

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



**Cement or Acid Field Report**  
 Ticket No. **5287**  
 Foreman David Gardner  
 Camp Eureka

API # 15-035-24727

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
12-2-20	1258	Greer #1	7	34 S.	6 E.	Cowley	KS
Customer	SA Energy, LLC		Safety Meeting	Unit #	Driver	Unit #	Driver
Mailing Address	11615 Rosewood St, Suite 100		D6	105	Jason		
City	State	Zip Code	JH	112	Tosh		
Leawood	KS	66211	JV				

Job Type Surface Hole Depth 349' K.B. Slurry Vol. 48 Bbl Tubing \_\_\_\_\_  
 Casing Depth 336.67' Hole Size 12 1/4" Slurry Wt. 15# Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 8 5/8" Cement Left in Casing 15' +/- Water Gal/SK 6.5 Other \_\_\_\_\_  
 Displacement 21 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 200 sks Class A' Cement w/ 3% Calcz, 2% Gel, 1/4" Floseal/sk @ 15#/gal, yield 1.35 = 48 Bbl slurry. Displace w/ 21 Bbl fresh water. Shut down. Close casing in. Good cement returns to surface = 5 Bbl slurry to pit. Job complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	890.00	890.00
C107	60	Mileage	4.20	252.00
C200	200 sks	Class A' Cement	15.75	3150.00
C205	565#	Calcz 3%	.63	355.95
C206	375#	Gel 2%	.21	78.75
C209	50#	Floseal 1/4"/sk	2.35	117.50
C108B	9.4 Tons	Ton Mileage - Bulk Truck	1.40	789.60
<u>Thank You</u>				
			Sub Total	5,633.80
			Sales Tax 6.5%	240.64
Authorization <u>Dion Vazquez</u> Title <u>Tool Pusher</u>			Total	5,874.44

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



Duke Day  
 Rig #2

**Cement or Acid Field Report**

Ticket No. **5352**  
 Foreman Kevin McCoy  
 Camp Eureka

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
12-10-20	1375	Greer #1	7	34S	6E	Cowley	Ks	
Customer <u>RA Energy LLC</u>			Safety Meeting KM AM JV SM		Unit #	Driver	Unit #	Driver
Mailing Address <u>11615 Rosewood ST. Ste 100</u>					104	ALAN M.		
City <u>Leawood</u>					110	Josh V.		
State <u>Ks</u>					113	Steve M.		
Zip Code <u>66211</u>								


Job Type <u>Longstring</u>	Hole Depth <u>3369' K.B.</u>	Slurry Vol. <u>21 BBL LEAD 47 BBL TAIL</u>	Tubing _____
Casing Depth <u>3368' K.B.</u>	Hole Size <u>7 7/8"</u>	Slurry Wt. <u>13.3 - 13.8*</u>	Drill Pipe _____
Casing Size & Wt <u>5 1/2"</u>	Cement Left in Casing <u>42.11 SJ</u>	Water Gal/SK <u>7.4 - 9.0</u>	Other _____
Displacement <u>79 BBL</u>	Displacement PSI <u>1100</u>	Bump Plug to <u>1600 PSI</u>	BPM _____

Remarks: SAFETY Meeting: 5 1/2" 17' Casing Set @ 3368' . Rig up to 5 1/2 Casing. BREAK  
Circulation w/ 5 BBL fresh water. Mixed 75 SKS 60/40 Pozmix Cement w/ 6% Gel, 2\* PhenoSeal/  
SK @ 13.3\*/GAL, yield 1.57 = 21 BBL Slurry. TAIL in w/ 150 SKS THICK Set Cement w/ 5\* Kol-Seal/SK  
1\* PhenoSeal/SK, 1/3% CFL-115 @ 13.8\*/GAL, yield 1.75 = 47 BBL Slurry. Wash out Pump & Lines, Shut  
down. Release Latch down Plug. Displace Plug to Seat w/ 79 BBL Fresh water. (KCL in first  
40 BBL) FINAL Pumping Pressure 1100 PSI. Bump Plug to 1600 PSI. wait 2 mins. Release Pressure,  
FLOAT & Plug Held. Good Circulation @ ALL times while Cementing. Job Complete. Rig  
DOWN.

Plug RAT Hole w/ 25 SKS 60/40  
Centralizers on # 1, 3, 5, 7, 9, 10, 17, 25, 27, 40 BASKETS on Top of #3, 17, 30

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 102	1	Pump Charge	1100.00	1100.00
C 107	60	Mileage	4.20	252.00
C 203	100 SKS	60/40 Pozmix Cement	13.40	1340.00
C 206	515 #	Gel 6%	.21*	108.15
C 208	200 #	PhenoSeal 2*/SK	1.30*	260.00
C 201	150 SKS	THICK Set Cement	20.50	3075.00
C 207	750 *	Kol-Seal 5*/SK	.47*	352.50
C 208	150 *	PhenoSeal 1*/SK	1.30*	195.00
C 211	50 *	CFL-115 1/3%	11.00*	550.00
C 108B	12.55 TONS	Ton Mileage 60 miles	1.40	1054.20
C 222	5 GALS	KCL (IN FIRST 40 BBL Displacement water)	30.00	150.00
C 691	1	5 1/2 Guide shoe	175.00	175.00
C 674	1	5 1/2 AFU FLOAT COLLAR w/ Latch down	359.00	359.00
C 604	3	5 1/2 Cement BASKETS	236.00	708.00
C 504	10	5 1/2 x 7 7/8 Centralizers	50.00	500.00
C 421	1	5 1/2 LATCH DOWN Plug	242.00	242.00
C 781	1	5 1/2 Stop Ring	30.00	30.00
			Sub Total	10,450.85
			Less 5%	548.69
			Sales Tax	522.90
Authorization <u>Roger Martin</u> Title _____			Total	10,425.06

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.

**From:** Roger Martin [rmrockhand@gmail.com](mailto:rmrockhand@gmail.com)   
**Subject:** Greer#1Geo-report  
**Date:** January 25, 2021 at 12:07 PM  
**To:** [annraney@me.com](mailto:annraney@me.com), [annraney@icloud.com](mailto:annraney@icloud.com), [asner1@swbell.net](mailto:asner1@swbell.net), [Jeff.Plummer@18cg.com](mailto:Jeff.Plummer@18cg.com)  
**Cc:** [rogermartingeo@yahoo.com](mailto:rogermartingeo@yahoo.com)

