KOLAR Document ID: 1605918

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 # 34904
Name: Palmer Oil, Inc.
Address 1: 3118 N. CUMMINGS RD.
Address 2: PO BOX 399
City: GARDEN CITY State: KS Zip: 67846 + 0399
Contact Person: Octavio D Morales
Phone: (620) 275-2963
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Kevin TImson
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 #:

12/03/2021 Spud Date or Recompletion Date
12/12/2021 Date Reached TD
12/13/2021 Completion Date or Recompletion Date

API No.: 15-081-22239-00-00
Spot Description:
SE - NW - SE - SE Sec. 11 Twp. 28 S. R. 34 ☐ East ☑ West
877 Feet from ☐ North / ☑ South Line of Section
768 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: Haskell
Lease Name: RICHARDSON Well #: 11-1
Field Name:
Producing Formation: Dry hol
Elevation: Ground: 3032 Kelly Bushing: 3044
Total Vertical Depth: 5600 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1647 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: 15000 ppm Fluid volume: 300 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:
☐ **Confidential Release Date:**
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Deanna Garrison **Date:** 01/14/2022

Operator Name: Palmer Oil, Inc. Lease Name: RICHARDSON Well #: 11-1

Sec. 11 Twp. 28 S. R. 34 ☐ East ☑ West County: Haskell

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	☐ Log	Formation (Top), Depth and Datum ☐ Sample
Samples Sent to Geological Survey	☐ Yes	☑ No	Name: Attached	Top: Attached Datum: Attached
Cores Taken	☐ Yes	☑ No		
Electric Log Run	☐ Yes	☑ No		
Geologist Report / Mud Logs	☑ Yes	☐ No		
List All E. Logs Run:				

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	8.675	24	1647	Class A	560	1/4 flowsele

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: 12/13/2021	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☑ Other *(Explain)* Dry hole					
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)*	5500	5505

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)*

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	Palmer Oil, Inc.
Well Name	RICHARDSON 11-1
Doc ID	1605918

Tops

Name	Top	Datum
Anhydrite	1867	1176
Base	1946	1097
Herrington	2681	362
Fort Riley	2854	189
Heebner	4088	-1045
Lansing	4174	-1131
Marmaton	4756	-1713
Fort Scott	4905	-1862
Morrow	5295	-2252
St Gen	5566	-2523
RTD	5600	-2557

Form	ACO1 - Well Completion
Operator	Palmer Oil, Inc.
Well Name	RICHARDSON 11-1
Doc ID	1605918

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	8.675	24	1647	Class A	560	1/4 flowsele

DRILL STEM TEST REPORT

Palmer Oil INC

P.O. Box 399
Garden City, KS 67846

ATTN: Kevin Timson

11-23S.-34W. Haskell,KS

Richardson #1-11

Job Ticket: 68369 **DST#: 1**

Test Start: 2021.12.07 @ 21:30:00

GENERAL INFORMATION:

Formation: **Lansing**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:24:30
Time Test Ended: 05:00:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Martine Salinas
Unit No: 81

Interval: 4394.00 ft (KB) To 4440.00 ft (KB) (TVD)
Total Depth: 4440.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

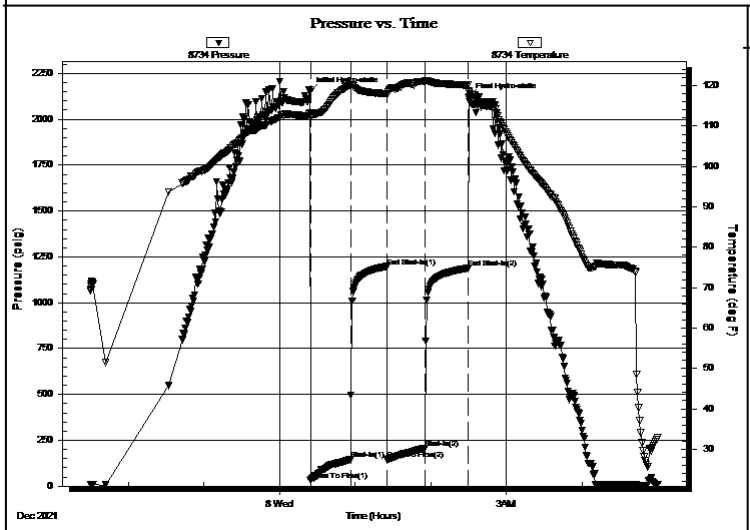
Reference Elevations: 4043.00 ft (KB)
4031.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 206.88 psig @ 4395.00 ft (KB)
Start Date: 2021.12.07 End Date: 2021.12.08
Start Time: 21:30:01 End Time: 05:00:30

Capacity: 8000.00 psig
Last Calib.: 2021.12.08
Time On Btm: 2021.12.08 @ 00:24:20
Time Off Btm: 2021.12.08 @ 02:30:20

TEST COMMENT: 30-IF-Blow built to B.O.B(11 inches) @ 27 mins (increased to 12 1/4")
30-ISI-No return
30-FF-Blow built to 10 1/2"
30-FSINo return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2150.15	113.18	Initial Hydro-static
1	30.25	112.10	Open To Flow (1)
33	144.82	120.18	Shut-In(1)
61	1197.77	118.00	End Shut-In(1)
62	147.08	117.82	Open To Flow (2)
92	206.88	121.10	Shut-In(2)
126	1187.60	120.15	End Shut-In(2)
127	2120.57	118.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
370.00	MCW 14%M, 86%W	3.58

Gas Rates

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

DRILL STEM TEST REPORT

Palmer Oil INC

P.O. Box 399
Garden City, KS 67846

ATTN: Kevin Timson

11-23S.-34W. Haskell,KS

Richardson #1-11

Job Ticket: 68369 **DST#: 1**

Test Start: 2021.12.07 @ 21:30:00

GENERAL INFORMATION:

Formation: **Lansing**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:24:30
Time Test Ended: 05:00:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Martine Salinas
Unit No: 81

Interval: 4394.00 ft (KB) To 4440.00 ft (KB) (TVD)
Total Depth: 4440.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

