

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



Duke Dr19  
 Rig #2

Cement or Acid Field Report  
 Ticket No. **5353**  
 Foreman Kevin McCoy  
 Camp EUREKA

API # 15-035-24725

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
12-12-20	1258	House #1A	31	33S	6E	Cowley	Ks
Customer <u>RA Energy LLC</u>		Safety Meeting KM AM ZA	Unit #	Driver		Unit #	Driver
Mailing Address <u>11615 Rosewood ST. STE 100</u>			104	<u>ALAN M.</u>			
City <u>Leawood</u>			113	<u>Zevi A.</u>			
State <u>Ks</u>	Zip Code <u>66211</u>						

Job Type SURFACE Hole Depth 347' K.B. Slurry Vol. 48 BBL Tubing \_\_\_\_\_  
 Casing Depth 336' G.L. Hole Size 12 1/4" Slurry Wt. 15.75 Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 8 5/8 Cement Left in Casing 15' +/- Water Gal/SK \_\_\_\_\_ 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% CaCl2, 2% GeL, 1/4" FIOSEAL/SK @ 15#/GAL, yield 1.35 = 48 BBL SLURRY. Displace w/ 21 BBL FRESH WATER. Shut casing in. Good Cement Returns to SURFACE = 2 BBL 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	60	Mileage	4.20	252.00
C 200	200 SKS	CLASS "A" CEMENT	15.75	3150.00
C 205	565 *	CaCl2 3%	.63 *	355.95
C 206	375 *	GeL 2%	.21 *	78.75
C 209	50 *	FIOSEAL 1/4"/SK	2.35 *	117.50
C 108B	9.4 TONS	TON Mileage 60 miles	1.40	789.60
			Sub Total	5633.80
			Less 5%	293.72
			Sales Tax 6.5%	240.64
Authorization <u>witnessed By DIAN VASQUEZ</u> Title <u>Duke Dr19 Rig 2 Toolpusher</u>			Total	5580.72

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



Cement or Acid Field Report  
 Ticket No. **5369**  
 Foreman David Gardner  
 Camp Eureka

API # 15-035-24725

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
12-20-20	1375	House # 1A	31	33 S.	6 E.	Cowley	KS
Customer <u>RA Energy LLC</u>		Safety Meeting DG JH RM AB		Unit # 105	Driver Jason	Unit #	Driver
Mailing Address <u>11615 Rosewood St., Ste. 100</u>				110	Russ		
City <u>Leawood</u>		State <u>KS</u>	Zip Code <u>66211</u>	113	Allen B.		

Job Type Longstring Hole Depth 3399' K.B. Slurry Vol. 21 Bbl Lead / 47 Bbl Tail Tubing \_\_\_\_\_  
 Casing Depth 3399.18' Hole Size 7 7/8" Slurry Wt. 13.3\* - 13.8\* Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 5 1/2" 17" Cement Left in Casing 41.79' S.S. Water Gal/SK 7.4 - 9.0 Other \_\_\_\_\_  
 Displacement 80 Bbl Displacement PSI 1050 PSI Bump Plug to 1450 PSI BPM \_\_\_\_\_

Remarks: Safety Meeting. 5 1/2" 17" Casing set @ 3399.18'. 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" Kolseal/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/ 80 Bbl fresh water. (KCL in 1<sup>st</sup> 40 Bbl). Final pumping pressure 1050 PSI. Bump plug to 1450 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, 19, 27, 29, 31. Baskets on #8, 18, & top of 39 w/ Stop Collar.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C102	1	Pump Charge	1100.00	1100.00
C107	60	Mileage	4.20	252.00
C203	100 sks	60/40 Pozmix Cement	13.40	1340.00
C206	575 #	Gel 6%	.21	108.15
C208	200 #	Phenoseal 2"/sk	1.30	260.00
C201	150 sks	Thick Set Cement	20.50	3075.00
C207	750 #	Kolseal 5"/sk	.47	352.50
C208	150 #	Phenoseal 1"/sk	1.30	195.00
C211	50 #	CFL-115 1/3%	11.00	550.00
C108B	12.55 Tons	Ton Mileage - Bulk Trucks	1.40	1054.20
C691	1	5 1/2" Guide Shoe	175.00	175.00
C674	1	5 1/2" AFLU Float Collar w/ Latch Down	359.00	359.00
C604	3	5 1/2" Cement Baskets	236.00	708.00
C504	10	5 1/2" x 7 1/8" Centralizers	50.00	500.00
C421	1	5 1/2" Latch Down Plug	242.00	242.00
C781	2	5 1/2" Stop Ring	30.00	60.00
C222	5 gals.	KCL (In 1 <sup>st</sup> 40 Bbl Displacement Water)	30.00	150.00
			Sub Total	10,480.85
			Less 5%	550.28
			Sales Tax 6.5%	524.85
Authorization <u>Roger Martin</u> Title _____			Total	10,455.42

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.

Conservation Division  
266 N. Main St., Ste. 220  
Wichita, KS 67202-1513



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Andrew J. French, Chairperson  
Dwight D. Keen, Commissioner  
Susan K. Duffy, Commissioner

Laura Kelly, Governor

April 28, 2021

Thomas Raney  
Raney Oil Company, LLC  
4665 BAUER BROOK CT.  
LAWRENCE, KS 66049-9013

Re: ACO-1  
API 15-035-24725-00-00  
HOUSE 1A  
SE/4 Sec.31-33S-06E  
Cowley County, Kansas

Dear Thomas Raney:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 12/11/2020 and the ACO-1 was received on April 28, 2021 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Raney Oil Company, LLC

**31/33S/6E Cowley, KS**

4665 Bauer Brook Court  
Lawrence, KS 66049-9013

**House #1A**

Job Ticket: 66621

**DST#: 1**

ATTN: Tom Raney/Roger Mart

Test Start: 2020.12.15 @ 05:29:00

## GENERAL INFORMATION:

Formation: **Upper Layton Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:12:20