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Please find attached pdf



ROGER L. MARTIN  
INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

GEOLOGIST'S REPORT  
DRILLING TIME AND SAMPLE LOG

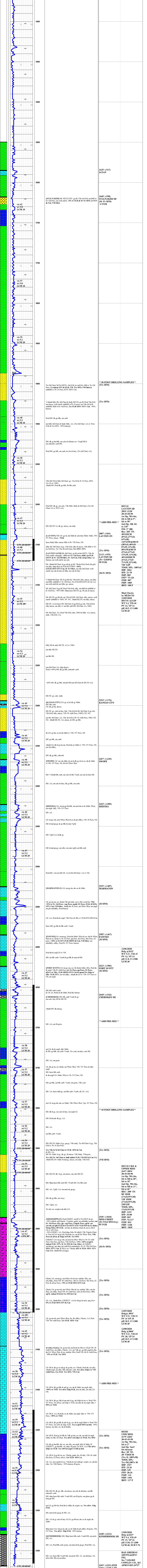
COMPANY RANEY OIL COMPANY, LLC				ELEVATIONS	
LEASE GREER #1				KB 1118'	GL 1110'
FIELD RAHN				Measurements Are All From KB	
LOCATION 330' FN1 & 2874' FEL				API # 15-035-24727-00-00	
SECTION 7		TOWNSHIP 34S		RANGE 06E	
COUNTY COWLEY				STATE KANSAS	
CONTRACTOR DUKE DRILLING, RIG #2				CASING	
SPUD 12/01/2020		COMP 12/10/2020		SURFACE 8.58" set at 347' KB	
RTD 3369' (-2251)		LTD 3366' (-2248)		PRODUCTION 5 1/2" 170ft casing set at 3365' KB	
ELL: DIL/MEL, CON/PE, SONIC					

FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY
HEIBNER SHALE	1337' (-219)	1337' (-219)	12/01/20- MRU Duke Drilling, Rig #2, SPUD 12/1/20
IATAN	1632' (-514)	1632' (-514)	12/02/20- Drtg @ 328' @ 7 AM, Run 8.58" surface casing, wt @ 348' w/ 200 lb PDMs, 3% cc, 2% gel
STALNAKER SD	1668' (-550)	1668' (-550)	12/03/20- Drtg @ 794' @ 7 AM, Displace mud @ 1407' SLS @ 1264'
LAYTON ZONE (CLANNING)	2085' (-975)	2087' (-969)	12/03/20- Drtg @ 3302' @ 7 AM, Run F-Edge-ELLE DIL/MEL, CON/PE, SONIC LTD 3366'
LAYTON SAND	2113' (-955)	2113' (-955)	12/03/20- Drtg @ 3302' @ 7 AM, Run F-Edge-ELLE DIL/MEL, CON/PE, SONIC LTD 3366'
KANSAS CITY	2290' (-1172)	2290' (-1172)	12/04/20- Drtg @ 1645' @ 7 AM
PAWNEE	2366' (-1148)	2367' (-1149)	12/04/20- TOI after DST #1 @ 2120' @ 7 AM
HERTHA	2423' (-1104)	2423' (-1105)	12/06/20- Drtg @ 2520' @ 7 AM
MARMATON	2529' (-1411)	2529' (-1407)	12/07/20- CFS @ 2859' @ 7 AM
PAWNEE	2888' (-1407)	2888' (-1407)	12/08/20- Drtg @ 3364' @ 7 AM
FORT SCOTT	3025' (-1397)	3024' (-1396)	12/09/20- Drtg @ 3302' @ 7 AM, Run F-Edge-ELLE DIL/MEL, CON/PE, SONIC LTD 3366'
CHEROKEE SH	3058' (-1349)	3059' (-1348)	12/10/20- DST #3 @ RTD 3369' @ 7 AM, Run 5 1/2" production casing. See remarks
MISSISSIPPIAN CHERT	2932' (-1314)	2932' (-1318)	
MISSISSIPPIAN LS	2944' (-1302)	2944' (-1302)	
COWLEY FACIES	3092' (-1194)	3096' (-1197)	
KINDERHOOK SH	3326' (-2288)	3330' (-2215)	
RTD/LTD	3366' (-2248)	3369' (-2251)	

REMARKS:

12/10/2020 Safety Meeting: 5 1/2" 170 casing wt @ 3366'. Rig up to 5 1/2" casing. Break circulation w/ 5 Bbl fresh water mixed 75 cc @ 100 ppm Permox cement w/ 1% Gel, 2% Bentonite @ @ 13.3 gal @ 1600 1.57" 21 Bbl slurry. Fall in w/ 150 skt Set cement w/ 5% Gel-Soft, 4.0 PAM, 3% cc, 2% gel. CFI: 115 @ 13.8 gal, 1600 1.75" 47 Bbl slurry. Wash out pump & lines, shut down. Release batch down then. Discharge plug to set w/ 79 Bbl fresh water. (5 CC @ 100 ppm). Trapped pumping pressure 1100 psi. Bump plug to 1600 psi. Wait 2 mins. Release pressure, float & plug held. Good circulation @ all times while cementing. Rig down.

Respectfully submitted,  
Roger L. Martin, Geologist





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raney Oil Company, Inc

4665 Bauer Brook Court  
Lawrence, KS  
66049-9013  
ATTN: Tom Raney/Roger Mart

**Greer #1**

Job Ticket: 66618

**DST#: 1**

Test Start: 2020.12.05 @ 06:18:00

## GENERAL INFORMATION:

Formation: **Layton Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:03:00

Time Test Ended: 13:23:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: **2093.00 ft (KB) To 2120.00 ft (KB) (TVD)**

Reference Elevations: 1118.00 ft (KB)

Total Depth: 2120.00 ft (KB) (TVD)

1110.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 125.83 psig @ 2094.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.12.05

End Date: 2020.12.05

Last Calib.: 1899.12.30

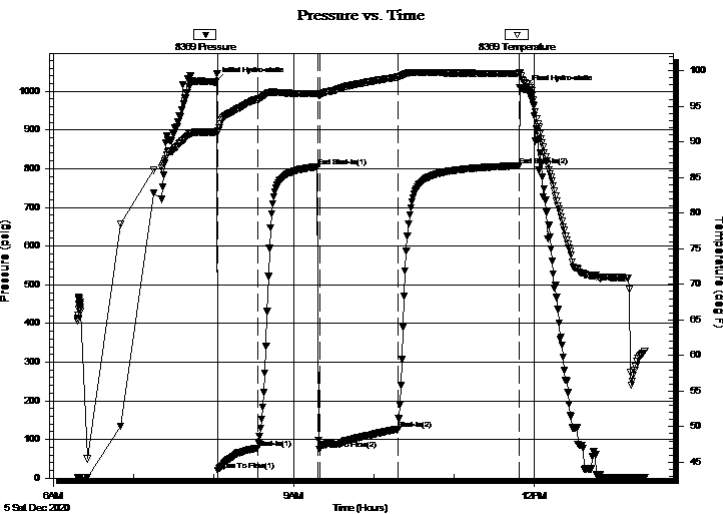
Start Time: 06:18:01

End Time: 13:23:00

Time On Btm: 2020.12.05 @ 08:01:00

Time Off Btm: 2020.12.05 @ 11:52:50

**TEST COMMENT:** IF - Weak blow building to strong blow 9 minutes into initial flow period. Continuing to build to 58 inches of water.  
FF - Strong blow throughout final flow period. Continuing to build to 110 inches of water.  
FS - 5 inch blow back during final shut-in period.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1024.11	91.39	Initial Hydro-static
2	20.75	91.25	Open To Flow (1)
32	77.72	95.98	Shut-In(1)
77	805.20	96.75	End Shut-In(1)
78	75.33	96.46	Open To Flow (2)
137	125.83	99.09	Shut-In(2)
228	807.39	99.60	End Shut-In(2)
232	1005.04	98.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	GOSMCW 6%G 1%O 71%W 22%M	0.20
80.00	GW&MCO 5%G 67%O 15%W 13%M	0.39
125.00	GSW&MCO 38%G 40%O 8%W 14%M	1.75
40.00	GOCM 8%G 27%O 65%M	0.56
720.00	GIP 100%G	10.10