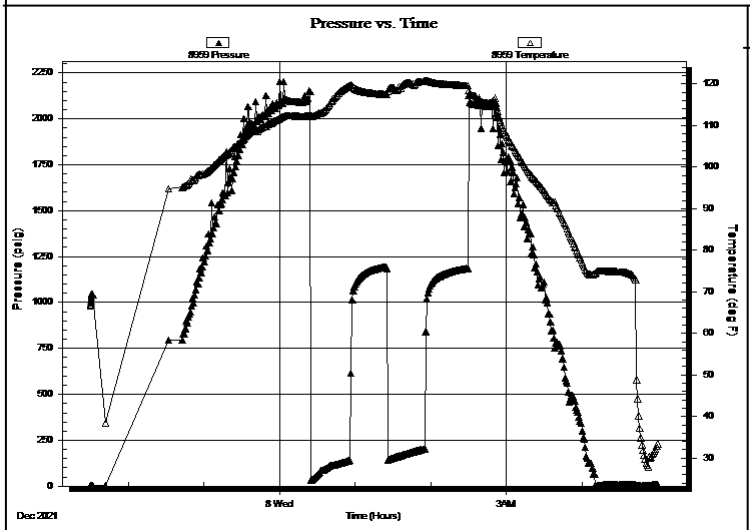
Reference Elevations: 4043.00 ft (KB)
4031.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 4395.00 ft (KB)
Start Date: 2021.12.07 End Date: 2021.12.08
Start Time: 21:30:01 End Time: 05:00:30

Capacity: 8000.00 psig
Last Calib.: 2021.12.08
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Blow built to B.O.B(11 inches) @ 27 mins (increased to 12 1/4")
30-ISI-No return
30-FF-Blow built to 10 1/2"
30-FSINo return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
370.00	MCW 14%M, 86%W	3.58

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Palmer Oil INC

P.O. Box 399
Garden City, KS 67846

ATTN: Kevin Timson

11-23S.-34W. Haskell,KS

Richardson #1-11

Job Ticket: 68369 **DST#: 1**

Test Start: 2021.12.07 @ 21:30:00

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:	13500 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.80 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
370.00	MCW 14%M, 86%W	3.578

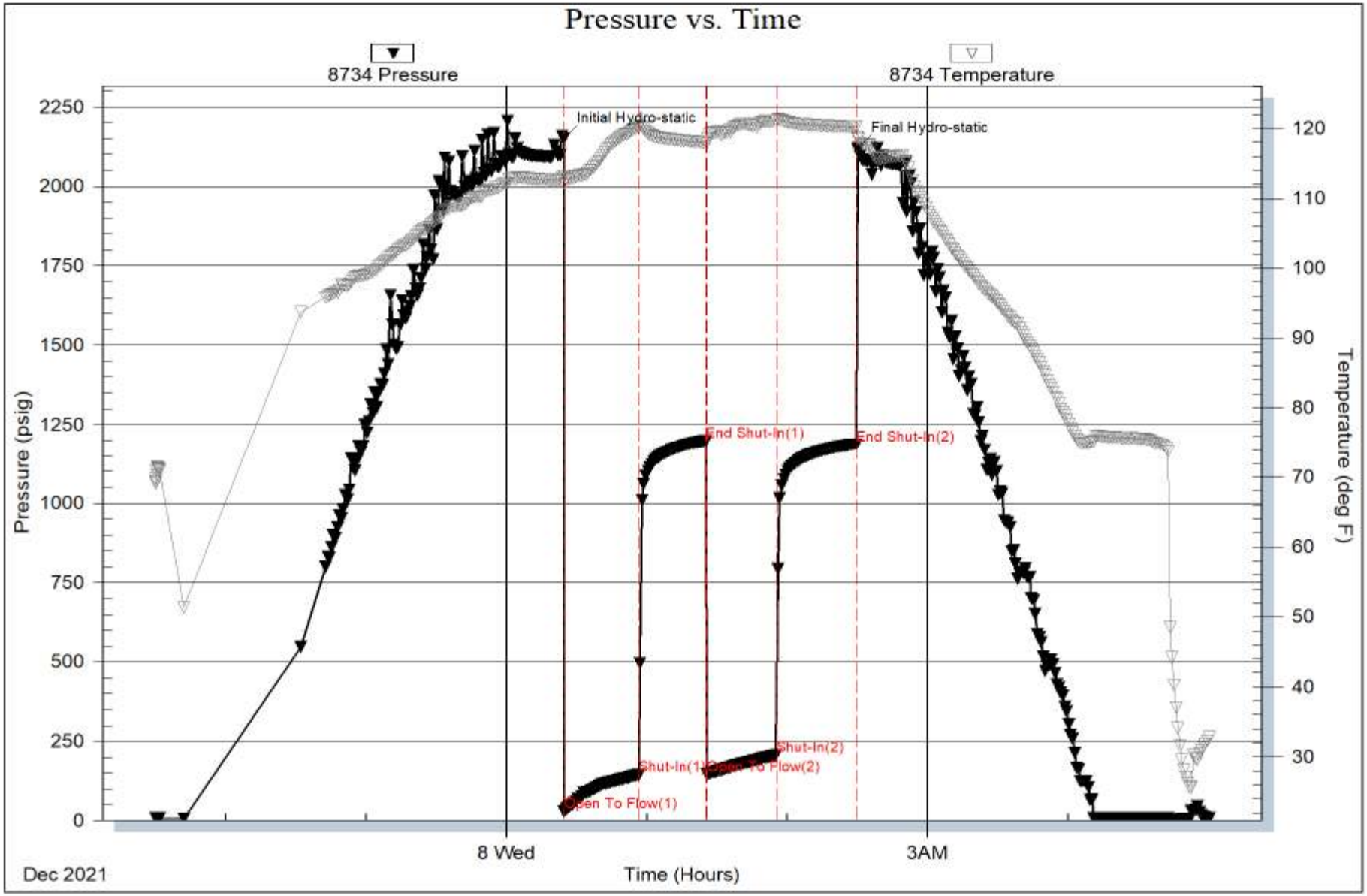
Total Length: 370.00 ft Total Volume: 3.578 bbl

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

Laboratory Name: Laboratory Location:

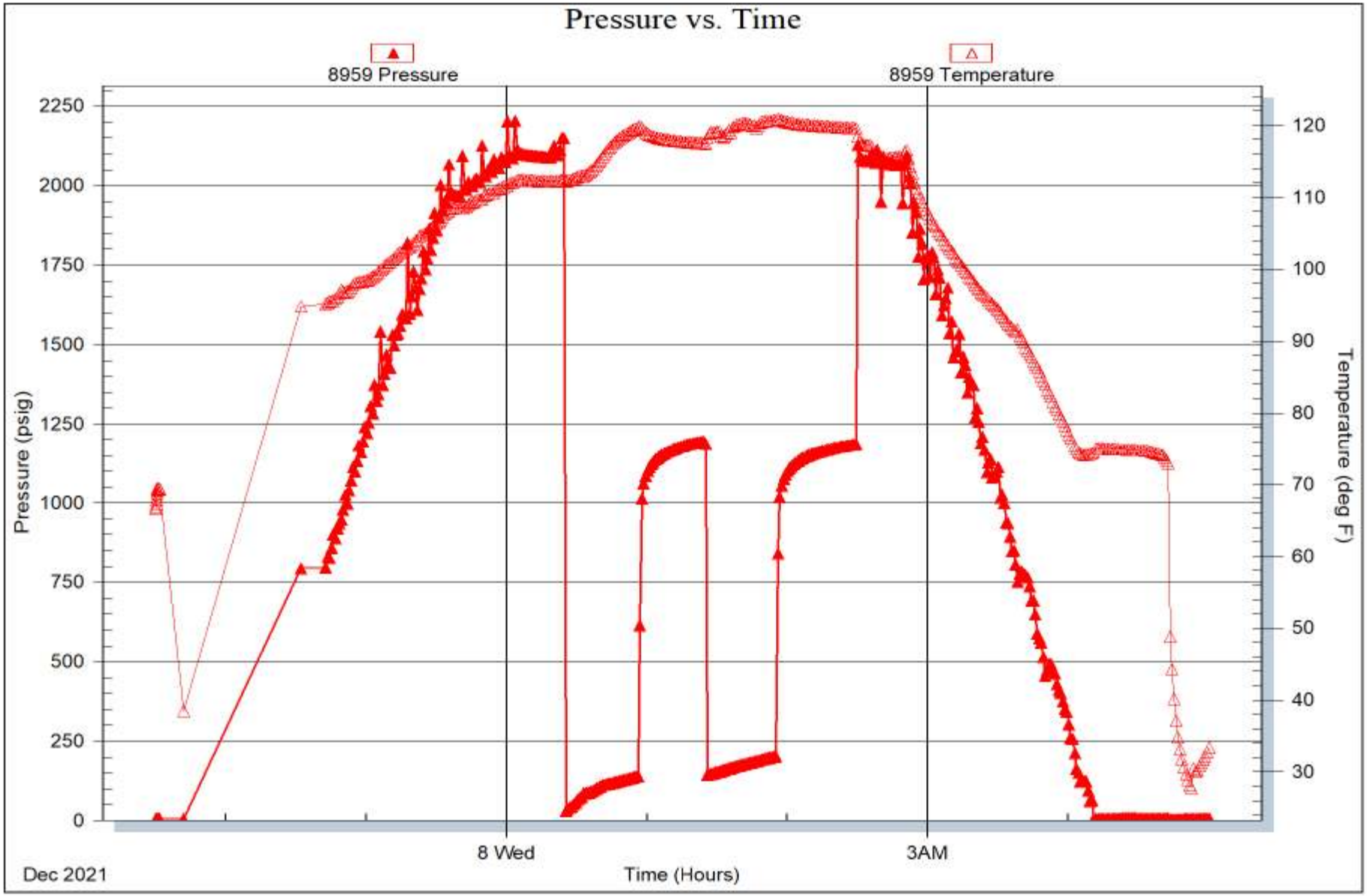
Recovery Comments: RW= .92 @ 37.7 degs = 13,500 PPM

Serial #: 8734 **Outside** Palmer Oil INC Richardson #1-11 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 68369 Printed: 2021.12.08 @ 07:15:44

Serial #: 8959 **Inside** Palmer Oil INC Richardson #1-11 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 68369 Printed: 2021.12.08 @ 07:15:44

DRILL STEM TEST REPORT

Palmer Oil INC

P.O. Box 399
Garden City, KS 67846

ATTN: Kevin Timson

11-23S.-34W. Haskell,KS

Richardson #1-11

Job Ticket: 68370 **DST#: 2**

Test Start: 2021.12.09 @ 09:56:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:05:40
Time Test Ended: 17:13:39

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 81

Interval: 4779.00 ft (KB) To 4802.00 ft (KB) (TVD)
Total Depth: 4802.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

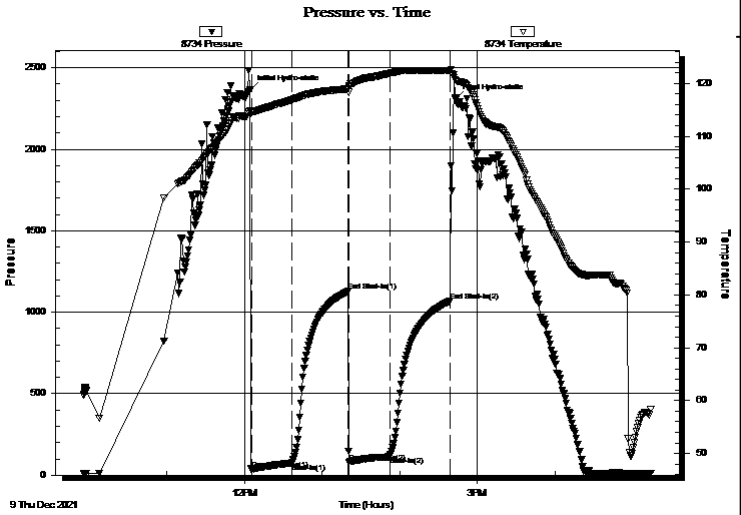
Reference Elevations: 4043.00 ft (KB)
4031.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 112.62 psig @ 4780.00 ft (KB)
Start Date: 2021.12.09 End Date: 2021.12.09
Start Time: 09:56:01 End Time: 17:13:40

Capacity: 8000.00 psig
Last Calib.: 2021.12.09
Time On Btm: 2021.12.09 @ 12:04:40
Time Off Btm: 2021.12.09 @ 14:43:09

TEST COMMENT: 30-IF-B.O.B (11 inches) @ 22 mins (blow increased to 12 1/4")
45-ISI-No return
30-FF-Blow built to 4 1/2"
45-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2367.85	114.84	Initial Hydro-static
1	35.18	114.49	Open To Flow (1)
32	73.57	116.88	Shut-In(1)
76	1127.25	118.96	End Shut-In(1)
77	79.83	119.35	Open To Flow (2)
108	112.62	121.87	Shut-In(2)
154	1067.85	122.46	End Shut-In(2)
159	2313.64	120.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCW w/Oil scum 10%G,20%M,70%W	0.59
57.00	SOSM 2%O, 98%M	0.28
3.00	CO 100%O	0.04
0.00	120' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Palmer Oil INC

P.O. Box 399
Garden City, KS 67846

ATTN: Kevin Timson

11-23S.-34W. Haskell,KS

Richardson #1-11

Job Ticket: 68370 **DST#: 2**

Test Start: 2021.12.09 @ 09:56:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:05:40
Time Test Ended: 17:13:39

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 81

Interval: 4779.00 ft (KB) To 4802.00 ft (KB) (TVD)
Total Depth: 4802.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

