



1074636

Operator Name: Chieftain Oil Co., Inc. Lease Name: Jake Well #: 3
 Sec. 13 Twp. 33 S. R. 11 ☐ East ☒ West County: Barber

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 ☒ Yes ☐ No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey ☒ Yes ☐ No Cores Taken ☐ Yes ☒ No Electric Log Run ☒ Yes ☐ No Electric Log Submitted Electronically ☒ Yes ☐ No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	☐ Log Formation (Top), Depth and Datum ☐ Sample <table style="width: 100%;"> <tr> <td style="width: 33%;">Name</td> <td style="width: 33%;">Top</td> <td style="width: 33%;">Datum</td> </tr> <tr> <td>Attached</td> <td>Attached</td> <td>Attached</td> </tr> </table>	Name	Top	Datum	Attached	Attached	Attached
Name	Top	Datum					
Attached	Attached	Attached					

CASING RECORD ☒ New ☐ 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	10.75	8.625	24	332	60/40 Poz	250	2% Salt
Production	7.875	5.50	15.5	5232	Common	225	2% Salt Gas Block

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

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
4	4604-4634	1000 Gal 7-1/2% HCL Acid	4604-4644
2	4634-4644	1500 Gal 15% HCL Acid	4604-4644
		Frac 22500BBLS Slickwater 367600# Sand	

TUBING RECORD: Size: <u>2-7/8</u> Set At: <u>4709</u> Packer At: <u> </u>		Liner Run: ☐ Yes ☐ No	
Date of First, Resumed Production, SWD or ENHR. <u>11/01/2011</u>		Producing Method: ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain) <u> </u>	
Estimated Production Per 24 Hours	Oil Bbls. <u>10</u>	Gas Mcf <u>50</u>	Water Bbls. <u>100</u>
		Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☒ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> ☐ Other (Specify) <u> </u>	PRODUCTION INTERVAL: <u> </u> <u> </u>
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Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Jake 3
Doc ID	1074636

All Electric Logs Run

Geological Log
Dual Compensated Log
Dual Induction Log
Sector Bond / Gamma Ray Log

Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Jake 3
Doc ID	1074636

Tops

Heebner	3719	-2123
Lansing	3928	-2332
Base Kansas City	4401	-2805
Cherokee	4591	-2995
Mississippian	4609	-3013
Kinderhook	4835	-3239
Viola	4947	-3251
Simpson	5040	-3444
Arbuckle	5191	-3595
Total Depth	5234	-3638



PO BOX 31 Russell, KS 67665

INVOICE

Invoice Number: 127953

Invoice Date: Jul 20, 2011

Page: 1

Voice: (785) 483-3887

Fax: (785) 483-5566

Bill To:

Chieftain Oil Company Inc.
P O Box 124
Kiowa, KS 67070-0124

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Chief	Jake #3	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Medicine Lodge	Jul 20, 2011	8/19/11

Quantity	Item	Description	Unit Price	Amount
150.00	MAT	Class A Common	16.25	2,437.50
100.00	MAT	Pozmix	8.50	850.00
4.00	MAT	Gel	21.25	85.00
8.00	MAT	Chloride	58.20	465.60
262.00	SER	Handling	2.25	589.50
10.00	SER	Mileage	28.82	288.20
1.00	SER	Surface	1,125.00	1,125.00
20.00	SER	Heavy Vehicle Mileage	7.00	140.00
20.00	SER	Light Vehicle Mileage	4.00	80.00
1.00	EQP	8 5/8 Wooden Plug	92.00	92.00
1.00	EQUIP OPER	Matt Thimesch		
1.00	EQUIP OPER	Ronald Giley		
1.00	OPER ASSIST	Dustin Elam		

9304 PC

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

\$ 1230.56

ONLY IF PAID ON OR BEFORE
Aug 14, 2011

Subtotal	6,152.80
Sales Tax	286.90
Total Invoice Amount	6,439.70
Payment/Credit Applied	
TOTAL	6,439.70

ALLIEL CEMENTING CO., LLC. 040749

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

SERVICE POINT:
Med. Lodge

DATE <u>7-20-11</u>	SEC. <u>13</u>	TWP. <u>33S</u>	RANGE <u>11W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:00am</u>	JOB FINISH <u>3:30am</u>
LEASE <u>Jolie</u>	WELL # <u>3</u>	LOCATION <u>M.L. 1/2 E on 16 to Cedar killed</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		3 south 1/2 W, 2.5 south prairie, near 1/2 E to the Sim 6					

