

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	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)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	RF Hembree Oil, LLC
Well Name	PARKER 9
Doc ID	1424422

All Electric Logs Run

Cement Bond Log
Compensated Density/Neutron PE Log
Dual Induction
Micro

Form	ACO1 - Well Completion
Operator	RF Hembree Oil, LLC
Well Name	PARKER 9
Doc ID	1424422

Tops

Name	Top	Datum
Top Anhydrite	1506	+751
Btm Anhydrite	1543	+714
Heebner	3639	-1382
Toronto	3658	-1401
Lansing	3679	-1422
BKC	3978	-1721
Marmaton	4014	-1757
Pawnee	4101	-1844
Ft. Scott	4182	-1925
Cherokee	4207	-1950
Mississippi Reworked	4268	-2011
Mississippi Dol.	4273	-2016
RTD	4283	-2026
LTD	4284	-2027



3613A Y Road  
Madison, KS 66860  
Ph: 620-437-2661  
Fax: 620-437-2881



HURRICANE SERVICES INC

104 Prairie Plaza Parkway  
Garnett, KS 66032  
Ph: 785-448-3100  
Fax: 785-448-3102

FED ID# 48-1214033  
MC ID# 165290

Remit to: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202

Customer:  
RF HEMBREE OIL LLC  
PO BOX 542  
NESS CITY, KS 67560

Invoice Date: 8/30/2018  
Invoice #: 0039800  
Lease Name: PARKER  
Well #: 9 (NEW)  
County: NESS

Date/Description	HRS/QTY	Rate	Total
ICT1348 Cement New well	0.000	0.000	0.00
Heavy Eq Mileage	1.000	3.250	3.25
Light Eq Mileage	1.000	1.500	1.50
Ton Mileage	1.000	1.300	1.30
Cement Class A	150.000	16.250	2,437.50
Bentonite Gel	250.000	0.300	75.00
Calcium Chloride	350.000	1.000	350.00
Pheno Seal	40.000	1.700	68.00
Cement Pump	1.000	950.000	950.00

*Surface Pipe*

**Total** 3,886.55

All invoices are due upon receipt. Interest at the rate of 1 1/2% per month may be charged on all invoices not paid within 30 days from date of invoice.

*Paid #5762  
Sept.*

**WE APPRECIATE YOUR BUSINESS!**







3613A Y Road  
 Madison, KS 66860  
 Ph: 620-437-2661  
 Fax: 620-437-2881



HURRICANE SERVICES INC

104 Prairie Plaza Parkway  
 Garnett, KS 66032  
 Ph: 785-448-3100  
 Fax: 785-448-3102

FED ID# 48-1214033  
 MC ID# 165290

Remit to: Hurricane Services, Inc.  
 250 N. Water, Suite 200  
 Wichita, KS 67202

Customer:

RF HEMBREE OIL LLC  
 PO BOX 542  
 NESS CITY, KS 67560

Invoice Date: 9/8/2018  
 Invoice #: 0039848  
 Lease Name: PARKER  
 Well #: 9 (NEW)  
 County: NESS

Date/Description	HRS/QTY	Rate	Total
ICT1364 Cement port collar	0.000	0.000	0.00
Heavy Eq Mileage	1.000	3.250	3.25
Light Eq Mileage	1.000	1.500	1.50
Minimum Ton Mileage chg	1.000	255.000	255.00
Cement Pump	1.000	807.500	807.50
Cement Class A	220.000	13.813	3,038.75
Salt	23.500	5.950	139.83
CFL160-Fluidloss additive	49.000	7.012	343.61
KOL Seal	1,050.000	0.553	580.13
GYP Seal	1,050.000	0.383	401.63
Defoamer CAF-38	49.000	5.092	249.50
Metsolite	180.000	1.513	272.34
Guide Shoe - 4 1/2"	1.000	124.950	124.95
4 1/2" Port Collar	1.000	2,656.630	2,656.63
4 1/2" Float Collar	1.000	314.500	314.50
Auto fill kits (inserts)	1.000	29.750	29.75
Centralizers 4 1/2"	5.000	46.750	233.75
4 1/2" Turbolizers	4.000	54.188	216.75
Cement baskets 4 1/2"	1.000	248.630	248.63
4 1/2" LD Plug & Baffle	1.000	238.000	238.00
Cement Data Acquisition	1.000	595.000	595.00
Cement plug container	1.000	233.750	233.75

*long string*

**Total** 10,984.75

All invoices are due upon receipt. Interest at the rate of 1 1/2% per month may be charged on all invoices not paid within 30 days from date of invoice.

**WE APPRECIATE YOUR BUSINESS!**



HURRICANE SERVICES INC

<b>Customer</b>	Hambree oil	<b>Lease &amp; Well #</b>	Parker #9		<b>Date</b>	9/8/2018	
<b>Service District</b>	Medicine Lodge	<b>County &amp; State</b>	Ness, KS		<b>Legals S/T/R</b>	<b>Job #</b>	
<b>Job Type</b>	<input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	<b>New Well?</b>	<input type="checkbox"/> YES <input type="checkbox"/> No	<b>Ticket #</b>	ICT1364		
<b>Equipment #</b>	<b>Driver</b>	<b>Job Safety Analysis - A Discussion of Hazards &amp; Safety Procedures</b>					
231	Ryan/Garret	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
242	Daryl	<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
28	Bill	<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations		
		<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations		
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			
<b>Comments</b>							
all cement, chemicals, and float equipment out of Medicine Lodge. Port collar @1569'							
<b>Product/ Service Code</b>	<b>Description</b>	<b>Unit of Measure</b>	<b>Quantity</b>				<b>Net Amount</b>
6001	Heavy Equip. One Way	mi	1.00				\$3.25
6002	Light Equip. One Way	mi	1.00				\$1.50
6003	Minimum Ton Mile Charge	ea	1.00				\$255.00
6019	Cement Pump	ea	1.00				\$807.50
6026	Regular - Class A Cement	sack	219.50				\$3,038.75
6029	Salt	sack	23.50				\$139.83
6030	Fluid Loss Additive - Cementing	lb	43.00				\$343.61
6038	KOL-Seal	lb	1,060.00				\$580.13
6039	GYP-Seal	lb	1,060.00				\$401.63
6035	Defoamer	lb	49.00				\$249.90
6036	Metsolite	lb	100.00				\$272.34
6060	4 1/2" Guide Shoe	ea	1.00				\$124.95
	4 1/2 float collar		1.00				\$314.50
6093	Auto Fill Kits (inserts)	ea	1.00				\$29.75
6031	4 1/2" Centralizers	ea	5.00				\$233.75
6022	4 1/2" Turbolizers	ea	4.30				\$216.75
6030	4 1/2" Cement Baskets	ea	1.00				\$248.63
6074	4 1/2" Port Collar	ea	1.00				\$2,656.25
6073	4 1/2" LD Plug & Baffle	ea	1.00				\$238.00
6010	Cement Data Acquisition	job	1.00				\$595.00
6012	Cement Plug Container	job	1.00				\$233.75
<b>Customer Section: On the following scale how would you rate Hurricane Services Inc.?</b>							<b>Net:</b> \$10,984.75
<b>Based on this job, how likely is it you would recommend HSI to a colleague?</b>							<b>Total Taxable</b> \$ - <b>Tax Rate:</b>
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <small>(Example: 10)</small>							<b>Sale Tax:</b> \$ -
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.							<b>Total:</b> \$ 10,984.75
HSI Representative: <i>Bill Spaulding</i>							

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X *Fred Hambree* **CUSTOMER AUTHORIZATION SIGNATURE**

**TREATMENT REPORT**



**HURRICANE SERVICES INC**

<b>Customer:</b> Hembree Oil	<b>Date:</b> 9/8/2018	<b>Ticket #:</b> ICT1364
<b>Field Rep:</b> Fred Hembree		
<b>Address:</b> P.O. box 542		
<b>City, State:</b> Ness City Kansas		
<b>County, Zip:</b> Ness		

<b>Field Order No.:</b>		<b>Open Hole:</b>	7 7/8	<b>Perf Depths (ft)</b>	<b>Perfs</b>
<b>Well Name:</b>	Parker #9	<b>Casing Depth:</b>	4163		
<b>Location:</b>	Ness, Kansas	<b>Casing Size:</b>	4 1/2		
<b>Formation:</b>		<b>Tubing Depth:</b>			
<b>Type of Service:</b>	cement	<b>Tubing Size:</b>			
<b>Well Types:</b>	oil & gas	<b>Liner Depth:</b>			
<b>Age of Well:</b>	new	<b>Liner Size:</b>			
<b>Packer Type:</b>		<b>Liner Top:</b>			
<b>Packer Depth:</b>		<b>Liner Bottom:</b>			
<b>Treatment Via:</b>		<b>Total Depth:</b>			
				<b>Total Perfs</b>	<b>0</b>

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
9:30 PM					arrive location			
9:30 AM					safety meeting/ rig up			
6:45 AM				150.0	pumped h2o			5.00
6:50 AM				150.0	pumped polymer mud flush			10.00
7:00 AM				125.0	pumped h2o			10.00
7:10 AM				100.0	mixed cement @ 15 ppg,			52.00
7:30 AM					cleared pumps and lines			
7:40 AM				640.0	displaced h2o			65.50
8:10 AM				1,250.0	landed plug			
8:15 AM					checked floats			
8:30 AM					filled rat hole			8.00
8:45 AM					waashed up			
8:50 AM					rigged down			
9:00 AM					departed location			
<b>TOTAL:</b>						-	-	150.50

SUMMARY			
Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
-	#DIV/0!	-	#DIV/0!