## Gas Rates

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

# DRILL STEM TEST REPORT

Raney Oil Company, Inc

4665 Bauer Brook Court  
Lawrence, KS  
66049-9013  
ATTN: Tom Raney/Roger Mart

**Greer #1**

Job Ticket: 66618

**DST#: 1**

Test Start: 2020.12.05 @ 06:18:00

## GENERAL INFORMATION:

Formation: **Layton Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:03:00

Time Test Ended: 13:23:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

**Interval: 2093.00 ft (KB) To 2120.00 ft (KB) (TVD)**

Reference Elevations: 1118.00 ft (KB)

Total Depth: 2120.00 ft (KB) (TVD)

1110.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8846** Inside

Press@RunDepth: psig @ 2094.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.12.05

End Date: 2020.12.05

Last Calib.: 1899.12.30

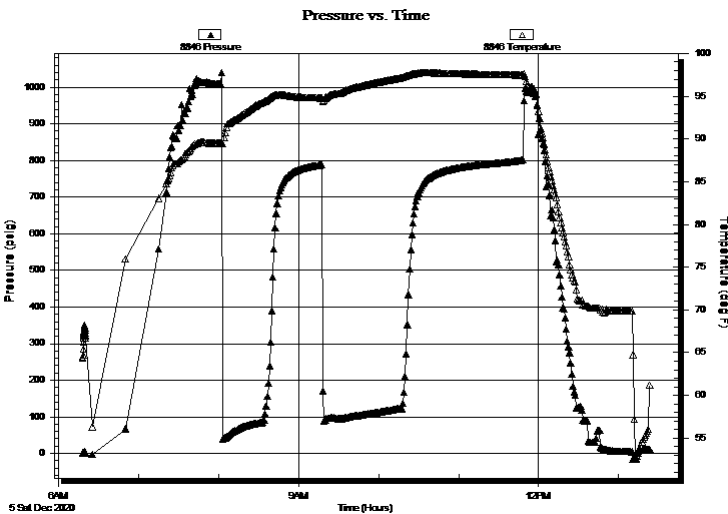
Start Time: 06:18:01

End Time: 13:23:10

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF - Weak blow building to strong blow 9 minutes into initial flow period. Continuing to build to 58 inches of water.  
FF - Strong blow throughout final flow period. Continuing to build to 110 inches of water.  
FS - 5 inch blow back during final shut-in period.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	GOSMCW 6%G 1%O 71%W 22%M	0.20
80.00	GW&MCO 5%G 67%O 15%W 13%M	0.39
125.00	GSW&MCO 38%G 40%O 8%W 14%M	1.75
40.00	GOCM 8%G 27%O 65%M	0.56
720.00	GIP 100%G	10.10

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raney Oil Company, Inc

4665 Bauer Brook Court  
Lawrence, KS  
66049-9013  
ATTN: Tom Raney/Roger Mart

**Greer #1**

Job Ticket: 66618      **DST#: 1**  
Test Start: 2020.12.05 @ 06:18:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 38.1 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 84000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1200.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	GOSMCW 6%G 1%O 71%W 22%M	0.197
80.00	GW&MCO 5%G 67%O 15%W 13%M	0.393
125.00	GSW&MCO 38%G 40%O 8%W 14%M	1.753
40.00	GOCM 8%G 27%O 65%M	0.561
720.00	GIP 100%G	10.100

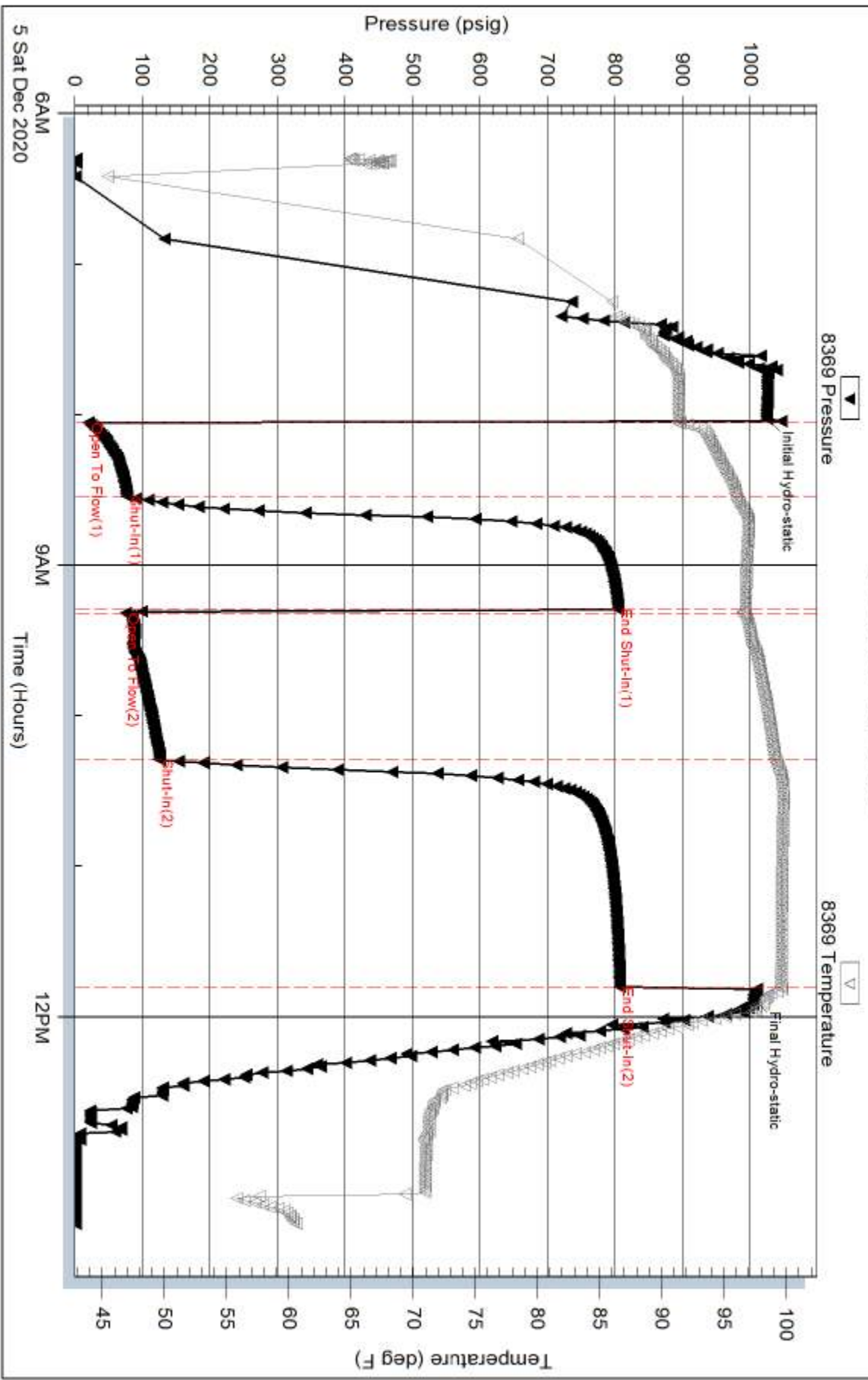
Total Length: 1005.00 ft      Total Volume: 13.004 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time