CONTRACTOR Fossil Drilling
TYPE OF JOB Surface

OWNER Chieftain Oil

HOLE SIZE <u>12 1/4</u>	T.D. <u>340'</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>323'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>300 psi</u>	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>20'</u>	
PERFS.	
DISPLACEMENT <u>20 bbls to 20</u>	

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Mark Thimmesch</u>
# <u>471/302</u>	HELPER <u>Ron Willey</u>
BULK TRUCK	
# <u>421/252</u>	DRIVER <u>Adam Ekm</u>
BULK TRUCK	
#	DRIVER

REMARKS:

Bulk cement with pump 3 bbls to 20 and
mix 250 sk cement shut down Release dig
dis. 20 bbls to 20 shut in
cement did cureable

CHARGE TO: Chieftain Oil
STREET _____
CITY _____ STATE _____ ZIP _____

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 CARRY W HUNT

SIGNATURE [Signature]

CEMENT

AMOUNT ORDERED 250 sk 60-40-3% arc + 2% gel

COMMON	<u>150</u>	@	<u>16.25</u>	<u>2437.50</u>
POZMIX	<u>100</u>	@	<u>8.50</u>	<u>850.-</u>
GEL	<u>4</u>	@	<u>21.25</u>	<u>85.-</u>
CHLORIDE	<u>8</u>	@	<u>58.20</u>	<u>465.60</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>262</u>	@	<u>2.25</u>	<u>589.50</u>
MILEAGE	<u>262/10/11</u>			<u>288.20</u>
TOTAL				<u>4715.80</u>

SERVICE

DEPTH OF JOB	<u>323'</u>			
PUMP TRUCK CHARGE				<u>1125.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>20</u>	@	<u>7.00</u>	<u>140.00</u>
MANIFOLD		@		
<u>Light vehicle</u>	<u>20</u>	@	<u>4.00</u>	<u>80.00</u>
		@		
TOTAL				<u>1345.00</u>

8 5/8 PLUG & FLOAT EQUIPMENT

1- wooden plug	@	92.00
	@	
	@	
	@	
	@	
TOTAL		92.00

SALES TAX (If Any) _____

TOTAL CHARGES 6152.80

DISCOUNT 20% IF PAID IN 30 DAYS

Net \$ 4922.24



PAGE 1 of 1	C' NO 1000719	INVOICE DATE 08/01/2011
INVOICE NUMBER 1718 - 90660928		

Pratt (620) 672-1201
 B CHIEFTAIN OIL COMPANY
 I PO Box: 124
 L KIOWA
 L KS US 67070
 T
 O ATTN:

J LEASE NAME Jake 3
 O LOCATION
 B COUNTY Barber
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

912/186

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE
40350495	20920			Net - 30 days	08/31/2011
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 07/31/2011 to 07/31/2011					
0040350495					
171804391A Cement-New Well Casing/Pi 07/31/2011					
Longstring					
AA2 Cement		275.00	EA	13.43	3,693.16 T
De-foamer (Powder)		52.00	EA	3.16	164.32 T
Salt (Fine)		1,364.00	EA	0.39	538.77 T
Gas-Blok		259.00	EA	4.07	1,053.72 T
FLA-322		208.00	EA	5.92	1,232.37 T
Gilsonite		1,375.00	EA	0.53	727.77 T
CS-1L KCL Substitute		5.00	EA	27.65	138.25 T
Mud Flush		500.00	EA	0.68	339.69 T
Super Flush II		500.00	EA	1.21	604.34 T
Latch Down Plug & Baffle 5 1/2" (Blue)		1.00	EA	315.99	315.99
Auto Fill Float Shoe 5 1/2" (Blue)		1.00	EA	284.39	284.39
Turbolizer 5 1/2" (Blue)		7.00	EA	86.90	608.29
5 1/2" Basket (Blue)		2.00	EA	229.10	458.19
Unit Mileage Charge-Pickups, Vans & Cars		45.00	HR	3.35	151.08
Heavy Equipment Mileage		90.00	MI	5.53	497.69
Proppant and Bulk Delivery Charges		583.00	MI	1.26	736.90
Depth Charge: 5001-6000'		1.00	HR	2,275.15	2,275.15
Blending & Mixing Service Charge		275.00	MI	1.11	304.14
Plug Container Utilization Charge		1.00	EA	197.50	197.50
Supervisor		1.00	HR	138.25	138.25

PLEASE REMIT TO:

SEND OTHER CORRESPONDENCE TO:

BASIC ENERGY SERVICES, LP
 PO BOX 841903
 DALLAS, TX 75284-1903

BASIC ENERGY SERVICES, LP
 PO BOX 10460
 MIDLAND, TX 79702

SUB TOTAL 14,459.96
 TAX 619.94
 INVOICE TOTAL 15,079.90

ENERGY SERVICES
-PRESSURE PUMPING & WIRELINE

**10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201**

FIELD SERVICE TICKET

1718 04391 A

13-335-11W

DATE	TICKET NO.
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DATE OF JOB 7-31-11 DISTRICT Pratt, Kansas				NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:			
CUSTOMER - Heflein Oil Company, Inc.				LEASE Toltz WELL NO. 3			
ADDRESS				COUNTY Barber STATE Kansas			
CITY STATE				SERVICE CREW - Messick, M. Mattel, Jr. Hunter			
AUTHORIZED BY				JOB TYPE - N/A Longstring			
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE 7-30-11 AM 10:00 PM
57216	1.5					ARRIVED AT JOB	7-31-11 AM 2:30 PM
						START OPERATION	AM 4:30 PM
22708-20420	1.5					FINISH OPERATION	AM 11:00 PM
						RELEASED	7-31-11 AM 11:30 PM
19531-19562	1.5					MILES FROM STATION TO WELL	4.5

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	HA 2 Cement	sk	275	\$	4,675.00
CC 105	Defoamer	Lb	52	\$	208.00
CC 111	Salt (Fine)	Lb	1,364	\$	682.00
CC 115	Gas Blok	Lb	259	\$	1,333.35
CC 124	FLA-322	Lb	308	\$	1,560.00
CC 201	Gilsonite	Lb	1,375	\$	921.25
CF 607	Latch Down Plug and Baffle, 5 1/2"	ea	1	\$	400.00
CF 1251	Auto Fill Float Valve, 5 1/2"	ea	1	\$	360.00
CF 1651	Turbolizer, 5 1/2"	ea	1	\$	770.00
CF 1901	Penetration, 5 1/2"	ea	2	\$	580.00
CS 704	CS-11: HCL	Gal	5	\$	175.00
CC 151	Mud Flush	Gal	500	\$	430.00
CC 155	Super Flush II	Gal	500	\$	765.00

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL			

SERVICE REPRESENTATIVE	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
------------------------	---

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



**10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201**

Continuation

DATE _____ TICKET NO. 4391

CLUB LITMO - Espora Tr

BASIC

energy services, L.P.

TREATMENT REPORT

Customer Chieftain Oil Company, Inc.	Lease No. Well # 3	Date 7-31-11
Lease Jake	Field Order # 4391	Station Pratt, Kansas
Type Job C.N.W.-Longstring	Casing 5 1/2 15.5 lb.	Depth 5,234 feet
	County Barber	State Kansas
	Formation I-3535-11W	Legal Description

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size 5 1/2 15.5 lb./ft.	Tubing Size 5 1/2 15.5 lb./ft.	Shots/Ft.	225 sacks	AA 2 with .88 FLA	RATE	PRESS	ISIP	
Depth 5,234 Feet	Depth	From	108 Sacks	5 lb./sk. G	Max		5 Min.	
Volume 24.6 Bbl.	Volume	From	To	15 lb./gal. 5.94 Gal./ft.	Min	1.43 CU. FT./SK.	10 Min.	
Max Press. 1,500 PSI	Max Press.	From	To		Avg		15 Min.	
Well Connection Plug Connection	Annulus Vol.	From	To	50 sacks AA 2 to plug Rat (30 shots) and Mouse (20 shots) holes	HHP Used		Annulus Pressure	
Plug Depth 5,212 Feet	Packer Depth	From	To	Flush 124 Bbl. 28 HCL	Gas Volume		Total Load	

Customer Representative Ron Molz	Station Manager David Scott	Preparer Clarence R. Messick
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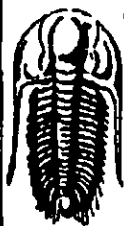
Service Units	37,216	33,708	20,920	19,831	19,862				
Driver Names	Messick	Mahtal	Hunter						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:30					Cement and cement on location.
5:00					Fossil Drilling start to run Auto Fill Float Shoe, Shoe Joint with Latch Down Baffle screwed into collar and a total of 125 Joints new 15.5 lb./ft. 5 1/2" casing. A Basher was installed above collars #2 and #10. A Turbolizer was installed on collars #4, 7, 8, 14, 15, 16, and #17.
8:15					Casing in well. Circulate for 1 Hour.
9:30	2300				Shut in well. Pressure Test. Open Well.
9:32	300			6	Start Fresh Water Pre-Flush.
			20	6	Start Mud Flush.
			32	6	Start Fresh water spacer.
			52	6	Start Super Flush II.
			64	5	Start Fresh Water Spacer.
9:45	500		67	5	Start Mixing 225 sacks AA 2 cement.
	-0-		124		Stop pumping. Shut in well. Wash pump and lines. Release Latch Down Plug. Open Well.
10:07	100			6.5	Start 28 HCL Displacement.
			82	5	Start to lift cement.
10:33	1,000		124		Plug down.
	1,500				Pressure up.
					Release pressure. Float Shoe held.
	-0-		T-5	3	Plug Rat and Mouse holes.
					Wash up pump truck.