**PRODUCTS USED**

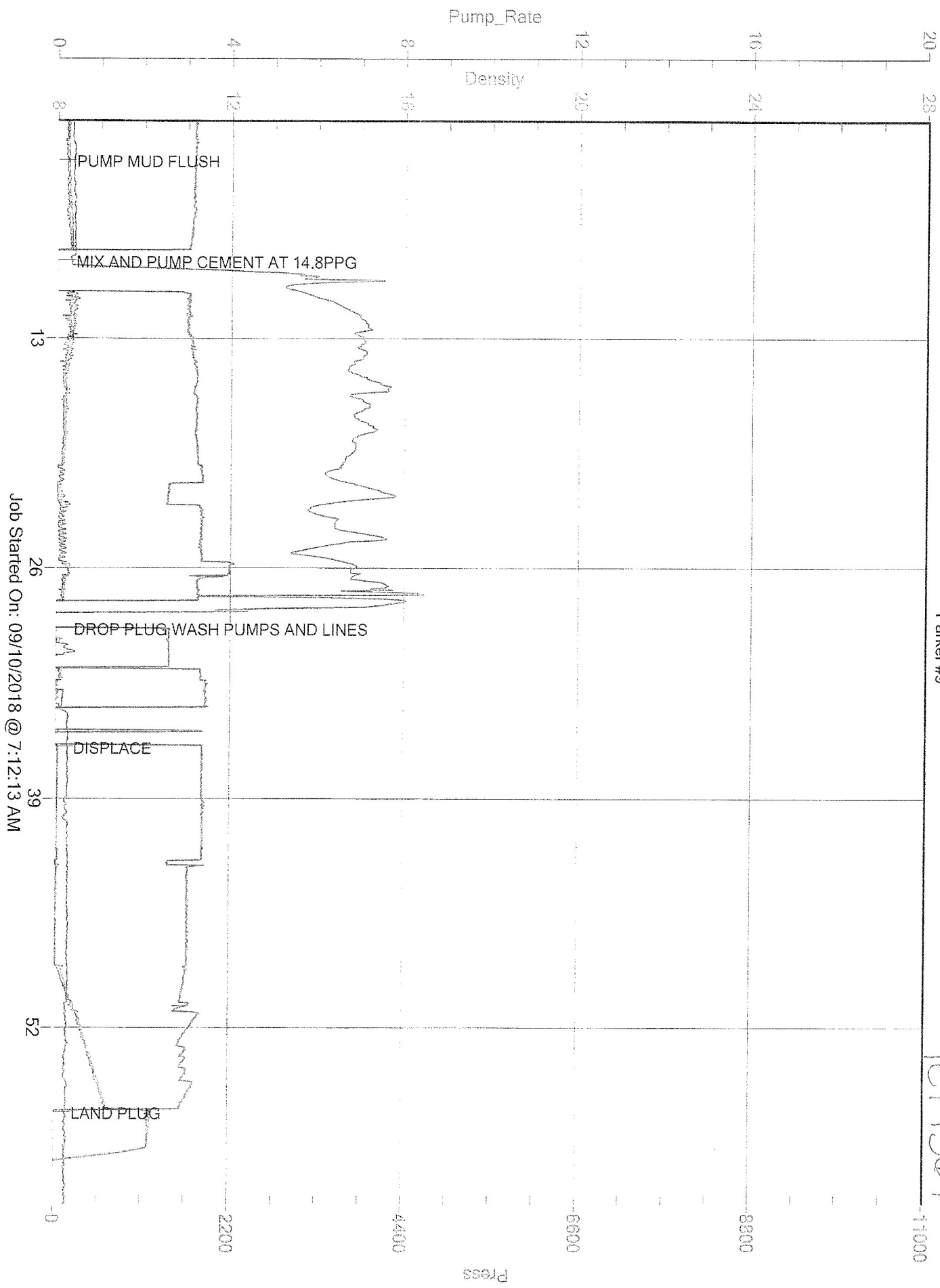
220 sacks class a, w/10% salt, 5% gyp., 1% metasi. 5lbs/sk kol seal. .23

Treater: Bill Spaulding

Customer: Fred Hembree

Hembree oil  
Parker #9

1CT 1304



Job Started On: 09/10/2018 @ 7:12:13 AM

3613A Y Road  
Madison, KS 66860  
Ph: 620-437-2661  
Fax: 620-437-2881



HURRICANE SERVICES INC

104 Prairie Plaza Parkway  
Garnett, KS 66032  
Ph: 785-448-3100  
Fax: 785-448-3102

FED ID# 48-1214033  
MC ID# 165290

Remit to: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202

Customer:

RF HEMBREE OIL LLC  
PO BOX 542  
NESS CITY, KS 67560

Invoice Date: 9/14/2018  
Invoice #: 0039931  
Lease Name: Parker  
Well #: 9 (new)  
County: Ness

Date/Description	HRS/QTY	Rate	Total
ICT1382 Port Collar (New)	0.000	0.000	0.00
Heavy Eq Mileage	144.000	2.763	397.80
Light Eq Mileage	144.000	1.275	183.60
Cement Pump	1.000	807.500	807.50
Cement Class A	25.000	13.812	345.31
GYP Seal	47.000	0.383	17.98
Pheno Seal	6.250	1.445	9.03
Metsolite	47.000	1.513	71.11
Calcium Chloride	70.000	0.850	59.50

*Port collar  
@ 1610'*

**Total** 1,891.83

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**WE APPRECIATE YOUR BUSINESS!**



HURRICANE SERVICES INC

<b>Customer</b>	Hambrose oil	<b>Lease &amp; Well #</b>	Parker #0	<b>Date</b>	9/11/2018
<b>Service District</b>	Medicine Lodge	<b>County &amp; State</b>	Ness, Ks	<b>Legal S/N/R</b>	
<b>Job Type</b>	port collar <input type="checkbox"/> P100 <input type="checkbox"/> P101 <input type="checkbox"/> P102 <input type="checkbox"/> P103 <input type="checkbox"/> P104 <input type="checkbox"/> P105 <input type="checkbox"/> P106 <input type="checkbox"/> P107 <input type="checkbox"/> P108 <input type="checkbox"/> P109 <input type="checkbox"/> P110 <input type="checkbox"/> P111 <input type="checkbox"/> P112 <input type="checkbox"/> P113 <input type="checkbox"/> P114 <input type="checkbox"/> P115 <input type="checkbox"/> P116 <input type="checkbox"/> P117 <input type="checkbox"/> P118 <input type="checkbox"/> P119 <input type="checkbox"/> P120	<b>New Well?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Job #</b>	
<b>Equipment #</b>	<b>Driver</b>	<b>Job Safety Analysis - A Discussion of Hazards &amp; Safety Procedures</b>			
231	joe	<input type="checkbox"/> Hard Hat	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Safety Vest/Vest	<input type="checkbox"/> Warning Signs & Flagging
242	kenny	<input type="checkbox"/> HSS M. L. Tool	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Snorkel/Tall Boots	<input type="checkbox"/> Fall Protection
72	bill	<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Appropriate PPE	<input type="checkbox"/> C-Head Protection	<input type="checkbox"/> Operate Job Site per OSHA regulations
		<input type="checkbox"/> PPE (HSS M. L. Tool)	<input type="checkbox"/> Appropriate PPE	<input type="checkbox"/> C-Head Protection	<input type="checkbox"/> Maintain 100% Fall Protection
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Size 50% of Max	<input type="checkbox"/> Appropriate PPE	<input type="checkbox"/> Maintain 100% Fall Protection
<b>Comments</b>					
offshore and standing out of the medicine lodge					

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
0001	Heavy Equip. One Way	mi	144.00	\$117.60
0002	Light Equip. One Way	mi	144.00	\$422.60
0019	Current Pump	ea	1.00	\$667.80
0008	Pumpup - Class A Cement	bbl	25.00	\$615.31
0019	Grp Sand	lb	47.00	\$17.96
0027	Plena Sand	lb	6.05	\$9.03
0008	Flt. Silt	lb	47.00	\$71.11
0017	Calcium - Chl. Silt	lb	76.00	\$59.50

Customer Satisfaction: On the following scale how would you rate Hurricane Services, Inc.?

<b>Total Taxable</b>	\$ -	<b>Tax Rate:</b>		<b>Math:</b>	\$1,201.99
<b>BS-13 on this job, how likely is it you would recommend HSI to a colleague?</b> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10					<b>Sale Tax:</b> \$ - <b>Total:</b> \$ 1,201.99
HSI Representative:					

**TERMS:** Construction services provided by HSI are subject to the HSI terms and conditions of service. The HSI terms and conditions of service are available on the HSI website at www.hsiconsulting.com. The HSI terms and conditions of service are also available in the HSI contract documents. The HSI terms and conditions of service are subject to change without notice. The HSI terms and conditions of service are not intended to constitute an offer of insurance. The HSI terms and conditions of service are not intended to constitute an offer of any other financial product. The HSI terms and conditions of service are not intended to constitute an offer of any other financial product. The HSI terms and conditions of service are not intended to constitute an offer of any other financial product. The HSI terms and conditions of service are not intended to constitute an offer of any other financial product.

x. Fred J. Hambrose

CUSTOMER AUTHORIZATION SIGNATURE

TREATMENT REPORT



HURRICANE SERVICES INC

Customer:	Hembree Oil	Date:	9/14/2018	Ticket #:	ict 1382
Field Rep:	Fred Hembree				
Address:	P.O. Box 542				
City, State:	Ness City	Kansas			
County, Zip:	Ness				

Field Order No:		Open Hole:	7 7/8	Perf Depths (ft)	Perfs
Well Name:	Paker #9	Casing Depth:			
Location:	Ness City	Casing Size:			
Formation:		Tubing Depth:	1619'		
Type of Service:	Port Collar	Tubing Size:	2 3/8		
Well Type:	oil and gas	Liner Depth:			
Age of Well:	new	Liner Size:			
Packer Type:		Liner Top:			
Packer Depth:		Liner Bottom:			
Treatment Use:		Total Depth:			
				Total Perfs	0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N2/O2	STP	ANNULUS				
8:00 AM					arrive location			
9:00 AM					safety meeting			
10:00 AM				1,000.0	pressure up on well			
11:30 AM					stuffed tool pumped h2o			6.50
12:00 PM				220.0	mixed cement @11.2 spg, yield 3.28			15.80
12:15 PM				2,000.0	well bridged			
12:30 PM				2,000.0	closed tool pressured up			
12:35 PM					brack washed			20.00
12:45 PM					ran in 4 joints			
12:55 PM					brack washed			25.00
1:00 PM				1,000.0	pressure checked well			
1:05 PM					washed up rigged down			
1:15 PM					left location			
TOTAL:						-	-	66.30

Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
-	#DIV/0!	-	#DIV/0!

--

Treatment: \_\_\_\_\_

Customer: *Fred Hembree*

3613A Y Road  
Madison, KS 66860  
Ph: 620-437-2661  
Fax: 620-437-2881



HURRICANE SERVICES INC

104 Prairie Plaza Parkway  
Garnett, KS 66032  
Ph: 785-448-3100  
Fax: 785-448-3102

FED ID# 48-1214033  
MC ID# 165290

Remit to: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202

Customer:

RF HEMBREE OIL LLC  
PO BOX 542  
NESS CITY, KS 67560

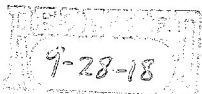
Invoice Date: 9/17/2018  
Invoice #: 0040005  
Lease Name: Parker  
Well #: 9 (New)  
County: Ness

Date/Description	HRS/QTY	Rate	Total
ICT1389 Squeeze New well	0.000	0.000	0.00
Heavy Eq Mileage	288.000	3.250	936.00
Light Eq Mileage	144.000	1.500	216.00
Ton Mileage	835.200	1.105	922.90
Pump truck 230	1.000	807.500	807.50
Cement Class A	240.000	13.813	3,315.00
Calcium Chloride	600.000	0.850	510.00
GYP Seal	200.000	0.383	76.50
Pheno Seal	40.000	1.445	57.80

*perforated  
Anhydrite  
@ 1520*

**Total** 6,841.70

All invoices are due upon receipt. Interest at the rate of 1 1/2% per month may be charged on all invoices not paid within 30 days from date of invoice.