Time Test Ended: 12:33:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

**Interval: 2130.00 ft (KB) To 2152.00 ft (KB) (TVD)**

Reference Elevations: 1158.00 ft (KB)

Total Depth: 2152.00 ft (KB) (TVD)

1150.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 83.39 psig @ 2131.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.12.15

End Date: 2020.12.15

Last Calib.: 1899.12.30

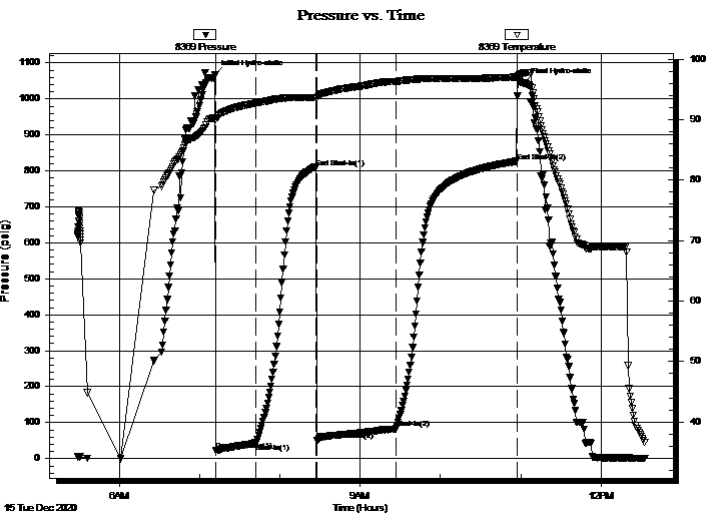
Start Time: 05:29:01

End Time: 12:33:00

Time On Btm: 2020.12.15 @ 07:11:40

Time Off Btm: 2020.12.15 @ 11:02:09

**TEST COMMENT:** IF - Weak blow building to strong blow 12 minutes into initial flow period. Continuing to build to 37 inches.  
FF - Weak blow building to 10 inches of water in 2 minutes then dying to 5 inches. At 20 minutes started building again. Continued to build to 8 inches of water at end of final flow period.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1067.31	90.32	Initial Hydro-static
1	22.51	90.04	Open To Flow (1)
31	43.61	92.73	Shut-In(1)
75	810.05	93.63	End Shut-In(1)
76	49.77	93.52	Open To Flow (2)
136	83.39	96.31	Shut-In(2)
226	826.57	97.03	End Shut-In(2)
231	1044.10	97.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 8%G 70%O 22%M	0.30
60.00	GOCM 37%G 28%O 35%M	0.30
45.00	GOCM 11%G 15%O 74%M	0.22
350.00	GIP 100%G	4.77
0.00	TS GO 45%G & 55% O	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

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**FLUID SUMMARY**

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**31/33S/6E Cowley, KS**

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Lawrence, KS 66049-9013

**House #1A**

Job Ticket: 66621

**DST#: 1**

ATTN: Tom Raney/Roger Mart

Test Start: 2020.12.15 @ 05:29:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GMCO 8%G 70%O 22%M	0.295
60.00	GOCM 37%G 28%O 35%M	0.295
45.00	GOCM 11%G 15%O 74%M	0.221
350.00	GIP 100%G	4.773
0.00	TS GO 45%G & 55% O	0.000

Total Length: 515.00 ft

Total Volume: 5.584 bbl

Num Fluid Samples: 0

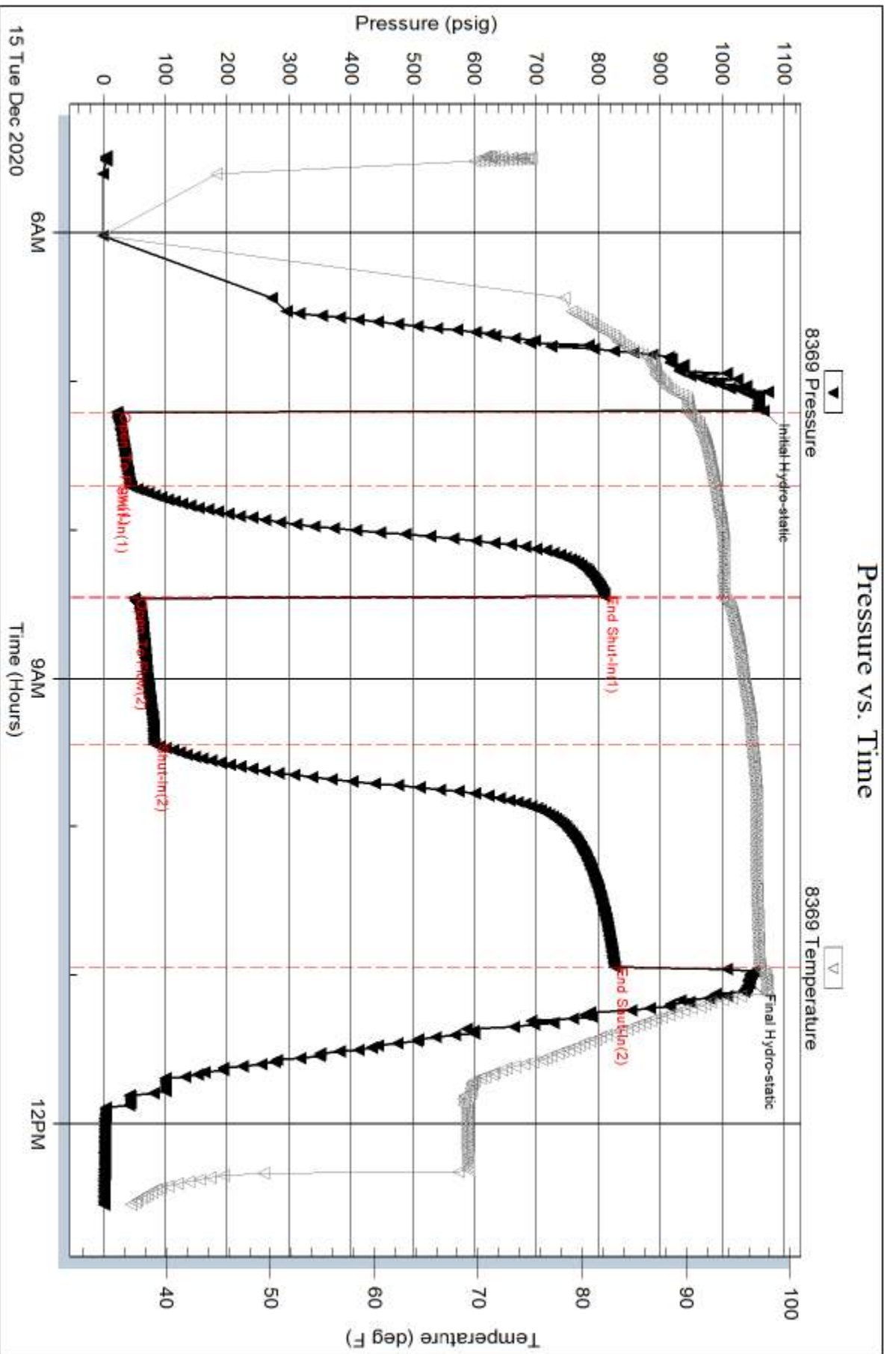
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