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

11:30 A.M. Job Complete. Thank You. Clarence, Mike, Jr.

Taylor Printing, Inc. 820-672-3656



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Chieftain Oil Co. Inc.

Jake #3

605 S. 6th
PO Box 124
Klowa, KS 67070+1912
ATTN: Arden Ratzlaff

13-33s-11w Barber, KS

Job Ticket: 43519

DST#: 1

Test Start: 2011.07.26 @ 04:16:05

GENERAL INFORMATION:

Formation: **Hertha**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 06:03:10

Time Test Ended: 11:04:50

Test Type: **Conventional Bottom Hole**

Tester: **Andy Carreira**

Unit No: **39**

Interval: **4401.00 ft (KB) To 4449.00 ft (KB) (TVD)**

Total Depth: **4449.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1596.00 ft (KB)**

1588.00 ft (CF)

KB to GRVCF: **8.00 ft**

Serial #: **8352**

Outside

Press@RunDepth: **23.16 psig @ 4408.00 ft (KB)**

Start Date: **2011.07.26**

End Date:

2011.07.26

Capacity: **8000.00 psig**

Last Calib.: **2011.07.26**

Start Time: **04:16:05**

End Time:

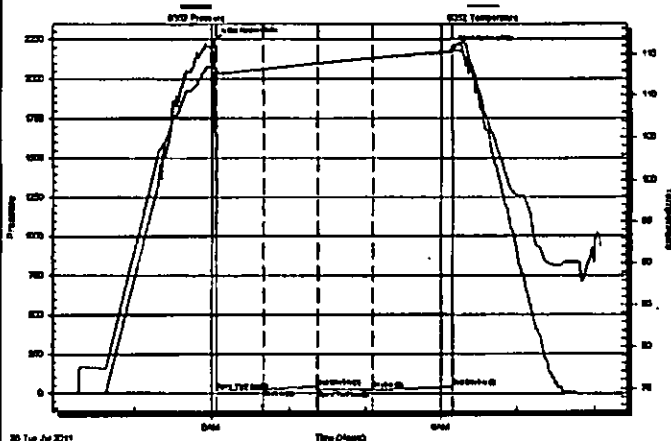
11:04:50

Time On Btm: **2011.07.26 @ 06:01:50**

Time Off Btm: **2011.07.26 @ 09:08:20**

TEST COMMENT: IF:(30min) 1.5 inch blow in 20 min.
IS:(45min) No Return
FF:(45min) Weak, 1 inch blow, Died in 40 min.
FS:(60min) No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.31	113.40	Initial Hydro-static
2	19.62	112.79	Open To Flow (1)
38	23.96	113.20	Shut-In(1)
80	44.09	113.89	End Shut-In(1)
81	19.91	113.88	Open To Flow (2)
124	23.16	114.50	Shut-In(2)
187	40.63	115.27	End Shut-In(2)
187	2188.00	116.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w/ slight oil specks in tool	0.10

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co. Inc.

Jake #3

605 S. 6th
PO Box 124
Kiowa, KS 67070+1912
ATTN: Arden Ratzlaff

13-33s-11w Barber, KS

Job Ticket: 43519

DST#: 1

Test Start: 2011.07.26 @ 04:16:05

Tool Information

Drill Pipe:	Length: 4285.45 ft	Diameter: 3.80 inches	Volume: 60.11 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 123.55 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 62000.00 lb
			Total Volume: 60.72 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4401.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	71.00 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			4379.00	
Shut In Tool	5.00			4384.00	
Hydraulic tool	5.00			4389.00	
Safety Joint	3.00			4392.00	
Packer	5.00			4397.00	23.00 Bottom Of Top Packer
Packer	4.00			4401.00	
Stubb	1.00			4402.00	
Perforations	5.00			4407.00	
Change Over Sub	1.00			4408.00	
Recorder	0.00	8017	Inside	4408.00	
Recorder	0.00	8352	Outside	4408.00	
Drill Pipe	31.00			4439.00	
Change Over Sub	1.00			4440.00	
Perforations	6.00			4446.00	
Bullnose	3.00			4449.00	48.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co. Inc.

