

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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--





810 E 7<sup>TH</sup>  
 PO Box 92  
 EUREKA, KS 67045  
 (620) 583-5561



C & G  
 DRI<sub>9</sub>  
 Co.

Cement or Acid Field Report

Ticket No. **6147**

Foreman Kevin McCoy

Camp Eureka

API # 15-035-24749

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
1-4-22	1375	MBF # 1	5	30S	SE	Cowley	Ks
Customer <u>RA Energy LLC</u>			Unit #		Driver		Unit #
Mailing Address <u>11615 Rosewood St, Ste 100</u>			105		Jason H.		
City <u>Leawood</u>			112		Steve M.		
State <u>Ks</u>							
Zip Code <u>66211</u>							

Job Type SURFACE Hole Depth 224' K.B. Slurry Vol. 36 BBL Tubing \_\_\_\_\_  
 Casing Depth 210.85' G.L. Hole Size 12 1/4" Slurry Wt. 15" Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 8 5/8" 23" Cement Left in Casing 20' ± Water Gal/SK \_\_\_\_\_ Other \_\_\_\_\_  
 Displacement 12.7 BBL Displacement PSI \_\_\_\_\_ Bump Plug to \_\_\_\_\_ BPM \_\_\_\_\_

Remarks: Safety Meeting: Rig up to 8 5/8" casing. Break Circulation w/ 10 BBL fresh water. Mixed 150 SKS Class 'A' Cement w/ 3% CaCl<sub>2</sub>, 2% Gel, 1/4" Flo Seal/SK @ 15"/gal = 36 BBL Slurry. Displace w/ 12.7 BBL fresh water. Good Cement Returns to Surface = 10 BBL Slurry to Pit. Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 101	1	Pump Charge	890.00	890.00
C 107	55	Mileage	4.20	231.00
C 200	150 SKS	CLASS 'A' Cement	17.35	2602.50
C 205	425 *	CaCl <sub>2</sub> 3%	.69 *	293.25
C 206	280 *	Gel 2%	.28 *	78.40
C 209	37 *	Flo Seal 1/4"/SK	2.60 *	96.20
C 108 B	7.05 TONS	Ton Mileage 55 miles	1.40	542.85
			Sub Total	4734.20
			Less 5%	246.69
			Sales Tax	199.57
			Total	4687.08

THANK YOU  
 M

Authorization By Judd Gulick Title C & G DRI<sub>9</sub> Toolpusher Total 4687.08

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.



810 E 7<sup>TH</sup>  
 PO Box 92  
 EUREKA, KS 67045  
 (620) 583-5561



C+G  
 Drly.

Cement or Acid Field Report

Ticket No. **6118**  
 Foreman David Gardner  
 Camp Eureka

API\* 15-035-24749

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
1-10-22	1375	MBF #1	5	30 S.	5 E.	Cowley	KS
Customer RA Energy LLC			Unit #	Driver	Unit #	Driver	
Mailing Address 11615 Rosewood St., Ste. 100			105	Jason			
City Leawood			115	Steve			
State KS							
Zip Code 66211							

Job Type P.T.A. (New Well) Hole Depth 3119' Slurry Vol. \_\_\_\_\_ Tubing \_\_\_\_\_  
 Casing Depth \_\_\_\_\_ Hole Size \_\_\_\_\_ Slurry Wt. \_\_\_\_\_ Drill Pipe 4 1/2" 16.60"  
 Casing Size & Wt. \_\_\_\_\_ Cement Left in Casing \_\_\_\_\_ Water Gal/SK \_\_\_\_\_ Other \_\_\_\_\_  
 Displacement \_\_\_\_\_ Displacement PSI \_\_\_\_\_ Bump Plug to \_\_\_\_\_ BPM \_\_\_\_\_

Remarks: Safety Meeting: Rig up to 4 1/2" 16.60" Drill pipe. Plug well as follows:

35 SKS @ 250'  
25 SKS @ 60' to Surface  
30 SKS in Rat Hole  
20 SKS in Mouse Hole  
110 SKS Total

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C103	1	Pump Charge	1100.00	1100.00
C107	55	Mileage	4.20	231.00
C203	110 SKS	60/40 Pozmix Cement	14.75	1622.50
C206	380*	Gel 4%	.28	106.40
C108A	4.73 Tons	Ton Mileage - Bulk Truck	m/c	365.00
<u>Thank You</u>			Sub Total	3,424.90
			Less 5%	176.86
			Sales Tax	112.38
			6.5%	
Authorization <u>Roger Martin</u> Title <u>Geo</u>			Total	3,360.42

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.



**GEOLOGIST'S REPORT**  
DRILLING TIME AND SAMPLE LOG

<b>COMPANY</b> RA ENERGY, LLC/RANEY OIL COMPANY, LLC <b>LEASE</b> MBF #1 <b>FIELD</b> COMBS <b>LOCATION</b> 1800' FSL & 1200' FEL <b>SECTION</b> 5 <b>TOWNSHIP</b> 30S <b>RANGE</b> 05E <b>COUNTY</b> COWLEY <b>STATE</b> KANSAS		<b>ELEVATIONS</b> <b>KB</b> 1319' <b>GL</b> 1310' <b>Measurements Are All</b> <b>From</b> KB <b>API #</b> 15-035-24749-00-00	
<b>CONTRACTOR</b> C&G Drilling, Rig #2 <b>SPUD</b> 01/04/2022 <b>COMP</b> 01/11/2022 <b>RTD</b> 3119' <b>LTD</b> 3119' <b>ELL: DIL, CDL/CNL, MEL/SO</b>		<b>CASING</b> <b>SURFACE</b> 8.58" set @ 210' KB <b>PRODUCTION</b> N/A-P&A	
<b>FORMATION TOPS</b>	<b>LOG</b>	<b>SAMPLES</b>	<b>CHRONOLOGY</b>
LATAN	1849' (-536)	1842' (-523)	
UPPER STALNAKER	1862' (-542)	1852' (-533)	01/04/2022: MIBU: C&G Drilling, Rig #2. SPUD 12 1/4" hole. Set 8 5/8" casing @ 210'
KANSAS CITY	2234' (-915)	2246' (-917)	01/05/2022: Drilling @ 335' @ 8:09 AM.
MARMATON	2455' (-1236)	2456' (-1237)	01/06/2022: Drilling @ 1851' @ 8:35 AM.
CHEROKEE	2400' (-1361)	2402' (-1363)	1/08/2022: Drilling @ 2879' @ 9:15 AM.
BARTLESVILLE	2834' (-1515)	2834' (-1515)	01/09/2022: TH whit @ 2992' @ 8:00 AM.
MISSISSIPPIAN CHERT	2860' (-1567)	2880' (-1567)	01/10/2022: WOO @ 3119' @ 5:30 AM. ELL in open hole F-logs.
MISSISSIPPIAN LS	2895' (-1576)	2895' (-1576)	01/11/2022: P&A: Elite Cementing Ticket #6118.
LOWRY FACIES	2939' (-1620)	2935' (-1616)	
COWLEY MISS OSAGE LS	3009' (-1681)	3009' (-1681)	
RTD/LTD	3119' (-1800)	3119' (-1800)	

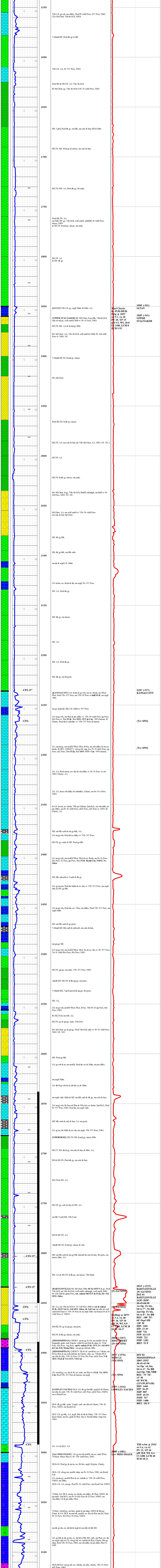
**REMARKS:**

The decision was made to P&A the RA Energy, LLC/Raney Oil Company, LLC MBF #1 test well. Elite Cementing and Acid Service, Ticket # 6118.