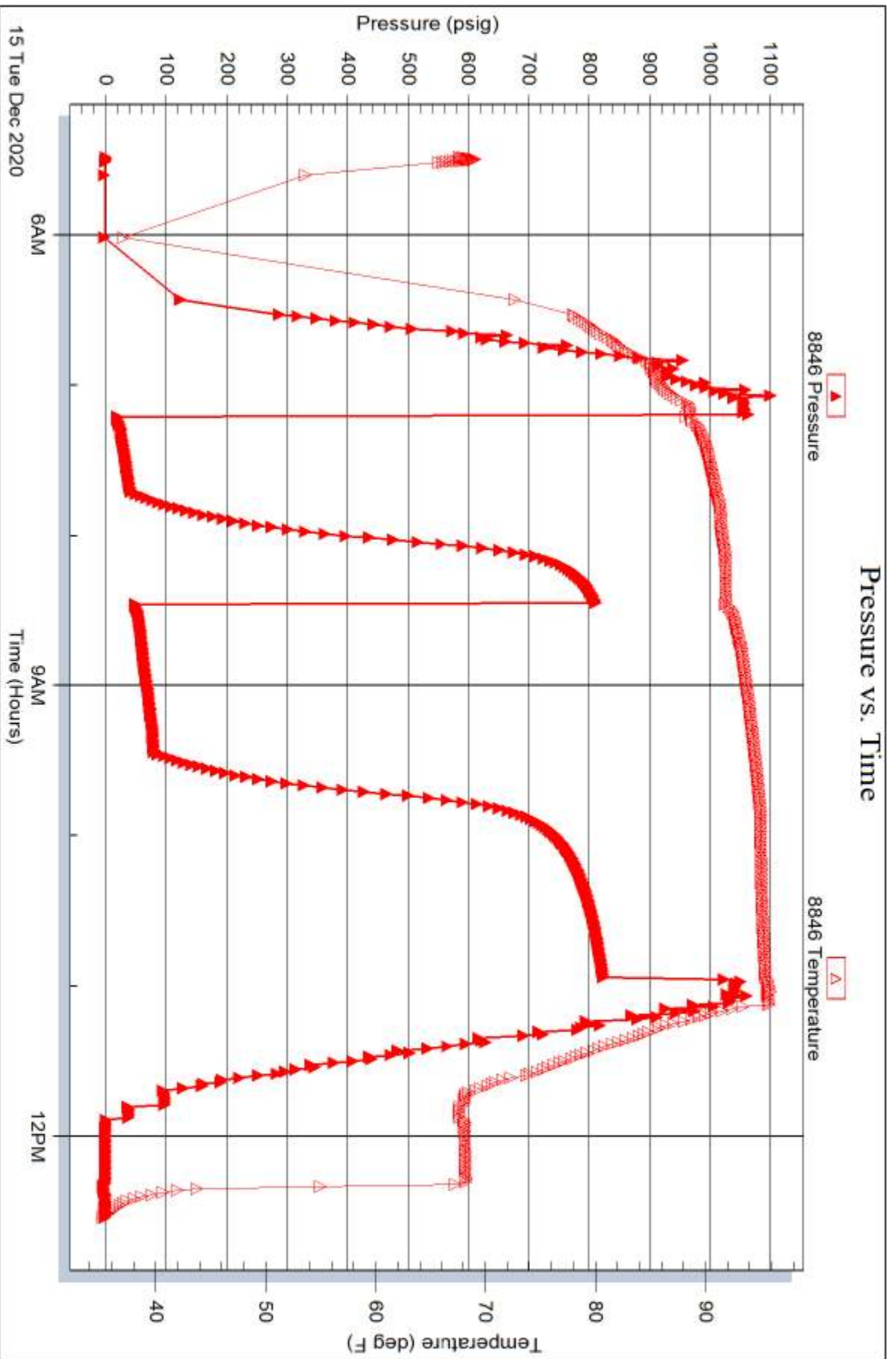
Serial #: 8846

Inside

Raney Oil Company, LLC

House #1A

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 66621

Printed: 2020.12.15 @ 13:40:21

ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

Table with 2 columns: COMPANY, LEASE, FIELD, LOCATION, SECTION, COUNTY and ELEVATIONS, Measurements Are All, API #. Includes RA ENERGY, LLC / RANEY OIL COMPANY, LLC; HOUSE 1A; CABIN VALLEY; 1990' FSL & 330' FEL; 31 TOWNSHIP 33S RANGE 06E; COWLEY STATE KANSAS.