Jake #3

605 S. 6th
PO Box 124
Klowa, KS 67070+1912
ATTN: Arden Ratzlaff

13-33s-11w Barber, KS

Job Ticket: 43519

DST#: 1

Test Start: 2011.07.28 @ 04:16:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 7.96 in³

Resistivity: ohm.m

Salinity: 3100.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w / slight oil specks in tool	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

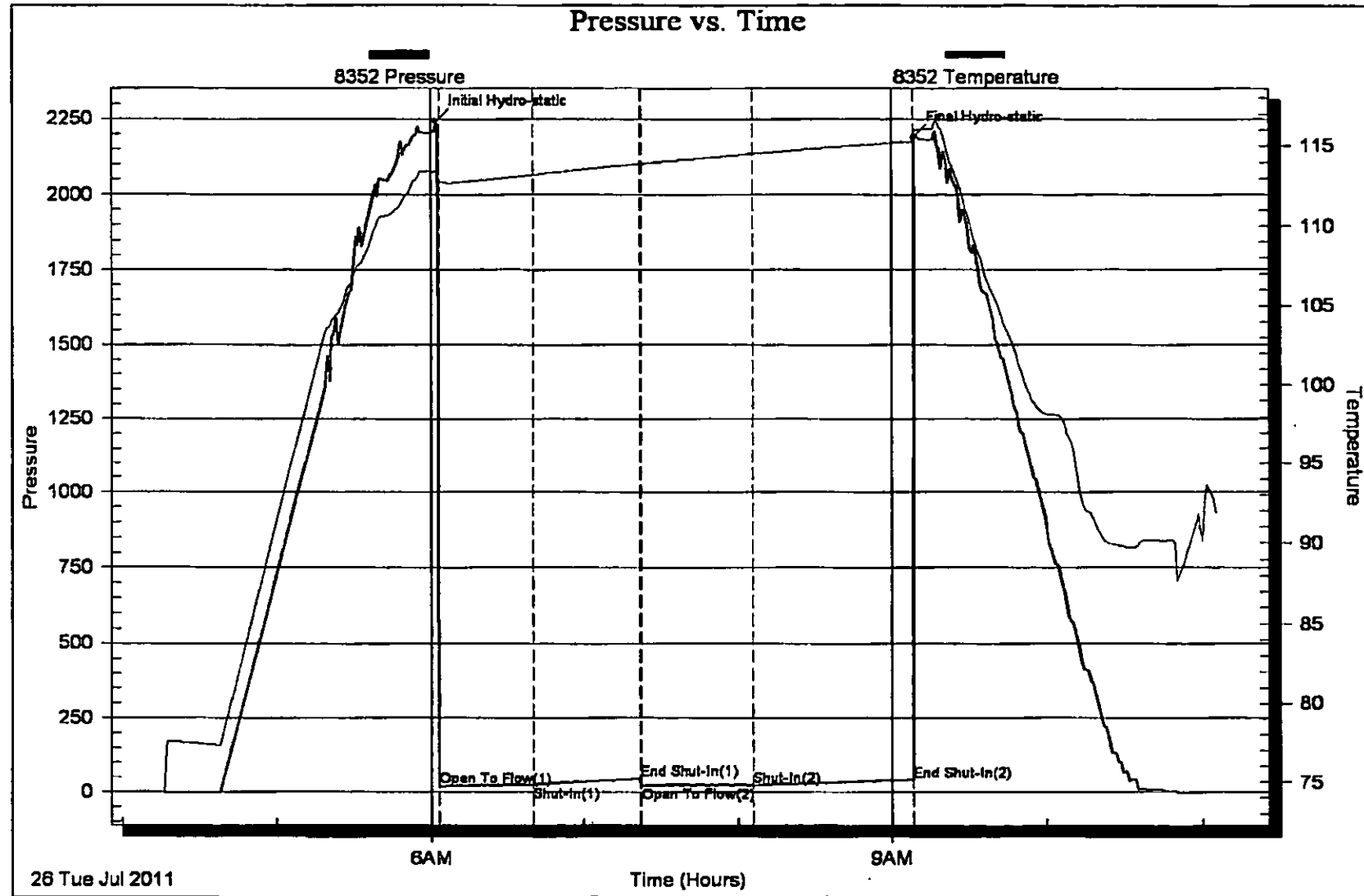
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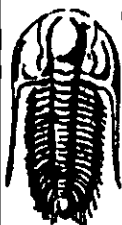
Serial #: 8352

Outside Chieftain Oil Co. Inc.

