

CONFIDENTIAL

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

8/12/12

OPERATOR: License # 30606
Name: Murfin Drilling Company, Inc.
Address 1: 250 N. Water, Suite 300
Address 2: _____
City: Wichita State: KS Zip: 67202
Contact Person: Leon Rodak
Phone: (316) 267-3241
CONTRACTOR: License # 30606
Name: Murfin Drilling Company, Inc.
Wellsite Geologist: Bob Stolze
Purchaser: None

KCC
AUG 12 2010
CONFIDENTIAL

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 #: _____

<u>04/21/10</u>	<u>04/29/10</u>	<u>04/30/10</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 195-22658-0000
Spot Description: _____
SE NW SW SW Sec. 22 Twp. 12 S. R. 24 East West
950 Feet from North / South Line of Section
370 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Trego
Lease Name: Wanda Well #: 1-22
Field Name: Wildcat
Producing Formation: None
Elevation: Ground: 2425 Kelly Bushing: 2436
Total Depth: 4370 Plug Back Total Depth: None
Amount of Surface Pipe Set and Cemented at: 226 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 #: _____

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: _____
Title: VP Production Date: 08/12/10

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: 8/12/10 - 8/12/12
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: NJ Date: 8-19-10

RECEIVED

AUG 13 2010

KCC WICHITA

PA

Operator Name: Murfin Drilling Company, Inc. Lease Name: Wanda Well #: 1-22
 Sec. 22 Twp. 12 S. R. 24 East West County: Trego

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 Induction, Compensated Porosity, Microresistivity <input checked="" type="checkbox"/>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See Attached List <div style="text-align: center;"> KCC AUG 12 2010 CONFIDENTIAL </div>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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		8 5/8	23#	226	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 type="checkbox"/> Plug Back TD <input type="checkbox"/> 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: <input type="checkbox"/> Yes <input type="checkbox"/> No	KCC WICHITA
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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity

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) * (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------

Wanda #1-22 950 FSL 370 FWL Sec. 22-T12S-R24W 2436' KB							Neff #1-22 2310 FNL 1900 FEL Sec. 22-12S-24W 2414' KB	
Formation	SampleTops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum
Anhydrite	1979	+457	-2	1978	+458	-1	1955	+459
B/Anhydrite	2020	+416	-2	2018	+418	Flat	1996	+418
Topeka	3536	-1100	+4	3532	-1096	+8	3518	-1104
Heebner	3758	-1322	+8	3758	-1322	+8	3744	-1330
Toronto	3779	1343	+7	3778	-1342	+8	3764	-1350
Lansing	3795	-1359	+5	3793	-1357	+8	3779	-1365
BKC	4042	-1606	+10	4043	-1607	+9	4030	-1616
Pawnee	4139	-1703	+5	4138	-1702	+9	4122	-1708
Ft. Scott	4243	-1807	+5	4244	-1808	+4	4226	-1812
Cherokee	4267	-1831	+4	4266	-1830	+5	4249	-1835
Mississippi	4339	-1903	+8				4325	-1911
RTD	4370						4380	-1966
LTD				4370			4381	-1967

KCC
AUG 12 2010
CONFIDENTIAL

RECEIVED
AUG 13 2010
KCC WICHITA



PO BOX 31 Russell, KS 67665

KCC
AUG 12 2010
CONFIDENTIAL

INVOICE

Invoice Number: 122392

Invoice Date: Apr 21, 2010

Page: 1

Voice: (785) 483-3887
Fax: (785) 483-5566

Bill To:
Murfin Drfg. Co., Inc.
250 N. Water
STE #300
Wichita, KS 67202

PROD CODE

operator pay
MOC

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Wanda #1-22	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Oakley	Apr 21, 2010	5/21/10