Table with 2 columns: CONTRACTOR, SPUD, RTD and CASING, SURFACE, PRODUCTION. Includes DUKE DRILLING, RIG #2; 12/11/2020, 12/20/2020; 3399' (-2241); 8.58" wt @ 247' KB @ 2000-465; 2 1/2" x 5 1/2" wt @ 3399'.

Table with 4 columns: FORMATION TOPS, LOG, SAMPLES, CHRONOLOGY. Lists geological formations like TATAN, STALNAKER SD, LANSING/LAYTON ZONE, etc., with corresponding log and sample numbers.

REMARKS: PRODUCTION CASING: 1 1/2" casing set @ 3399' RB. Rig up to 5 1/2" casing, break circulation at 5 1/2" from water. ...

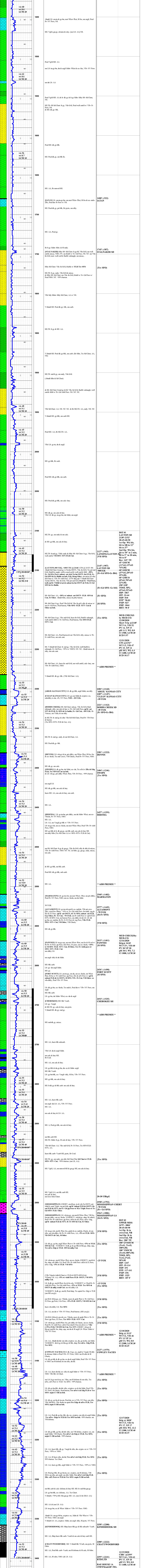


Table with 2 columns: SAMPLE DESCRIPTION, REMARKS. Contains detailed notes for each sample, including lithology, grain size, and specific observations.



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TESTING, INC**

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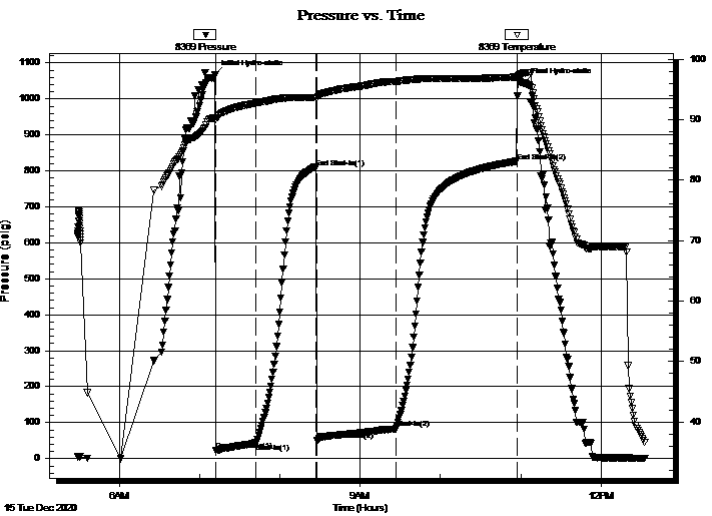
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	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)





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**FLUID SUMMARY**

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**31/33S/6E Cowley, KS**

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Lawrence, KS 66049-9013

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Job Ticket: 66621

**DST#: 1**

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Viscosity: 52.00 sec/qt

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Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

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Filter Cake: inches

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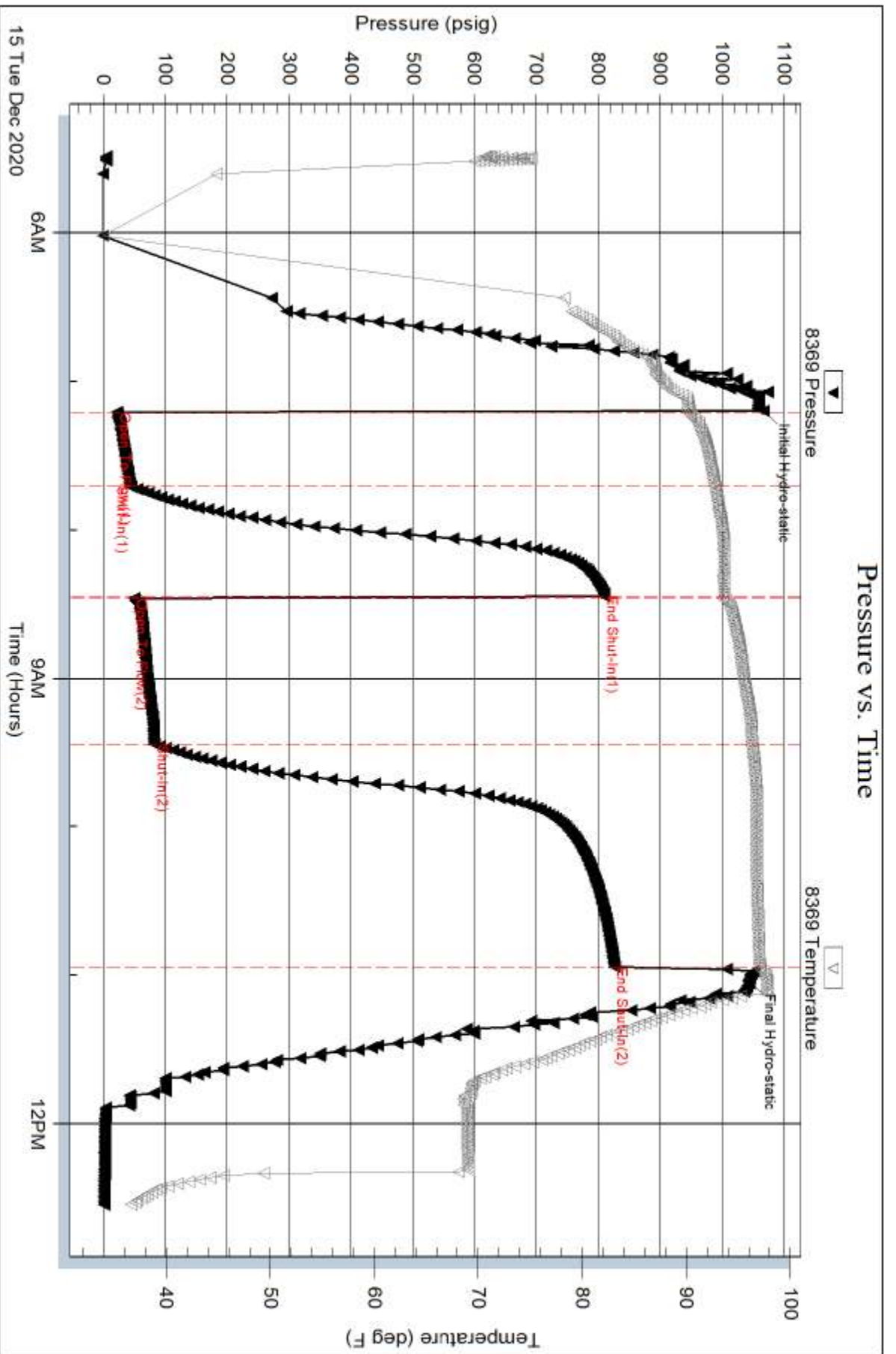
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