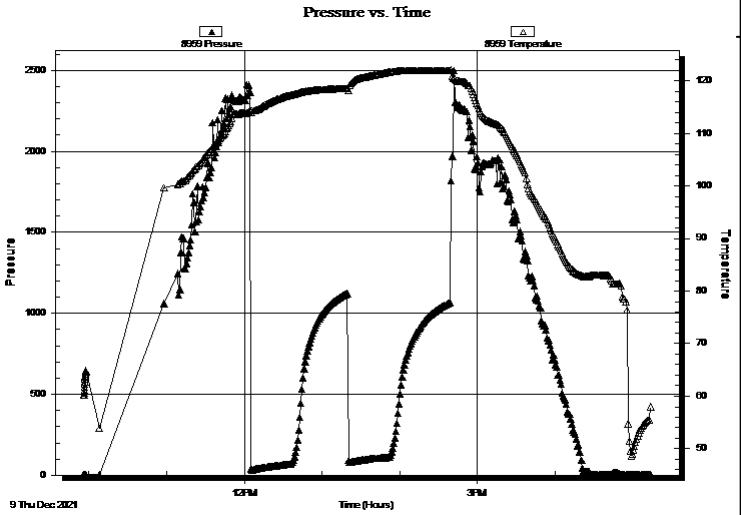
Reference Elevations: 4043.00 ft (KB)
4031.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 4780.00 ft (KB)
Start Date: 2021.12.09 End Date: 2021.12.09
Start Time: 09:56:01 End Time: 17:13:40

Capacity: 8000.00 psig
Last Calib.: 2021.12.09
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-B.O.B (11 inches) @ 22 mins (blow increased to 12 1/4")
45-ISI-No return
30-FF-Blow built to 4 1/2"
45-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCW w/Oil scum 10%G,20%M,70%W	0.59
57.00	SOSM 2%O, 98%M	0.28
3.00	CO 100%O	0.04
0.00	120' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Palmer Oil INC

P.O. Box 399
Garden City, KS 67846

ATTN: Kevin Timson

11-23S.-34W. Haskell,KS

Richardson #1-11

Job Ticket: 68370 **DST#: 2**

Test Start: 2021.12.09 @ 09:56:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	34.4 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	32000 ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2600.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GMCW w /Oil scum 10%G,20%M,70%W	0.590
57.00	SOSM 2%O, 98%M	0.280
3.00	CO 100%O	0.042
0.00	120' GIP	0.000

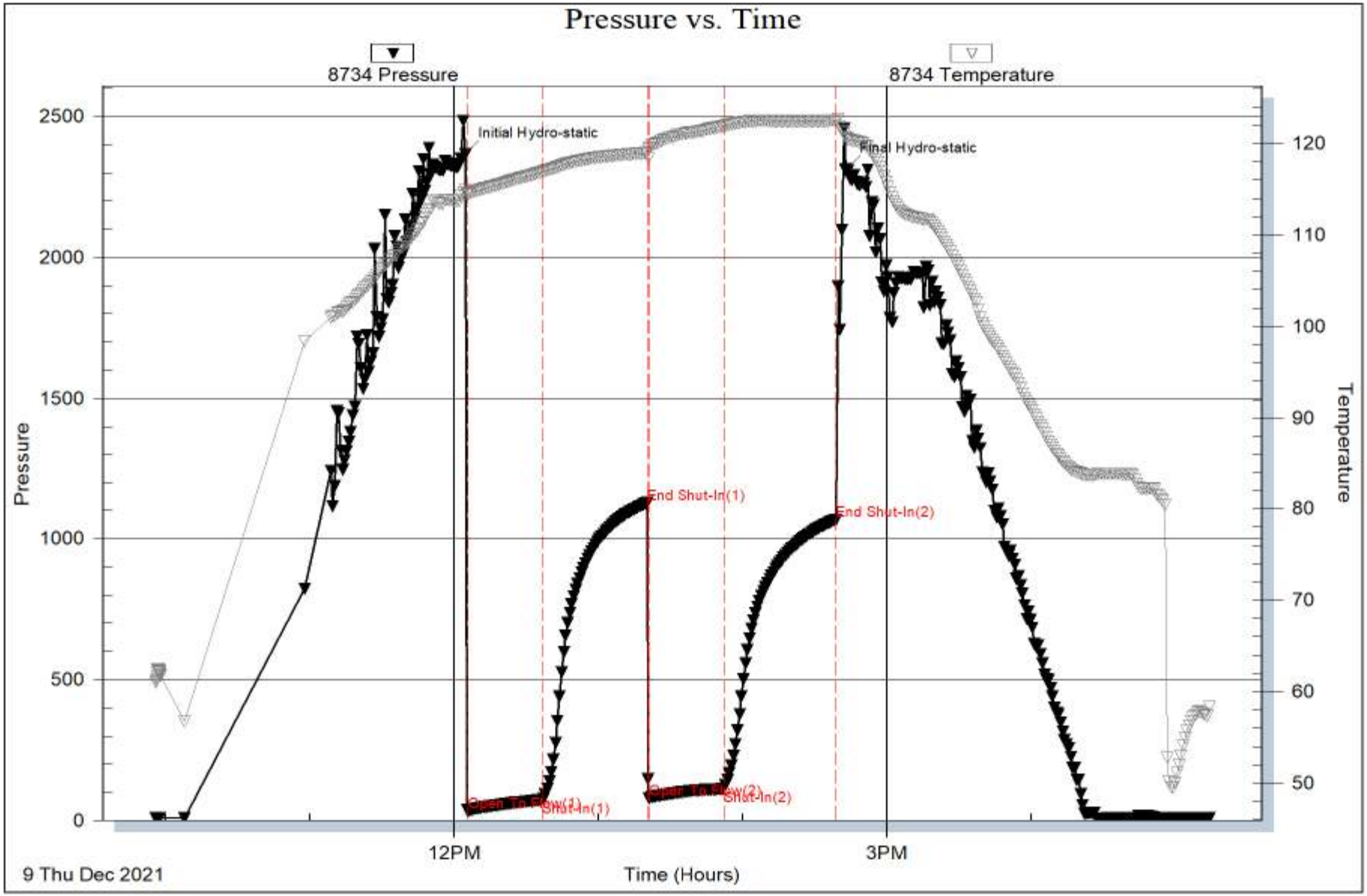
Total Length: 180.00 ft Total Volume: 0.912 bbl

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

Laboratory Name: Laboratory Location:

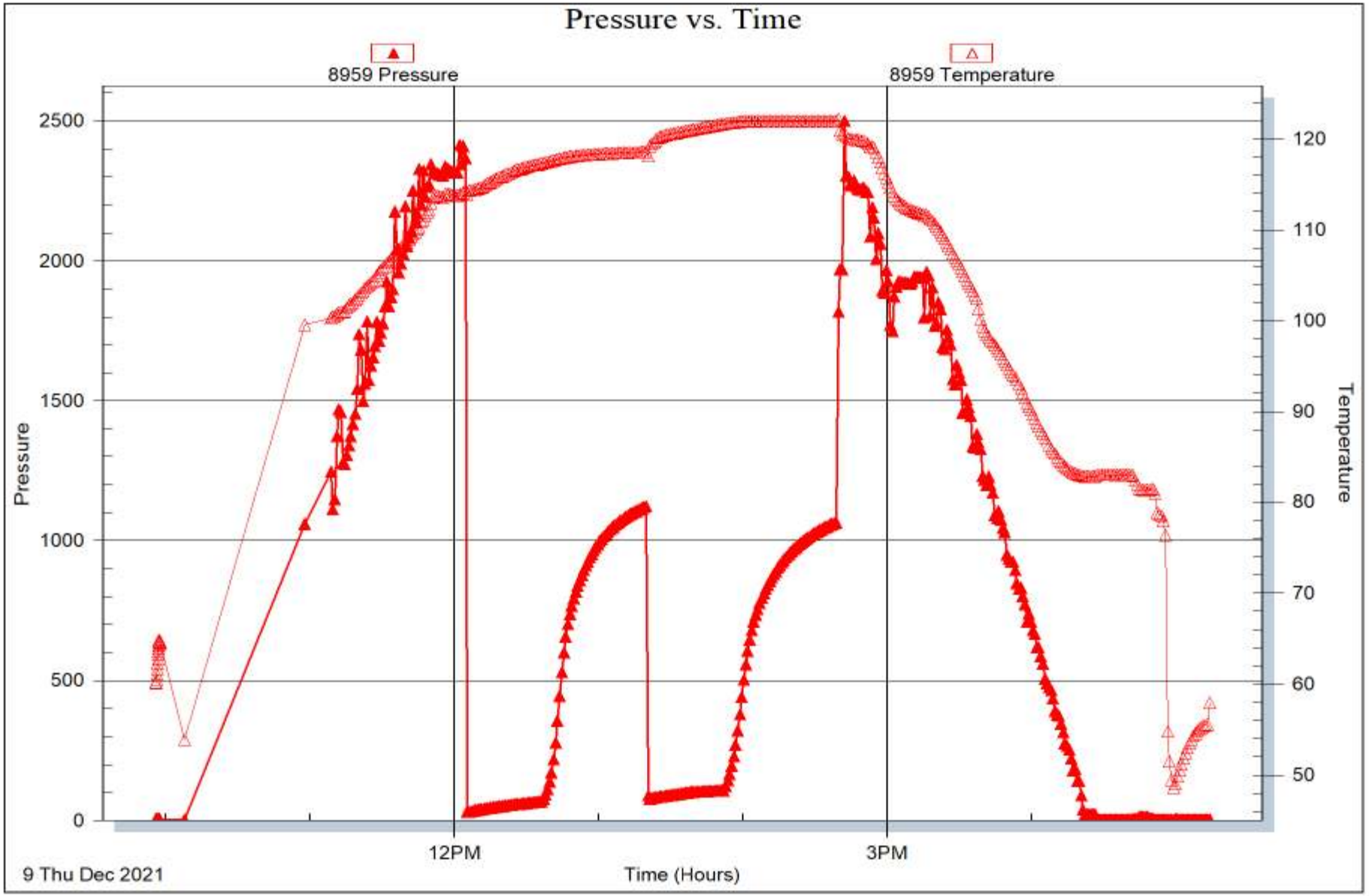
Recovery Comments: Gravity of oil = 34.8 @ 64 corrected to 34.4 @ 60 degs
RW= .242 @ 66.5 degs = 32,000PPM

Serial #: 8734 **Outside** Palmer Oil INC Richardson #1-11 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 68370 Printed: 2021.12.09 @ 22:58:16

Serial #: 8959 **Inside** Palmer Oil INC Richardson #1-11 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 68370 Printed: 2021.12.09 @ 22:58:16

DRILL STEM TEST REPORT

Palmer Oil INC

P.O. Box 399
Garden City, KS 67846

ATTN: Kevin Timson

11-23S.-34W. Haskell,KS

Richardson #1-11

Job Ticket: 68371 **DST#: 3**

Test Start: 2021.12.12 @ 05:20:00

GENERAL INFORMATION:

Formation: **Morrow-Chester**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:04:10
Time Test Ended: 12:41:39

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 81

Interval: 5284.00 ft (KB) To 5515.00 ft (KB) (TVD)
Total Depth: 5515.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

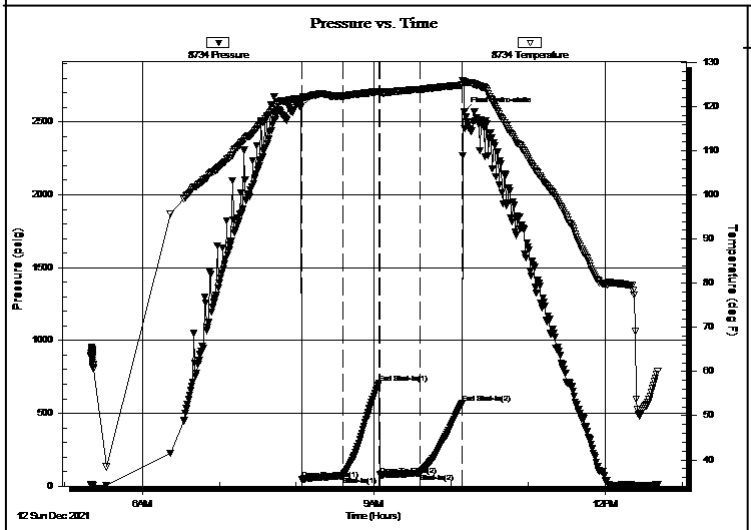
Reference Elevations: 4043.00 ft (KB)
4031.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 88.59 psig @ 5285.00 ft (KB)
Start Date: 2021.12.12 End Date: 2021.12.12
Start Time: 05:20:01 End Time: 12:41:40

Capacity: 8000.00 psig
Last Calib.: 2021.12.12
Time On Btm: 2021.12.12 @ 08:03:50
Time Off Btm: 2021.12.12 @ 10:10:39

