

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
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

8/26/12

OPERATOR: License # 4787  
Name: TDI, Inc  
Address 1: 1310 Bison Road  
Address 2:  
City: Hays State: KS Zip: 67601 + 9696  
Contact Person: Tom Denning  
Phone: (785) 628-2593  
CONTRACTOR: License # 5184  
Name: Shields Oil Producers, Inc.  
Wellsite Geologist: Herb Deines  
Purchaser: Coffeyville IResources

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 #:

06/15/2010 06/21/2010 07/26/2010  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 051-25986-00-00  
Spot Description:  
SW NE NW SE Sec. 20 Twp. 14 S. R. 16  East  West  
2,290 Feet from  North /  South Line of Section  
1,760 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Ellis  
Lease Name: Schmidtberger Well #: 1  
Field Name: wildcat  
Producing Formation: Kansas City  
Elevation: Ground: 1879' Kelly Bushing: 1884'  
Total Depth: 3499' Plug Back Total Depth: 3406  
Amount of Surface Pipe Set and Cemented at: 237 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 1016 Feet  
If Alternate II completion, cement circulated from: 1016  
feet depth to: surface w/ 80 sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 46,000 ppm Fluid volume: 1,000 bbls  
Dewatering method used: evaporation  
Location of fluid disposal if hauled offsite:  
Operator Name: TDI, Inc.  
Lease Name: Drilling B License #: 4787  
Quarter SW/4 Sec. 22 Twp. 14 S. R. 16  East  West  
County: Ellis Permit #: D25112

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: President Date: 08/26/2010

KCC Office Use ONLY

Letter of Confidentiality Received  
Date: 8/26/10 - 8/26/12  
 Confidential Release Date:  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: [Signature] Date: 9-3-10

RECEIVED  
AUG 30 2010  
KCC WICHITA

Operator Name: TDI, Inc Lease Name: Schmidtberger Well #: 1 KCC  
AUG 24 2010  
 Sec. 20 Twp. 14 S. R. 16  East  West County: Ellis

**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 <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 Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: Dual Compensated Porosity Dual Induction Microresistivity	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>1009'</td> <td>+875'</td> </tr> <tr> <td>Topeka</td> <td>2877'</td> <td>-993'</td> </tr> <tr> <td>Heebner</td> <td>3095'</td> <td>-1211'</td> </tr> <tr> <td>Lansing/Kansas City</td> <td>3147'</td> <td>-1263'</td> </tr> <tr> <td>Base Kansas City</td> <td>3367'</td> <td>-1483'</td> </tr> <tr> <td>Arbuckle</td> <td>3397'</td> <td>-1506'</td> </tr> <tr> <td>Total Depth</td> <td>3499'</td> <td>-1615'</td> </tr> </tbody> </table>	Name	Top	Datum	Anhydrite	1009'	+875'	Topeka	2877'	-993'	Heebner	3095'	-1211'	Lansing/Kansas City	3147'	-1263'	Base Kansas City	3367'	-1483'	Arbuckle	3397'	-1506'	Total Depth	3499'	-1615'
Name	Top	Datum																							
Anhydrite	1009'	+875'																							
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Arbuckle	3397'	-1506'																							
Total Depth	3499'	-1615'																							

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"	20#	237'	60/40 POZ	160 SXS	3%CC 2% GEL
production	7 7/8"	5 1/2"	14#	3494'	EA-2	150 SXS	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	1016'	SMD	80SXS	(circulated cement to surface)

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
4spf	3483'-85', 3426'-28', 3420'-22', 3410'-12' Bridge Plug @ 3406'		
4 spf	3397'-99'	100 gal 15% MA	
2 spf	3323'-25', 3315'-18'	500 gal 15% MA	

TUBING RECORD: Size: <u>2 7/8"</u> Set At: <u>3400'</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR: <u>08/12/2010</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. <u>50</u>	Gas Mcf <u>3</u> Water Bbls. <u>38</u> Gas-Oil Ratio _____ Gravity _____

DISPOSITION OF GAS: <input checked="" 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 checked="" 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: <u>3323'-3318' (Kansas City)</u>
--	--	--

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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AUG 30 2010  
KCC WICHITA

# ALLIED CEMENTING CO., LLC. 041630

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

SERVICE POINT:  
Russell KS

DATE <u>6-15-10</u>	SEC. <u>20</u>	TWP. <u>14</u>	RANGE <u>16</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00pm</u>	JOB FINISH <u>11:30pm</u>
Schmidtberger LEASE		WELL #1	LOCATION <u>Vincent Rd 2 3/4 South West</u>		COUNTY <u>Ellis</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			Intro				

CONTRACTOR Shields Drilling Rig #1

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 237'

CASING SIZE 8 5/8 DEPTH 239'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15'

PERFS. \_\_\_\_\_

DISPLACEMENT 14.13 Bbl

EQUIPMENT \_\_\_\_\_

PUMP TRUCK # 417 CEMENTER John Roberts  
HELPER Shane

BULK TRUCK # 473 DRIVER Roh

BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED 160 0940 31 cc 21 Gal

COMMON	<u>100</u>	@ <u>13.50</u>	<u>1350.00</u>
POZMIX	<u>60</u>	@ <u>7.55</u>	<u>453.00</u>
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>80</u>	@ <u>2.25</u>	<u>180.00</u>
MILEAGE	<u>10 5/16 mi</u>		<u>80.00</u>
TOTAL			<u>2381.25</u>

REMARKS:

Est. Circulation

Mix 160 sk cement

Displace Plug w/ 14.13 Bbl H<sub>2</sub>O

Cement Did Circulate!  
Thank You!