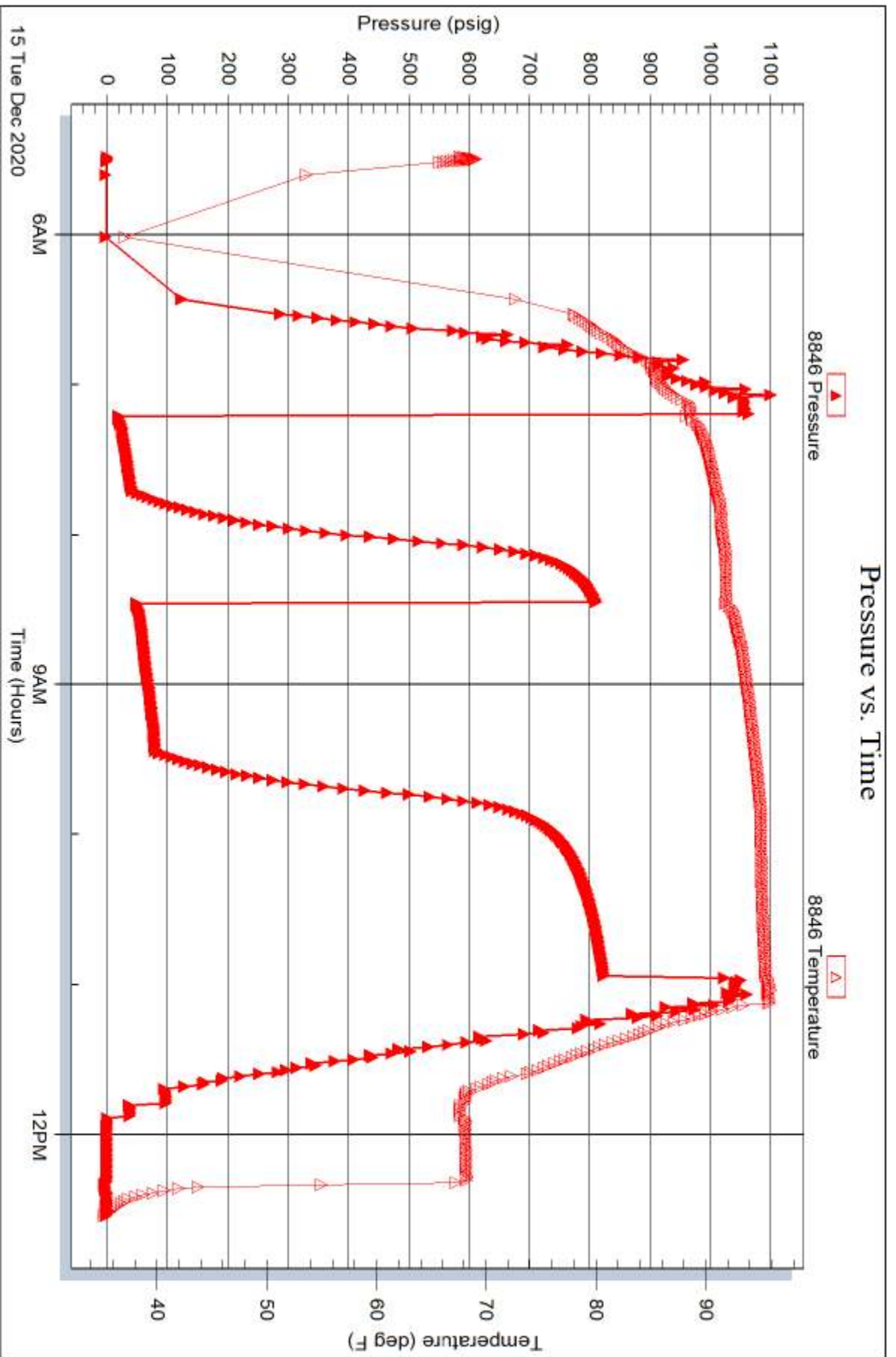
Serial #: 8846

Inside

Raney Oil Company, LLC

House #1A

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 66621

Printed: 2020.12.15 @ 13:40:21



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Raney Oil Company, LLC

**31/33S/6E Cowley, KS**

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

**House #1A**

Job Ticket: 66622

**DST#: 2**

Test Start: 2020.12.17 @ 22:47:00

## GENERAL INFORMATION:

Formation: **Upper Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:17:20

Time Test Ended: 06:14:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

**Interval: 2679.00 ft (KB) To 3084.00 ft (KB) (TVD)**

Reference Elevations: 1158.00 ft (KB)

Total Depth: 3084.00 ft (KB) (TVD)

1150.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 161.44 psig @ 2680.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.12.17 End Date: 2020.12.18

