KOLAR Document ID: 1591483

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 # 32705
Name: Raney Oil Company, LLC
Address 1: 4665 BAUER BROOK CT.
Address 2:
City: LAWRENCE State: KS Zip: 66049 + 9013
Contact Person: Thomas Raney
Phone: (785) 749-0672
CONTRACTOR: License # 32701
Name: C & G Drilling, Inc.
Wellsite Geologist: Roger Martin
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 #:

07/12/2021	07/19/2021	08/05/2021
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-035-24740-00-00
Spot Description:
NE - NW - SE - NE Sec. 31 Twp. 33 S. R. 6 ☑ East ☐ West
1410 Feet from ☑ North / ☐ South Line of Section
725 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Cowley
Lease Name: HOUSE Well #: 1C
Field Name:
Producing Formation: Mississippi
Elevation: Ground: 1172 Kelly Bushing: 1181
Total Vertical Depth: 3246 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 332 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: 5000 ppm Fluid volume: 500 bbls
Dewatering method used: Evaporated
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: 09/20/2021
☐ **Confidential Release Date:** 09/20/2023
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 09/20/2021

Operator Name: Raney Oil Company, LLC Lease Name: HOUSE Well #: 1C

Sec. 31 Twp. 33 S. R. 6 ☑ East ☐ West County: Cowley

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:

Micro
DIL
Sonic

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Heeb	1409	-228
Stal	1769	-588
LKC	2345	-959
Miss	2974	-1793
RTD	3246	-2065

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	25	332	Class A	200	3%cal2%Gel
Production	7.875	5.5	17	3244	Thick set	250	6%Gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

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: 08/17/2021	Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
		Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	2974	3002

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
2	2974	3002			

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Raney Oil Company, LLC
Well Name	HOUSE 1C
Doc ID	1591483

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	25	332	Class A	200	3%cal2% Gel
Production	7.875	5.5	17	3244	Thick set	250	6%Gel

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

ELITE
CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. **5748**
Foreman Steve Mead
Camp Eureka

API # 15-035-24740

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
7-13-21	1375	House 1C	31	33	6	Cowley	KS

Customer: RA Energy LLC
Mailing Address: 11615 Rosewood St, Suite 100
City: Leawood | State: KS | Zip Code: 66211
Safety Meeting

Unit #	Driver	Unit #	Driver
104	Alan		
114	Shannon		

Job Type Surface | Hole Depth 348' | Slurry Vol. 49 3/4 bbls | Tubing
Casing Depth 332' GL | Hole Size 12 1/4 | Slurry Wt. | Drill Pipe
Casing Size & Wt. 8 5/8 23# | Cement Left in Casing 21' | Water Gal/SK | Other
Displacement 21 bbl | Displacement PSI | Bump Plug to | BPM

Remarks: Safty Meeting. Rig up To 8 5/8 casing. Break Circulation w/ 10 bbls Fresh water Mix 200 sks Class A Cement w/ 3% CaCl2, 2% Gel, 1/4 # Flo Seal Displace w/ 21 bbls Freshwater. Shut down. Close casing in. Good Cement To Surface. 15 bbl Slurry To Pit. Job Complete Rig down

Thank you

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	17.35	3470.00
C205	565 #	CaCl2 3%	.69	389.85
C206	375 #	Gel 2%	.28	105.00
C209	50 #	Flosal 1/4 # per/sk	2.60	130.00
C108B	9.4 Tons	Ton Mileage: Bulk Truck	1.40	789.60
			SubTotal	6026.45
			5%	(314.63)
			Sales Tax	266.16
			Total	5977.98

Authorization witnessed by Judd Gulick Title C&G Drilling Tool Pusher.

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 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE
CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. **5684**
Foreman Kevin McCoy
Camp Eureka

API # 15-035-24740

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
7-19-21	1375	House 1 C	31	33S	6E	Cowley	KS

Customer: R A Energy, LLC
Mailing Address: 11615 Rosewood ST. Ste 100
City: Leawood | State: KS | Zip Code: 66211

Safety Meeting: KM AB BW SF

Unit #	Driver	Unit #	Driver
104	Allen B.		
112	Shannon F.		
113	Broker W.		