**WE APPRECIATE YOUR BUSINESS!**





**HURRICANE SERVICES INC**

<b>Customer</b>	Hambree Oil	<b>Truss &amp; Well #</b>	Partner #0	<b>Date</b>	9/17/2018
<b>Service District</b>	Medicine Lodge	<b>County &amp; State</b>	Neosho, KS	<b>Job #</b>	
<b>Job Type</b>	SQUEEZE	<input type="checkbox"/> F200	<input type="checkbox"/> SWD	<input type="checkbox"/> New Well?	<input type="checkbox"/> YES <input type="checkbox"/> NO
<b>Equipment #</b>		<input type="checkbox"/> INU		<b>Ticket #</b>	1811330

**Job Safety Analysis - A Discussion of Hazards & Safety Procedures**

Equipment #	Driver	Hazards	Safety Procedures
230	Travis	<input type="checkbox"/> Hard Hat	<input type="checkbox"/> Chances
242	Garret	<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection
29	Bill	<input type="checkbox"/> Safety Equipment	<input type="checkbox"/> Proper Hoisting Technique
		<input type="checkbox"/> PPE/ Fall Protection	<input type="checkbox"/> Additional Clearances
		<input type="checkbox"/> Hoisting Procedures	<input type="checkbox"/> Fire Extinguisher
			<input type="checkbox"/> Additional Hazards/Procedures

**Comments**

all cement and cleanouts out of Medicine Lodge

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
6001	Heavy Equip. One Way	mi	200.00	\$200.00
6003	Light Equip. One Way	mi	161.00	\$219.00
6010	Tub Mills - One Way	mi	238.25	\$302.60
6018	Cement Pump	sq	1.00	\$507.50
6025	Engine - Diesel A/C - used	hr	240.00	\$5,910.00
6027	Oil - 15W-40	lb	500.00	\$910.00
6029	GP - S-1	lb	100.00	375.00
6037	Flux - S-1	lb	40.00	357.50

Customer: Hambree Oil, 250 N. Water St., Suite #200, Wichita, KS 67202

Net: **\$6,041.70**

Based on this job, how likely is it you would recommend HSI to a colleague?

1  
  2  
  3  
  4  
  5  
  6  
  7  
  8  
  9  
  10

<b>Total Taxable</b>	\$ -	<b>Tax Rate:</b>	
<b>Sub Total:</b>	\$ -	<b>Total:</b>	\$ 6,041.70

HSI Representative: **Bill Spaulding**

TERMS: Payment due within 30 days of invoice. Late payment penalties apply. HSI is not responsible for any damage to or loss of equipment or materials caused by the customer's negligence. HSI has the right to make any changes to the price of any work performed. HSI is not responsible for any damage to or loss of equipment or materials caused by the customer's negligence. HSI has the right to make any changes to the price of any work performed. HSI is not responsible for any damage to or loss of equipment or materials caused by the customer's negligence. HSI has the right to make any changes to the price of any work performed.

X *[Signature]*

**CUSTOMER AUTHORIZATION SIGNATURE**

**TREATMENT REPORT**



**HURRICANE SERVICES INC**

<b>Customer:</b> Hembree Oil	<b>Date:</b> 2/17/2018	<b>Ticket #:</b> ict 1389
<b>Field Rep:</b> Fred Hembree		
<b>Address:</b> P.O. Box 642		
<b>City, State:</b> Ness City Kansas		
<b>County, Zip:</b> Ness		

<b>Field Order No.:</b>		<b>Open Hole:</b> 7 7/8	<b>Perf Depths (ft)</b>		<b>Perfs</b>
<b>Well Name:</b> Parker #9		<b>Casing Depth:</b>	1,520.0	1,524.0	4
<b>Location:</b> Ness Co.		<b>Casing Size:</b>			
<b>Formation:</b>		<b>Tubing Depth:</b> 1250			
<b>Type of Service:</b> Cement		<b>Tubing Size:</b> 2 3/8			
<b>Well Type:</b> Oil and Gas		<b>Liner Depth:</b>			
<b>Age of Well:</b> new		<b>Liner Size:</b>			
<b>Packer Type:</b>		<b>Liner Top:</b>			
<b>Packer Depth:</b>		<b>Liner Bottom:</b>			
<b>Treatment Vols:</b>		<b>Total Depth:</b>			
					<b>Total Perfs</b> 4

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (qls)	FLUID (bbls)
	FLUID	WZICQZ	STP	ANNULUS				
9:30 AM					arrive location			
9:35 AM					safety meeting			
10:00 AM					rig up			
10:10 AM					test bridge plug			
10:50 AM				300.0	pump sand			7.50
11:00 AM				500.0	pressure up back side			
11:15 AM				2000.0	pump into perfs			6.00
11:30 AM					pump polymer flush			10.00
11:45 AM				373.0	mix cement @11.2 gyp, 3.28 yield			70.00
12:30 PM				370.0	mix cement @15.6 gyp, 1.18 yield			25.00
12:35 PM					clear pumps and lines			
12:43 PM				3 3.0	displace w/ H <sub>2</sub> O			6.00
1:20 PM				310.0	stage cement			0.50
1:40 PM				415.0	stage cement			0.50
2:00 PM				700.0	stage cement			0.50
2:10 PM					released pressure			
2:15 PM				400.0	back washed			16.00
2:20 PM				700.0	put psi on well closed valve			
<b>TOTAL:</b>								142.00

SUMMARY			
Max FL Rate	Avg FL Rate	Max PSI	Avg PSI
-	#DIV/0!	-	#DIV/0!

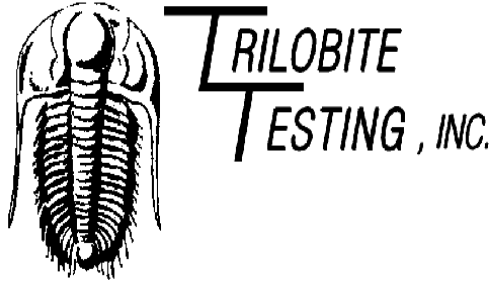
**PRODUCTS USED**

120 sls class a w/2% calcium, 2% gyp, 2% metasilicate, .25 lb/sk pher

Treater: Bill Sparkling

Customer: Fred Hembree





## DRILL STEM TEST REPORT

Prepared For: **RF Hembree Oil**  
PO Box 542  
Ness City, KS 67560

ATTN: Wyatt Urban

### **Parker #9**

### **25-18S-24W Ness,KS**

Start Date: 2018.09.05 @ 14:10:27

End Date: 2018.09.05 @ 21:58:29

Job Ticket #: 63966                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.09.11 @ 08:29:25



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

RF Hembree Oil  
 PO Box 542  
 Ness City, KS 67560  
 ATTN: Wyatt Urban

**25-18S-24W Ness,KS**

**Parker #9**

Job Ticket: 63966

**DST#: 1**

Test Start: 2018.09.05 @ 14:10:27

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 16:08:29  
 Tester: Leal Cason  
 Time Test Ended: 21:58:29  
 Unit No: 74  
 Interval: **3945.00 ft (KB) To 4068.00 ft (KB) (TVD)**  
 Reference Elevations: 2257.00 ft (KB)  
 Total Depth: 4068.00 ft (KB) (TVD)  
 2250.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 7.00 ft

**Serial #: 8875**

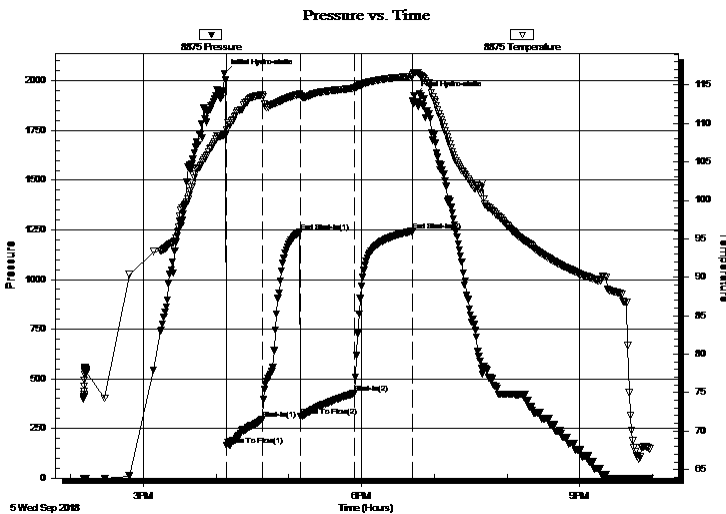
**Inside**

Press@RunDepth: 426.51 psig @ 3946.00 ft (KB) Capacity: psig  
 Start Date: 2018.09.05 End Date: 2018.09.05 Last Calib.: 2018.09.05  
 Start Time: 14:10:28 End Time: 21:58:29 Time On Btm: 2018.09.05 @ 16:06:44  
 Time Off Btm: 2018.09.05 @ 18:43:14

**TEST COMMENT:** IF: Strong Blow , BOB in 90 seconds, Built to 187"  
 IS: Blow Back Built to 1"  
 FF: Strong Blow , BOB in 3 minutes, Built to 125"  
 FS: Blow Back Built to 3"

## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2037.75	108.56	Initial Hydro-static
2	165.04	108.67	Open To Flow (1)
32	296.82	113.67	Shut-In(1)
63	1238.65	113.79	End Shut-In(1)
63	312.83	113.58	Open To Flow (2)
107	426.51	114.59	Shut-In(2)
155	1242.91	116.13	End Shut-In(2)
157	1925.31	116.56	Final Hydro-static



## Recovery

Length (ft)	Description	Volume (bbl)
0.00	1798' GIP	0.00
378.00	GOCM 30%G 20%O 50%M	5.30
565.00	GSY Oil 30%G 70%O	7.93
126.00	MCO 30%M 70%O	1.77

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

RF Hembree Oil

**25-18S-24W Ness,KS**

PO Box 542  
Ness City, KS 67560

**Parker #9**

Job Ticket: 63966

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2018.09.05 @ 14:10:27

## Tool Information

Drill Pipe:	Length: 3943.00 ft	Diameter: 3.80 inches	Volume: 55.31 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 55.31 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	3945.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	123.00 ft			
Tool Length:	142.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3931.00	
Hydraulic tool	5.00			3936.00	
Packer	5.00			3941.00	19.00 Bottom Of Top Packer
Packer	4.00			3945.00	
Stubb	1.00			3946.00	
Recorder	0.00	8875	Inside	3946.00	
Recorder	0.00	6749	Outside	3946.00	
Perforations	6.00			3952.00	
Change Over Sub	1.00			3953.00	
Drill Pipe	95.00			4048.00	
Change Over Sub	2.00			4050.00	
Perforations	15.00			4065.00	
Bullnose	3.00			4068.00	123.00 Bottom Packers & Anchor

**Total Tool Length: 142.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

RF Hembree Oil

**25-18S-24W Ness,KS**

PO Box 542  
Ness City, KS 67560

**Parker #9**

Job Ticket: 63966

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2018.09.05 @ 14:10:27

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

45.5 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	1798' GIP	0.000
378.00	GOCM 30%G 20%O 50%M	5.302
565.00	GSY Oil 30%G 70%O	7.925
126.00	MCO 30%M 70%O	1.767

Total Length: 1069.00 ft      Total Volume: 14.994 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity w as 46.4 @ 69 degrees