TEST COMMENT: 30-IF-Blow built to 2 3/4"
30-ISI-No return
30-FF-No blow
30-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2603.25	121.89	Initial Hydro-static
1	45.16	121.28	Open To Flow (1)
33	70.67	122.41	Shut-In(1)
61	708.36	123.43	End Shut-In(1)
62	76.73	123.45	Open To Flow (2)
92	88.59	123.90	Shut-In(2)
126	566.17	124.89	End Shut-In(2)
127	2569.02	125.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	100% Mud	0.34

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Palmer Oil INC

P.O. Box 399
Garden City, KS 67846

ATTN: Kevin Timson

11-23S.-34W. Haskell,KS

Richardson #1-11

Job Ticket: 68371 **DST#: 3**

Test Start: 2021.12.12 @ 05:20:00

GENERAL INFORMATION:

Formation: **Morrow-Chester**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:04:10
Time Test Ended: 12:41:39

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 81

Interval: 5284.00 ft (KB) To 5515.00 ft (KB) (TVD)
Total Depth: 5515.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

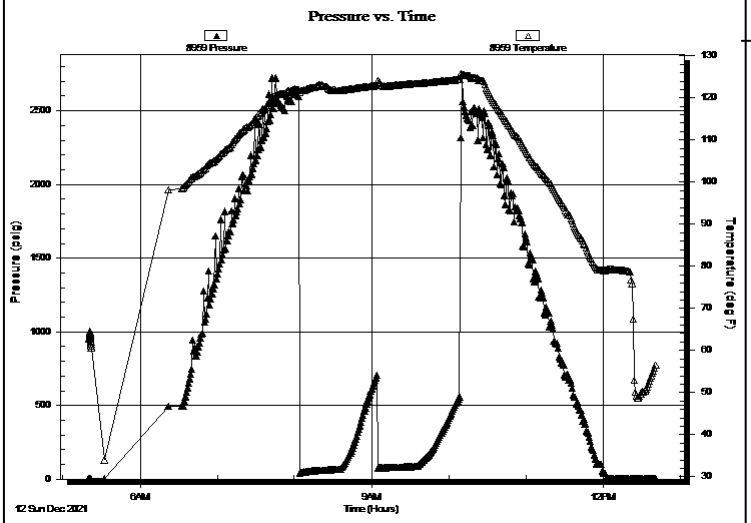
Reference Elevations: 4043.00 ft (KB)
4031.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 5285.00 ft (KB)
Start Date: 2021.12.12 End Date: 2021.12.12
Start Time: 05:20:01 End Time: 12:41:40

Capacity: 8000.00 psig
Last Calib.: 2021.12.12
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Blow built to 2 3/4"
30-ISI-No return
30-FF-No blow
30-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	100% Mud	0.34

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Palmer Oil INC

P.O. Box 399
Garden City, KS 67846

ATTN: Kevin Timson

11-23S.-34W. Haskell,KS

Richardson #1-11

Job Ticket: 68371 **DST#: 3**

Test Start: 2021.12.12 @ 05:20:00

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:	6.40 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1200.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

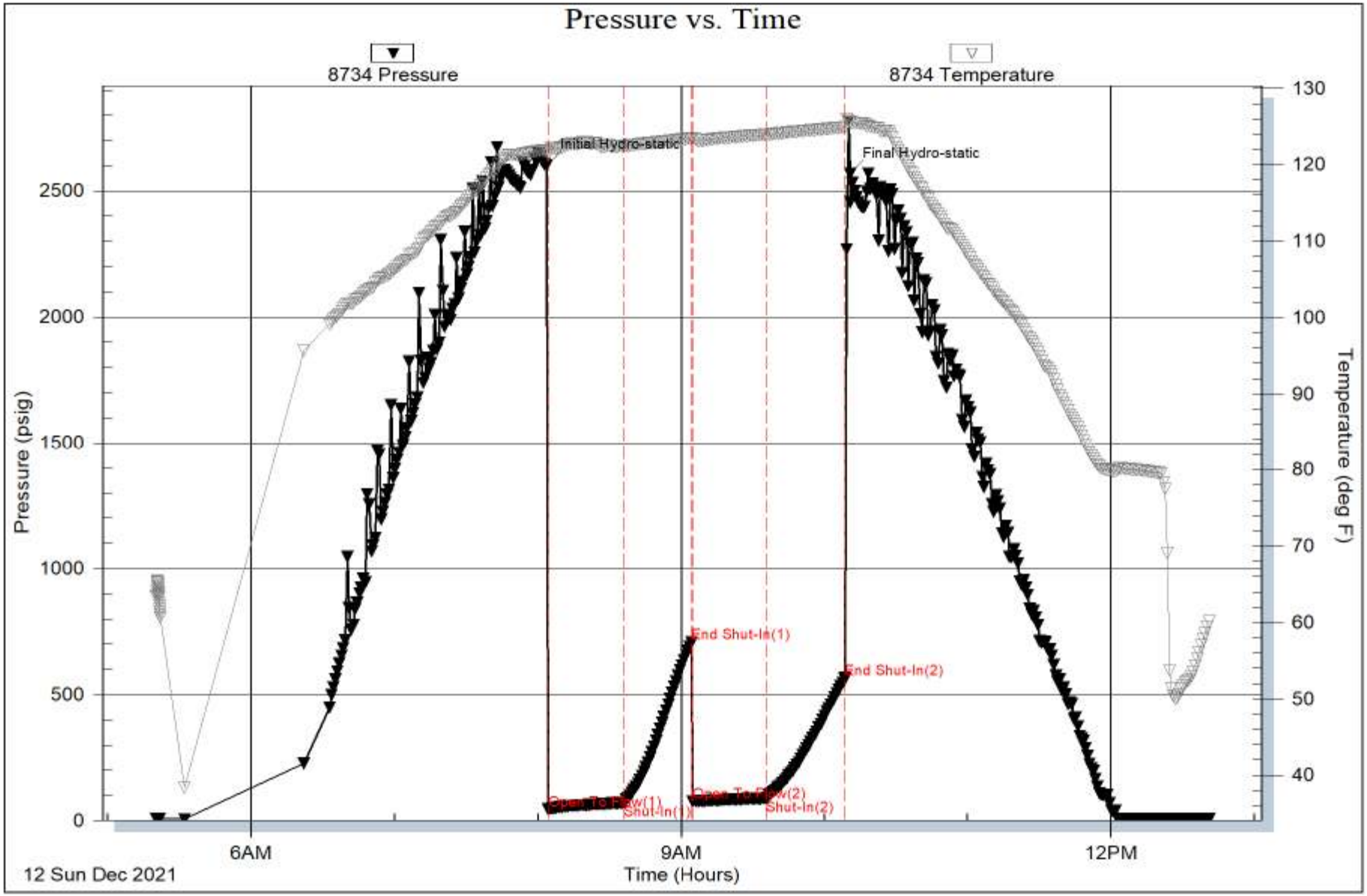
Recovery Table

Length ft	Description	Volume bbl
70.00	100% Mud	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