CHARGE TO: TDI Inc.

STREET \_\_\_\_\_

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

SERVICE

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_ 991.00

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE 10 @ 7.00 70.00

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL 1061.00

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_

8 1/2 Wooden Plug @ \_\_\_\_\_ N-C

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL N-C

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 J Engel

SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES [Redacted]

DISCOUNT [Redacted] IF PAID IN 30 DAYS

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JOB LOG

SWIFT Services, Inc.

DATE 6-28-10 PAGE NO. 1

CUSTOMER TDE WELL NO. A #1 LEASE Schmidtberger JOB TYPE Cement D.V. Longstrig TICKET NO. 17676

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD-3500	DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING		
6/20	2350								On location with F.E. Rig LD D.C.
6/21	0150								Start 5 1/2" 14#/ft casing to 3497'
									Insert float shoe w/ Auto RLL
									LD-Baffle - 55 - 43' - First 3 1/2' out
									Cent #4 - 6-8-10-12-14-60-75
									Baskets JT # 5 - 15 - 61 - 76
									D.V. #61 @ 1015'
	0330								Drop Ball - 60ts out
									Tag bottom + Laydown JT.
	0340								start cir / Rotate casing
	0400								1 1/2" cir - Hook to Swift Ark - Take on mud
		5 1/2	12						Start 500 gal mud flush
		5 1/2	20						Pump 20 BBL KCL flush
		5							250 Start 150 SKS EM-2 Cent.
	0425		36						Var Fin cent - Washout Pump Lines
	0428	8 1/2							200 Drop Plug - Start Displ - Free H <sub>2</sub> O (60 BBL)
		9	60						300 Caught press - Start Mud Displ (25 BBL)
		5	80						500 Slow rate
	0440		8 1/4						700 Plug Down - Hold - Release & Retard
			7						Drop D.V. opening tool - Plug RH 30 SKS
			5						Plug LH 15 SKS
	0455								1100 Open D.V. - with KCL flush
		6	20						Pump 20 BBL KCL flush
		5							200 Start 80 SKS 5140 @ 11.2
	0520		45						Var Fin cent. - Drop D.V. closing Plug
	0523	5							200 Start Displ - 24 1/4 BBL
		5	15						300 Caught Press
	0528		24 1/4						1500 Plug Down - D.V. closed - Release ok
									Job Complete
									20 SKS cent cir to surface
									Wash up + Rekey

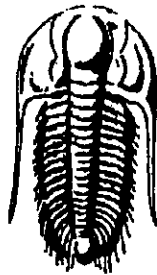
*[Handwritten signature]*

Don, Doug & Shane

RECEIVED

AUG 30 2010

KCC WICHITA



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd  
Hays KS 67601

ATTN: Tom Denning

**20-14-16-Ellis KS**

**Schmidtberger # 1**

Start Date: 2010.06.20 @ 09:05:59

End Date: 2010.06.20 @ 16:19:44

Job Ticket #: 38982                      DST #: 1

XCC  
AUG 23 2010  
CONFIDENTIAL

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

Printed: 2010.07.01 @ 14:43:07 Page 1

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AUG 30 2010

KCC WICHITA

TDI Inc

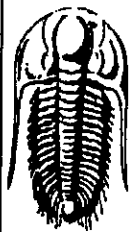
Schmidtberger # 1

20-14-16-Ellis KS

DST # 1

J-K / Arbuckle

2010.06.20



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TDI Inc  
1310 Bison Rd  
Hays KS 67601  
ATTN: Tom Denning

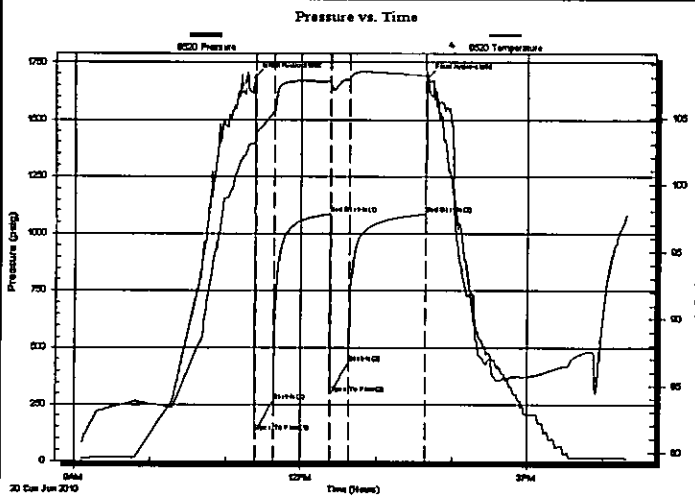
**Schmidtberger # 1**  
**20-14-16-Elilis KS**  
Job Ticket: 38982      DST#: 1  
Test Start: 2010.06.20 @ 09:05:59