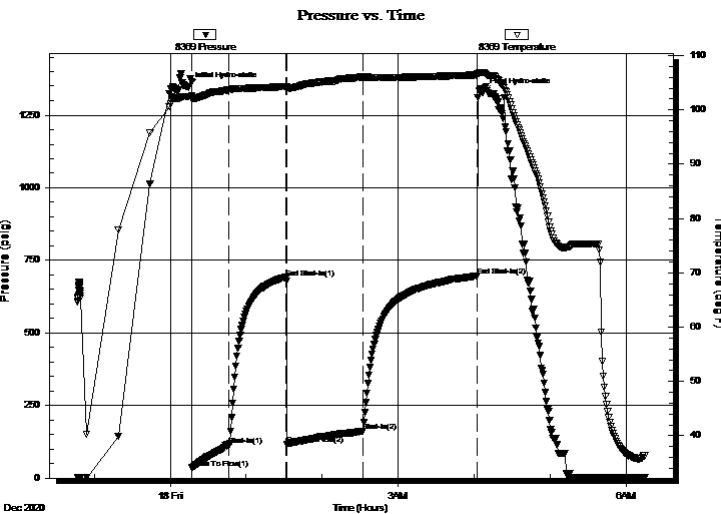
Last Calib.: 1899.12.30

Start Time: 22:47:01 End Time: 06:14:50

Time On Btm: 2020.12.18 @ 00:14:50

Time Off Btm: 2020.12.18 @ 04:06:50

**TEST COMMENT:** IF - Leak in swivel head causing no blow.  
FF - Leak in swivel head causing no blow.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1346.58	102.48	Initial Hydro-static
3	35.49	102.01	Open To Flow (1)
32	114.19	103.71	Shut-In(1)
77	691.12	104.29	End Shut-In(1)
78	116.60	104.02	Open To Flow (2)
137	161.44	106.00	Shut-In(2)
228	696.30	106.42	End Shut-In(2)
232	1328.61	106.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	GVSOSM TrG TrO & 100%M	0.89
100.00	VSOSM TrO & 100%M	1.40
0.00	TS GVSOCM TrG 2%O & 98%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, LLC

**31/33S/6E Cowley, KS**

4665 Bauer Brook Court  
Lawrence, KS  
66049-9013

**House #1A**

Job Ticket: 66622

**DST#: 2**

ATTN: Tom Raney/Roger Mart

Test Start: 2020.12.17 @ 22:47:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.20 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 1300.00 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
180.00	GVSOSM TrG TrO & 100%M	0.885
100.00	VSOSM TrO & 100%M	1.403
0.00	TS GVSOCM TrG 2%O & 98%M	0.000

Total Length: 280.00 ft      Total Volume: 2.288 bbl

Num Fluid Samples: 0

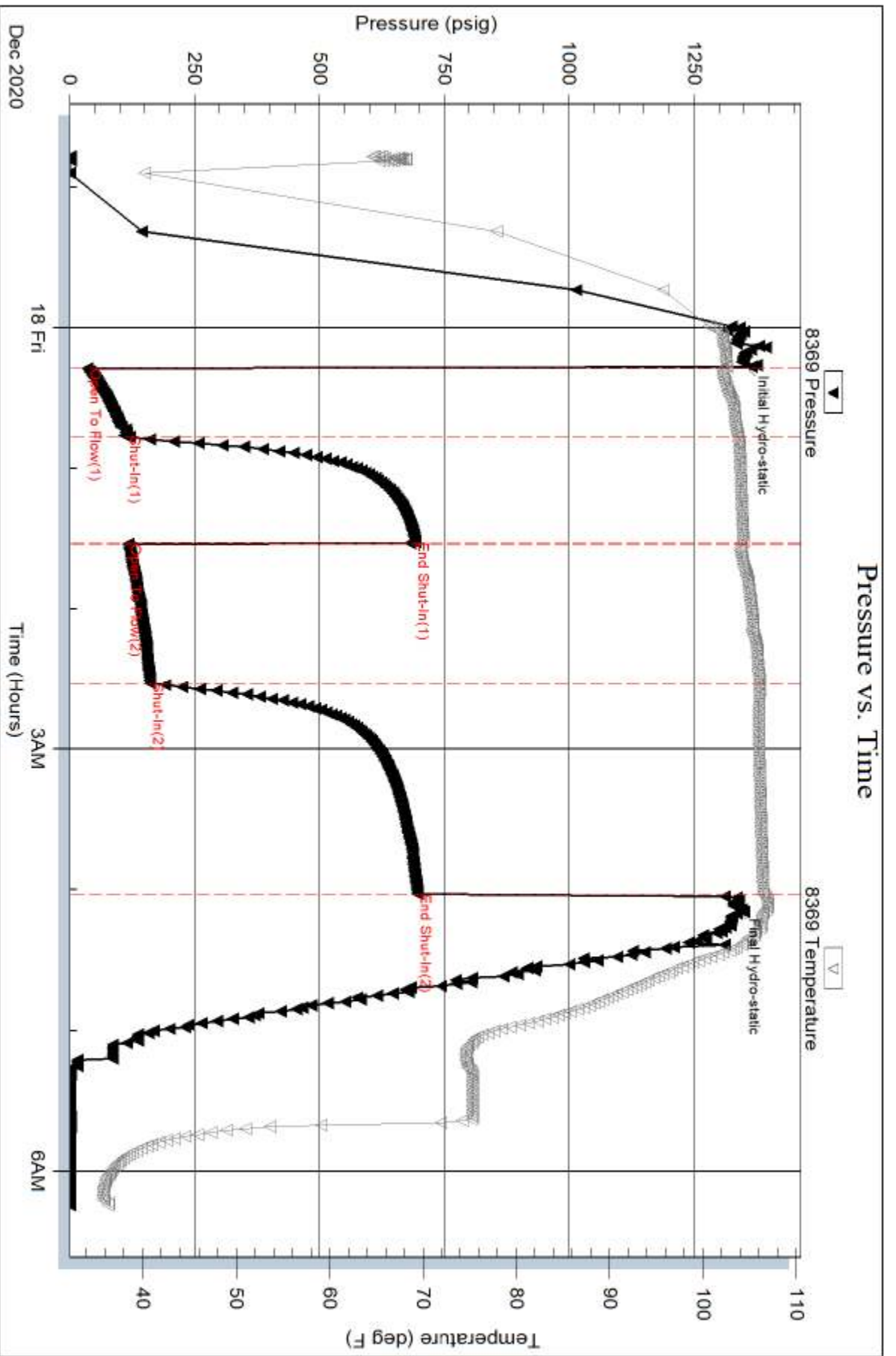
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