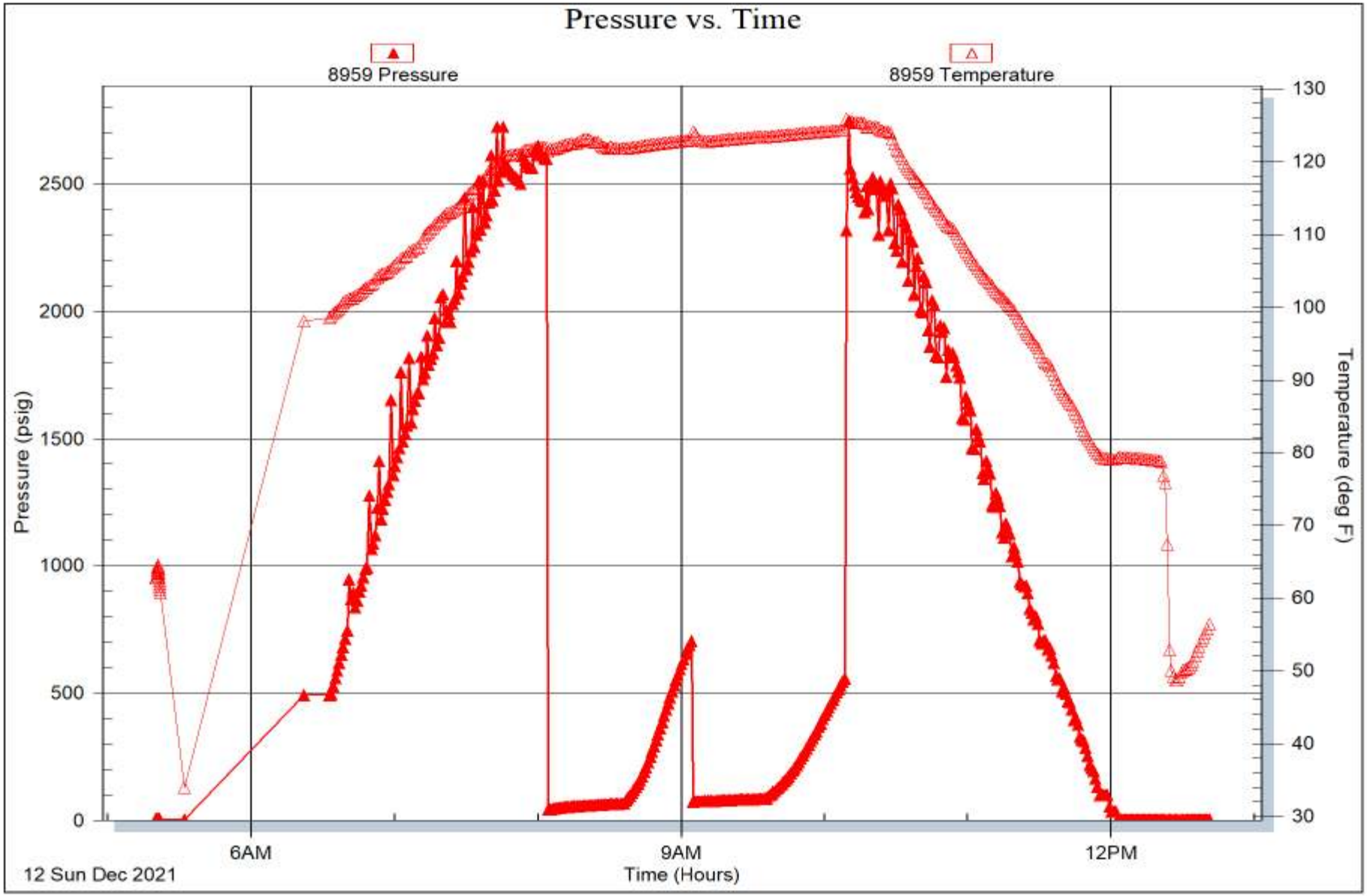
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8734 **Outside** Palmer Oil INC Richardson #1-11 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 68371 Printed: 2021.12.12 @ 13:15:00

Serial #: 8959 **Inside** Palmer Oil INC Richardson #1-11 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 68371 Printed: 2021.12.12 @ 13:15:00

Geological Report

Palmer Oil, Inc.

Richardson #11-1

877’ FSL & 738’ FEL

Sec. 11, T28s, R34w

Haskell County, Kansas

Palmer Oil, Inc.

General Data

Well Data:	Palmer Oil, Inc. Richardson #11-1 877’ FSL & 738’ FEL Sec. 11, T28s, R34w Haskell County, Kansas API # 15-081-22239-0000
Drilling Contractor:	Duke Drilling Co. Rig #9
Geologist:	Kevin Timson
Spud Date:	December 3, 2021
Completion Date:	December 13, 2021
Elevation	3030’ G.L. 3043’ K.B.
Directions:	From the South side of Garden City, KS. Go South on Hwy 83 24 miles to Rd 90. Go West on Rd 90 7 miles and North and West into.
Casing:	1660’ 8 5/8” #24 Surface Casing
Samples:	4000’ to RTD
Drilling Time:	4000’ to RTD
Electric Logs:	Pioneer Energy Services “D. Schmidt” Full Sweep
Drillstem Tests:	Three-Trilobite Testing “Martine Salinas”
Problems:	None

Formation Tops

Richardson #11-1
Sec. 11, T28s, R34w
877' FSL & 738' FEL

Anhydrite	**1867' +1176**
Base	**1946' +1097**
Herrington	**2681' +362**
Fort Riley	**2854' +189**
Heebner	**4088' -1045**
Lansing	**4174' -1131**
Marmaton	**4756' -1713**
Fort Scott	**4905' -1862**
Morrow	**5295' -2252**
St. Gen	**5566' -2523**
RTD	**5600' -2557**
LTD	**5600' -2557**

Sample Zone Descriptions

Lansing H (4434',-1391): Covered in DST #1

Limestone Tan. Sub crystalline. Fair oomoldic and oolycastic porosity. Very light stain, no saturation. Very poor odor. Poor stream cut florescence. 20 unit hotwire.

Novinger (4784',-1741): Covered in DST #2

Limestone Tan. Sub crystalline. Very good oomoldic and oolycastic porosity. Fair to good stain. Poor to fair saturation. Fair odor. SFO when broken. Fair full cut florescence when broken. Unknown hotwire.