Safety meeting, 10 am on 1/12/22. 16.6 min drill pipe. Flare well as follows:  
 35' x 3" @ 250', 25' x 3" @ 60' to surface, 30' x 3" in rat hole, 20' x 3" in annular hole,  
 110' x 3" total of 60/40 Pumps cement, 4% gel.

Respectfully submitted,  
 Roger L. Martin, Geologist

LOG	FORMERITY	WELL LOG TIME	DEPTH	SAMPLE DESCRIPTION	0	TGV	300
-----	-----------	---------------	-------	--------------------	---	-----	-----



3119' (-1800)/RTD WOO @ 3119' wt 9.4, vis 41  
 RA# MBF #1 PV 10, YP 20  
 1800' FSL & 1200' FEL C# 1100, LCM #2  
 Sec 5-30S-05E, KS FHP: 1282  
 COWLEY CO., KS FHP: 1400  
 API# 15-035-24749 ECD 10.10





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Raney Oil Company LLC

**Sec 5 30S 5E Cowley Co**

4665 Bauer Brook CT  
Lawrence, KS. 66049

**MBF #1**

Job Ticket: 67150

**DST#: 1**

ATTN: Thomas Raney

Test Start: 2022.01.07 @ 18:05:57

## GENERAL INFORMATION:

Formation: **Bartlesville Sandsto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:32:37

Time Test Ended: 02:54:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Eric Burgess

Unit No: 80

**Interval: 2638.00 ft (KB) To 2850.00 ft (KB) (TVD)**

Reference Elevations: 1319.00 ft (KB)

Total Depth: 2850.00 ft (KB) (TVD)

1311.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8369

Press@RunDepth: 115.52 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.07 End Date: 2022.01.08

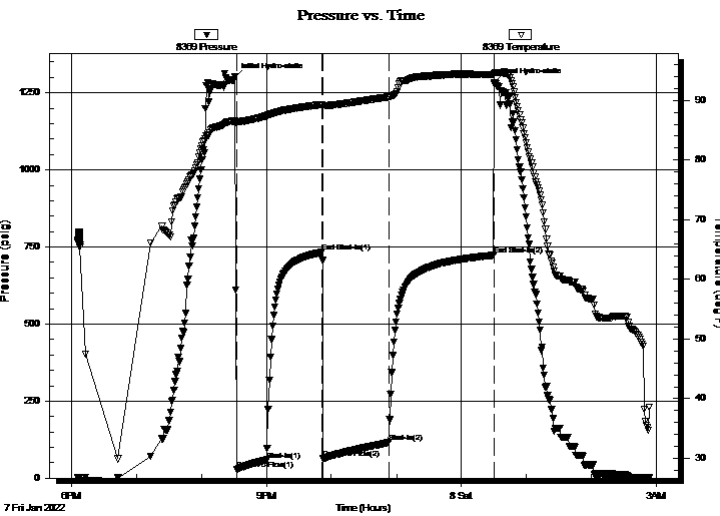
Last Calib.: 2022.01.08

Start Time: 18:05:58 End Time: 02:54:27

Time On Btm: 2022.01.07 @ 20:30:37

Time Off Btm: 2022.01.08 @ 00:30:27

**TEST COMMENT:** IF: Fair building blow in bucket built to 7" (30)  
IS: No Blow back  
FF Fair building blow built to 8" in bucket (60)  
FS: No Blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1300.92	86.59	Initial Hydro-static
2	27.29	86.41	Open To Flow (1)
30	59.40	87.39	Shut-In(1)
81	732.83	89.29	End Shut-In(1)
82	63.26	89.09	Open To Flow (2)
143	115.52	90.56	Shut-In(2)
240	723.25	94.34	End Shut-In(2)
240	1282.83	94.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSM 100%M	0.46
120.00	M 100%M	0.91

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Raney Oil Company LLC

**Sec 5 30S 5E Cowley Co**

4665 Bauer Brook CT  
Lawrence, KS. 66049

**MBF #1**

Job Ticket: 67150

**DST#: 1**

ATTN: Thomas Raney

Test Start: 2022.01.07 @ 18:05:57

### 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: 36.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OSM 100%M	0.457
120.00	M 100%M	0.914

Total Length: 180.00 ft      Total Volume: 1.371 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

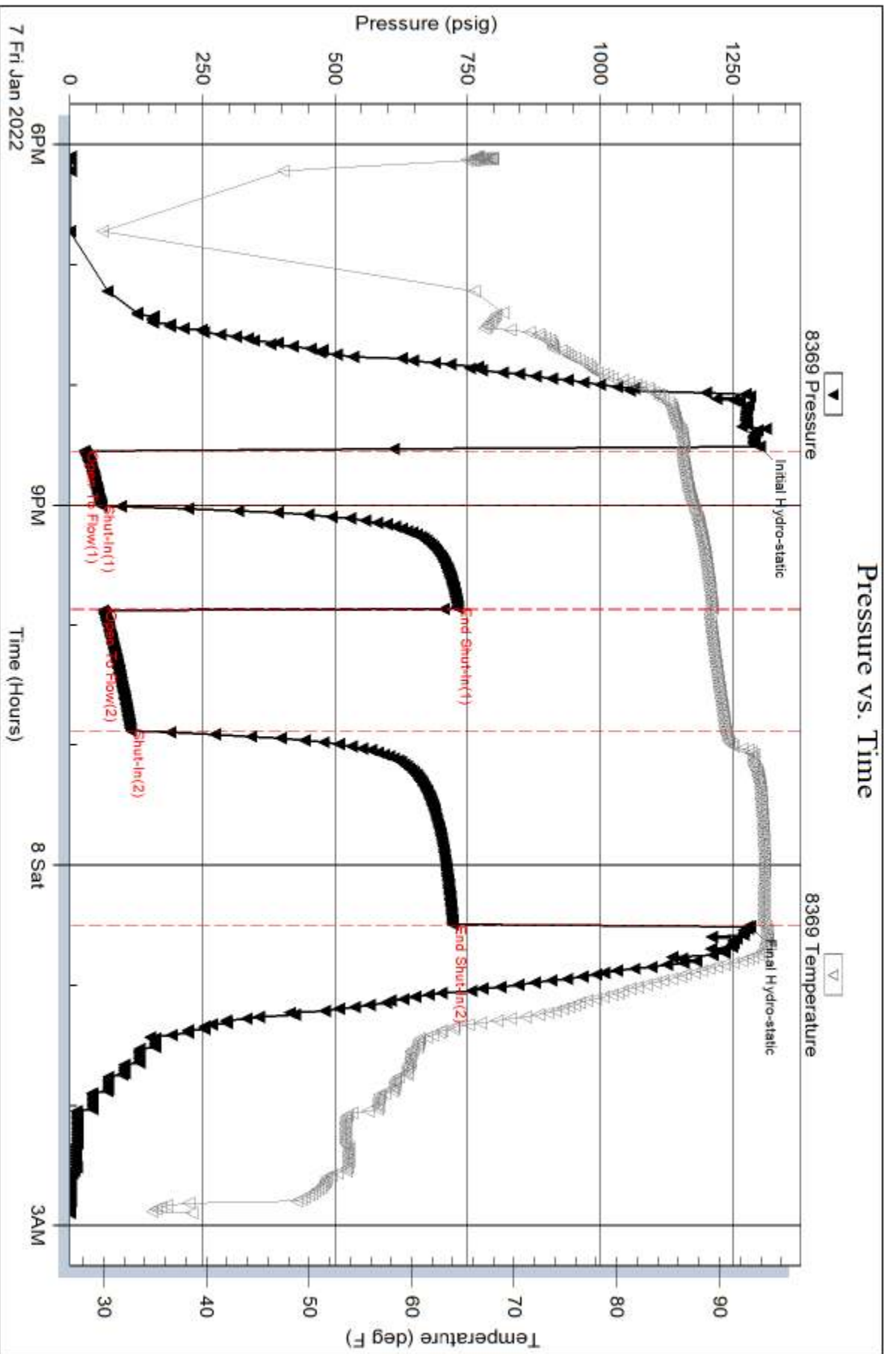
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 120' M 100%M