Job Type Longstring
Casing Depth 3244.20'
Casing Size & Wt. 5½" 17#
Displacement 76.2 BBL
Hole Depth 3248 K.B.
Hole Size 7⅞
Cement Left in Casing SJ 36.71
Displacement PSI 1200
Slurry Vol. 21 BBL Lead 47 BBL TAIL
Slurry Wt. 13.3# - 13.8#
Water Gal/SK
Bump Plug to 1800 PSI
Tubing
Drill Pipe
Other
BPM

Remarks: Safety Meeting: 5½" 17# Casing Set @ 3244.20'. Circulate w/ Mud Pump for 1 Hr to bring down Viscosity of Mud. Rig up to 5½ Casing. Break Circulation w/ 8 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 @ 13.8#/gal, ~~13.8~~ 1/3% CFL-115, yield 1.75 = 47 BBL Slurry. Wash out Pump & Lines. Shut down, Release Latch down Plug. Displace Plug to Seat w/ 76.2 BBL fresh water. (KCL in First 40 BBL) Final Pumping Pressure 1200 PSI. Bump Plug to 1800 PSI. Wait 2 mins. Release Pressure. Float & Plug Held. Good Circulation @ All times while Cementing. Job Complete. Rig down.

Plug RAT Hole & M.H.
Centralizers on # 2, 4, 6, 13, 15, 21, 24, 30 Baskets on Top of # 3, 7, 26

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 (75 sks Lead Cement)	14.75	1475.00
C 206	515#	Gel 6% (75 sks Lead Cement)	.28#	144.20
C 208	200#	PhenoSeal 2#/SK (75 sks Lead Cement)	1.45#	290.00
C 201	150 SKS	Thick Set Cement (Tail Cement)	22.55	3382.50
C 207	750#	Kol-Seal 5#/SK (Tail Cement)	.52#	390.00
C 208	150#	PhenoSeal 1#/SK (Tail Cement)	1.45#	217.50
C 211	50#	CFL-115 1/3% (Tail Cement)	12.10#	605.00
C 691	1	5½ Guide Shoe	193.00	193.00
C 674	1	5½ AFU Float Collar w/ Latch down insert	395.00	395.00
C 604	3	5½ Cement Baskets	260.00	780.00
C 504	8	5½ x 7⅞ Centralizers	55.00	440.00
C 421	1	5½ Latch down Plug	266.00	266.00
C 108 B	12.55 TONS	Ton Mileage 60 miles	1.40	1054.20
C 222	2½ gals	KCL (in First 40 BBL Displacement water)	30.00	75.00
C 781	1	5½ Stop Ring	35.00	35.00
		THANK You	Sub Total	11,094.40
			Less 5%	582.96
		6.5%	Sales Tax	564.73
			Total	11,076.17

Authorization Roger Martin Title Geologist

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.

ROGER L. MARTIN

INDEPENDENT PETROLEUM EXPLORER 316-296-6578

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY	RANGNES, LLC/ RANEY OIL COMPANY, LLC
LEASE	HOUSE 1C
FIELD	CARPENTER'S
LOCATION	1650' FNL& 720' FEL
SECTION	35 TOWNSHIP 33S RANGE 10E
COUNTY	COWLEY KANSAS

CONTRACTOR	CIRCLE DRILLING, Rig #2
SPUD	07/12/2021 COMP 07/19/2021
RTD	TOP 1 (MCT) 3150 LOG 1 (Miss)
ELECTRICAL SURVEYS	
ELI WL-ONCOR WL, DIGITAL	

ELEVATIONS	
KB	1102' GL 1072'
Measurements Are All from	KB
API #	15-035-24760-00-00

CASING	
SURFACE	8 5/8" set at 245' ST
PRODUCTION	5 1/2 set at 3141' TPSA perforated
	2 3/8 tbg anchor at 3100' tbg bottom