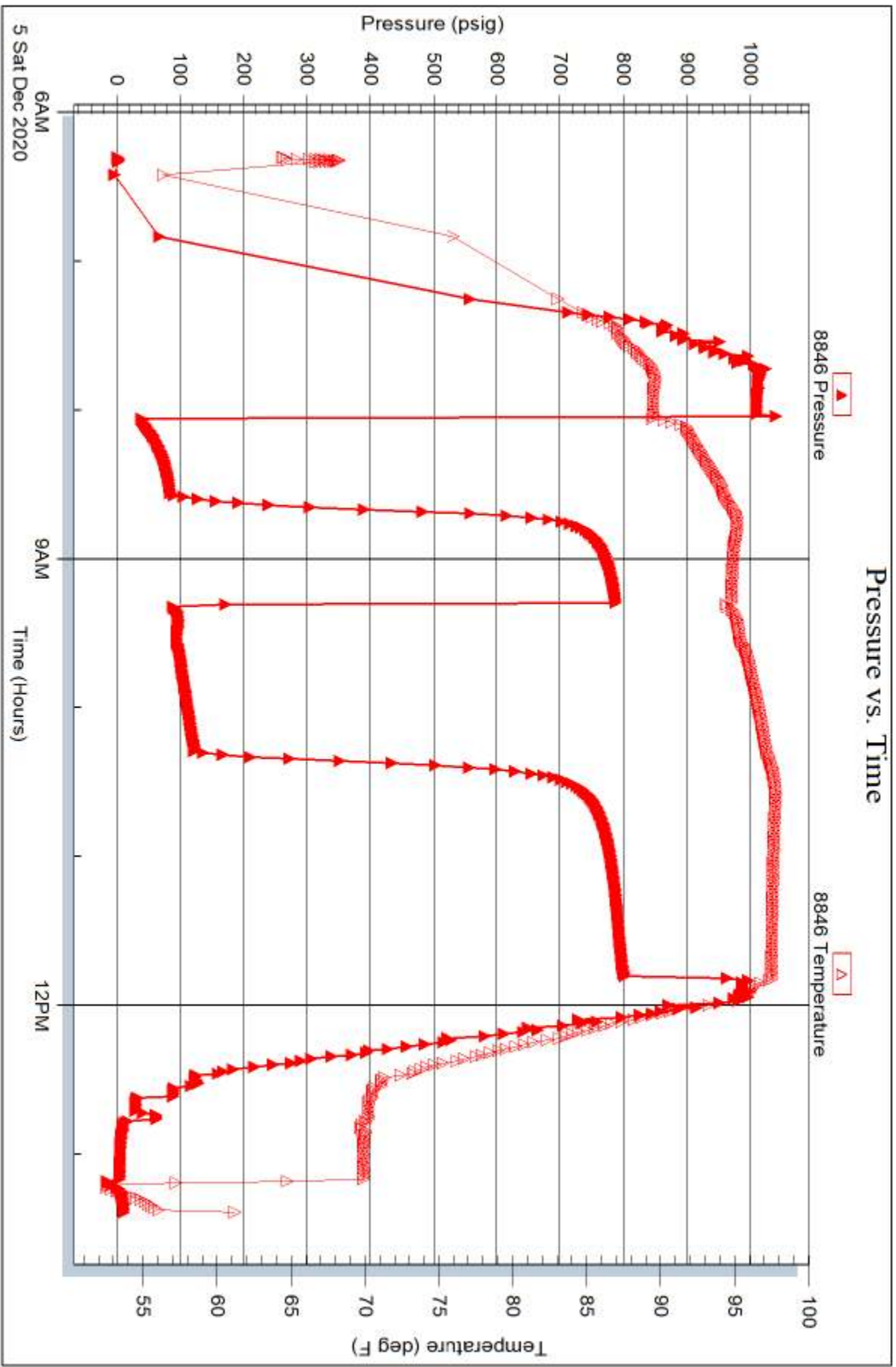
Serial #: 8846

Inside

Raney Oil Company, Inc

Greer #1

DST Test Number: 1

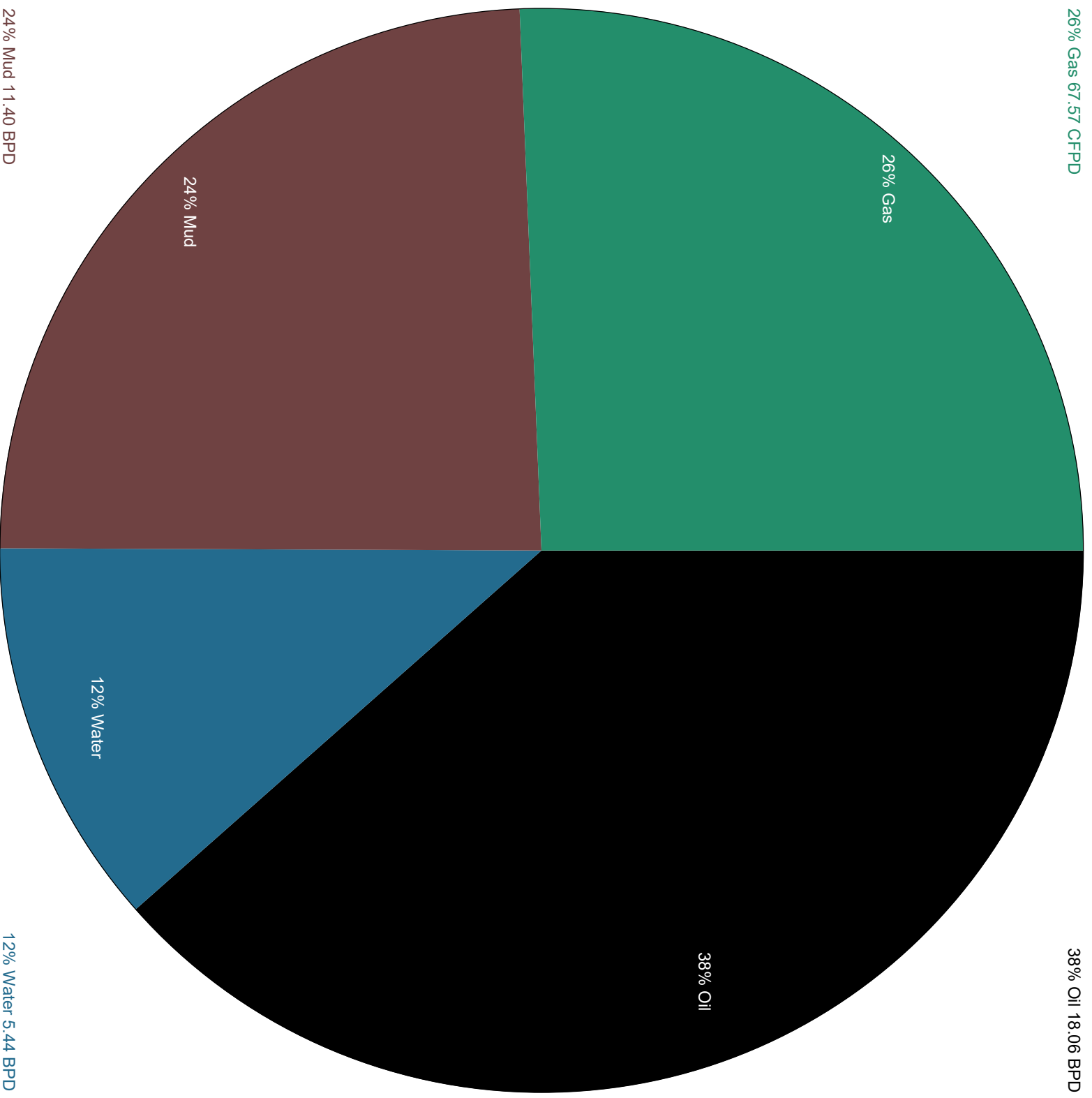


Trilobite Testing, Inc

Ref. No: 66618

Printed: 2020.12.05 @ 16:01:16

Calculated Recovery Analysis - Raney Oil Company, LLC - Greer #1 - DST #1





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Raney Oil Company, Inc  
 4665 Bauer Brook Court  
 Lawrence, KS  
 66049-9013  
 ATTN: Tom Raney/Roger Mart

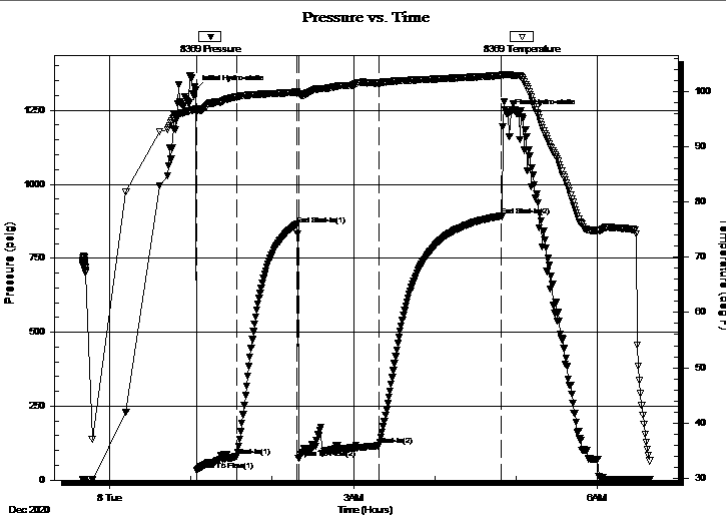
**7/34S/6E/Cowley, KS**  
**Greer #1**  
 Job Ticket: 66619 **DST#: 2**  
 Test Start: 2020.12.07 @ 23:40:00

## GENERAL INFORMATION:

Formation: **Cherokee & Upper Mis**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:04:00  
 Time Test Ended: 06:39:00  
 Interval: **2647.00 ft (KB) To 3054.00 ft (KB) (TVD)**  
 Total Depth: 3054.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jimmy Ricketts  
 Unit No: 80  
 Reference Elevations: 1118.00 ft (KB)  
 1110.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**  
 Press@RunDepth: 116.91 psig @ 2648.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2020.12.07 End Date: 2020.12.08 Last Calib.: 1899.12.30  
 Start Time: 23:40:01 End Time: 06:39:00 Time On Btm: 2020.12.08 @ 01:03:20  
 Time Off Btm: 2020.12.08 @ 04:54:20

**TEST COMMENT:** IF - Weak blow building to strong blow 20 minutes into initial flow period. Continuing to build to 18 inches of water.  
 FF - Weak blow building to strong blow 11 minutes into final flow period. Continuing to build to 46 inches of water.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1319.47	96.78	Initial Hydro-static
1	33.72	96.23	Open To Flow (1)
31	79.77	99.00	Shut-In(1)
75	864.56	99.85	End Shut-In(1)
76	73.91	99.59	Open To Flow (2)
136	116.91	101.46	Shut-In(2)
226	892.57	102.85	End Shut-In(2)
231	1239.64	103.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	OSM 1%O & 99%M	0.59