60' OSM 100%M





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Raney Oil Company LLC

**Sec 5 30S 5E Cowley Co**

4665 Bauer Brook CT  
Lawrence, KS. 66049

**MBF #1**

Job Ticket: 67601

**DST#: 2**

ATTN: Thomas Raney

Test Start: 2022.01.08 @ 21:49:24

## GENERAL INFORMATION:

Formation: **Miss. Chert & Cowley**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:56:44

Time Test Ended: 06:57:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

**Interval: 2889.00 ft (KB) To 2992.00 ft (KB) (TVD)**

Total Depth: 2992.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1319.00 ft (KB)

1311.00 ft (CF)

KB to GR/CF: 8.00 ft

## Serial #: 8369

Press@RunDepth: 58.95 psig @ ft (KB)

Start Date: 2022.01.08

End Date: 2022.01.09

Start Time: 21:49:24

End Time: 06:57:24

Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2022.01.09 @ 00:55:24

Time Off Btm: 2022.01.09 @ 04:29:33

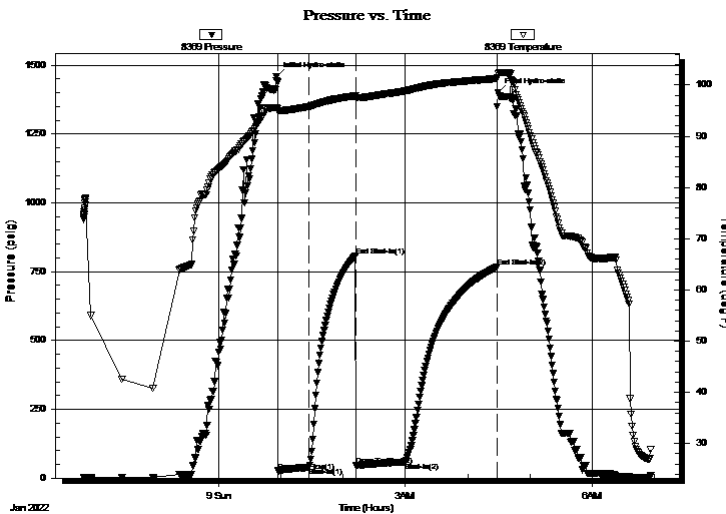
TEST COMMENT: IF:Weak building blow built to 3" in bucket (30)

IS:No Blow Back

FF:No Blow

FS:No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1459.87	95.49	Initial Hydro-static
2	26.28	94.96	Open To Flow (1)
32	39.37	95.82	Shut-In(1)
77	807.83	97.90	End Shut-In(1)
78	45.73	97.58	Open To Flow (2)
124	58.95	98.83	Shut-In(2)
213	767.34	101.26	End Shut-In(2)
215	1400.13	102.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM 15%W 85%M	0.46
15.00	M 100%M	0.11

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raney Oil Company LLC

**Sec 5 30S 5E Cowley Co**

4665 Bauer Brook CT  
Lawrence, KS. 66049

**MBF #1**

Job Ticket: 67601

**DST#: 2**

ATTN: Thomas Raney

Test Start: 2022.01.08 @ 21:49:24

## 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: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	WCM 15%W 85%M	0.457
15.00	M 100%M	0.114

Total Length: 75.00 ft      Total Volume: 0.571 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

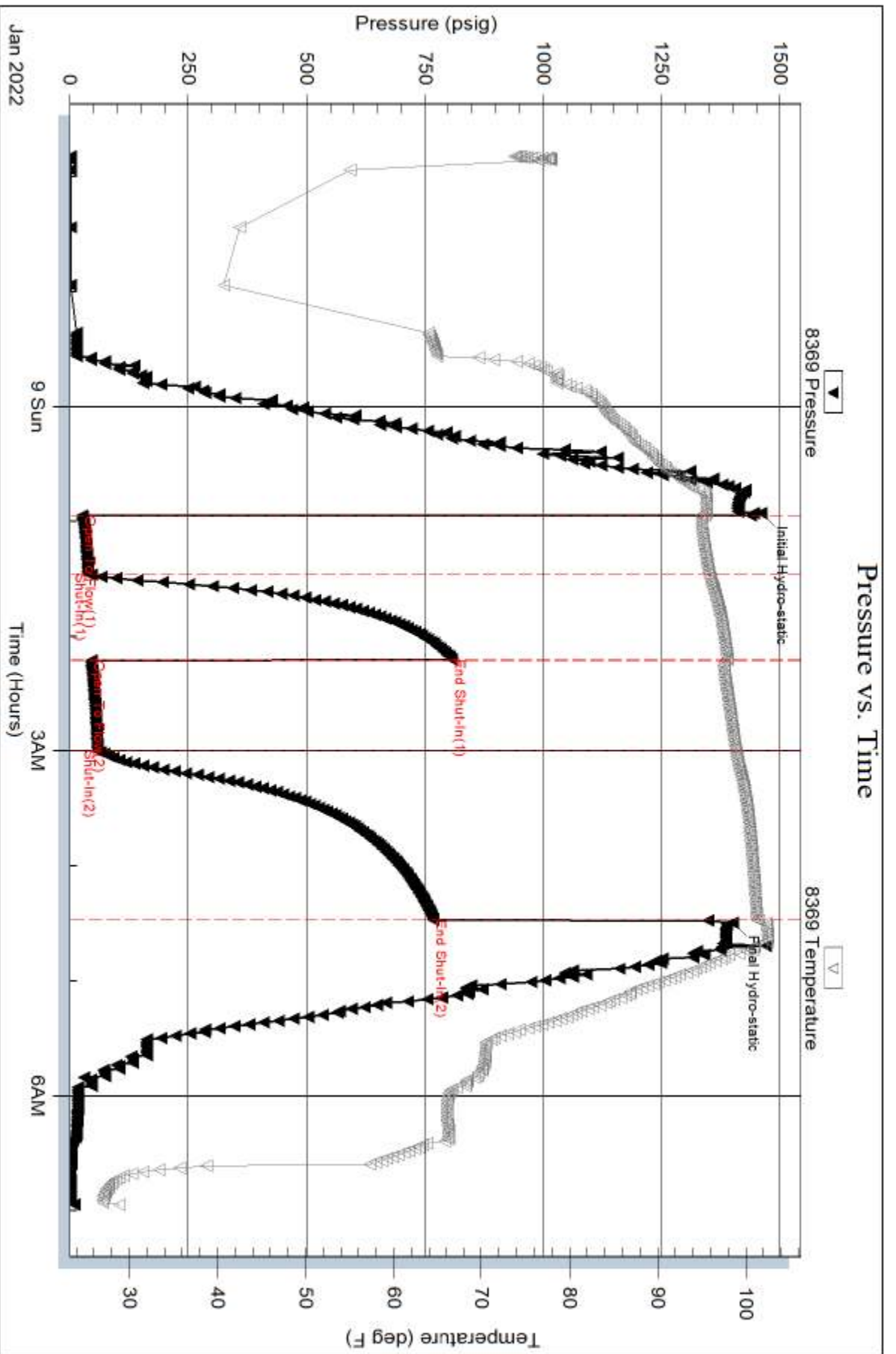
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 60' WCM 15%W 85%M