13-33s-11w Barber, KS

DST Test Number: 1





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Chieftain Oil Co. inc.

Jake #3

605 S. 6th
PO Box 124
Kiowa, KS 67070+1912
ATTN: Arden Ratcliff

13-33s-11w Barber, KS

Job Ticket: 43520

DST#: 2

Test Start: 2011.07.28 @ 16:15:05

GENERAL INFORMATION:

Formation: **Misener**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 18:55:40

Time Test Ended: 00:35:20

Test Type: **Conventional Bottom Hole**

Tester: **Andy Carreira**

Unit No: **39**

Interval: **4932.00 ft (KB) To 4950.00 ft (KB) (TVD)**

Total Depth: **4950.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1596.00 ft (KB)**

1588.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: **8352**

Outside

Press@RunDepth: **83.74 psig @ 4933.00 ft (KB)**

Start Date: **2011.07.28**

End Date:

2011.07.29

Start Time: **16:15:05**

End Time:

00:35:20

Capacity: **8000.00 psig**

Last Calib.: **2011.07.29**

Time On Btm: **2011.07.28 @ 18:52:50**

Time Off Btm: **2011.07.28 @ 22:13:20**

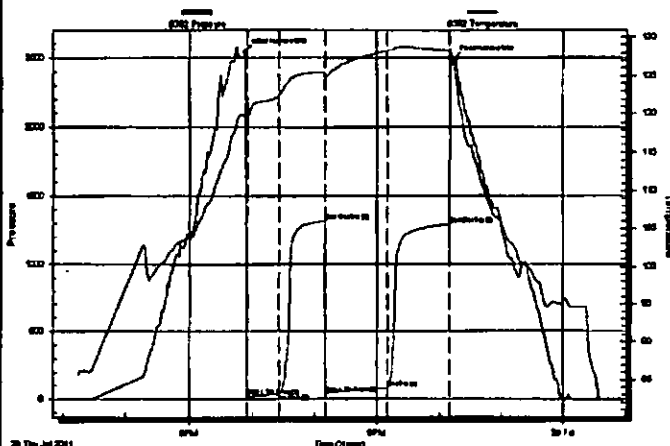
TEST COMMENT: IF:(30min) 11 inches in 30 min.

IS:(45min) No Return

FF:(60min) BOB, 57 min.

FS:(60min) No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2539.67	119.70	Initial Hydro-static
3	19.78	119.39	Open To Flow (1)
34	39.56	122.50	Shut-In(1)
77	1312.12	125.44	End Shut-In(1)
78	44.49	124.92	Open To Flow (2)
138	83.74	128.19	Shut-In(2)
198	1288.36	128.26	End Shut-In(2)
201	2487.45	126.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	M/W/oil specks in tool m=20% w=80%	0.84
0.00	GIP= 100ft	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co. Inc.

Jake #3

606 S. 6th
PO Box 124
Kiowa, KS 67070+1912
ATTN: Arden Ratzlaff

13-33s-11w Barber, KS

Job Ticket: 43520

DST#: 2

Test Start: 2011.07.28 @ 16:15:05

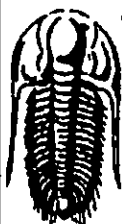
Tool Information

Drill Pipe:	Length: 4816.00 ft	Diameter: 3.80 inches	Volume: 67.56 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 123.55 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 62000.00 lb
		Total Volume:	68.17 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.55 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4932.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	41.00 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			4910.00	
Shut In Tool	5.00			4915.00	
Hydraulic tool	5.00			4920.00	
Safety Joint	3.00			4923.00	
Packer	5.00			4928.00	23.00 Bottom Of Top Packer
Packer	4.00			4932.00	
Stub	1.00			4933.00	
Recorder	0.00	8017	Inside	4933.00	
Recorder	0.00	8352	Outside	4933.00	
Perforations	14.00			4947.00	
Bullnose	3.00			4950.00	18.00 Bottom Packers & Anchor

Total Tool Length: 41.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co. Inc.