80.00	OSM 1%O & 99%M	1.12
0.00	250' GIP 100%G	0.00
0.00	TS OSM 1%O & 99%M	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Raney Oil Company, Inc  
 4665 Bauer Brook Court  
 Lawrence, KS  
 66049-9013  
 ATTN: Tom Raney/Roger Mart

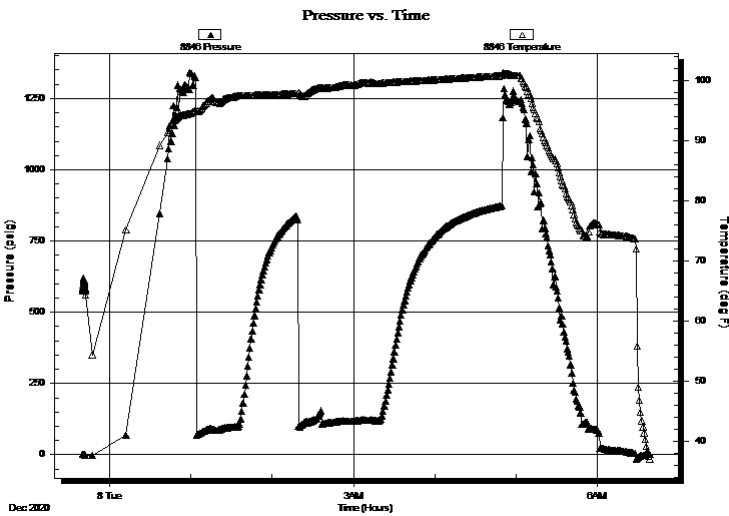
**7/34S/6E/Cowley, KS**  
**Greer #1**  
 Job Ticket: 66619 **DST#: 2**  
 Test Start: 2020.12.07 @ 23:40:00

**GENERAL INFORMATION:**

Formation: **Cherokee & Upper Mis**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:04:00  
 Time Test Ended: 06:39:00  
**Interval: 2647.00 ft (KB) To 3054.00 ft (KB) (TVD)**  
 Total Depth: 3054.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jimmy Ricketts  
 Unit No: 80  
 Reference Elevations: 1118.00 ft (KB)  
 1110.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8846** **Inside**  
 Press@RunDepth: psig @ 2648.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2020.12.07 End Date: 2020.12.08 Last Calib.: 1899.12.30  
 Start Time: 23:40:01 End Time: 06:39:10 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF - Weak blow building to strong blow 20 minutes into initial flow period. Continuing to build to 18 inches of water.  
 FF - Weak blow building to strong blow 11 minutes into final flow period. Continuing to build to 46 inches of water.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
120.00	OSM 1%O & 99%M	0.59
80.00	OSM 1%O & 99%M	1.12
0.00	250' GIP 100%G	0.00
0.00	TS OSM 1%O & 99%M	0.00

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raney Oil Company, Inc

**7/34S/6E/Cowley, KS**

4665 Bauer Brook Court  
Lawrence, KS  
66049-9013

**Greer #1**

Job Ticket: 66619

**DST#: 2**

ATTN: Tom Raney/Roger Mart

Test Start: 2020.12.07 @ 23:40:00

## 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: 60.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OSM 1%O & 99%M	0.590
80.00	OSM 1%O & 99%M	1.122
0.00	250' GIP 100%G	0.000
0.00	TS OSM 1%O & 99%M	0.000