15' M 100%M





## DRILL STEM TEST REPORT

Prepared For: **Raney Oil Company LLC**

4665 Bauer Brook CT  
Lawrence, KS. 66049

ATTN: Thomas Raney

### **MBF #1**

#### **Sec 5 30S 5E Cowley,KS**

Start Date: 2022.01.07 @ 18:05:57

End Date: 2022.01.08 @ 02:54:27

Job Ticket #: 67150                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.01.12 @ 14:43:21





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raney Oil Company LLC

**Sec 5 30S 5E Cowley,KS**

4665 Bauer Brook CT  
Lawrence, KS. 66049

**MBF #1**

Job Ticket: 67150

**DST#: 1**

ATTN: Thomas Raney

Test Start: 2022.01.07 @ 18:05:57

## GENERAL INFORMATION:

Formation: **Bartlesville Sandsto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:32:37

Time Test Ended: 02:54:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Eric Burgess

Unit No: 80

**Interval: 2638.00 ft (KB) To 2850.00 ft (KB) (TVD)**

Reference Elevations: 1319.00 ft (KB)

Total Depth: 2850.00 ft (KB) (TVD)

1311.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369 Inside**

Press@RunDepth: 115.52 psig @ 2639.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.07 End Date: 2022.01.08

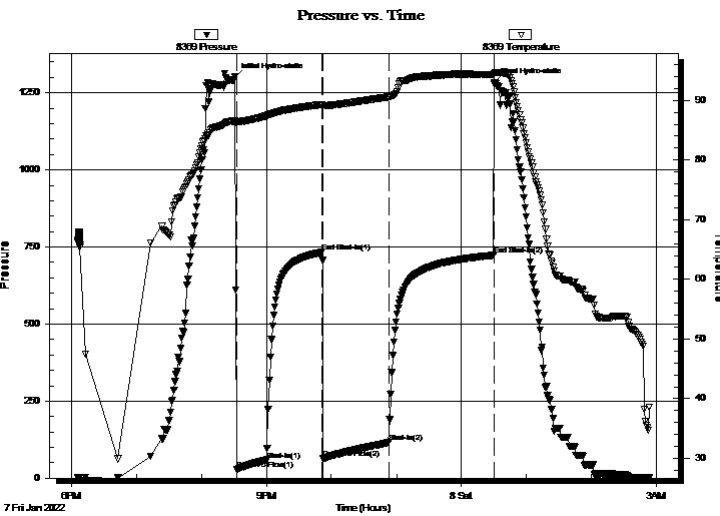
Last Calib.: 2022.01.08

Start Time: 18:05:58 End Time: 02:54:27

Time On Btm: 2022.01.07 @ 20:30:37

Time Off Btm: 2022.01.08 @ 00:30:27

**TEST COMMENT:** IF: Fair building blow in bucket built to 7" (30)  
IS: No Blow back  
FF Fair building blow built to 8" in bucket (60)  
FS: No Blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1300.92	86.59	Initial Hydro-static
2	27.29	86.41	Open To Flow (1)
30	59.40	87.39	Shut-In(1)
81	732.83	89.29	End Shut-In(1)
82	63.26	89.09	Open To Flow (2)
143	115.52	90.56	Shut-In(2)
240	723.25	94.34	End Shut-In(2)
240	1282.83	94.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSM 100%M	0.46
120.00	M 100%M	0.91

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Raney Oil Company LLC

**Sec 5 30S 5E Cowley, KS**

4665 Bauer Brook CT  
Lawrence, KS. 66049

**MBF #1**

Job Ticket: 67150

**DST#: 1**

ATTN: Thomas Raney

Test Start: 2022.01.07 @ 18:05:57

## GENERAL INFORMATION:

Formation: **Bartlesville Sandsto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:32:37

Time Test Ended: 02:54:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Eric Burgess

Unit No: 80

Interval: **2638.00 ft (KB) To 2850.00 ft (KB) (TVD)**

Reference Elevations: 1319.00 ft (KB)

Total Depth: 2850.00 ft (KB) (TVD)

1311.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8846**

**Outside**

Press@RunDepth: psig @ 2639.00 ft (KB)

Start Date: 2022.01.07

End Date:

2022.01.08

Start Time: 18:05:31

End Time:

02:54:00

Capacity: 8000.00 psig

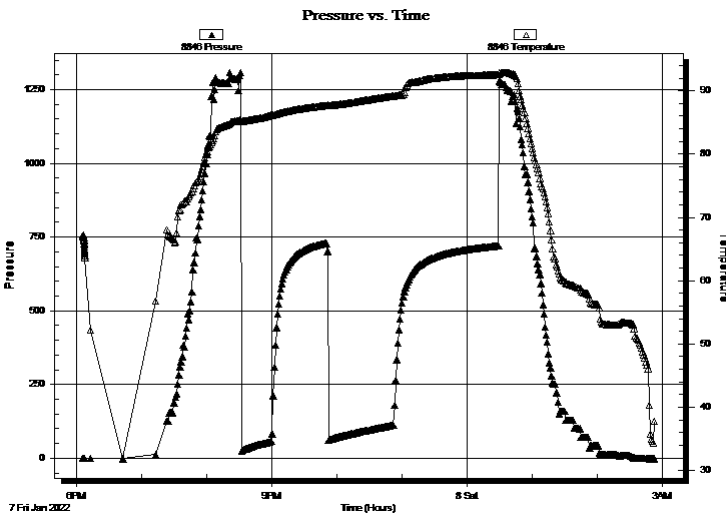
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Fair building blow in bucket built to 7" (30)  
IS: No Blow back  
FF Fair building blow built to 8" in bucket (60)  
FS: No Blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSM 100%M	0.46
120.00	M 100%M	0.91