Quantity	Item	Description	Unit Price	Amount
150.00	MAT	Class A Common	13.50	2,025.00
3.00	MAT	Gel	20.25	60.75
5.00	MAT	Chloride	51.50	257.50
158.00	SER	Handling	2.25	355.50
45.00	SER	Mileage 158 sx @ .10 per sk per mi	15.80	711.00
1.00	SER	Surface	991.00	991.00
45.00	SER	Pump Truck Mileage	7.00	315.00
1.00	EQP	8.5/8 Surface plug	68.00	68.00

RECEIVED
AUG 13 2010
KCC WICHITA

Account	Qty	L	No.	Amount	Description
03600	020	05	3646	4923.60	Contract S.
				(1674.31)	

CSG
OKM

Subtotal	4,783.75
Sales Tax	139.85
Total Invoice Amount	4,923.60
Payment/Credit Applied	
TOTAL	4,923.60

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 1674.31

ONLY IF PAID ON OR BEFORE
May 16, 2010

1674.31
3249.29



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
Fax: (785) 483-5566

acct. list

INVOICE

Invoice Number: 122544

Invoice Date: Apr 30, 2010

Page: 1

Bill To:
Murfin Drig. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

PRO COPY

operator pay mpc

KCC
12 2010
CONFIDENTIAL

Customer ID	Well Name# or Customer P.O	Payment Terms	
Murfin	Wanda #1-22 <i>OB</i>	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-03	Great Bend	Apr 30, 2010	5/30/10

Quantity	Item	Description	Unit Price	Amount
123.00	MAT	Class A Common	13.50	1,660.50
82.00	MAT	Pozmix	7.55	619.10
7.00	MAT	Gel	20.25	141.75
51.00	MAT	Flo Seal	2.45	124.95
205.00	SER	Handling	2.25	461.25
45.00	SER	Mileage 205 sx @ .10 per sk per mi	20.50	922.50
1.00	SER	Rotary Plug	990.00	990.00
45.00	SER	Pump Truck Mileage	7.00	315.00
1.00	EQP	8.5/8 Dry Hole Plug	40.00	40.00

RECEIVED
AUG 13 2010
KCC WICHITA

Account	Item	Description
03600	020	05 3646 5581.00 PTA (1846.45)

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 1846.45

ONLY IF PAID ON OR BEFORE

May 25, 2010

Subtotal	5,275.50
Sales Tax	305.95
Total Invoice Amount	5,581.00
Payment/Credit Applied	
TOTAL	5,581.00

mm
1846.45
3734.55

ALLIED CEMENTING CO., LLC. 036416

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

SERVICE POINT:
Great Bend W

DATE 4-30-10	SEC. 22	TWP. 12	RANGE 24	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 12:00 PM
LEASE Wanda	WELL # 1-22	LOCATION Voda exit off T. 70			COUNTY Trego	STATE KS	
OLD OR NEW (Circle one)		1 South 2 East 3/4					

CONTRACTOR Murtin Rix 20 OWNER Murtin Drilling Co.