Serial #: 8875

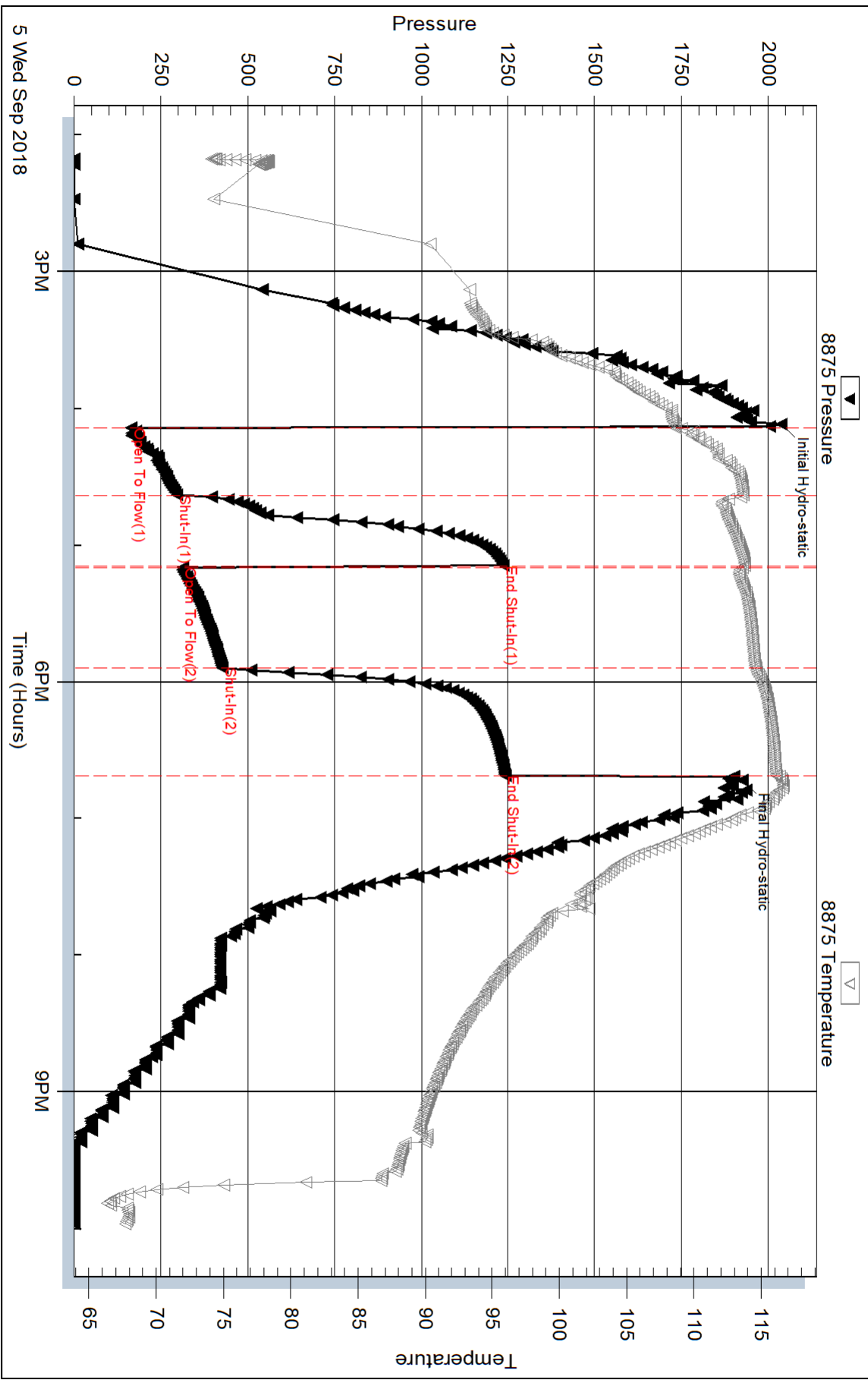
Inside

RF Hembree Oil

Parker #9

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63966

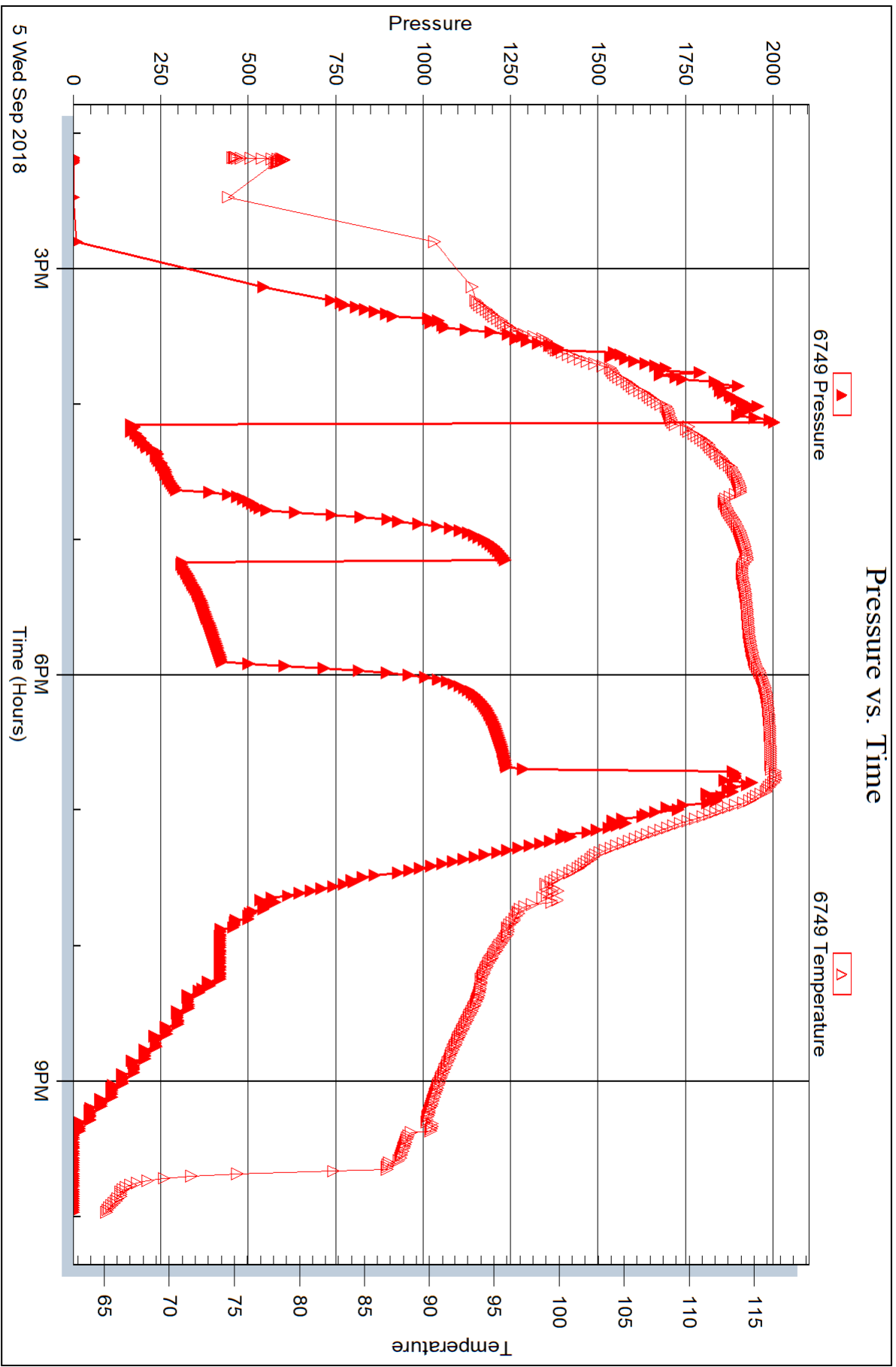
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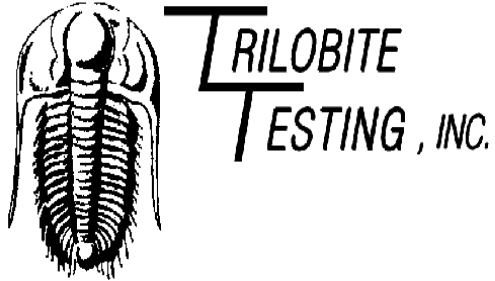
Serial #: 6749

Outside RF Hembree Oil

Parker #9

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **RF Hembree Oil**

PO Box 542  
Ness City, KS 67560

ATTN: Wyatt Urban

**Parker #9**

**25-18S-24W Ness,KS**

Start Date: 2018.09.06 @ 13:51:54

End Date: 2018.09.06 @ 19:39:56

Job Ticket #: 63967                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.09.11 @ 08:29:01



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

RF Hembree Oil  
 PO Box 542  
 Ness City, KS 67560  
 ATTN: Wyatt Urban

**25-18S-24W Ness,KS**

**Parker #9**

Job Ticket: 63967

**DST#: 2**

Test Start: 2018.09.06 @ 13:51:54

## GENERAL INFORMATION:

Formation: **Ft Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:51:41  
 Time Test Ended: 19:39:56  
 Interval: **4163.00 ft (KB) To 4212.00 ft (KB) (TVD)**  
 Total Depth: 4212.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Leal Cason  
 Unit No: 74  
 Reference Elevations: 2257.00 ft (KB)  
 2250.00 ft (CF)  
 KB to GR/CF: 7.00 ft

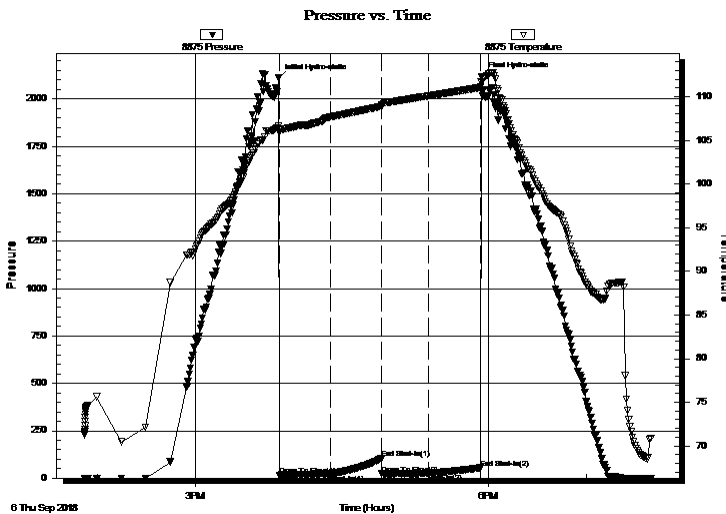
**Serial #: 8875**

**Inside**

Press@RunDepth: 25.21 psig @ 4164.00 ft (KB) Capacity: psig  
 Start Date: 2018.09.06 End Date: 2018.09.06 Last Calib.: 2018.09.06  
 Start Time: 13:51:57 End Time: 19:39:56 Time On Btm: 2018.09.06 @ 15:50:56  
 Time Off Btm: 2018.09.06 @ 17:55:41

**TEST COMMENT:** IF: Weak Blow , Built to 1 1/4"  
 IS: No Blow Back  
 FF: Weak Surface Blow  
 FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.95	106.62	Initial Hydro-static
1	15.66	105.89	Open To Flow (1)
32	21.30	107.66	Shut-In(1)
64	102.67	108.90	End Shut-In(1)
64	22.37	108.90	Open To Flow (2)
92	25.21	110.07	Shut-In(2)
125	54.35	111.07	End Shut-In(2)
125	2119.12	111.60	Final Hydro-static

## Recovery

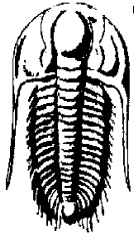
Length (ft)	Description	Volume (bbl)
25.00	SGCM 2%G 98%M	0.35

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

RF Hembree Oil  
PO Box 542  
Ness City, KS 67560  
ATTN: Wyatt Urban

**25-18S-24W Ness,KS**  
**Parker #9**  
Job Ticket: 63967      **DST#: 2**  
Test Start: 2018.09.06 @ 13:51:54

**Tool Information**

Drill Pipe:	Length: 4164.00 ft	Diameter: 3.80 inches	Volume: 58.41 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 58.41 bbl		Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4163.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4149.00	
Hydraulic tool	5.00			4154.00	
Packer	5.00			4159.00	19.00      Bottom Of Top Packer
Packer	4.00			4163.00	
Stubb	1.00			4164.00	
Recorder	0.00	8875	Inside	4164.00	
Recorder	0.00	6749	Outside	4164.00	
Perforations	6.00			4170.00	
Change Over Sub	1.00			4171.00	
Drill Pipe	32.00			4203.00	
Change Over Sub	2.00			4205.00	
Perforations	5.00			4210.00	
Bullnose	3.00			4213.00	50.00      Bottom Packers & Anchor