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raney Oil Company LLC

**Sec 5 30S 5E Cowley,KS**

4665 Bauer Brook CT  
Lawrence, KS. 66049

**MBF #1**

Job Ticket: 67150

**DST#: 1**

ATTN: Thomas Raney

Test Start: 2022.01.07 @ 18:05:57

## Tool Information

Drill Pipe:	Length: 2331.00 ft	Diameter: 3.80 inches	Volume: 32.70 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 303.00 ft	Diameter: 2.80 inches	Volume: 2.31 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 35.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	2638.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	212.00 ft			
Tool Length:	240.00 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			2611.00	
Shut In Tool	5.00			2616.00	
Hydraulic tool	5.00			2621.00	
Jars	5.00			2626.00	
Safety Joint	3.00			2629.00	
Packer	4.00			2633.00	28.00 Bottom Of Top Packer
Packer	5.00			2638.00	
Stubb	1.00			2639.00	
Recorder	0.00	8369	Inside	2639.00	
Recorder	0.00	8846	Outside	2639.00	
Perforations	1.00			2640.00	
Change Over Sub	1.00			2641.00	
Blank Spacing	189.00			2830.00	
Change Over Sub	1.00			2831.00	
Perforations	16.00			2847.00	
Bullnose	3.00			2850.00	212.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>240.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Raney Oil Company LLC

**Sec 5 30S 5E Cowley,KS**

4665 Bauer Brook CT  
Law remce, KS. 66049

**MBF #1**

Job Ticket: 67150

**DST#: 1**

ATTN: Thomas Raney

Test Start: 2022.01.07 @ 18:05:57

### 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: 36.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OSM 100%M	0.457
120.00	M 100%M	0.914

Total Length: 180.00 ft      Total Volume: 1.371 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

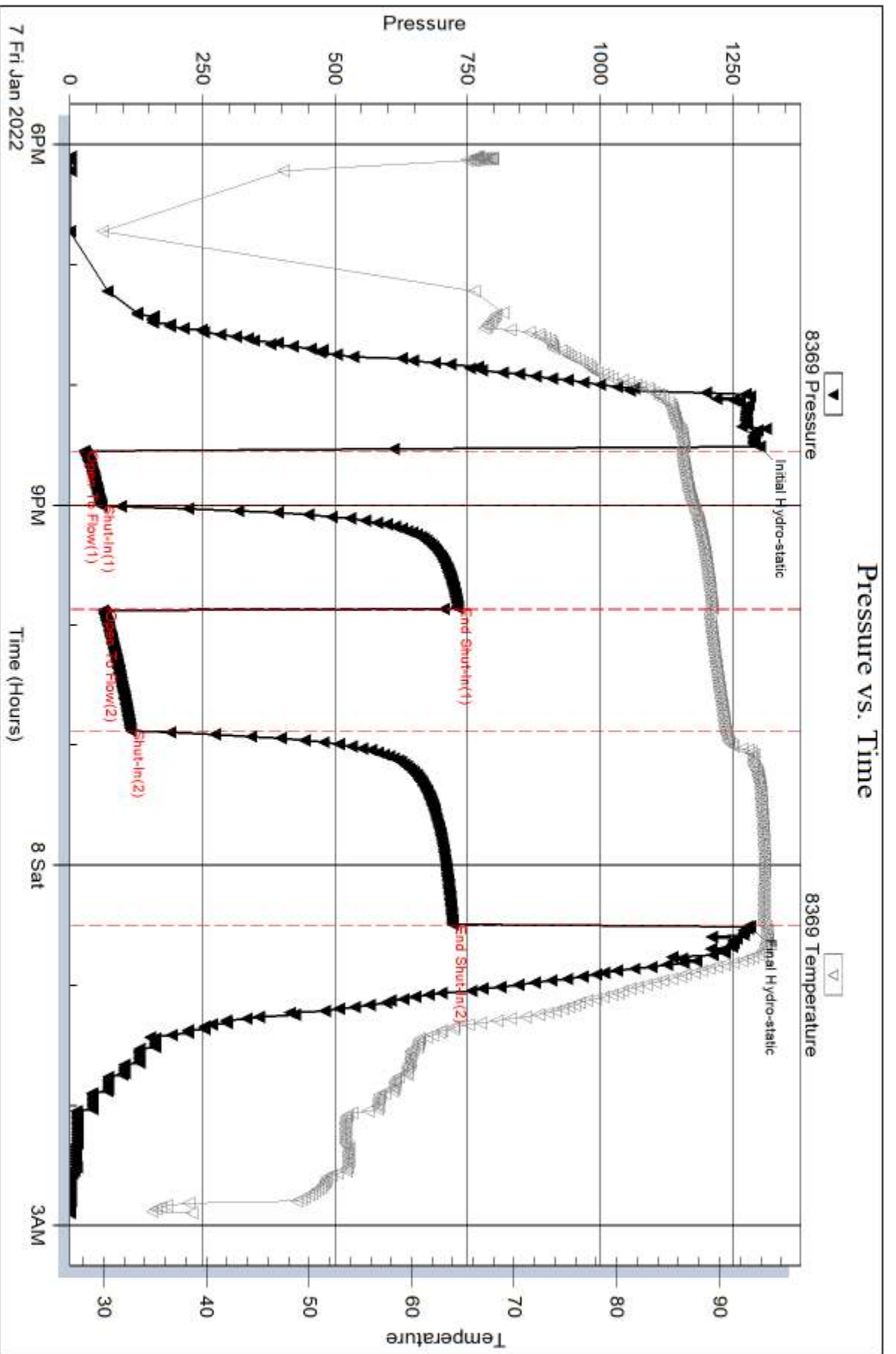
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 120' M 100%M