FORMATION TOPS	LOG	SAMPLES
HEEBNER	1687 (-585)	1687 (-585)
LANSING	1727 (-625)	1727 (-625)
KANSAS CITY	2148 (-1046)	2148 (-1046)
BASE KANSAS CITY	2540 (-1438)	2540 (-1438)
MARMATON	2587 (-1485)	2587 (-1485)
PAWNEE	2687 (-1585)	2687 (-1585)
FORT SCOTT	2717 (-1615)	2717 (-1615)
CHEROKEE SHALE OIL SAND	2739 (-1637)	2739 (-1637)
MISSISSIPPIAN	2802 (-1700)	2802 (-1700)
MISSISSIPPIAN LIME	2812 (-1710)	2812 (-1710)
CHERT	2822 (-1720)	2822 (-1720)
MISSISSIPPIAN DOLO	2862 (-1760)	2862 (-1760)
KINDERHOOK	2882 (-1780)	2882 (-1780)
WOODFORD	2947 (-1845)	2947 (-1845)

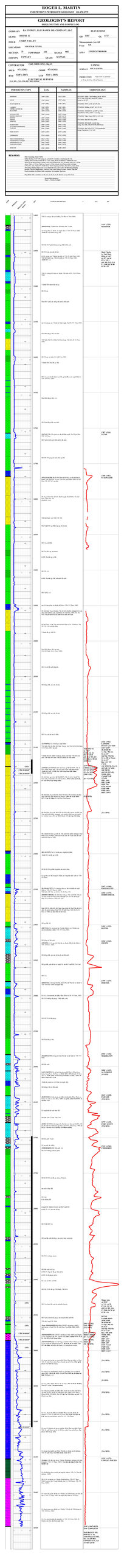
CHRONOLOGY
07/12/2021 - MIRT 8:00 Drilling Rig #2 @ 245'
07/13/2021 - Drilling @ 1,000' 07:00
07/14/2021 - Drilling @ 2,000' 07:00
07/15/2021 - TOH @ 2,415' 12:00 AM
07/16/2021 - Drilling @ 2,415' 07:00
07/17/2021 - Drilling @ 2,900' 07:00
07/18/2021 - Drilling @ 3,150' 07:00
07/19/2021 - Short trip @ 3,150' to 2,415' 08:00
07/20/2021 - Run 5 1/2" to 3,141'

REMARKS

Mud Company: Chemal Fluids
Drilling Mud: Chemal Fluids used as CHEMGEL for initial mud up. Use
Drilling Mud Type: Chemal Fluids CHEMGEL, CHEMPAC, CHEMSEAL, CHE
Mud: Chemal Fluids Mud Engineer: Jeff Kellerman 620-794-0077 Office
Mud Up Depth: 2,415' Type Mud: Chemal Fluids CHEMGEL, CHEMPAC, CHE
Surface Casing: 8 5/8" set at 245' ST Cement: 150 sks Class A 3% CC 2% Gel
Production Casing: 5 1/2 set at 3141' TPSA perforated 2 3/8 tbg anchor at 3100' tbg bottom
Comments: all drilled with centering mud. No corrosion. Slug Pipe.

Plug Down: 07/19/2021 @ 12:00 AM Ran 5 1/2 to 3141' Ran 96 JTS. 5 1/2

Thank You For Using Geologist's Report
Roger L. Martin Geologist



DRILL STEM TEST REPORT

Raney Oil Company, LLC

4665 Bauer Brook Court
Lawrence, KS 66049-9013

ATTN: Thomas Raney/Roger M

31-33S-6E Cowley,KS

House #1C

Job Ticket: 66747 **DST#: 1**

Test Start: 2021.07.15 @ 01:43:00

GENERAL INFORMATION:

Formation: **Upper Layton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:36:00
Time Test Ended: 09:25:39

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2167.00 ft (KB) To 2187.00 ft (KB) (TVD)
Total Depth: 2187.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