### GENERAL INFORMATION:

Formation: **J-K / Arbuckle**  
 Deviated: **No Whipstock**      ft (KB)  
 Time Tool Opened: 11:23:59  
 Time Test Ended: 16:19:44  
 Interval: **3286.00 ft (KB) To 3424.00 ft (KB) (TVD)**  
 Total Depth: **3499.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Straddle**  
 Tester: **Dan Bangle**  
 Unit No: **38**  
 Reference Elevations: **1885.00 ft (KB)**  
    **1880.00 ft (CF)**  
    **KB to GR/CF: 5.00 ft**

**Serial #: 8520      Outside**  
 Press@RunDepth: **432.29 psig @ 3289.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2010.06.20**      End Date: **2010.06.20**      Last Calib.: **2010.06.20**  
 Start Time: **09:06:00**      End Time: **16:19:44**      Time On Btm: **2010.06.20 @ 11:22:59**  
    **Time Off Btm: 2010.06.20 @ 13:39:44**

TEST COMMENT: IF-Strong B-B in 1 min  
 IS-Strong B-B in 1 min  
 FF-Strong B-B in 1 min  
 FSI-Strong GTS as soon as tool shut-in



### PRESSURE SUMMARY

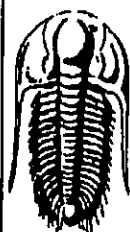
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.55	103.19	Initial Hydro-static
1	124.55	103.67	Open To Flow (1)
16	266.72	105.47	Shut-In(1)
60	1086.85	107.71	End Shut-In(1)
61	297.77	107.38	Open To Flow (2)
75	432.29	107.89	Shut-In(2)
136	1085.83	108.15	End Shut-In(2)
137	1684.81	108.08	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
120.00	OOGsyM 15%g 20%o 65%rn	1.41
370.00	MdyGsyO 20%g 70%o 10%rn	5.19
430.00	OGsyO 20%g 80%o	6.03
165.00	MCGsyO 20%g 60%o 20%rn	2.31
0.00	GTS	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

TDI Inc  
1310 Bison Rd  
Hays KS 67601

**Schmidtberger # 1**  
**20-14-16-Elis KS**  
Job Ticket: 38982      DST#: 1  
Test Start: 2010.06.20 @ 09:05:59

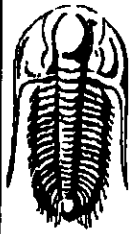
ATTN: Tom Denning

**Tool Information**

Drill Pipe:	Length: 3243.00 ft	Diameter: 3.80 inches	Volume: 45.49 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<b>Total Volume: 45.64 bbl</b>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3286.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	3424.00 ft			
Interval between Packers:	138.00 ft			
Tool Length:	233.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3267.00	
Shut In Tool	5.00			3272.00	
Hydraulic tool	5.00			3277.00	
Packer	5.00			3282.00	20.00      Bottom Of Top Packer
Packer	4.00			3286.00	
Stubb	1.00			3287.00	
Perforations	1.00			3288.00	
Change Over Sub	1.00			3289.00	
Recorder	0.00	8354	Inside	3289.00	
Recorder	0.00	8520	Outside	3289.00	
Drill Pipe	124.00			3413.00	
Change Over Sub	1.00			3414.00	
Perforations	6.00			3420.00	
Blank Off Sub	1.00			3421.00	
Blank Spacing	3.00			3424.00	138.00      Tool Interval
Packer	2.00			3426.00	
Stubb	1.00			3427.00	
Perforations	5.00			3432.00	
Change Over Sub	1.00			3433.00	
Drill Pipe	62.00			3495.00	
Change Over Sub	1.00			3496.00	
Bullnose	3.00			3499.00	75.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>233.00</b>			



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TDI Inc  
1310 Bison Rd  
Hays KS 67601

**Schmidtberger # 1**

**20-14-16-Ellis KS**

Job Ticket: 38982

DST#: 1

ATTN: Tom Denning

Test Start: 2010.06.20 @ 09:05:59

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 52.00 sec/qt  
Water Loss: 8.39 in\*  
Resistivity: ohmm  
Salinity: 6400.00 ppm  
Filter Cake: inches

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

Oil API: 34 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OOGsyM 15%g 20%o 65%m	1.410
370.00	MdyGsyO 20%g 70%o 10%m	5.190
430.00	CGsyO 20%g 80%o	6.032
165.00	MCGsyO 20%g 60%o 20%m	2.315
0.00	GTS	0.000

Total Length: 1085.00 ft      Total Volume: 14.947 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