TYPE OF JOB Retary Plug

HOLE SIZE 7 3/8 T.D. 4370 CEMENT

CASING SIZE 8 3/4 DEPTH 226 AMOUNT ORDERED 205 SX 60/40 49660

TUBING SIZE DEPTH 1/2 # flo seal

DRILL PIPE 1/2 DEPTH 1990

TOOL DEPTH

PRE. MAX MINIMUM COMMON 123 @ 13.50 1660.50

MEAS. LINE SHOE JOINT POZMIX 82 @ 7.55 619.10

CEMENT LEFT IN CSG. GEL 7 @ 20.25 141.75

PERFS. CHLORIDE @

DISPLACEMENT ASC @

EQUIPMENT floral 51 # @ 2.45 124.95

PUMP TRUCK CEMENTER Wayne-D @

181 HELPER Wayne-D @

BULK TRUCK @

344 DRIVER Bbb-R @

BULK TRUCK @

DRIVER @

HANDLING 205 @ 2.25 461.25

MILEAGE 205 x 45 x .10 922.50

TOTAL 3930.05

REMARKS: SERVICE

1st plug 1990 mix 25 SX Dis 5 # 20 DEPTH OF JOB 1990

21 BBLs mud. PUMP TRUCK CHARGE 990.00

2nd plug 1075 mix 100 SX Dis 7 BBLs EXTRA FOOTAGE @

3rd plug 270 mix 40 SX Dis .25 BBL MILEAGE 45 @ 7.00 315.00

4th plug 40 mix 10 SX Dis .25 BBL MANIFOLD @

Rat Hole mix 300X @

Mouse hole mix 15 SX @

CHARGE TO: Murtin Drilling Co. TOTAL 1305.00

STREET 250 N. Water Suite 300

CITY Wichita STATE KS ZIP 67202

PLUG & FLOAT EQUIPMENT

Dry hole Plug @ 40.00 40.00

TOTAL 40.00

SALES TAX (If Any) _____

TOTAL CHARGES 6025.00

DISCOUNT _____ IF PAID IN 30 DAYS

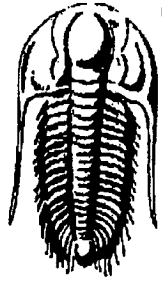
PRINTED NAME Greg Condren

SIGNATURE Greg Condren

KCC
AUG 12 2010
CONFIDENTIAL

RECEIVED
AUG 13 2010
KCC WICHITA

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.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Inc.**

250 N Water
Suite 300
Wichita, Ks 67202

**KCC
AUG 12 2010
CONFIDENTIAL**

ATTN: Bob Stolze

22-12s-24w Trego KS

Wanda #1-22

Start Date: 2010.04.26 @ 16:05:47

End Date: 2010.04.26 @ 23:39:47

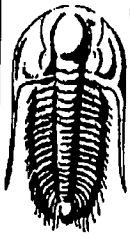
Job Ticket #: 37271 DST #: 1

RECEIVED

AUG 12 2010

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

TOOL DIAGRAM

Murfin Drilling Inc.

Wanda #1-22

250 N Water
Suite 300
Wichita, Ks 67202
ATTN: Bob Stolze

22-12s-24w Trego KS
Job Ticket: 37271 **DST#: 1**
Test Start: 2010.04.26 @ 16:05:47

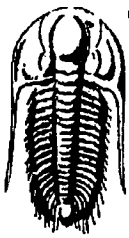
Tool Information

Drill Pipe:	Length: 3695.00 ft	Diameter: 3.82 inches	Volume: 52.38 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 80000.00 lb
		<u>Total Volume:</u>	<u>53.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3868.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	55.00 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			3846.00	
Shut In Tool	5.00			3851.00	
Hydraulic tool	5.00			3856.00	
Safety Joint	2.00			3858.00	
Packer	5.00			3863.00	23.00 Bottom Of Top Packer
Packer	5.00			3868.00	
Stubb	1.00			3869.00	
Perforations	5.00			3874.00	
Recorder	0.00	6668	Inside	3874.00	
Recorder	0.00	6669	Outside	3874.00	
Perforations	23.00			3897.00	
Bullnose	3.00			3900.00	32.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Inc.

Wanda #1-22

250 N Water
Suite 300
Wichita, Ks 67202
ATTN: Bob Stolze

22-12s-24w Trego KS

Job Ticket: 37271

DST#: 1

Test Start: 2010.04.26 @ 16:05:47

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:

48000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 80%W,20%M	0.590
60.00	MW 50%W,50%M	0.295
60.00	VSOCM 2%O,98%M	0.832
390.00	Mud	5.528
0.00	RW .22 @ 52F = 48000 ppm chlorides	0.000