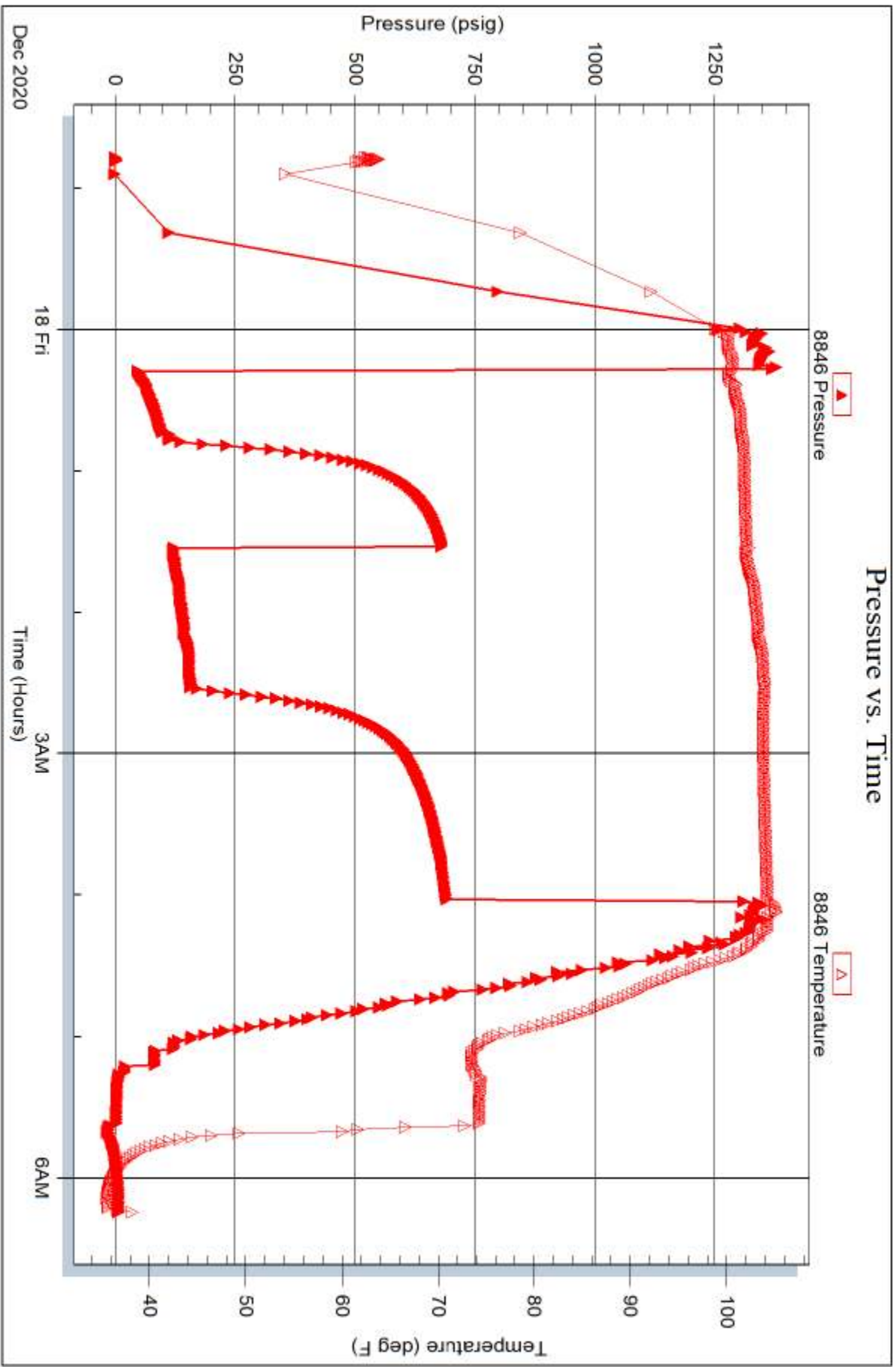
Serial #: 8846

Inside

Raney Oil Company, LLC

House #1A

DST Test Number: 2





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Raney Oil Company, LLC

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**House #1A**

Job Ticket: 66622

**DST#: 2**

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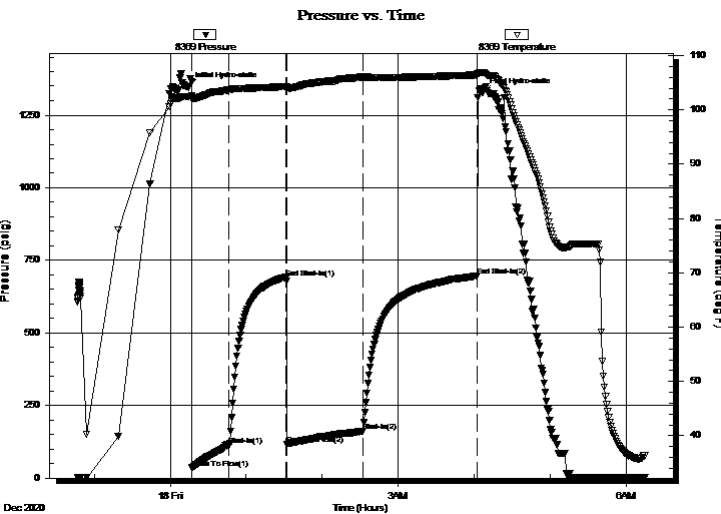
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## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Raney Oil Company, LLC