**Total Tool Length: 69.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

RF Hembree Oil  
 PO Box 542  
 Ness City, KS 67560  
 ATTN: Wyatt Urban

**25-18S-24W Ness,KS**  
**Parker #9**  
 Job Ticket: 63967      **DST#: 2**  
 Test Start: 2018.09.06 @ 13:51:54

**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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.02 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
25.00	SGCM 2%G 98%M	0.351

Total Length: 25.00 ft      Total Volume: 0.351 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 8875

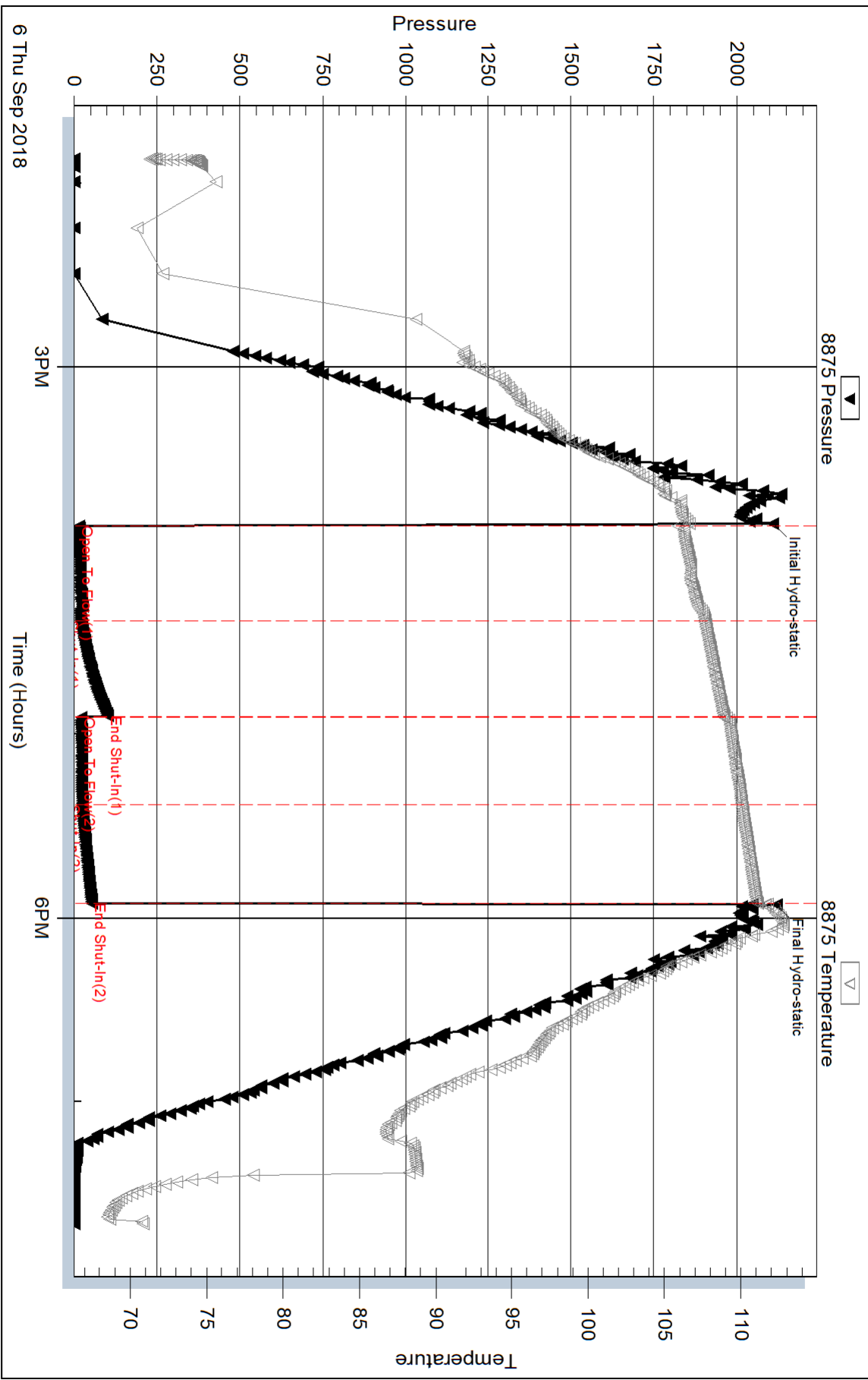
Inside

RF Hembree Oil

Parker #9

DST Test Number: 2

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 63967

Printed: 2018.09.11 @ 08:29:02

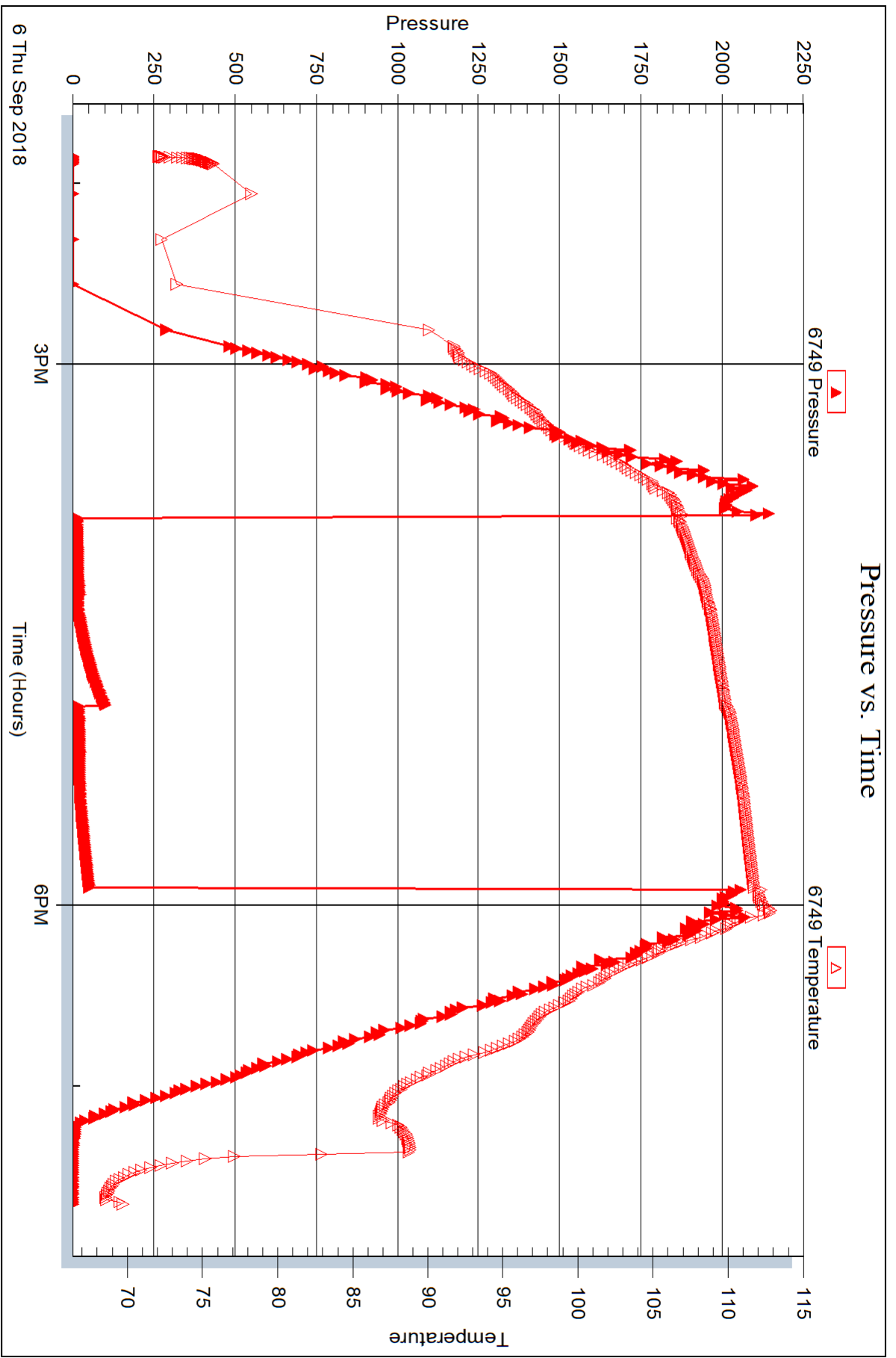


Serial #: 6749

Outside RF Hembree Oil

Parker #9

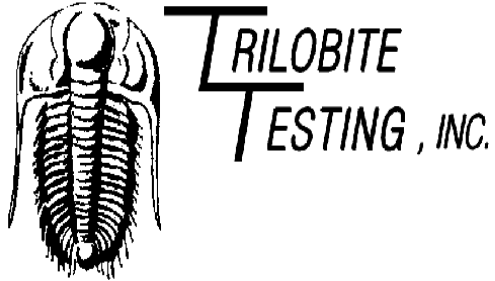
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63967

Printed: 2018.09.11 @ 08:29:03



## DRILL STEM TEST REPORT

Prepared For: **RF Hembree Oil**  
PO Box 542  
Ness City, KS 67560

ATTN: Wyatt Urban

### **Parker #9**

### **25-18S-24W Ness,KS**

Start Date: 2018.09.07 @ 08:52:19

End Date: 2018.09.07 @ 14:50:21

Job Ticket #: 63968                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.09.11 @ 08:28:37



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

RF Hembree Oil  
 PO Box 542  
 Ness City, KS 67560  
 ATTN: Wyatt Urban

**25-18S-24W Ness,KS**

**Parker #9**

Job Ticket: 63968

**DST#: 3**

Test Start: 2018.09.07 @ 08:52:19

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 10:47:06  
 Tester: Leal Cason  
 Time Test Ended: 14:50:21  
 Unit No: 74  
 Interval: **4221.00 ft (KB) To 4283.00 ft (KB) (TVD)**  
 Reference Elevations: 2257.00 ft (KB)  
 Total Depth: 4283.00 ft (KB) (TVD)  
 2250.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 7.00 ft

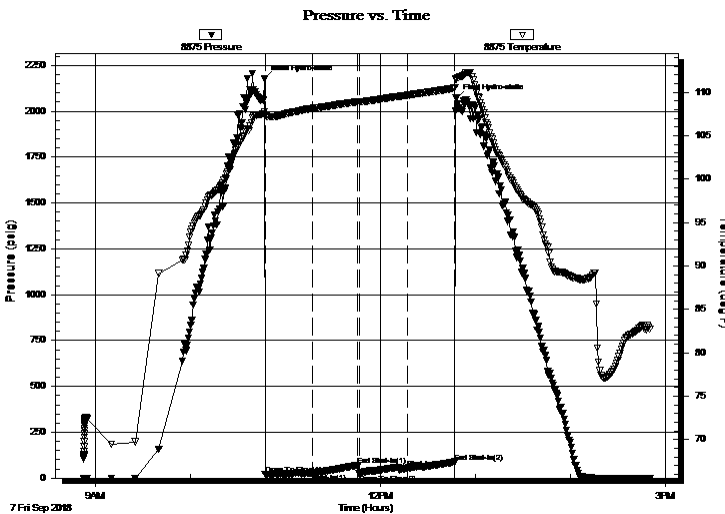
**Serial #: 8875**

**Inside**

Press@RunDepth: 53.86 psig @ 4222.00 ft (KB) Capacity: psig  
 Start Date: 2018.09.07 End Date: 2018.09.07 Last Calib.: 2018.09.07  
 Start Time: 08:52:20 End Time: 14:50:21 Time On Btm: 2018.09.07 @ 10:46:36  
 Time Off Btm: 2018.09.07 @ 12:47:51