60' OSM 100%M

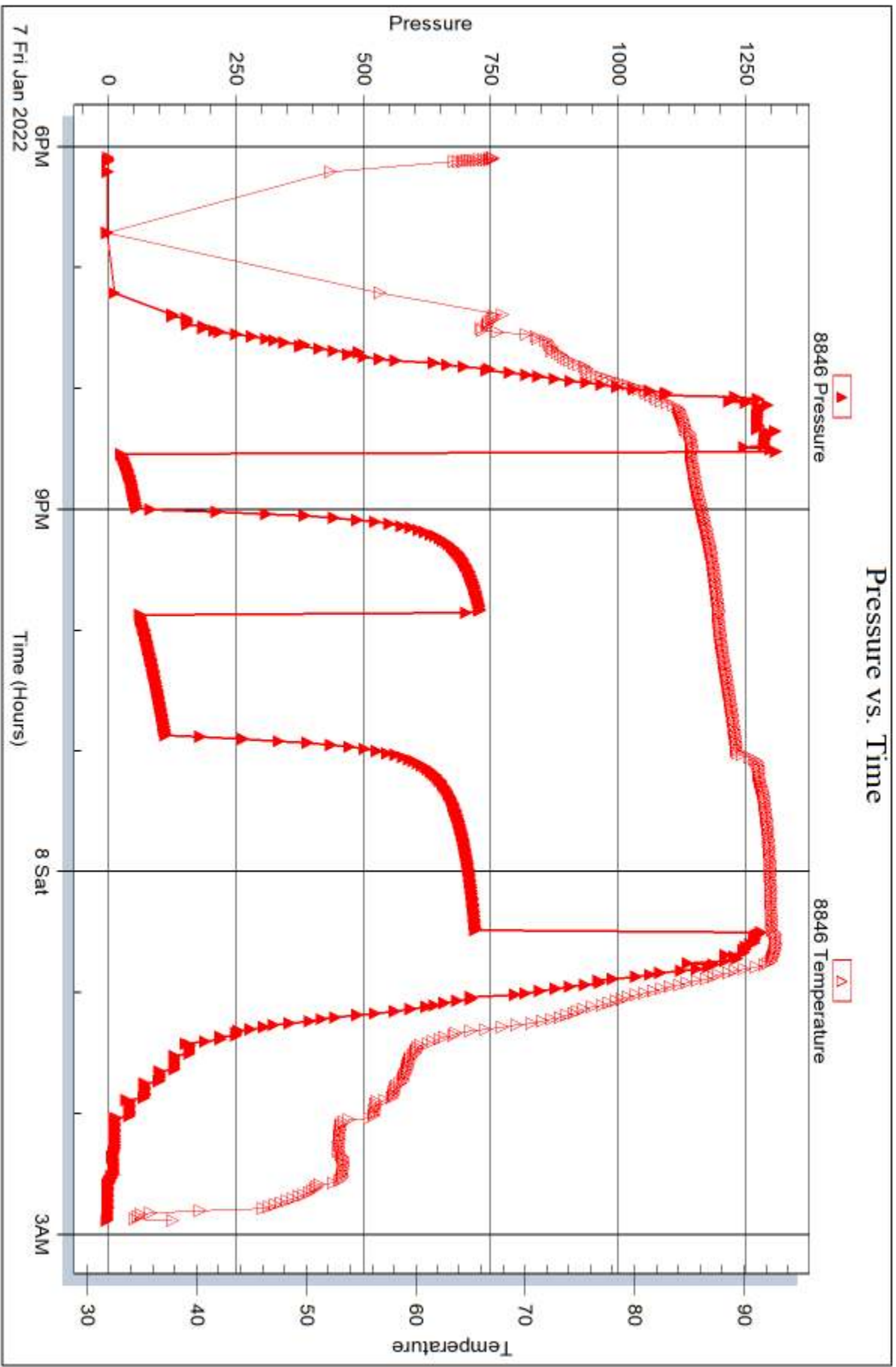


Serial #: 8846

Outside Raney Oil Company LLC

MBF #1

DST Test Number: 1







## DRILL STEM TEST REPORT

Prepared For: **Raney Oil Company LLC**

4665 Bauer Brook CT  
Lawrence, KS. 66049

ATTN: Thomas Raney

### **MBF #1**

### **Sec 5 30S 5E Cowley,KS**

Start Date: 2022.01.08 @ 21:49:24

End Date: 2022.01.09 @ 06:57:24

Job Ticket #: 67601                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.01.12 @ 14:42:08



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Raney Oil Company LLC

**Sec 5 30S 5E Cowley,KS**

4665 Bauer Brook CT  
Lawrence, KS. 66049

**MBF #1**

Job Ticket: 67601

**DST#: 2**

ATTN: Thomas Raney

Test Start: 2022.01.08 @ 21:49:24

## GENERAL INFORMATION:

Formation: **Miss. Chert & Cowley**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:56:44

Time Test Ended: 06:57:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

**Interval: 2889.00 ft (KB) To 2992.00 ft (KB) (TVD)**

Reference Elevations: 1319.00 ft (KB)

Total Depth: 2992.00 ft (KB) (TVD)

1311.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369**

**Inside**

Press@RunDepth: 58.95 psig @ 2998.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.08

End Date:

2022.01.09

Last Calib.: 2022.01.09

Start Time: 21:49:25

End Time:

06:57:24

Time On Btm: 2022.01.09 @ 00:55:24

Time Off Btm: 2022.01.09 @ 04:29:33

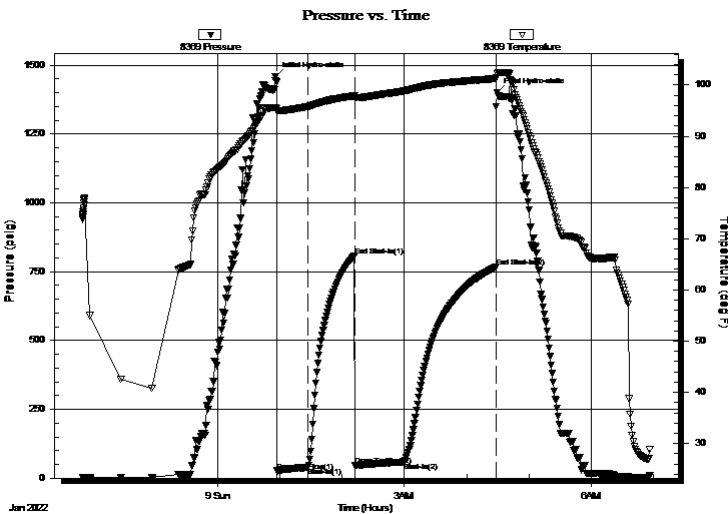
**TEST COMMENT:** IF:Weak building blow built to 3" in bucket (30)

IS:No Blow Back

FF:No Blow

FS:No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1459.87	95.49	Initial Hydro-static
2	26.28	94.96	Open To Flow (1)
32	39.37	95.82	Shut-In(1)
77	807.83	97.90	End Shut-In(1)
78	45.73	97.58	Open To Flow (2)
124	58.95	98.83	Shut-In(2)
213	767.34	101.26	End Shut-In(2)
215	1400.13	102.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM 15%W 85%M	0.46
15.00	M 100%M	0.11
0.00	TS WCM 65%M 35%W Had show of oil	0.00

\* Recovery from multiple tests

## Gas Rates

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



# DRILL STEM TEST REPORT

Raney Oil Company LLC  
 4665 Bauer Brook CT  
 Law remce, KS. 66049  
 ATTN: Thomas Raney

**Sec 5 30S 5E Cowley,KS**

**MBF #1**

Job Ticket: 67601

**DST#: 2**

Test Start: 2022.01.08 @ 21:49:24

## GENERAL INFORMATION:

Formation: **Miss. Chert & Cowley**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:56:44

Time Test Ended: 06:57:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

**Interval: 2889.00 ft (KB) To 2992.00 ft (KB) (TVD)**

Total Depth: 2992.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1319.00 ft (KB)

1311.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8846 Outside**

Press@RunDepth: psig @ 2998.00 ft (KB)

Start Date: 2022.01.08

End Date:

2022.01.09

Start Time: 21:49:09

End Time:

06:56:57

Capacity: 8000.00 psig

Last Calib.:

1899.12.30

Time On Btm:

Time Off Btm:

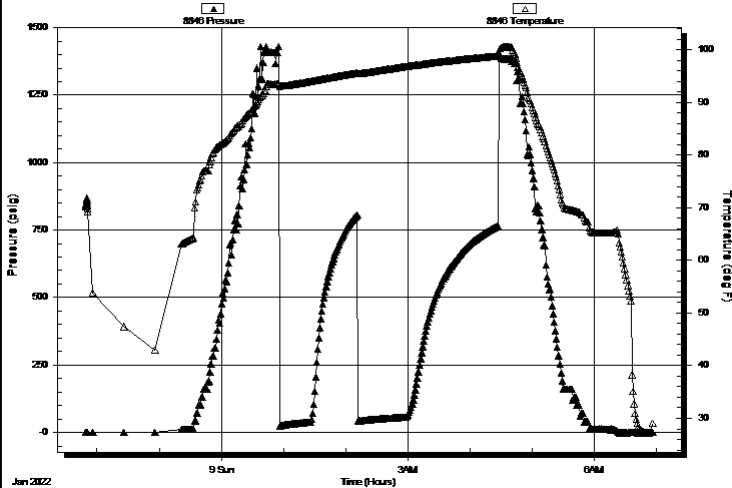
**TEST COMMENT:** IF:Weak building blow built to 3" in bucket (30)