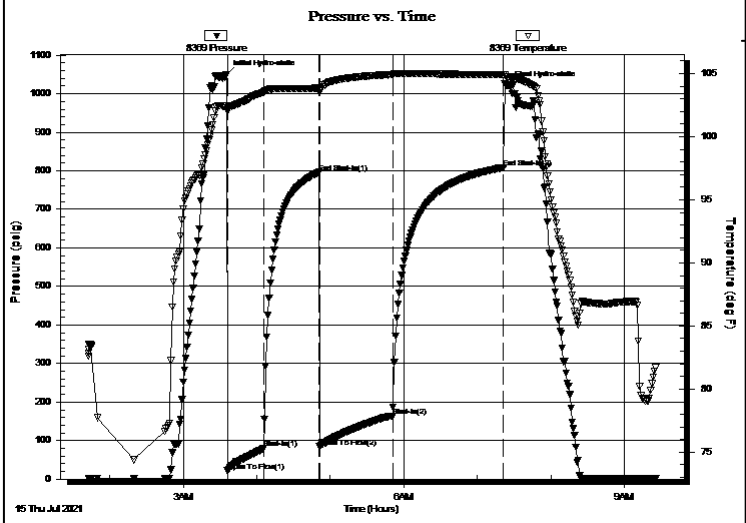
Reference Elevations: 1181.00 ft (KB)
1172.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8369 **Outside**

Press@RunDepth: 163.74 psig @ 2168.00 ft (KB)
Start Date: 2021.07.15 End Date: 2021.07.15
Start Time: 01:43:01 End Time: 09:25:40

Capacity: 8000.00 psig
Last Calib.: 2021.07.15
Time On Btm: 2021.07.15 @ 03:35:20
Time Off Btm: 2021.07.15 @ 07:24:50

TEST COMMENT: IF - Weak blow building to 10 inches of water during initial flow period.
FF - Weak blow building to strong blow 55 minutes into final flow period. Continuing to build to 13 inches of water.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1049.64	102.43	Initial Hydro-static
1	21.72	102.01	Open To Flow (1)
31	79.58	103.52	Shut-In(1)
76	796.06	103.85	End Shut-In(1)
76	84.01	103.52	Open To Flow (2)
136	163.74	104.94	Shut-In(2)
226	808.49	104.90	End Shut-In(2)
230	1021.02	104.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCW 80%W & 20%M	0.89
130.00	Tr Oil HWCM TrO 49%W & 51%M	0.68
1.00	Clean Oil 100%O	0.01
0.00	TS OSMCW 1%O 87%W & 12%M	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Raney Oil Company, LLC

4665 Bauer Brook Court
Lawrence, KS 66049-9013

ATTN: Thomas Raney/Roger M

31-33S-6E Cowley,KS

House #1C

Job Ticket: 66747 **DST#: 1**

Test Start: 2021.07.15 @ 01:43:00

GENERAL INFORMATION:

Formation: **Upper Layton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:36:00
Time Test Ended: 09:25:39

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2167.00 ft (KB) To 2187.00 ft (KB) (TVD)
Total Depth: 2187.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1181.00 ft (KB)
1172.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8846 **Inside**
Press@RunDepth: psig @ 2168.00 ft (KB)
Start Date: 2021.07.15 End Date: 2021.07.15
Start Time: 01:43:01 End Time: 09:25:50

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow building to 10 inches of water during initial flow period.
FF - Weak blow building to strong blow 55 minutes into final flow period. Continuing to build to 13 inches of water.

PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCW 80%W & 20%M	0.89
130.00	Tr Oil HWCM TrO 49%W & 51%M	0.68
1.00	Clean Oil 100%O	0.01
0.00	TS OSMCW 1%O 87%W & 12%M	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Raney Oil Company, LLC

4665 Bauer Brook Court
Lawrence, KS 66049-9013

ATTN: Thomas Raney/Roger M

31-33S-6E Cowley,KS

House #1C

Job Ticket: 66747 **DST#: 1**

Test Start: 2021.07.15 @ 01:43:00

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:	44.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	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
180.00	MCW 80%W & 20%M	0.885
130.00	Tr Oil HWCM TrO 49%W & 51%M	0.676
1.00	Clean Oil 100%O	0.014
0.00	TS OSMCW 1%O 87%W & 12%M	0.000

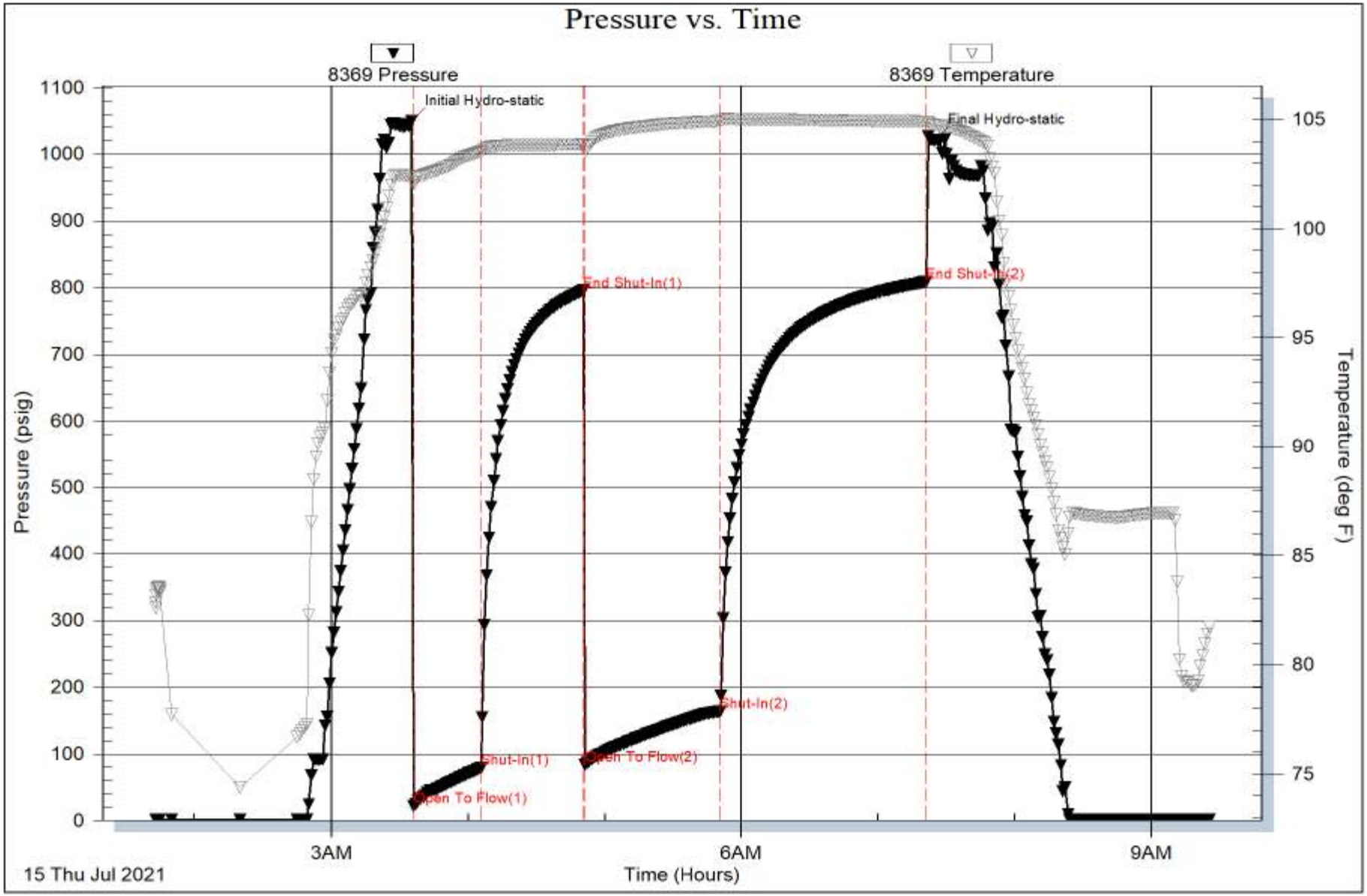
Total Length: 311.00 ft Total Volume: 1.575 bbl