**TEST COMMENT:** IF: Weak Blow , Built to 1 1/2"  
 IS: No Blow Back  
 FF: Weak Surface Blow  
 FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2174.96	107.81	Initial Hydro-static
1	20.18	107.33	Open To Flow (1)
31	24.53	108.13	Shut-In(1)
60	70.67	108.91	End Shut-In(1)
60	22.31	108.92	Open To Flow (2)
91	53.86	109.65	Shut-In(2)
121	88.31	110.51	End Shut-In(2)
122	2071.19	111.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	SOCM 2%O 98%M	0.35

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

RF Hembree Oil

**25-18S-24W Ness,KS**

PO Box 542  
Ness City, KS 67560

**Parker #9**

Job Ticket: 63968

**DST#: 3**

ATTN: Wyatt Urban

Test Start: 2018.09.07 @ 08:52:19

## Tool Information

Drill Pipe:	Length: 4227.00 ft	Diameter: 3.80 inches	Volume: 59.29 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.29 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4221.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4207.00	
Hydraulic tool	5.00			4212.00	
Packer	5.00			4217.00	19.00 Bottom Of Top Packer
Packer	4.00			4221.00	
Stubb	1.00			4222.00	
Recorder	0.00	8875	Inside	4222.00	
Recorder	0.00	6749	Outside	4222.00	
Perforations	8.00			4230.00	
Change Over Sub	1.00			4231.00	
Drill Pipe	32.00			4263.00	
Change Over Sub	2.00			4265.00	
Perforations	15.00			4280.00	
Bullnose	3.00			4283.00	62.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

RF Hembree Oil

**25-18S-24W Ness,KS**

PO Box 542  
Ness City, KS 67560

**Parker #9**

Job Ticket: 63968

**DST#: 3**

ATTN: Wyatt Urban

Test Start: 2018.09.07 @ 08:52:19

## 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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	SOCM 2%O 98%M	0.351

Total Length: 25.00 ft      Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

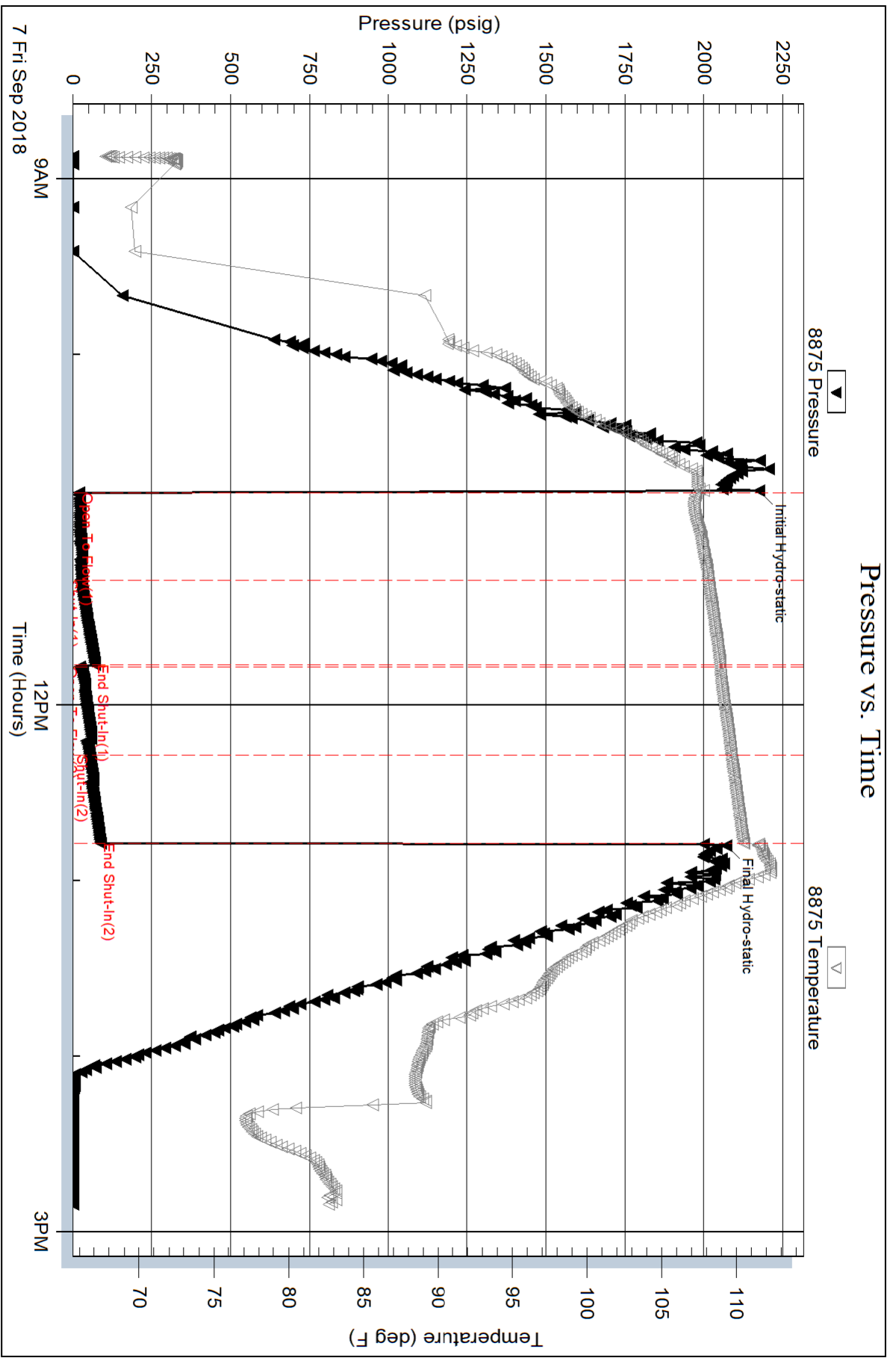
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Inside

RF Hembree Oil

Parker #9

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 63968

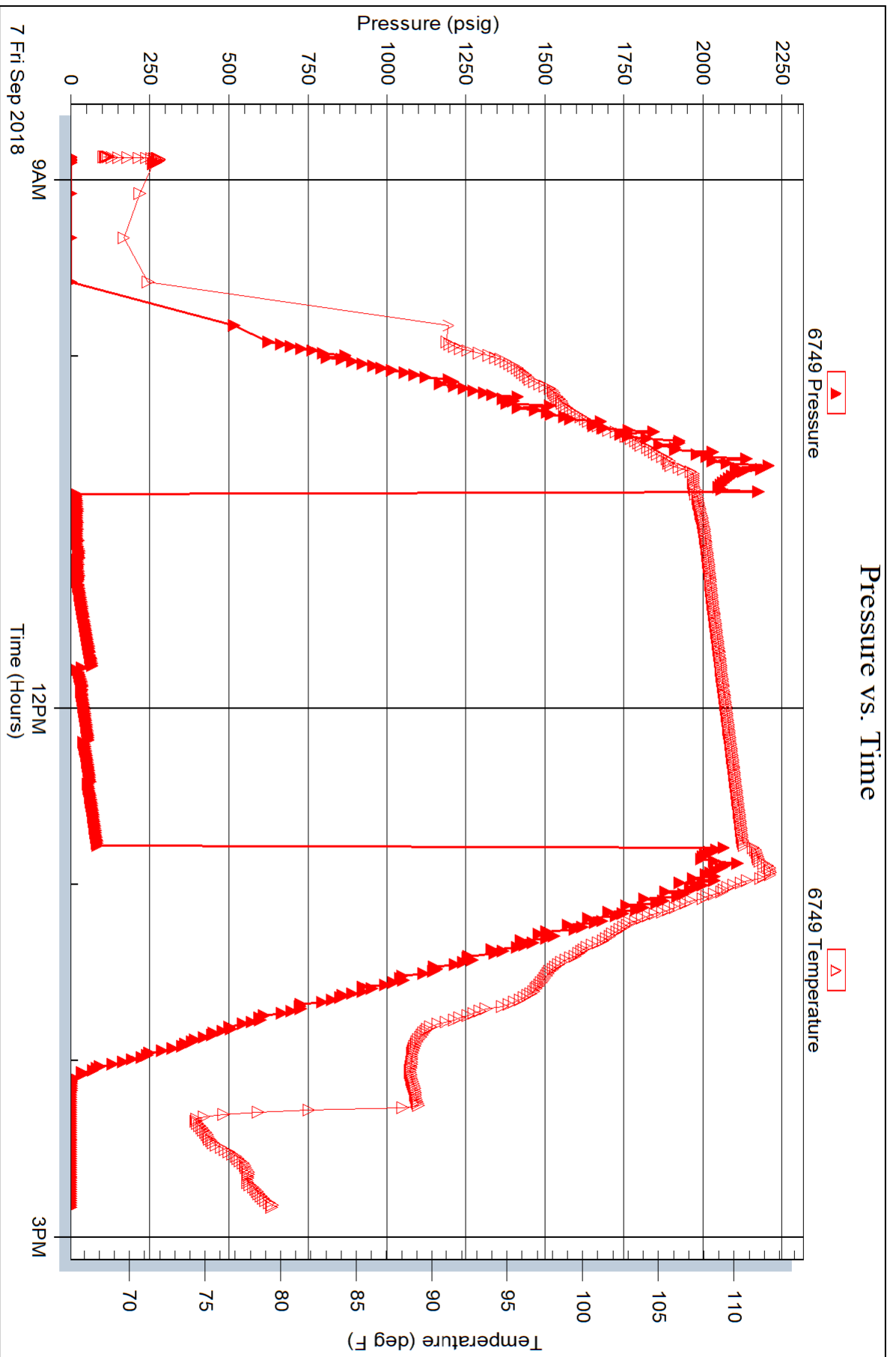
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Serial #: 6749

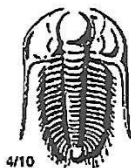
Outside RF Hembree Oil

Parker #9

DST Test Number: 3







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63966

Well Name & No. Parker 9 Test No. 1 Date 09/05/18  
 Company R F Hembree Oil Elevation 2257 KB 2250 GL  
 Address Po Box 542 Ness City, KS 67560  
 Co. Rep/Geo. Wyatt Urban Rig Pickrell 10  
 Location: Sec. 25 Twp 4~~2~~ 18<sup>S</sup> Rge. 24<sup>W</sup> Co. Ness State KS

Interval Tested 3945 - 4068 Zone Tested Marmaton  
 Anchor Length 123 Drill Pipe Run 3943 Mud Wt. 8.9  
 Top Packer Depth 3940 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 3945 Wt. Pipe Run 0 WL 10  
 Total Depth 4068 Chlorides 3500 ppm System LCM 2.5