Total Length: 200.00 ft      Total Volume: 1.712 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

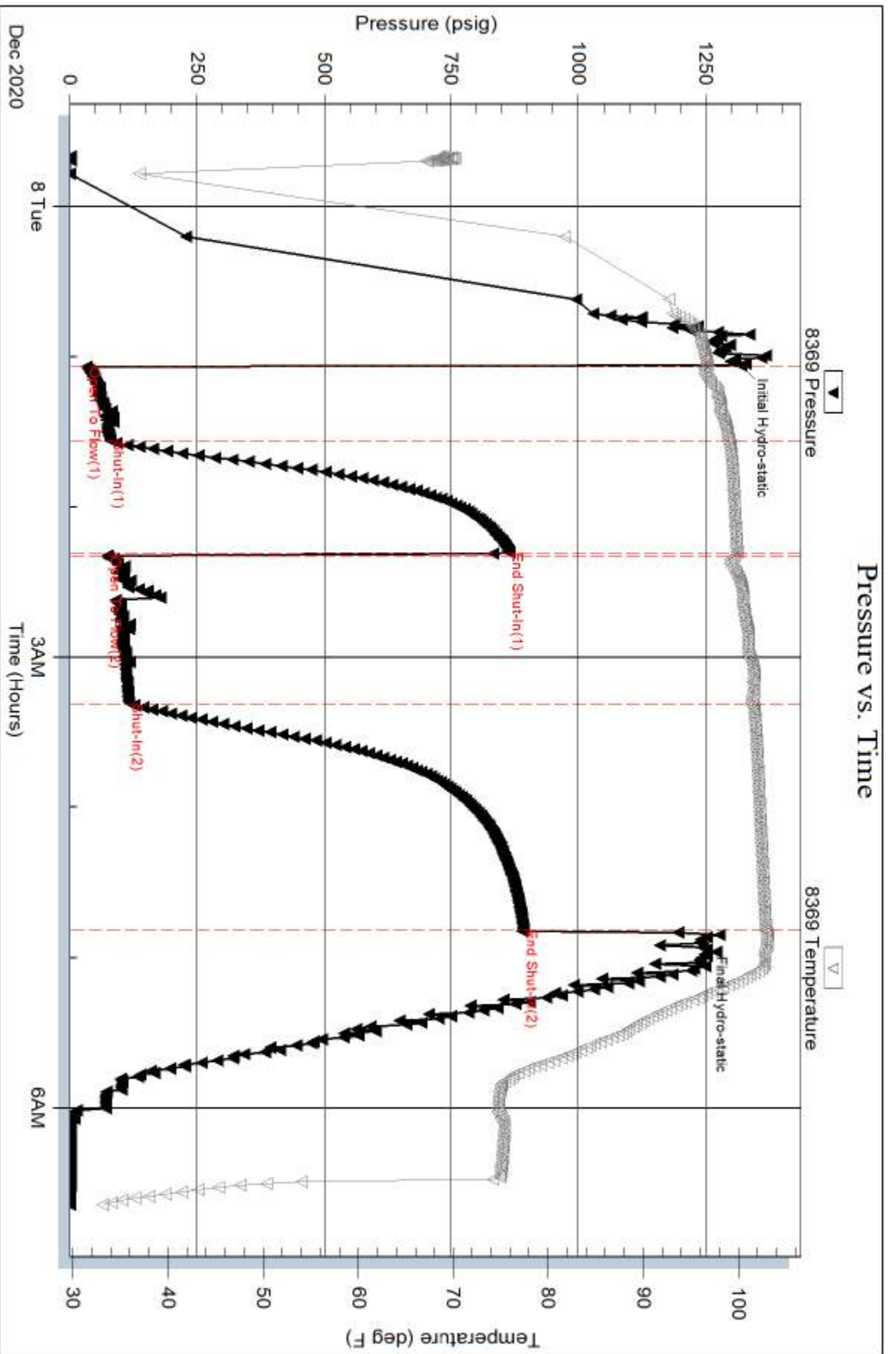
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