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

Laboratory Name: Laboratory Location:

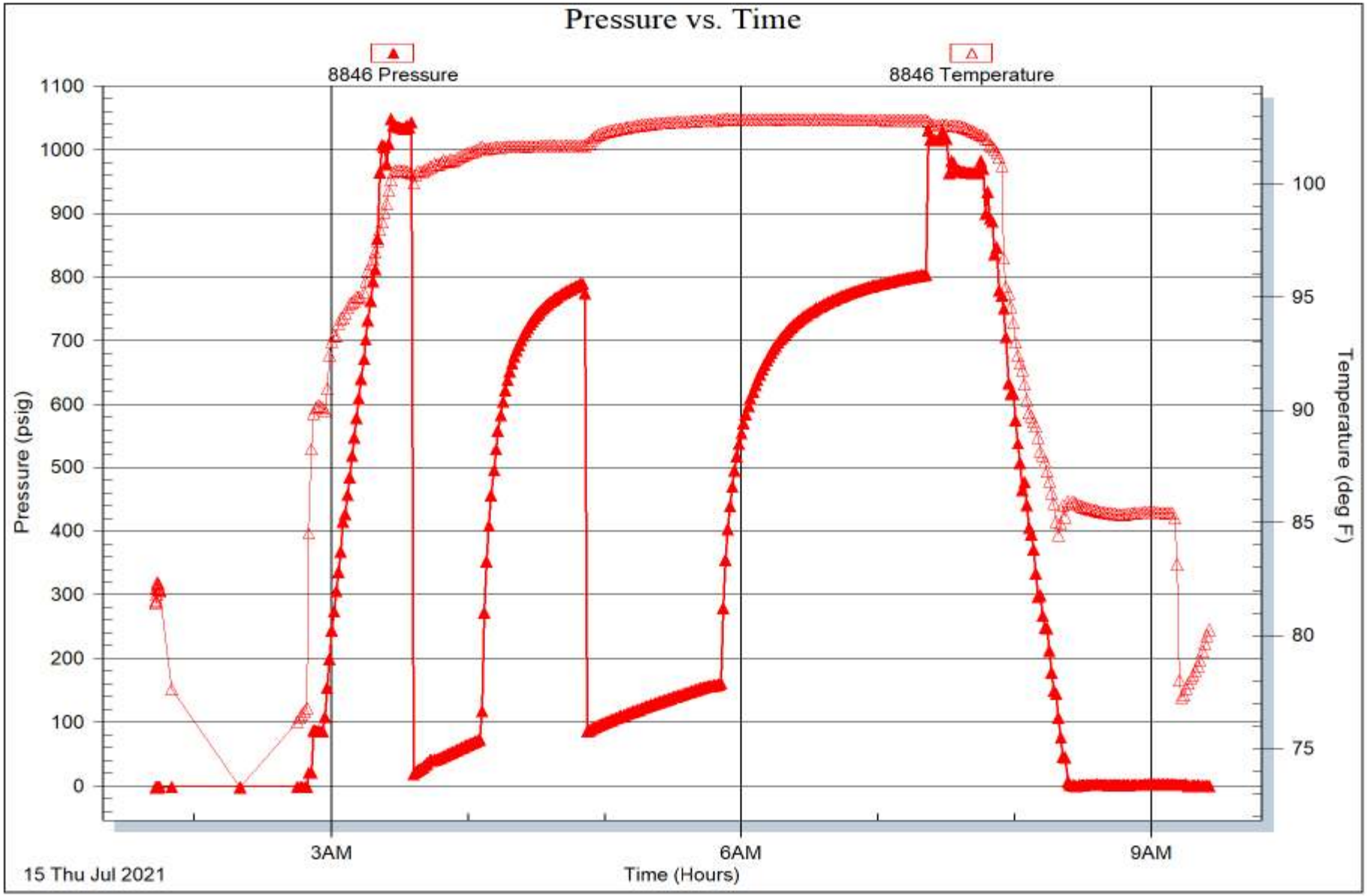
Recovery Comments:

Serial #: 8369 **Outside** Raney Oil Company, LLC House #1C DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66747 Printed: 2021.07.15 @ 10:39:17

Serial #: 8846 **Inside** Raney Oil Company, LLC House #1C DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66747 Printed: 2021.07.15 @ 10:39:17

DRILL STEM TEST REPORT

Raney Oil Company, LLC

4665 Bauer Brook Court
Lawrence, KS
66049-9013
ATTN: Thomas Raney/Roger M

31/33S/6E Cowley, Ks

House #1C

Job Ticket: 66748 **DST#: 2**

Test Start: 2021.07.17 @ 01:33:00

GENERAL INFORMATION:

Formation: **Upper Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:11:10
Time Test Ended: 09:05:50

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2698.00 ft (KB) To 3108.00 ft (KB) (TVD)
Total Depth: 3108.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

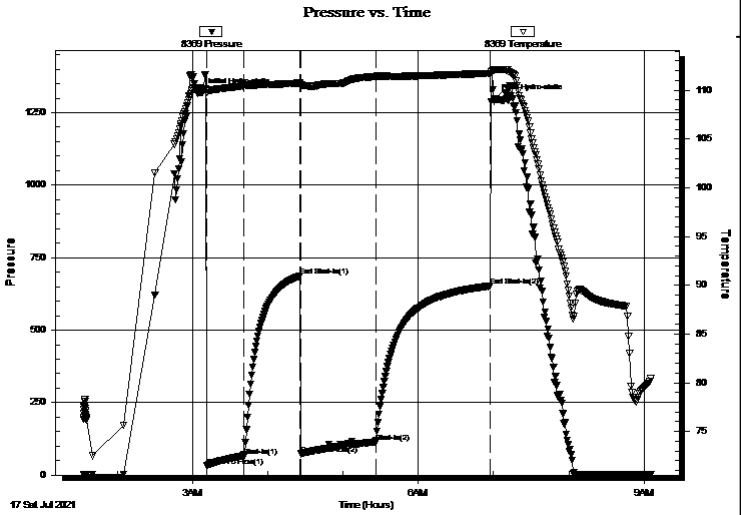
Reference Elevations: 1181.00 ft (KB)
1172.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8369 **Outside**

Press@RunDepth: 115.10 psig @ 2699.00 ft (KB)
Start Date: 2021.07.17 End Date: 2021.07.17
Start Time: 01:33:01 End Time: 09:05:50

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2021.07.17 @ 03:07:10
Time Off Btm: 2021.07.17 @ 07:01:30

TEST COMMENT: IF - Weak blow building to 4 inches of water during initial flow period.
FF - Weak blow building to 1 1/4 inches of water during final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1318.73	110.21	Initial Hydro-static
4	31.90	109.76	Open To Flow (1)
34	66.44	110.45	Shut-In(1)
79	686.87	110.74	End Shut-In(1)
79	73.59	110.49	Open To Flow (2)
139	115.10	111.41	Shut-In(2)
230	652.14	111.73	End Shut-In(2)
235	1296.71	112.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Drilling mud 100% M	0.89
0.00	TS Drilling mud 100% M	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Raney Oil Company, LLC

4665 Bauer Brook Court
Law rence, KS
66049-9013

ATTN: Thomas Raney/Roger M

31/33S/6E Cowley, Ks

House #1C

Job Ticket: 66748 **DST#: 2**

Test Start: 2021.07.17 @ 01:33:00

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:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Drilling mud 100% M	0.885
0.00	TS Drilling mud 100% M	0.000