Total Length: 630.00 ft Total Volume: 7.245 bbl

Num Fluid Samples: 0

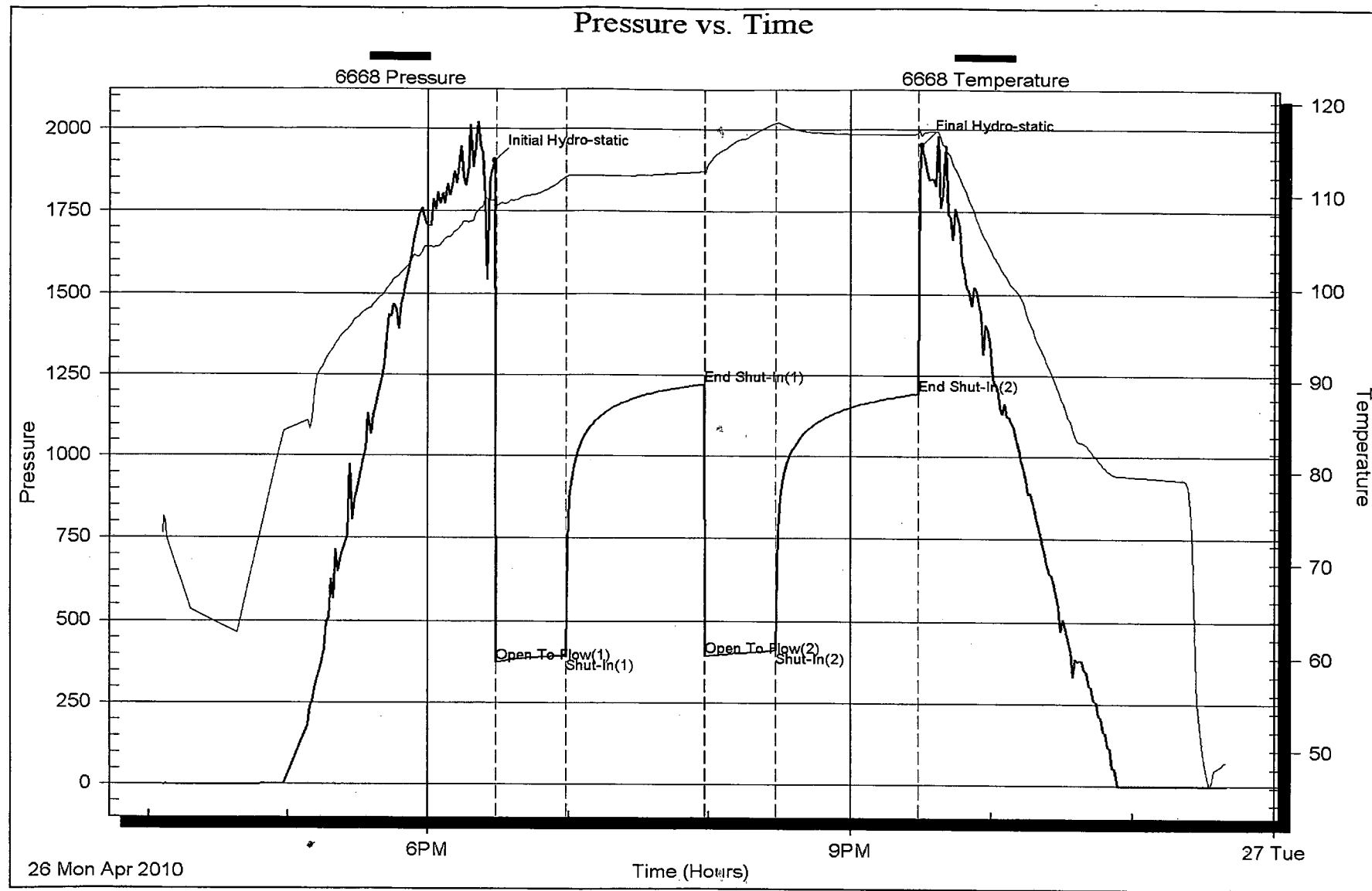
Num Gas Bombs: 0

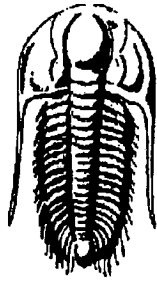
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Tool opened before packers set, lost some mud-suspect 400' mud in pipe.