Jake #3

605 S. 6th
PO Box 124
Klaw a, KS 67070-1912
ATTN: Arden Ratzlaff

13-33s-11w Barber, KS
Job Ticket: 43520 DST#: 2
Test Start: 2011.07.28 @ 16:15:05

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 7.96 in*
Resistivity: ohm.m
Salinity: 4300.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: 7500 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	M/W/oil specks in tool m=20% w=80%	0.838
0.00	GIP= 100ft	0.000

Total Length: 140.00 ft Total Volume: 0.838 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

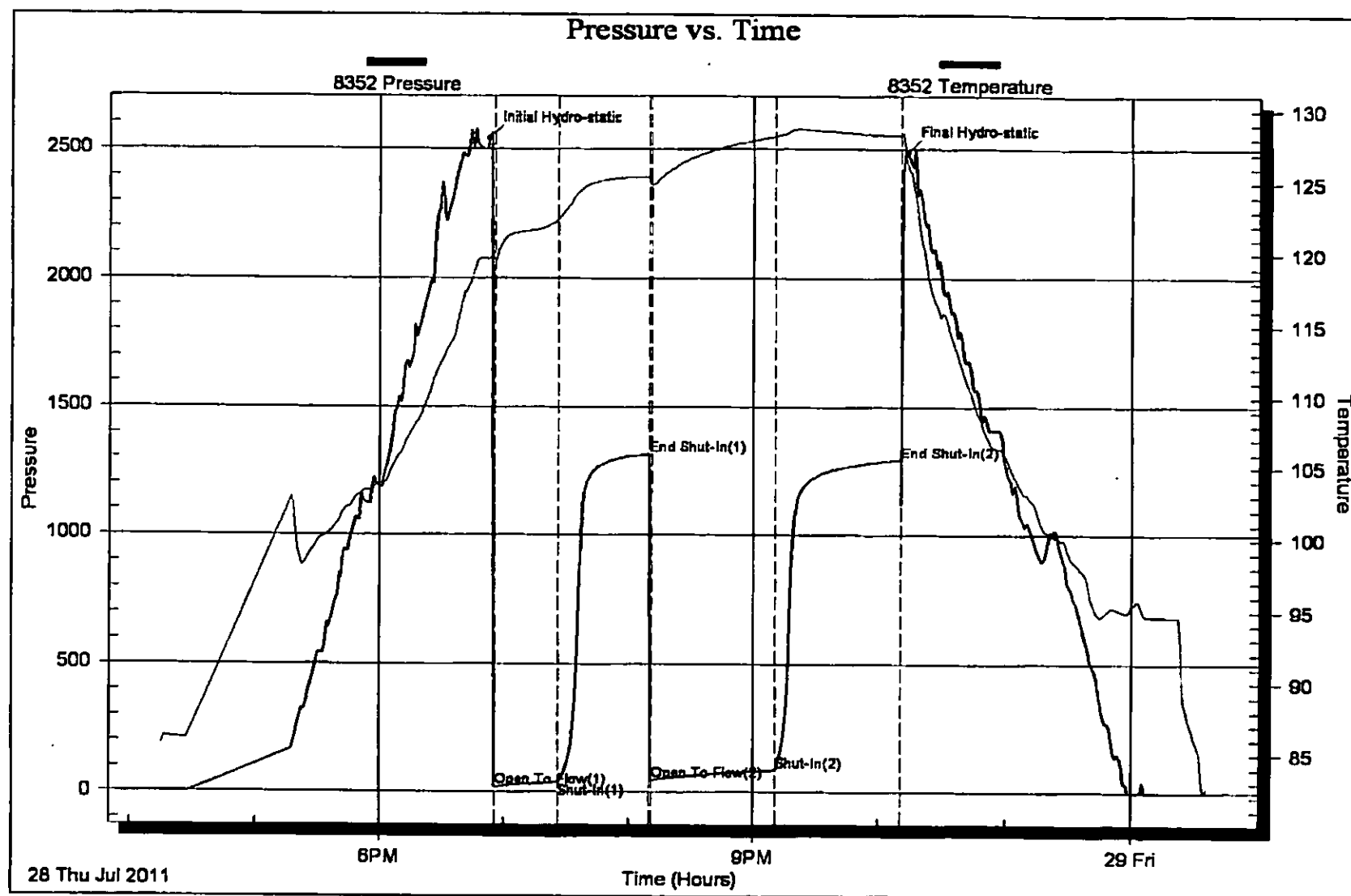
Recovery Comments:

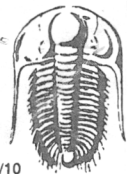
Serial #: 8352

Outside Chieftain Oil Co. Inc.