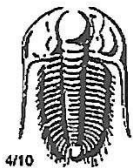
Blow Description IF: strong Blow, BOB in 90 seconds, Built to 187 inches  
IST: ~~Blow~~ Blow Back Built to 1 inch  
FF: strong Blow, BOB in 3 minutes, Built to 125 inches  
ESI: Blow Back Built to 3 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>1798</u>	<u>GIP</u>				
<u>126</u>	<u>MCO</u>		<u>70%</u>		<u>30%</u>
<u>565</u>	<u>654 Oil</u>	<u>30%</u>	<u>70%</u>		
<u>378</u>	<u>66cm</u>	<u>30%</u>	<u>20%</u>		<u>50%</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1069 BHT 116 Gravity 45.5 API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic 2038  Test 1150 T-On Location 13:00  
 (B) First Initial Flow 165  Jars \_\_\_\_\_ T-Started 14:10  
 (C) First Final Flow 297  Safety Joint \_\_\_\_\_ T-Open 16:08  
 (D) Initial Shut-In 1238  Circ Sub \_\_\_\_\_ T-Pulled 18:41  
 (E) Second Initial Flow 313  Hourly Standby \_\_\_\_\_ T-Out 21:58  
 (F) Second Final Flow 426  Mileage 130 130 Comments Stayed in Ness  
 (G) Final Shut-In 1243  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1925  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1280  
 Final Flow 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 1280

Approved By \_\_\_\_\_ Our Representative [Signature]  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the 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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63967

Well Name & No. Parker 9 Test No. 2 Date 09/06/18  
 Company RF Hembree Oil Elevation 2257 KB \_\_\_\_\_ GL \_\_\_\_\_  
 Address PO Box 542 Ness City, KS 67560  
 Co. Rep / Geo. Wyatt Urban Rig Pickrell 10  
 Location: Sec. 25 Twp 18S Rge. 24W Co. Ness State KS

Interval Tested 4163 - 4212 Zone Tested Ft. Scott  
 Anchor Length 49 Drill Pipe Run 4164 Mud Wt. 8.9  
 Top Packer Depth 4158 Drill Collars Run 0 Vis 55  
 Bottom Packer Depth 4163 Wt. Pipe Run 0 WL 10  
 Total Depth 4212 Chlorides 6000 ppm System LCM 2

Blow Description FE Weak Blow, Built to 1 1/4 inch

ISI: NO Blow Back

EF: Weak Surface Blow

FST: NO Blow Back

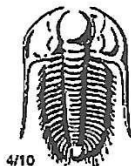
Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>56cm</u>	<u>2</u>		<u>98</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 25 BHT 112 Gravity N/C API RW N/C @ N/C F Chlorides N/C ppm

(A) Initial Hydrostatic 2109  Test 1150 T-On Location 13:30  
 (B) First Initial Flow 15  Jars \_\_\_\_\_ T-Started 13:51  
 (C) First Final Flow 21  Safety Joint \_\_\_\_\_ T-Open 15:51  
 (D) Initial Shut-In 103  Circ Sub \_\_\_\_\_ T-Pulled 17:55  
 (E) Second Initial Flow 22  Hourly Standby \_\_\_\_\_ T-Out 19:39  
 (F) Second Final Flow 25  Mileage (130) 130 Comments Stayed in Ness  
 (G) Final Shut-In 54  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2119  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1230 Total 1230 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63968

Well Name & No. Parker 9 Test No. 3 Date 09/07/08  
 Company RF Hembree Oil Elevation 2257 KB 2250 GL  
 Address PO Box 542 Ness City, KS 67560  
 Co. Rep/Geo. Wyatt Urban Rig Pickrell 10  
 Location: Sec. 25 Twp 18S Rge. 24W Co. Ness State KS

Interval Tested 4221 - 4283 Zone Tested Mississippi  
 Anchor Length 62 Drill Pipe Run 4227 Mud Wt. 9  
 Top Packer Depth 4216 Drill Collars Run 0 Vis 62  
 Bottom Packer Depth 4221 Wt. Pipe Run 0 WL 10  
 Total Depth 4283 Chlorides 6000 ppm System LCM 1.5

Blow Description IF: Weak Blow, Built to 1 1/2 inch  
ISI: NO Blow Back  
EF: Weak Surface Blow  
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>SOCM</u>	<u>2</u>			<u>92</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 25 BHT 112 Gravity NIC API RW NIC @ NIC F Chlorides NIC ppm  
 (A) Initial Hydrostatic 2175  Test 1150 T-On Location 08:00  
 (B) First Initial Flow 20  Jars \_\_\_\_\_ T-Started 08:52  
 (C) First Final Flow 24  Safety Joint \_\_\_\_\_ T-Open 11:46  
 (D) Initial Shut-In 70  Circ Sub \_\_\_\_\_ T-Pulled 12:47  
 (E) Second Initial Flow 22  Hourly Standby \_\_\_\_\_ T-Out 14:50  
 (F) Second Final Flow 54  Mileage 130 130 Comments Stayed in nest  
 (G) Final Shut-In 88  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2071  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1280  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 36 Sub Total 1280

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# PICKRELL DRILLING CO., INC.

Wichita, KS

(316) 262-8427

Parker #9

Sec. 25-18S-24W

Ness County, Kansas

Section

API: 15-135-26017-00-00

2310' From North Line of Section

1320' From West Line of

ELEV: 2257'KB 2250'GL

Operator: RF Hembree Oil, LLC  
Rig#10

Project TD: 4280'

Contractor: Pickrell Drlg Co.

- 8-28-18: MIRT. 3 day move. Plan to spud on Thursday.
- 8-30-18: Spud well @ 9:00PM. Drilled 12 1/4" surface hole to 220'. SHT @ 220' = 1/2°. Ran 5jts of new 8 5/8" 24# surface casing. Set @ 217' (tally 207'), cement w/150sx Class A cement, 2% gel, 3% CC, 3% Pheon Seal. PD @ 3:30 AM 8-31-18. Cement Circulated. Hurricane Services ticket #ICT1348.
- 8-31-18: TD 220' WOC.
- 9-01-18: Drilling @ 1240'. SHT @ 735' = 1/2°, @ 1240' = 1/2°.
- 9-02-18: Drilling @ 2295'. SHT @ 1807' = 1/2°, @ 2310' = 1°. Driller's Anhydrite 1525-1543'.
- 9-03-18: Drilling @ 2950'. SHT @ 2814' = 3/4°.
- 9-04-18: Drilling @ 3527'.
- 9-05-18: CFS @ 4035'. Prepare to run DST.
- 9-06-18: Drilling @ 4148'. SHT @ 4068' = 3/4°.
- 9-07-18: CFS @ 4283'.
- 9-08-18: RTD 4283'. LTD 4284'. Ran 98jts of 4 1/2" 10.5# production casing. Set @ 4164' (tally 4164'). Port Collar @ ~~4070'~~<sup>4219'</sup>. Cement w/190sx Class A, 10% Salt, 5% Gilsonite, 1/4# Defoamer/sx, 1/4# Fluid Loss/sx, PD @ 8:10AM 9/8/18. Hurricane Services ticket # ICT1364. Released Rig.  
FINAL REPORT.



Marmaton	4014	(-1757)
Pawnee	4101	(-1844)
Cherokee	4207	(-1950)
Miss- Reworked	4268	(-2011)
Miss. Dol.	4273	(-2016)


### LEGEND

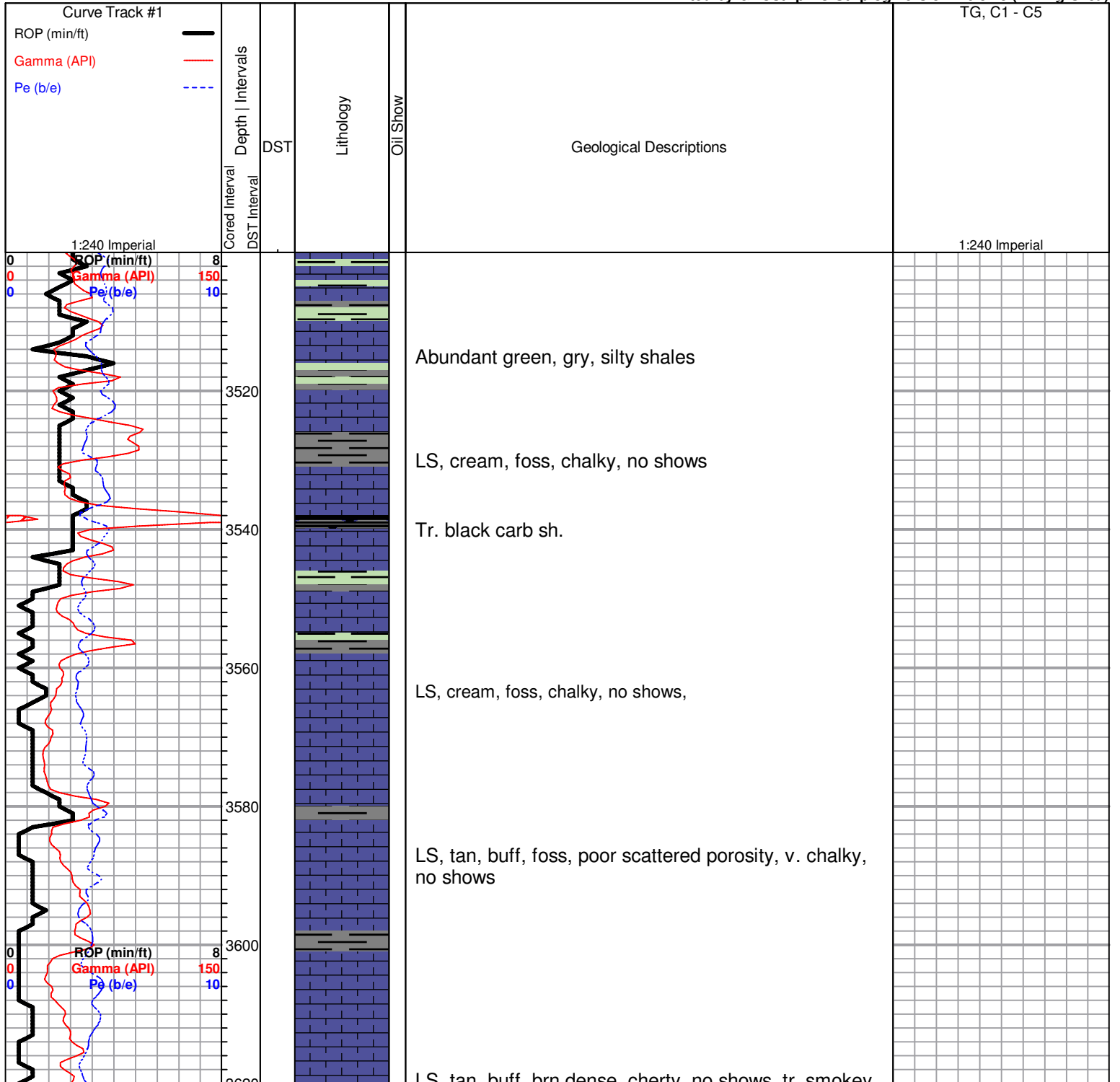
#### Oil Show

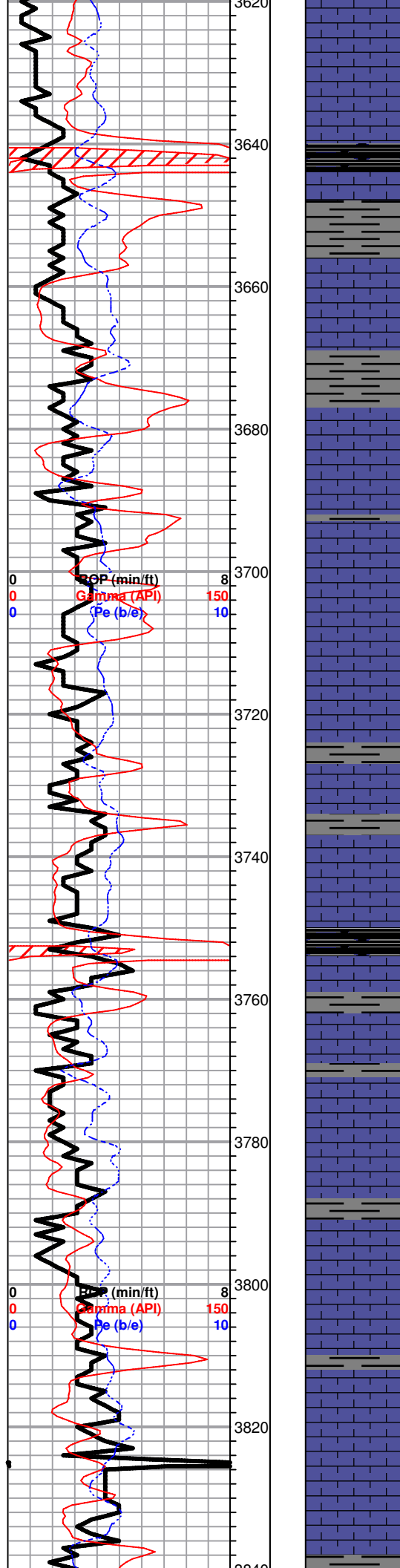
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- Dead Oil Stn
- Fluorescence
- \* Gas