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Inc.**

250 N Water
Suite 300
Wichita, Ks 67202

ATTN: Bob Stolze

22-12s-24w Trego KS

Wanda #1-22

Start Date: 2010.04.27 @ 07:31:56

End Date: 2010.04.27 @ 13:22:26

Job Ticket #: 37272 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Murfin Drilling Inc.

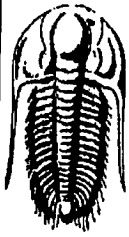
Wanda #1-22

22-12s-24w Trego KS

DST # 2

LKC "H"

2010.04.27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Inc.

Wanda #1-22

250 N Water
Suite 300
Wichita, Ks 67202
ATTN: Bob Stolze

22-12s-24w Trego KS
Job Ticket: 37272 **DST#: 2**
Test Start: 2010.04.27 @ 07:31:56

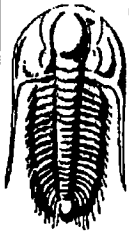
Tool Information

Drill Pipe:	Length: 3725.00 ft	Diameter: 3.82 inches	Volume: 52.80 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 53.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3920.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	63.00 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			3898.00	
Shut In Tool	5.00			3903.00	
Hydraulic tool	5.00			3908.00	
Safety Joint	2.00			3910.00	
Packer	5.00			3915.00	23.00 Bottom Of Top Packer
Packer	5.00			3920.00	
Stubb	1.00			3921.00	
Perforations	3.00			3924.00	
Change Over Sub	1.00			3925.00	
Recorder	0.00	6668	Inside	3925.00	
Recorder	0.00	6669	Inside	3925.00	
Blank Spacing	31.00			3956.00	
Change Over Sub	1.00			3957.00	
Bullnose	3.00			3960.00	40.00 Bottom Packers & Anchor
Total Tool Length:	63.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Inc.

Wanda #1-22

250 N Water
Suite 300
Wichita, Ks 67202
ATTN: Bob Stolze

22-12s-24w Trego KS
Job Ticket: 37272 **DST#: 2**
Test Start: 2010.04.27 @ 07:31:56