**31/33S/6E Cowley, KS**

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**Serial #: 8846**

**Inside**

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Capacity: 8000.00 psig

Start Date: 2020.12.17

End Date: 2020.12.18

Last Calib.: 1899.12.30

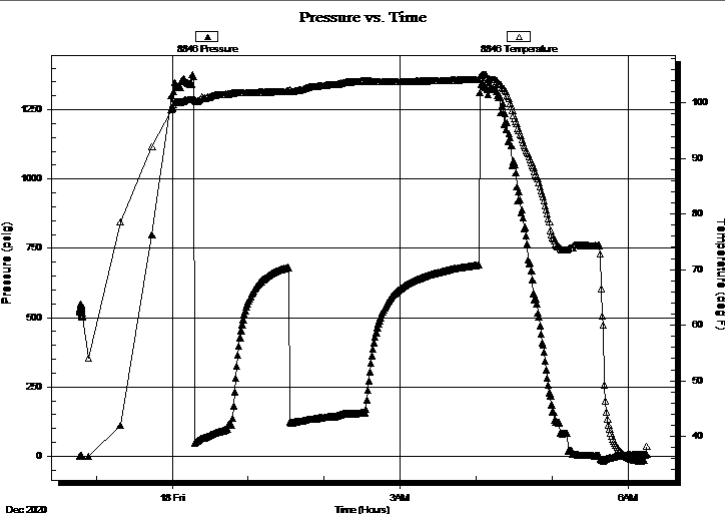
Start Time: 22:47:01

End Time: 06:14:40

Time On Btm:

Time Off Btm:

TEST COMMENT: IF - Leak in swivel head causing no blow.  
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## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raney Oil Company, LLC

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4665 Bauer Brook Court  
Lawrence, KS  
66049-9013

**House #1A**

Job Ticket: 66622

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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
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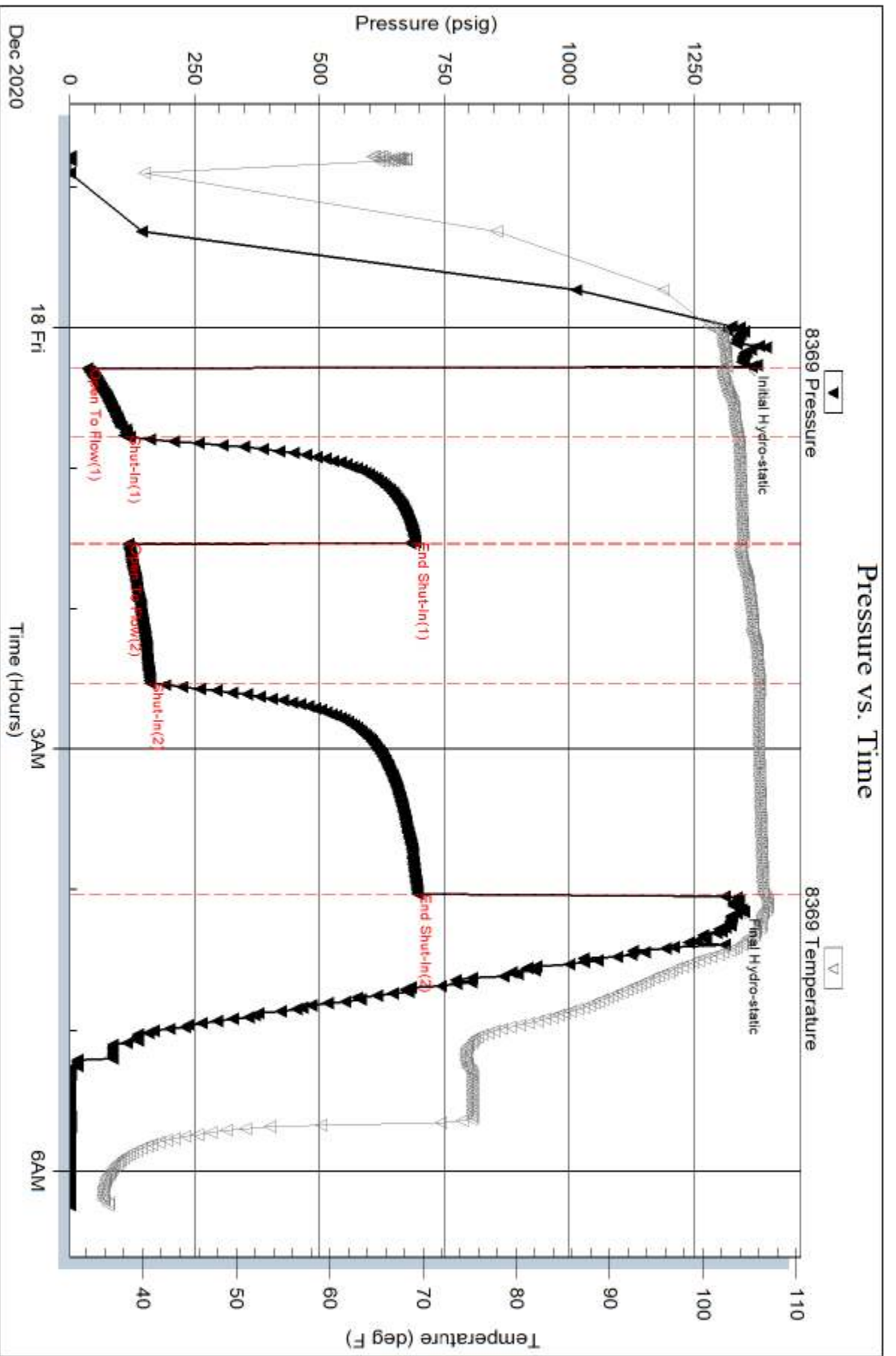
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8846

Inside

Raney Oil Company, LLC

House #1A

DST Test Number: 2