#### DST

- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





LS, tan, bun, brn dense, cherty, no shows, tr. smokey, gry, cherts

**Heebner 3639.0 (-1382.0)**

Sh, black carb

Sh, gry, greenish

**Toronto 3659.0 (-1401.0)**

LS, tan, scattered p.p porosity, chalky, nsfo, tr. blk sppty stain, nsfo, no odor

Sh, gry, greenish, silty

**Lansing 3679.0 (-1422.0)**

LS, tan, brn, fxl, few foss, fair scattered p.p. porosity, n/s

Sh, gry/ greenish, maroon

LS, tan, brn, fxl, dense, poor vis. porosity, no shows

Sh, gry/ dk gry, few green

LS, tan/ cream, foss, scattered p.p. porosity, v. chalky, no shows

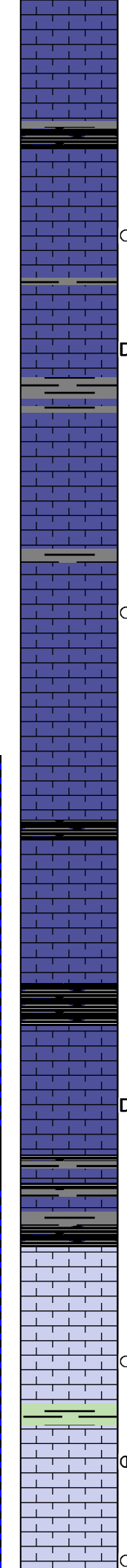
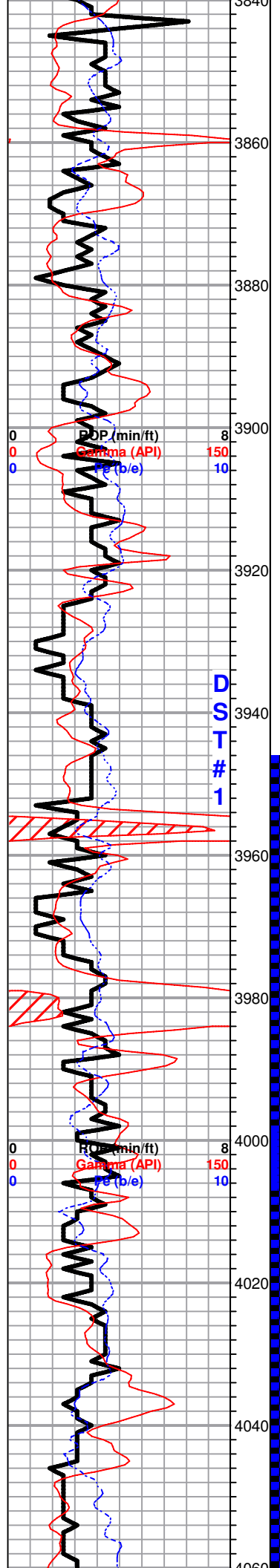
Sh. black carb

LS, tan, fxl, foss, poor p.p. porosity, chalky, no shows

LS, foss, fair scatt vuggy type porosity, sl. chalky, tr. blk stain, nsfo no odor, tr. opaque, white/ boney chert

LS, white, cream, foss/ ool, chalky, poor scattered vuggy type porosity, no shows

LS, gryish, white/cream, fxl, dense, poor vis. porosity, few foss, no shows



LS, tan, fxl, few foss, sl. chalky, no shows

Tr. black carb

LS, cream, dense, poor vis. porosity, tr. blk / dk gry stain???, nsfo, no odor

LS, tan, cream, foss, v. chalky, tr. brn-blk stain, tr. dead (flakey) dk brn,- blk oil, no odor

Sh, gry, greenish, waxey

LS, white, ool, pr-fair scattered vuggy type porosity, cherty in pts, no sfo, no odor

LS, tan, foss, scattered p.p. porosity, tr. brn stain, nsfo,

LS, tan, fxl, poor scattered p.p. porosity, sl. chalky, no shows

Sh, black carb

LS, white, cream, foss, good vis porosity, v. chalky, nsfo,

**BKC 3979.0 (-1722.0)**

Sh, black carb

LS, white, cream, ool, well developed scattered vuggy porosity, tr. brn stain, tr. black dk gry flakes, nsfo , no odor

Slug gry, dk gry shales, tr. tan & brn chert

**Marmaton 4012.0 (-1755.0)**

LS, white, cream, lg. well developed ool, fxl, cherty dense, no shows, no odor

LS, tan, ool , poorly developed ool porosity, chalky, tr. blk stain, nsfo, tr. blk stain, ??? odor - (cfs 40 min).

Slug aqua green shale

LS, a/a, decrease, p.p. porosity, dense,--> cherty, tr. blk stain on one (1), (3) spots of dk brown sfo, no odor

LS, cream, tan, gran--> chalky, fr vis. porosity, tr. brn

**DST#1 3945-4068**  
**30-30-45-60**

**1st Open:**  
BOB 90 sec.

1st Close:  
Built to 1"

**2nd Open:**  
BOB 3 mins.

2nd Close:  
Built to 3"

**Recovery:**  
1798' GIP

565' GSY OIL  
(30%G, 70%O)

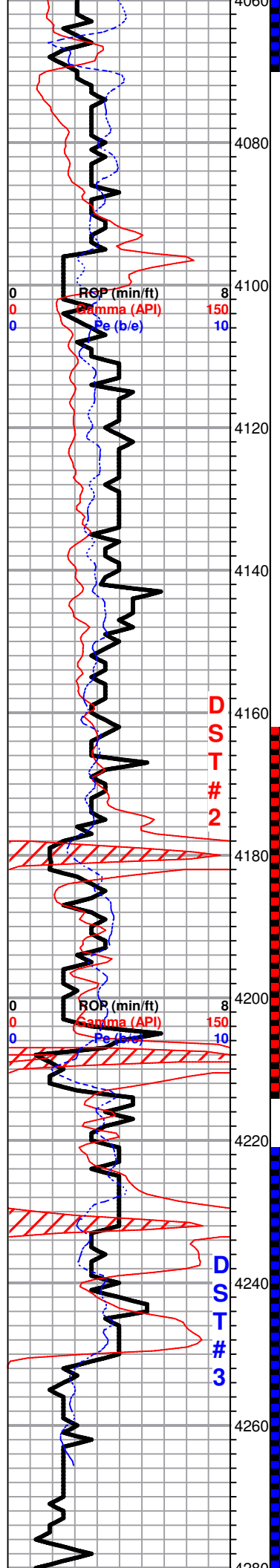
126' MCO  
(30%M, 70%O)

378' GOCM  
(30%G, 20%O, 50%M)

**Pressures:**  
ISIP 1238 psi  
FSIP 1242 psi  
IFP 165-296 psi  
FFP 312-426 psi  
HSH 2037-1925 psi

**spooky SFO, no more in sample cup**





stain, tr. sfo (v. weak sfo), ??? odor

LS, tan-buff, ool, pr-fair scattered p.p. type porosity, lt. brn/blk stain, v. wk. spty sfo, no odor

LS, white, gry, few foss, poor scattered p.p. porosity, sl. chalky, tr. white & opaque cherts

Sh. dk, gry, purp, maroon

**Pawnee 4103.0 (-1846.0)**

LS, tan, brn, pr - fair scattered p.p. porosity, dense, tr. brn stain, tr. spty sfo, no odor

LS, tan, fxl, poor p.p type, porosity, chalky, slightly cherty, tr. brn stain, tr. dead oil (flakes), nsfo, no odor

LS, tan, cream, few foss, dense, poor vis. porosity, chalky, no shows,

LS, tan, cream, flx, poor scattered p.p. type porosity, chalky, nsfo,/ tr. aqua green, sh.

Sh, blk carb

**Ft. Scott 4182.0 (-1925.0)**

LS, cream, white, foss, poorly develedop vuggy.type porosity, tr. blk stain, nsfo, ??? odor

LS, white, cream, few foss, scattered p.p. type porosity, chalky, tr. golden brown stain, dk brn spty sfo fair odor

**Cherokee Sh. 4205.0 (-1948.0)**

Sh, black carb

LS,tan, fxl, sl. dol., dense, cherty, poor vis. porosity, tr. blk stain, tr. sfo, ft. odor

LS, a/a , no shows, dense, tr. abd. v.c. cherts,

Sh, black carb

Sh, a/a. tr. LS, white, cream, dense, poor vis. porosity, chalky no shows,

Slug gry, dk gry maroon, shales. V. C. cherts

Tr. dol. gry, dense, few fxl, poor scattered porosity, no show no odor abundant cherts, orange, boney, opaque

**Miss. 4273.0 (-2016.0)**

Dol. gry, fxl, dense, poor p.p. type porosity on few, no shows, ??? odor, + slug aqua green waxey shale

**DST#2 4163-4212**

30-30-30-30

**1st Open:**

Weak blow (1.25")

**2nd Open:**

Weak surface blow

**Recovery:**

25' SGCM  
(2%G, 98%M)

**Pressures:**

ISIP 103 psi  
FSIP 54 psi  
IFP 15-21 psi  
FFP 22-25 psi  
HSH 2119 - 2109 psi

**DST#3 4221-4283**

30-30-30-30

**1st Open:**

Weak Surface blow

**2nd Open:**

Weak Surface blow

**Recovery:**

25' SOCM  
(2%O, 98%M)

4200

4300

4320

4340

4360

4380

0	ROP (min/ft)	8
0	Gamma (API)	150
0	Pe (b/e)	10



Dol. tan, fxl, fair scattered vuggy porosity, tr. brn stain, sfo, strong odor

**RTD 4283.0 (-2026.0)**

**Pressures:**

- ISIP 70 psi
- FSIP 88 psi
- IFP 24-70 psi
- FFP 54-88 psi
- HSH 2175-2071 psi