Mud and Cushion Information

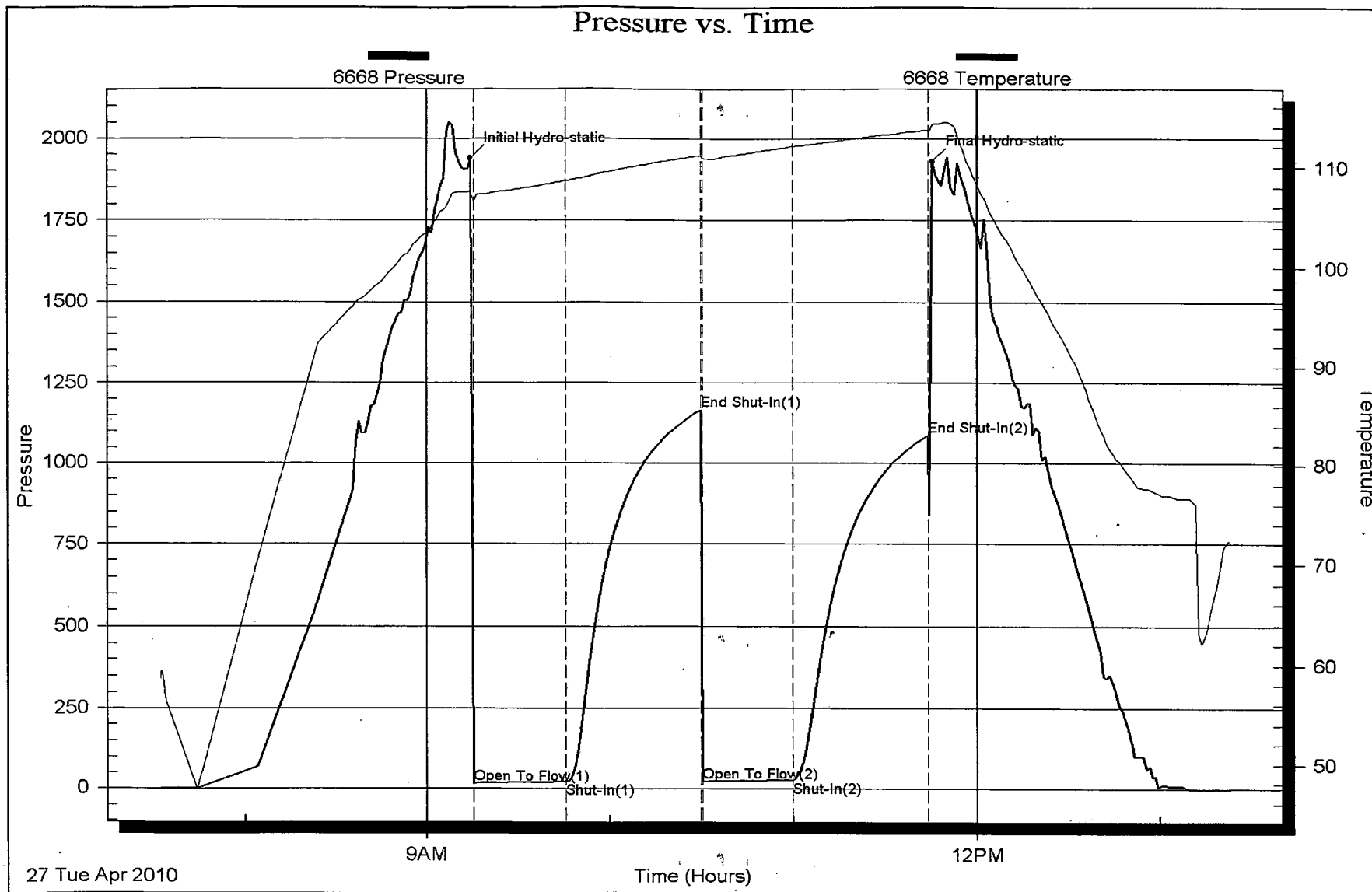
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4700.00 ppm			
Filter Cake: inches			

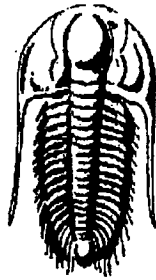
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w/ scum of oil	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Inc.**

250 N Water
Suite 300
Wichita, Ks 67202

ATTN: Bob Stolze

22-12s-24w Trego KS

Wanda #1-22

Start Date: 2010.04.28 @ 01:59:01

End Date: 2010.04.28 @ 11:52:01

Job Ticket #: 38606 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Murfin Drilling Inc.

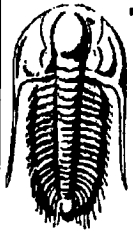
Wanda #1-22

22-12s-24w Trego KS

DST # 3

LKC-"I-J-K-L"

2010.04.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Inc.
250 N Water
Suite 300
Wichita, Ks 67202
ATTN: Bob Stolze