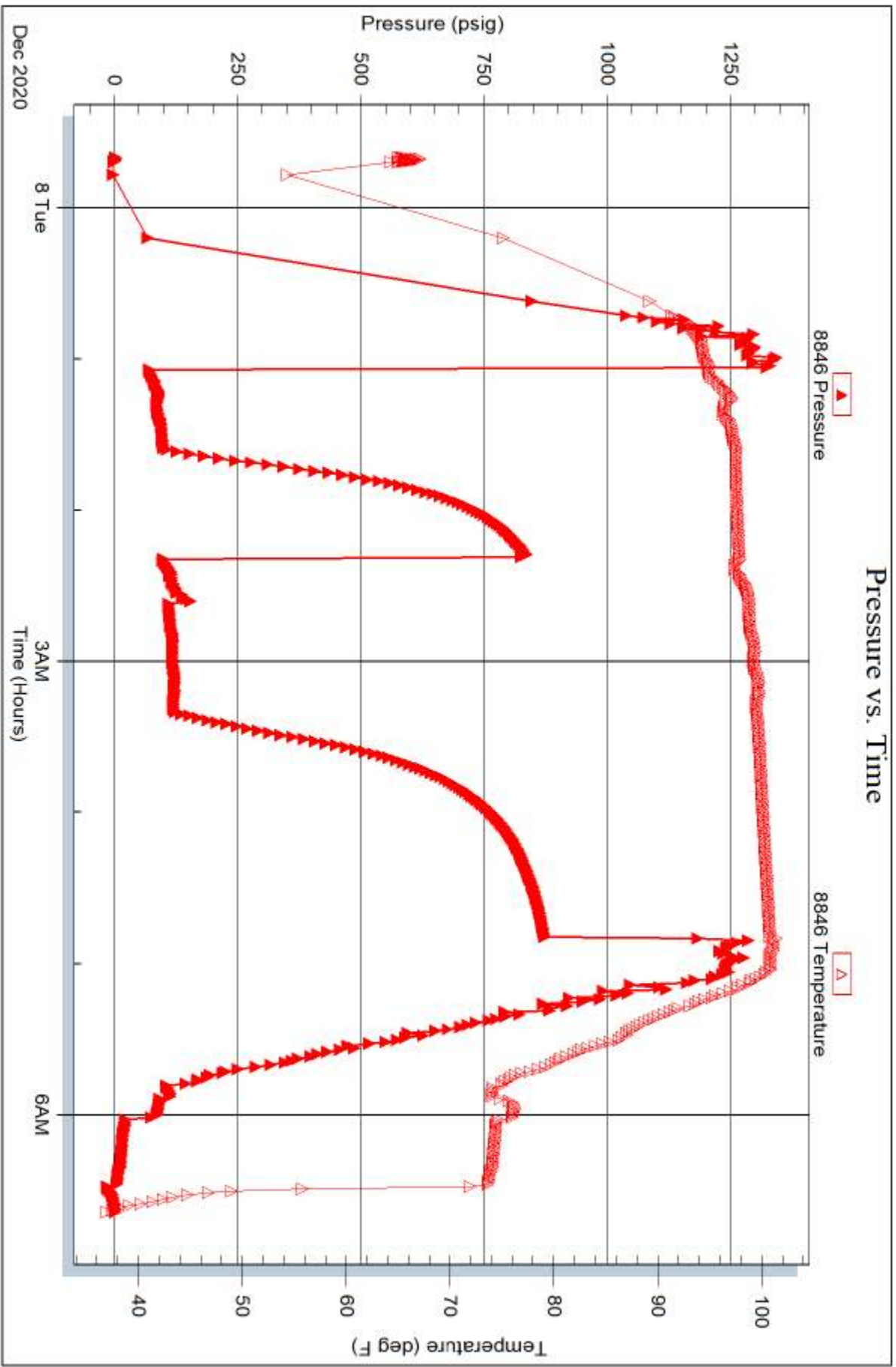
Serial #: 8846

Inside

Raney Oil Company, Inc

Greer #1

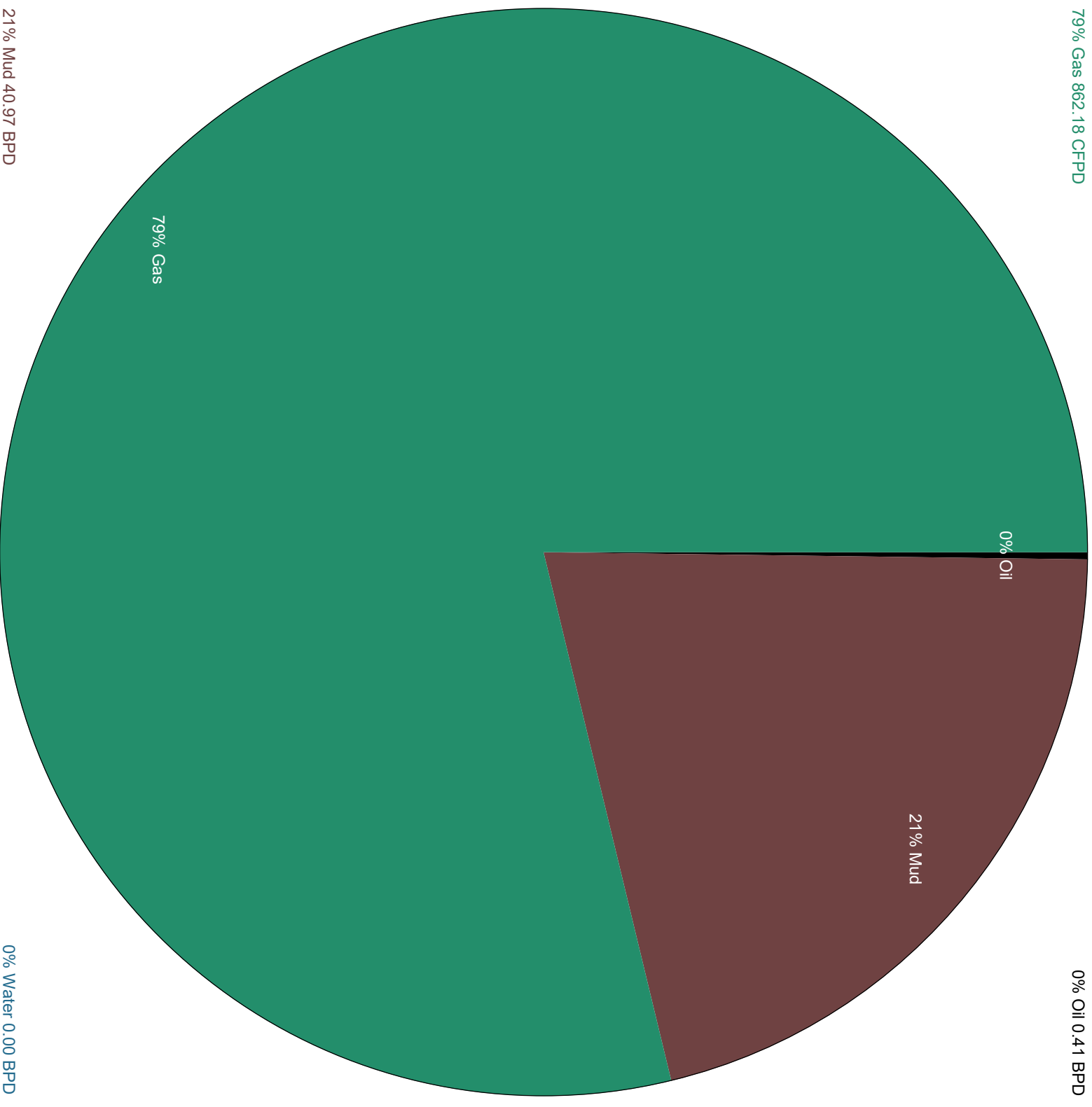
DST Test Number: 2



Calculated Recovery Analysis - Raney Oil Company, LLC - Greer #1 - DST #2

79% Gas 862.18 CFPD

0% Oil 0.41 BPD





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Raney Oil Company, Inc  
 4665 Bauer Brook Court  
 Lawrence, KS  
 66049-9013  
 ATTN: Tom Raney/Roger Mart

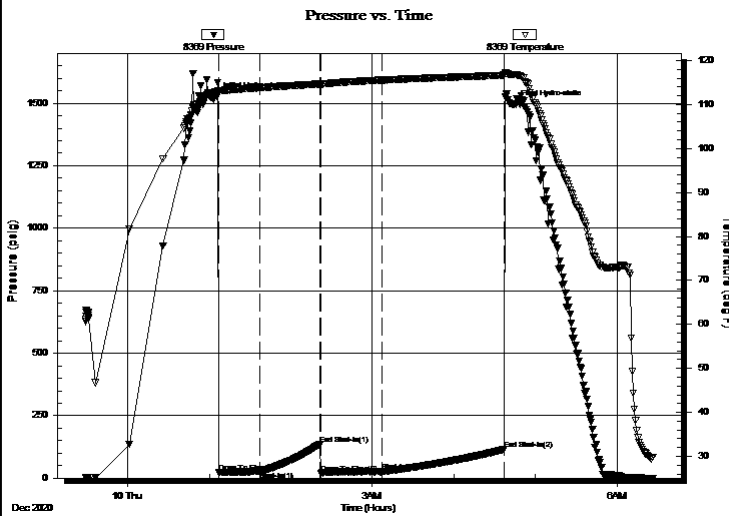
**7/34S/6E/Cowley, KS**  
**Greer #1**  
 Job Ticket: 66620 **DST#: 3**  
 Test Start: 2020.12.09 @ 23:29:00

## GENERAL INFORMATION:

Formation: **Lower Mississippian**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:07:00  
 Time Test Ended: 06:26:30  
 Interval: **3175.00 ft (KB) To 3366.00 ft (KB) (TVD)**  
 Total Depth: 3366.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jimmy Ricketts  
 Unit No: 80  
 Reference Elevations: 1118.00 ft (KB)  
 1110.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**  
 Press@RunDepth: 25.64 psig @ 3176.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2020.12.09 End Date: 2020.12.10 Last Calib.: 2020.12.10  
 Start Time: 23:29:01 End Time: 06:26:30 Time On Btm: 2020.12.10 @ 01:05:40  
 Time Off Btm: 2020.12.10 @ 04:44:20