IS:No Blow Back

FF:No Blow

FS:No Blow Back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM 15%W 85%M	0.46
15.00	M 100%M	0.11
0.00	TS WCM 65%M 35%W Had show of oil	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raney Oil Company LLC

**Sec 5 30S 5E Cowley,KS**

4665 Bauer Brook CT  
Lawrence, KS. 66049

**MBF #1**

Job Ticket: 67601

**DST#: 2**

ATTN: Thomas Raney

Test Start: 2022.01.08 @ 21:49:24

## Tool Information

Drill Pipe:	Length: 2693.00 ft	Diameter: 3.80 inches	Volume: 37.78 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 303.00 ft	Diameter: 2.80 inches	Volume: 2.31 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 40.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	2992.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.00 ft			
Tool Length:	131.00 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			2970.00	
Shut In Tool	5.00			2975.00	
Hydraulic tool	5.00			2980.00	
Jars	5.00			2985.00	
Safety Joint	3.00			2988.00	
Packer	4.00			2992.00	23.00 Bottom Of Top Packer
Packer - Shale	5.00			2997.00	
Stubb	1.00			2998.00	
Recorder	0.00	8369	Inside	2998.00	
Recorder	0.00	8846	Outside	2998.00	
Perforations	3.00			3001.00	
Change Over Sub	1.00			3002.00	
Blank Spacing	63.00			3065.00	
Change Over Sub	1.00			3066.00	
Perforations	31.00			3097.00	
Bullnose	3.00			3100.00	108.00 Anchor Tool
<b>Total Tool Length:</b>	<b>131.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raney Oil Company LLC

**Sec 5 30S 5E Cowley,KS**

4665 Bauer Brook CT  
Lawrence, KS. 66049

**MBF #1**

Job Ticket: 67601

**DST#: 2**

ATTN: Thomas Raney

Test Start: 2022.01.08 @ 21:49:24

## 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: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	WCM 15%W 85%M	0.457
15.00	M 100%M	0.114
0.00	TS WCM 65%M 35%W Had show of oil	0.000

Total Length: 75.00 ft      Total Volume: 0.571 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

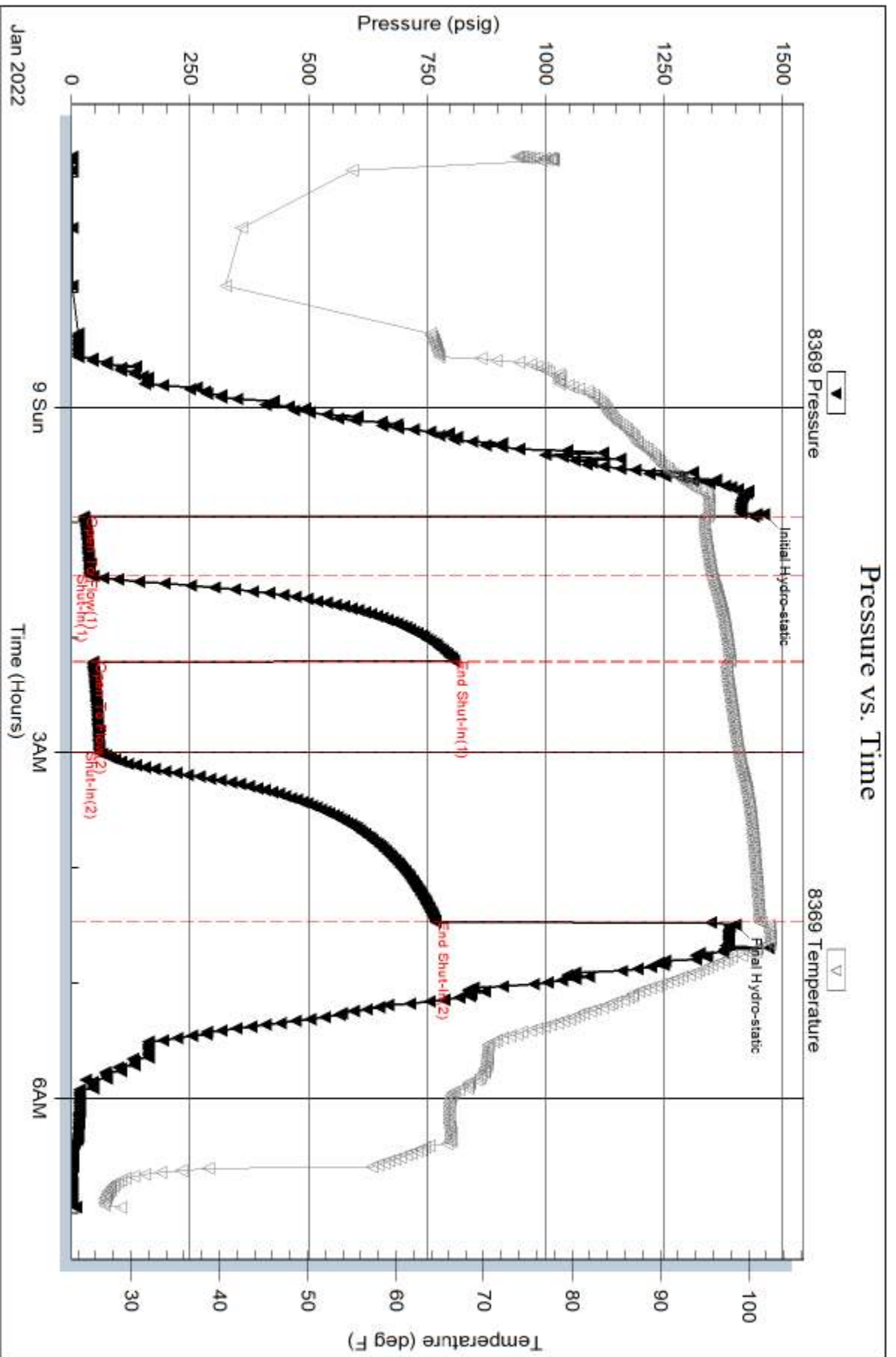
Laboratory Name:

Laboratory Location:

Recovery Comments: 60' WCM 15%W 85%M

15' M 100%M

TS WCM 65%M 35%W had show of oil



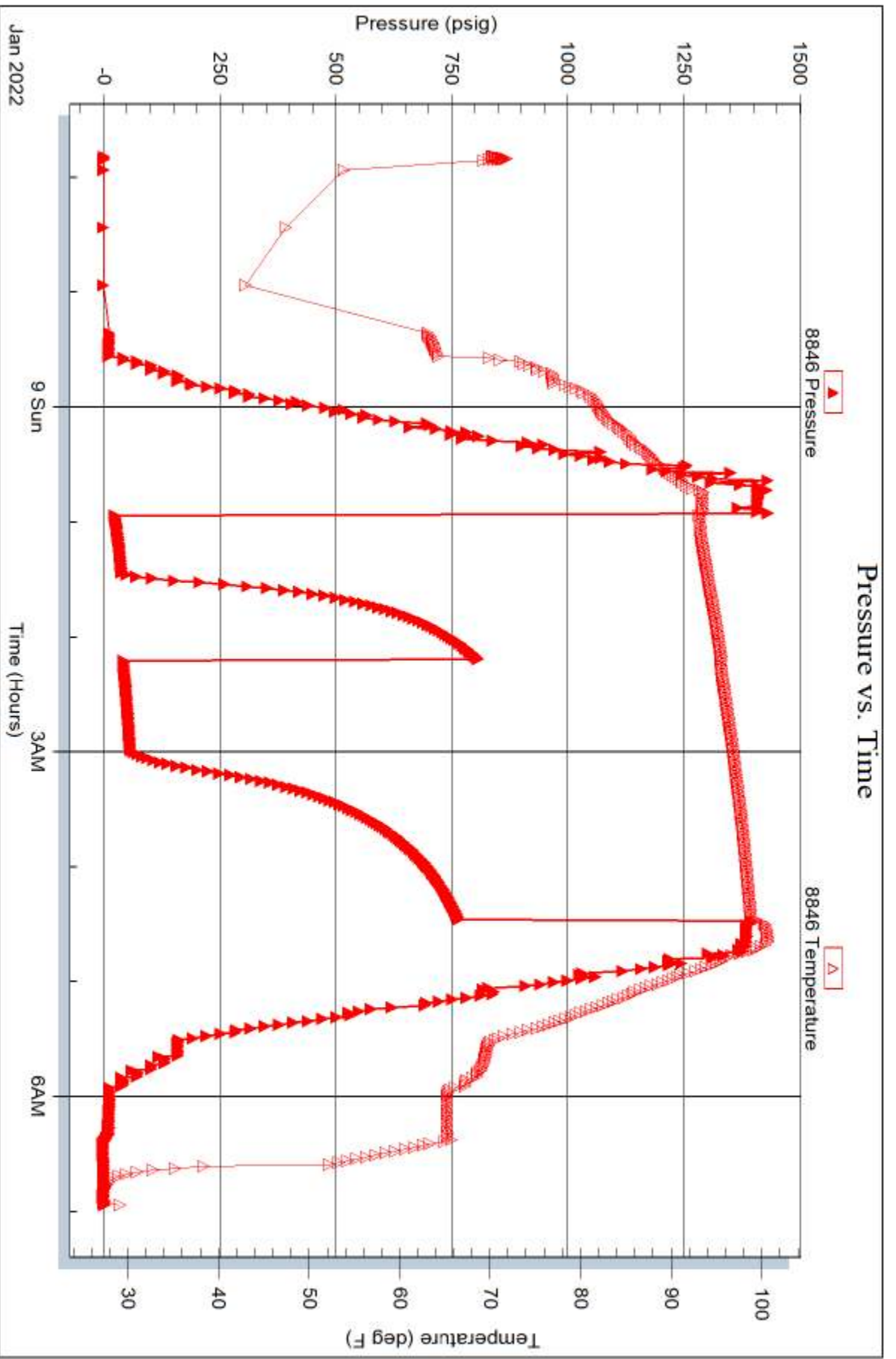


Serial #: 8846

Outside Raney Oil Company LLC

MBF #1

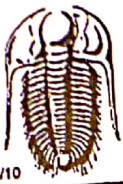
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67601

Printed: 2022.01.12 @ 14:42:11



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67150

Well Name & No. MBF#1 Test No. 1 Date 1/7/22  
 Company Ranney Oil Company LLC Elevation 1319 KB 1311 GL  
 Address 4665 Bauer Brook Ct Lawrence, KS, 66049  
 Co. Rep / Geo. Thomas Ranney Rig C+G #2  
 Location: Sec. S Twp 30 S Rge. 5 E Co. Cowley State KS

Interval Tested 2638-2850 Zone Tested Bartlesville Sandstone  
 Anchor Length 212' Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.1  
 Top Packer Depth 2630 Drill Collars Run 303 Vls 36  
 Bottom Packer Depth 2634 Wt. Pipe Run Ø WL 10.0  
 Total Depth 2850 Chlorides 1100 ppm System LCM 0

Blow Description IF: Fair Building Blow in Bucket built to 7" (30)  
ISI: no Blow Back  
FF: Fair Building Blow built to 8" in Bucket (60)  
FSI: No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>M</u>			<u>100</u>	
<u>60</u>	<u>OSM</u>			<u>100</u>	
_____	_____	%gas	%oil	%water	%mud
_____	_____	%gas	%oil	%water	%mud
_____	_____	%gas	%oil	%water	%mud

Rec Total 180 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

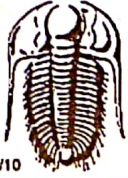
(A) Initial Hydrostatic 1301  Test \_\_\_\_\_ 1300  
 (B) First Initial Flow 27  Jars \_\_\_\_\_ 250  
 (C) First Final Flow 59  Safety Joint \_\_\_\_\_ 75  
 (D) Initial Shut-In 733  Circ Sub \_\_\_\_\_  
 (E) Second Initial Flow 63  Hourly Standby \_\_\_\_\_  
 (F) Second Final Flow 116  Mileage 246 307.50  
 (G) Final Shut-In 723  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1293  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 40  
 Final Shut-In 90

T-On Location 1500  
 T-Started 1805  
 T-Open 2035  
 T-Pulled 2030  
 T-Out 0254  
 Comments \_\_\_\_\_  
 EM Tool \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1932.50  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1932.50

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. **67601**

Well Name & No. MBF#1 Test No. 2 Date 1/18/22  
 Company Raney Oil Company LLC Elevation 1319 KB 1311 GL  
 Address 4665 Bacon Brook CT Lawrence, KS. 66049  
 Co. Rep / Geo. Thomas Raney Rig C+G #2  
 Location: Sec. 5 Twp 30S Rge. 5E Co. Cowley State KS

Interval Tested 2889-2992 Zone Tested Miss. Chert & Cowley Facies  
 Anchor Length 103' Drill Pipe Run 2693 Mud Wt. 9.4  
 Top Packer Depth 2281 Drill Collars Run 303 Vis 40  
 Bottom Packer Depth 2885 Wt. Pipe Run Ø WL 8.8  
 Total Depth 2992 Chlorides 1300 ppm System LCM 2  
 Blow Description IF: Use K building blow built to 3' in bucket (30)  
ISI: NO Blow Back (45)  
FF: no blow (45)  
FSI: NO Blow Back (90)

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>M</u>			<u>100</u>	
<u>60</u>	<u>WCM</u>		<u>15</u>	<u>85</u>	
<u>TS</u>	<u>WCM</u>		<u>35</u>	<u>65</u>	

Rec Total 75 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW .562 @ 27 °F Chlorides 28000 ppm  
 (A) Initial Hydrostatic 1460  Test 1300 T-On Location 2020  
 (B) First Initial Flow 26  Jars 250 T-Started 2/49  
 (C) First Final Flow 39  Safety Joint 75 T-Open 6100  
 (D) Initial Shut-In 808  Circ Sub \_\_\_\_\_ T-Pulled 0430  
 (E) Second Initial Flow 46  Hourly Standby \_\_\_\_\_ T-Out 0657  
 (F) Second Final Flow 59  Mileage 246 307.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 767  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1400  Straddle \_\_\_\_\_  
 Shale Packer 250  EM Tool \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Day Standby \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Accessibility \_\_\_\_\_ Sub Total 0  
 Sub Total 2182.50 Total 2182.50  
 MP/DST Disc't \_\_\_\_\_

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.