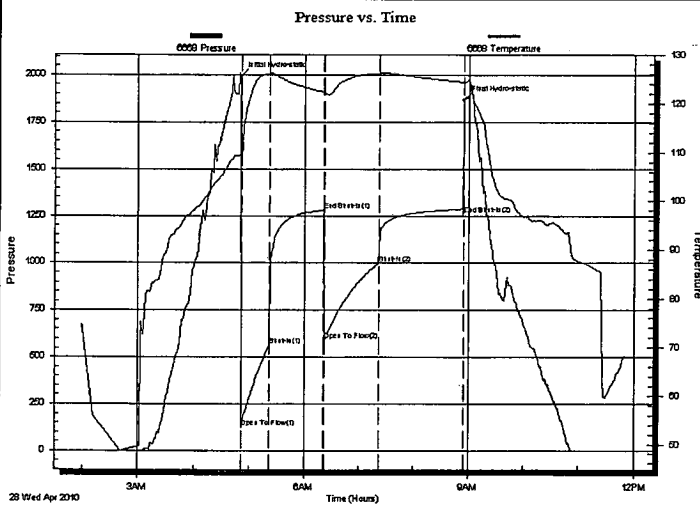
Wanda #1-22
22-12s-24w Trego KS
Job Ticket: 38606 **DST#: 3**
Test Start: 2010.04.28 @ 01:59:01

GENERAL INFORMATION:

Formation: **LKC-"I-J-K-L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:51:01
Time Test Ended: 11:52:01
Interval: **3953.00 ft (KB) To 4045.00 ft (KB) (TVD)**
Total Depth: **4045.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Jeff Brown
Unit No: 44
Reference Elevations: 2436.00 ft (KB)
2425.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6668 Inside
Press@RunDepth: 998.77 psig @ 3958.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.04.28 End Date: 2010.04.28 Last Calib.: 2010.04.28
Start Time: 01:59:02 End Time: 11:52:01 Time On Btrr: 2010.04.28 @ 04:50:31
Time Off Btrr: 2010.04.28 @ 08:55:01

TEST COMMENT: IFP-Strong blow BOB in 2 min
IS- Weak blow back built to 1/2 in died out in 38 min
FFP-Strong blow BOB in 2 1/2 min
FSI-Dead no Blow back



PRESSURE SUMMARY

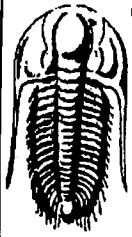
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1992.88	109.63	Initial Hydro-static
1	124.06	108.48	Open To Flow (1)
31	561.99	126.12	Shut-In(1)
91	1279.90	122.46	End Shut-In(1)
92	587.69	122.11	Open To Flow (2)
151	998.77	126.08	Shut-In(2)
244	1256.12	124.43	End Shut-In(2)
245	1866.57	124.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1386.00	Water	17.96
765.00	WM30%W70%M	10.84

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Inc.

Wanda #1-22

250 N Water
Suite 300
Wichita, Ks 67202
ATTN: Bob Stolze

22-12s-24w Trego KS
Job Ticket: 38606 **DST#: 3**
Test Start: 2010.04.28 @ 01:59:01

Tool Information

Drill Pipe:	Length: 3755.00 ft	Diameter: 3.82 inches	Volume: 53.23 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 54.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3953.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	115.00 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			3931.00	
Shut In Tool	5.00			3936.00	
Hydraulic tool	5.00			3941.00	
Safety Joint	2.00			3943.00	
Packer	5.00			3948.00	23.00 Bottom Of Top Packer
Packer	5.00			3953.00	
Stubb	1.00			3954.00	
Perforations	3.00			3957.00	
Change Over Sub	1.00			3958.00	
Recorder	0.00	6668	Inside	3958.00	
Recorder	0.00	6669	Outside	3958.00	
Blank Spacing	63.00			4021.00	
Change Over Sub	1.00			4022.00	
Perforations	20.00			4042.00	
Bullnose	3.00			4045.00	92.00 Bottom Packers & Anchor

Total Tool Length: 115.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Inc.

Wanda #1-22

250 N Water
Suite 300
Wichita, Ks 67202
ATTN: Bob Stolze

22-12s-24w Trego KS
Job Ticket: 38606 **DST#: 3**
Test Start: 2010.04.28 @ 01:59:01

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:	28000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1386.00	Water	17.962
765.00	WV30%W70%M	10.844

Total Length: 2151.00 ft Total Volume: 28.806 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW 23 @ 73F = 28000 ppm chlorides