13-33s-11w Barber, KS

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

RECEIVED
AUG 01 2011

NO. 43519 16099

Well Name & No. TAKE #3 Test No. 1 Date 7-26-11
 Company Chieftain Oil Co. Inc Elevation 1596 KB 1588 GL
 Address 600 56th PO BOX 124 KIONA KS 67070-1912
 Co. Rep / Geo. Arden Ratzlaff Rig Fossil #2
 Location: Sec. 13 Twp. 33S Rge. 11W Co. Barber State KS

Interval Tested 4401-4449 Zone Tested Heath
 Anchor Length 48' Drill Pipe Run 4285.45 Mud Wt. 9.3
 Top Packer Depth 4396 Drill Collars Run 123.55 Vis 53
 Bottom Packer Depth 4401 Wt. Pipe Run 0 WL 8.0
 Total Depth 4449 Chlorides 3100 ppm System LCM 0

Blow Description IF: 1 1/2" blow in 20 min
IS: No Return
FF: Weak, 1 inch blow, died in 40 min
FS: No Return

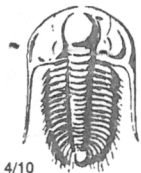
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>mud w/ slight oil specks in tool</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20' BHT 115° Gravity 1225 API RW 134.40 @ 1105 °F Chlorides 3100 ppm

(A) Initial Hydrostatic 2241 ☒ Test 1225 T-On Location 0338
 (B) First Initial Flow 19 ☐ Jars T-Started 0416
 (C) First Final Flow 23 ☒ Safety Joint 75 T-Open 0604
 (D) Initial Shut-In 44 ☐ Circ Sub T-Pulled 0904
 (E) Second Initial Flow 19 ☐ Hourly Standby T-Out 1105
 (F) Second Final Flow 23 ☒ Mileage 9621 134.40 Comments
 (G) Final Shut-In 40 ☐ Sampler
 (H) Final Hydrostatic 2188 ☐ Straddle ☐ Ruined Shale Packer
☐ Shale Packer ☐ Ruined Packer
☐ Extra Packer ☐ Extra Copies

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 Sub Total 1434.40
 Sub Total 1317.01
 Total 1315.41
 MP/DST Disc't

Approved By Arden Ratzlaff Our Representative Andy Can
 Trilobite Testing Inc. shall not be liable for damaged or destroyed property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
AUG 01 2011

Test Ticket

NO. 43520

Well Name & No. JAKE #3 Test No. 2 Date 7-28-11
Company Chieftain Oil Co. Inc. Elevation 1596 KB 1588 GL
Address 605 56th PO Box 124 Kiowa KS. 67070 + 1912
Co. Rep / Geo. Arden Ratzlaff Rig Fossil #2
Location: Sec. 13 Twp. 33S Rge. 11W Co. Barber State Ks.

Interval Tested 4932-4950 Zone Tested Misener
Anchor Length 18' Drill Pipe Run 4816 Mud Wt. 9.3
Top Packer Depth 4927 Drill Collars Run 123.55 Vis 58
Bottom Packer Depth 4932 Wt. Pipe Run 0 WL 8.0
Total Depth 4950 Chlorides 4300 ppm System LCM 3#

Blow Description IF: 11 inches in 30 min.
IS: No Return
FF: BOB, 57 min.
FS: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>100</u>	Feet of <u>GIP</u>				
Rec <u>140</u>	Feet of <u>MW w/ slight oil specks in tool</u>			<u>80%</u>	<u>20%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 140' BHT 128° Gravity 12.25 API RW .61 @ 87 °F Chlorides 7500 ppm

(A) Initial Hydrostatic 2539
(B) First Initial Flow 19
(C) First Final Flow 39
(D) Initial Shut-In 1312
(E) Second Initial Flow 44
(F) Second Final Flow 83
(G) Final Shut-In 1288
(H) Final Hydrostatic 2487

☒ Test 1225
☐ Jars
☒ Safety Joint 75
☐ Circ Sub
☐ Hourly Standby
☒ Mileage 96 RT 134.40
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☒ Day Standby 1 day + 10 hrs
☐ Accessibility
Sub Total 1434.40

T-On Location 14:37
T-Started 16:15
T-Open 18:55
T-Pulled 22:10
T-Out 0035
Comments 53 hrs between Tests 1 & 2.
34 hrs between Dst 2 & Tools ^{Pickup}
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total 800
Total 2234.40
MP/DST Disc't

Initial Open 30
Initial Shut-In 45
Final Flow 60
Final Shut-In 60

Approved By

Our Representative

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