TEST COMMENT: IF - Weak blow building to 2 inches of water initial flow period.  
 FF - Surface blow throughout final flow period.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1527.35	113.04	Initial Hydro-static
2	22.92	112.64	Open To Flow (1)
32	26.02	113.83	Shut-In(1)
76	134.69	114.70	End Shut-In(1)
77	19.72	114.75	Open To Flow (2)
122	25.64	115.56	Shut-In(2)
212	115.69	116.68	End Shut-In(2)
219	1495.62	116.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	VSOSM TrO & 100%M	0.28
0.00	TS VSOSM TrO & 100%M	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Raney Oil Company, Inc

**7/34S/6E/Cowley, KS**

4665 Bauer Brook Court  
Lawrence, KS  
66049-9013  
ATTN: Tom Raney/Roger Mart

**Greer #1**

Job Ticket: 66620

**DST#: 3**

Test Start: 2020.12.09 @ 23:29:00

## GENERAL INFORMATION:

Formation: **Lower Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:07:00

Time Test Ended: 06:26:30

Interval: **3175.00 ft (KB) To 3366.00 ft (KB) (TVD)**

Total Depth: 3366.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Reference Elevations: 1118.00 ft (KB)

1110.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8846 Inside**

Press@RunDepth: psig @ 3176.00 ft (KB)

Start Date: 2020.12.09

End Date: 2020.12.10

Start Time: 23:29:01

End Time: 06:26:40

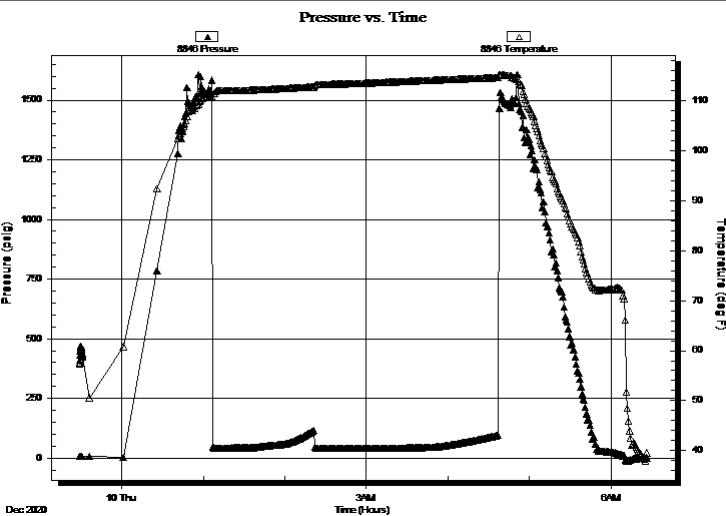
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF - Weak blow building to 2 inches of water initial flow period.  
FF - Surface blow throughout final flow period.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	VSOSM TrO & 100%M	0.28
0.00	TS VSOSM TrO & 100%M	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raney Oil Company, Inc

**7/34S/6E/Cowley, KS**

4665 Bauer Brook Court  
Lawrence, KS  
66049-9013

**Greer #1**

Job Ticket: 66620

**DST#: 3**

ATTN: Tom Raney/Roger Mart

Test Start: 2020.12.09 @ 23:29:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 7.90 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 1200.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	VSOSM TrO & 100%M	0.281
0.00	TS VSOSM TrO & 100%M	0.000

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

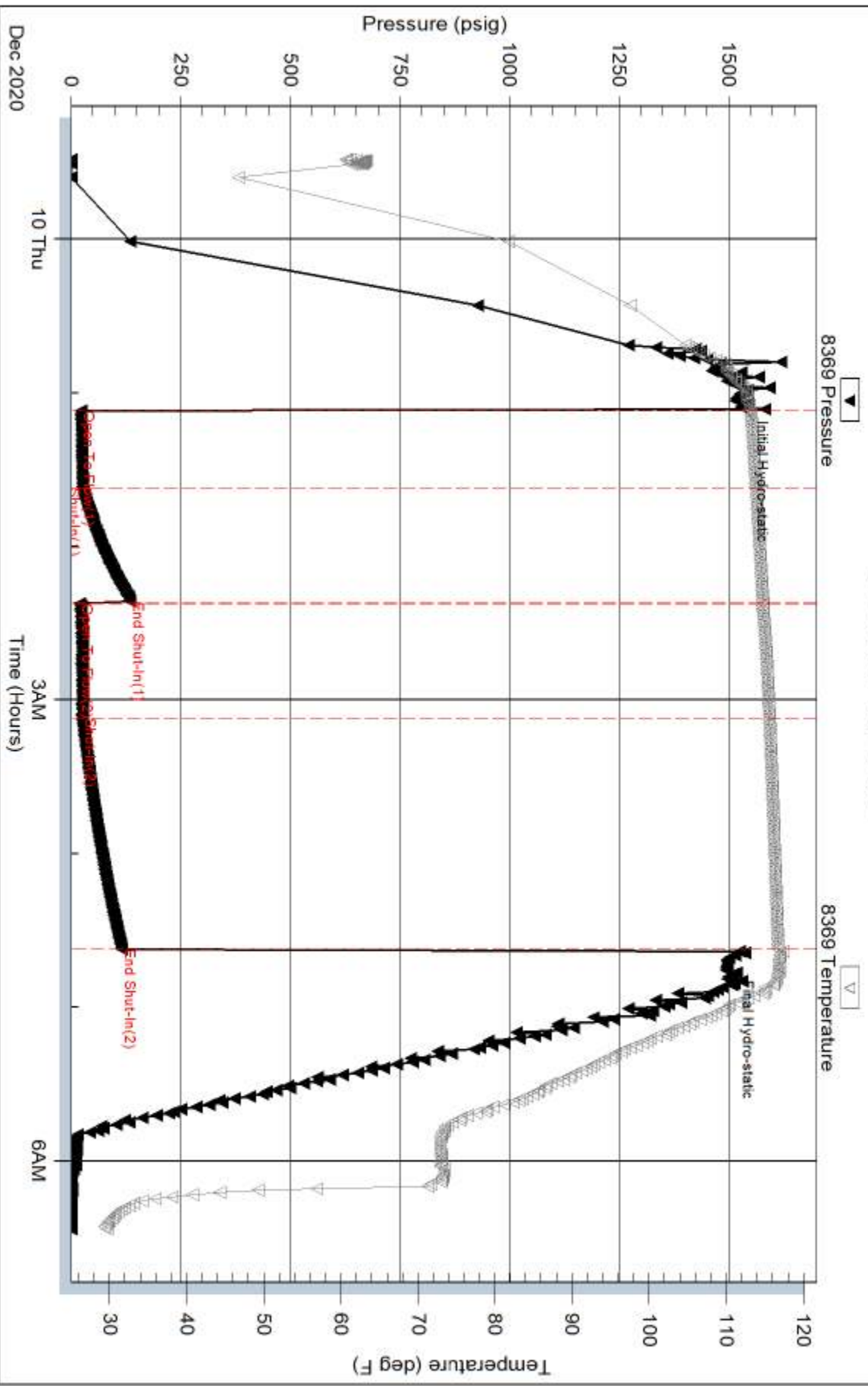
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



Serial #: 8846

Inside

Raney Oil Company, Inc

Greer #1

DST Test Number: 3