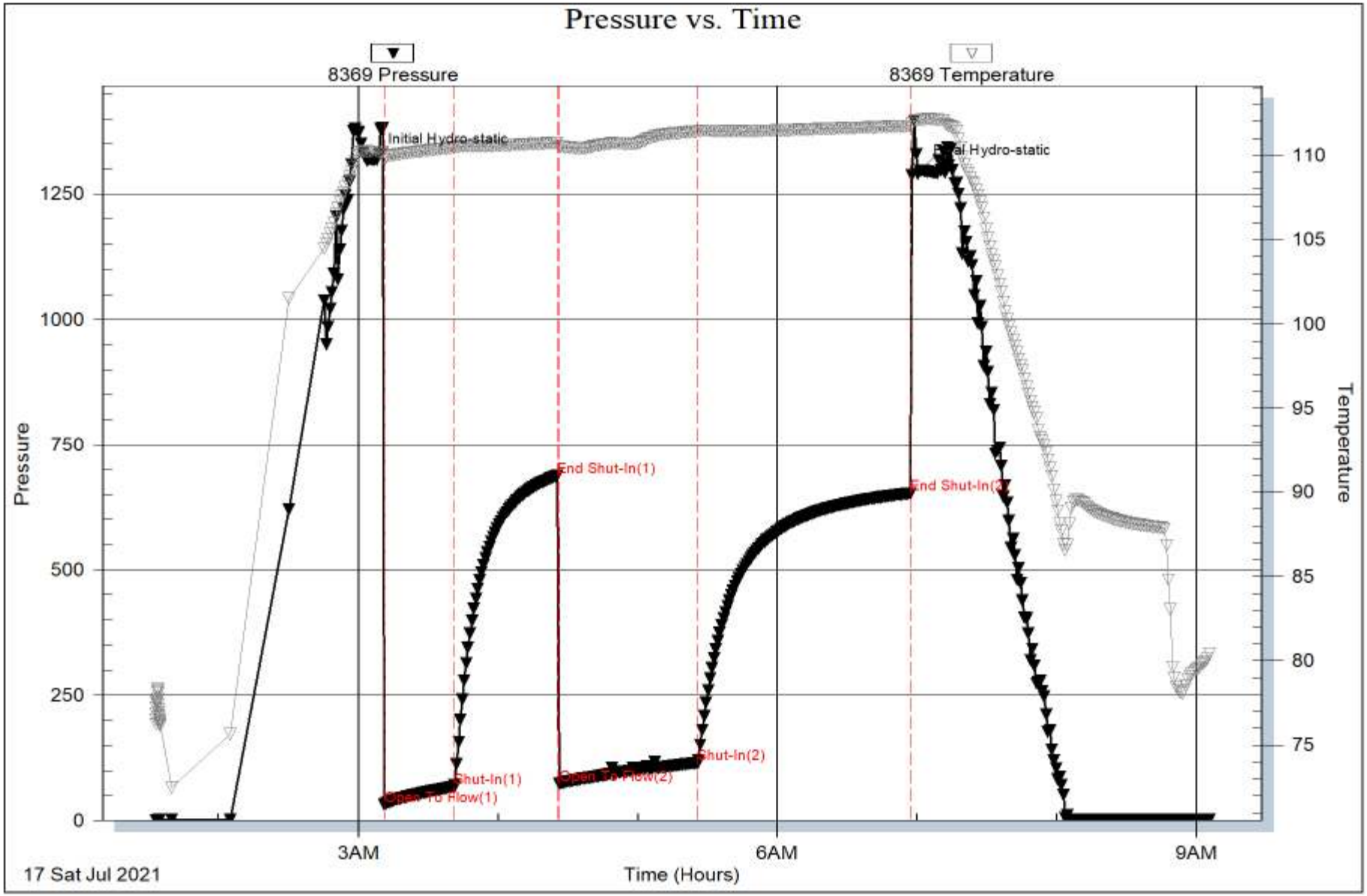
Total Length: 180.00 ft Total Volume: 0.885 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8369 **Outside** Raney Oil Company, LLC House #1C DST Test Number: 2



Trilobite Testing, Inc Ref. No: 66748 Printed: 2021.07.17 @ 10:37:14