/8	Depth		Charge To	FA Operating
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Pipe	4 1/2 x hole	Depth		Street	
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Tbg. Size		Depth		City	State
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Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
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Cement Left in Csg.	Shoe Joint	CEMENT 1/4lb Flo			
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Meas Line	Displace	Amount Ordered	220 @ 40 40 gel
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EQUIPMENT		Common	132 @ 14.00
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Pumptrk	1	No.		Driver	Brandon	Poz. Mix	88 @ 6.00
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Bulktrk	8	No.		Driver	Blair	Gel.	7 @ 17.00
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Bulktrk	PH	No.		Driver	Rocky	Calcium	
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JOB SERVICES & REMARKS		Hulls	
------------------------	--	-------	--

Remarks:		Salt	
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2 1/2" plug @ 2140'	mix 255x	Flowseal	55 # @ 2.00
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" " " 1350'	" " 100x		
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" " " 270'	" " 40x		
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" " " 40'	" " 10x		
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Bar hole	30x	Handling	227 @ 2.00
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Mouse hole	15x	Mileage	84 500.00
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FLOAT EQUIPMENT  
OCT 26 2009

Guide Shoe			
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Centralizer		KCC WICHITA	
-------------	--	-------------	--

Baskets			
---------	--	--	--

AFU Inserts			
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PT wood plug			45.00
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Thank You!

Pumptrk Charge	PTA		550.00
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Mileage	36 @ 6.00		
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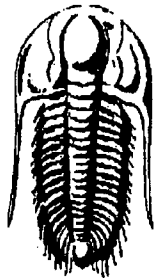
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		Tax	
--	--	-----	--

		Discount	
--	--	----------	--

X Signature	Larry Pickner	Total Charge	
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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc.**

9915 w  
21st. st. N  
Wichita Ks. 67205

ATTN: Randy Killian

**21 4s 26w Decatur KS**

**Melisa-Abbie Unit 21-1**

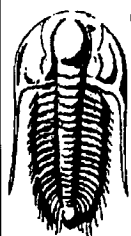
Start Date: 2009.09.06 @ 19:00:00

End Date: 2009.09.07 @ 00:43:30

Job Ticket #: 3589                      DST #: 1

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OCT 26 2009  
KCC WICHITA

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

IA Operating Inc.

Melisa-Abbie Unit 21-1

9915 w  
21st. st. N  
Wichita Ks. 67205  
ATTN: Randy Killian

21 4s 26w Decatur KS  
Job Ticket: 3589      DST#: 1  
Test Start: 2009.09.06 @ 19:00:00

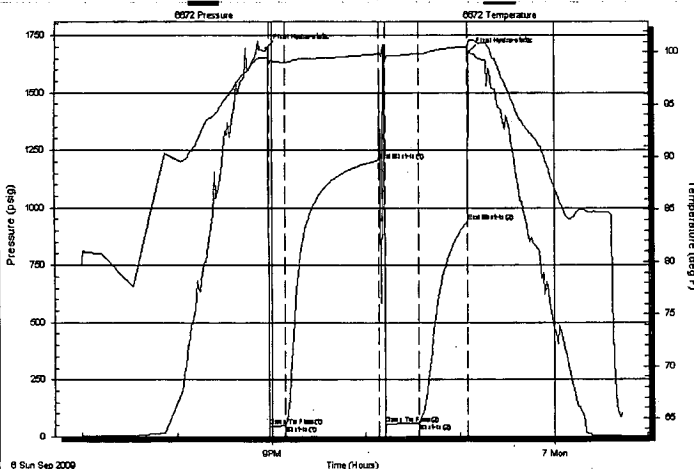
## GENERAL INFORMATION:

Formation: **LKC-C-D**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **20:58:30** Tester: **Chuck Kreutzer**  
 Time Test Ended: **00:43:30** Unit No: **36**  
 Interval: **3553.00 ft (KB) To 3590.00 ft (KB) (TVD)** Reference Elevations: **2538.00 ft (KB)**  
 Total Depth: **3590.00 ft (KB) (TVD)** **2533.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **5.00 ft**

**Serial #: 6672** Inside  
 Press@RunDepth: **59.89 psig @ 3557.00 ft (KB)** Capacity: **7000.00 psig**  
 Start Date: **2009.09.06** End Date: **2009.09.07** Last Calib.: **2009.09.07**  
 Start Time: **19:00:05** End Time: **00:43:29** Time On Btrm:  
 Time Off Btrm: **2009.09.06 @ 20:57:00**

**TEST COMMENT:** IF:Sled 5 ft. Weak blow 1 in. started to Die after 1 min, dead after 5 mins.  
 IS: No blow back over 60 mins.  
 FF: Flush tool, weak surface blow, dead after 1min.  
 FSI: No blow back over 30 mins.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.61	99.50	Final Hydro-static
2	44.42	98.76	Open To Flow (1)
12	49.32	99.02	Shut-In(1)
72	1205.96	99.81	End Shut-In(1)
76	53.76	99.04	Open To Flow (2)
97	59.89	99.81	Shut-In(2)
128	940.67	100.53	End Shut-In(2)
130	1676.76	101.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	ocm-5%o95%m	0.32

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

IA Operating Inc.

**Melisa-Abbie Unit 21-1**

9915 w  
21st. st. N  
Wichita Ks. 67205  
ATTN: Randy Killian

**21 4s 26w Decatur KS**  
Job Ticket: 3589      **DST#: 1**  
Test Start: 2009.09.06 @ 19:00:00

**Tool Information**

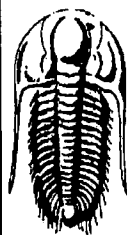
Drill Pipe:	Length: 3358.00 ft	Diameter: 3.80 inches	Volume: 47.10 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 47.98 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3553.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3530.00	
Hydraulic tool	5.00			3535.00	
Jars	5.00			3540.00	
Safety Joint	3.00			3543.00	
Packer	5.00			3548.00	28.00 Bottom Of Top Packer
Packer	5.00			3553.00	
Stubb	1.00			3554.00	
Perforations	3.00			3557.00	
Recorder	0.00	6672	Inside	3557.00	
Recorder	0.00	6752	Inside	3557.00	
Perforations	30.00			3587.00	
Bullnose	3.00			3590.00	37.00 Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

IA Operating Inc.

**Melisa-Abbie Unit 21-1**

9915 w  
21st. st. N  
Wichita Ks. 67205  
ATTN: Randy Killian

**21 4s 26w Decatur KS**  
Job Ticket: 3589      **DST#: 1**  
Test Start: 2009.09.06 @ 19:00:00

## 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	ocm-5%o95%m	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