Drill Stem Tests

Trilobite Testing

"Martine Salinas"

DST #1 **Lansing H**

Interval (4394' – 4440') Anchor 46'

IHP	- 2150 #	
IFP	- 30" – BOB in 27 min	30-145 #
ISI	- 30" – No Return	1198 #
FFP	- 30" – Built to 10.5"	147-207 #
FSIP	- 30" – No Return	1188 #
FHP	- 2121 #	
BHT	- 118° F	

Recovery: 370' MCW

DST #2 **Marmaton**

Interval (4779' – 4802') Anchor 23'

IHP	- 2368 #	
IFP	- 30" -- BOB in 22 min	35-74 #
ISI	- 45" -- No return	1127 #
FFP	- 30" -- Built to 4.5"	80-113 #
FSIP	- 45" -- No Return	1068 #
FHP	- 2314 #	
BHT	- 121° F	

Recovery: 120' GIP

3' Oil Gravity: 34.4

57' SOCM (2% Oil)

120' GMCW with oil scum

DST #3 **Morrow-Chester**

Interval (5284' – 5515') Anchor 231'

IHP - 2603 #

IFP - 30" -- Built to 2.75" 45-71 #

ISI - 30" -- No return 708 #

FFP - 30" -- No blow 77-89 #

FSIP - 30" -- No Return 566 #

FHP - 2569 #

BHT - 126° F

Recovery: 70' Mud

Structural Comparison

Formation	Palmer Oil, Inc Richardson #11-1 Sec 11, T28s, R34w 877' FSL & 738' FEL		EOG Resources Cattle Empire #14-1 Sec 14, T28s, R34w 2310' FSL & 330' FEL		EOG Resources Rollie #13-2 Sec 13, T28s, R34w 1980' FSL & 1680' FEL
Heebner	4088' -1045	+2	4064' -1047	-6	4041' -1039
Lansing	4174' -1131	+5	4153' -1136	-8	4125' -1123
Marmaton	4756' -1713	FL	4730' -1713	+20	4735' -1733
Fort Scott	4905' -1862	-7	4872' -1855	+8	4872' -1870
Morrow	5295' -2252	+1	5270' -2253	+2	5256' -2254
St. Gen	5566' -2523	-66	5474' -2457	-75	5450' -2448

Summary

The location for the Richardson #11-1 well was found via 3-D seismic survey. The new well ran structurally as expected. Three drill stem tests were conducted, none of which recovered commercial amounts of oil. After all the gathered data had been examined, the decision was made to plug and abandon the Richardson #11-1 well.

Respectfully Submitted,

Kevin Timson
Palmer Oil, Inc.

Form 185-2c

QUASAR ENERGY SERVICES, INC.

3288 FM 51
Gainesville, Texas 76240
Office: 940-612-3336
Fax: 940-612-3336 | qesi@qeserve.com

FRACTURING / ACID / CEMENT

BID #: 4470	**AFE#/PO#:** 0

TYPE / PURPOSE OF JOB	Cement- Surface	**SERVICE POINT**	Liberal, KS
CUSTOMER	Palmer Oil Inc.	**WELL NAME**	Richardson 11-1
ADDRESS	PO Box 399	**LOCATION**	Sublette, Ks.
CITY Garden City	**STATE** Kansas **ZIP** 67846	**TYPE AND PURPOSE OF JOB**	Cement- Surface
DATE OF SALE 12/4/2021		**COUNTY** Haskell	**STATE** KS

QTY.	CODE	YD	UNIT	PUMPING AND EQUIPMENT USED	UNIT PRICE	AMOUNT
50	1000	L	Mile	Mileage - Pickup - Per Mile	$3.31	$ 165.50
150	1010	L	Mile	Mileage - Equipment Mileage - Per Mile	$6.30	$ 945.00
1	3000	L	Each	Single Pump	$1,653.75	$ 1,653.75
1	6030	L	Per Well	Plug Container	$330.75	$ 330.75
				Subtotal for Pumping & Equipment Charges		**$ 3,095.00**

QTY.	CODE	YD	UNIT	MATERIALS	UNIT PRICE	AMOUNT
150	5630	L	Per Sack	Cement - Class A	$16.54	$ 2,481.00
410	5660	L	Per Sack	Cement - Lite - A	$16.54	$ 6,781.40
1	4780	L	Each	Guide Shoe 8 5/8"	$515.97	$ 515.97
1	4850	L	Each	Auto Fill Tube 8 5/8"	$105.84	$ 105.84
1	4880	L	Each	Insert Float 8 5/8"	$396.90	$ 396.90
1	4900	L	Each	Top Rubber Plug 8 5/8"	$91.88	$ 91.88
6	4920	L	Each	Centralizers 8 5/8"	$92.61	$ 555.66
142	5800	L	Per Lb.	Cello Flakes-Poly Flake 1/8" cut	$2.65	$ 376.30
300	5850	L	Per Lb.	Gypsum	$1.00	$ 300.00
1,700	5890	L	Per Lb.	Salt	$0.50	$ 850.00
150	5900	L	Per Lb.	Sodium Metasilicate (SMS) C-45	$2.32	$ 348.00
72	5950	L	Per Lb.	C-51 FWCA	$11.25	$ 810.00
				Subtotal for Material Charges		**$ 13,612.95**

WORKERS		
Daniel Beck		
Jesse Paxton		
Tyce Davis		

		TOTAL	$ 16,707.95
DISCOUNT:	**10%**	**DISCOUNT**	$ 1,670.80
		DISCOUNTED TOTAL	$ **15,037.16**

STAMPS & NOTES:

As of 9/22/15 any invoice with a discount must paid within 60 days of the invoice date. After 60 days the discount will be removed and the invoice will reflect full price.

CUSTOMER SIGNATURE & DATE

X Emigdio Rojas

**All accounts are past due net 30 days following the date of invoice. A finance charge of 1 1/2% per month or 18% annual percentage rate will be charged on all past due accounts.

QUASAR ENERGY SERVICES, INC.
3288 FM 51
Gainesville, Texas 76240
Office: 940-612-3336
Fax: 940-612-3336 | qesi@qeserve.com

CEMENTING JOB LOG

Company:	Palmer Oil Inc.			**Well Name:**	Richardson 11-1		
Type Job:	Cement- Surface			**AFE #:**			
CASING DATA							
Size:	8 5/8	Grade:		Weight:	24		
Casing Depths	Top:	Bottom:					
Drill Pipe:	Size:	Weight:		Packer:			
Open Hole:	Size: 12 1/4	T.D. (ft):	1670	Perfs.:			

CEMENT DATA

Spacer Type:							
Amt.		Sks Yield	0	ft $^3/_{sk}$		Density (PPG)	
LEAD:	Class A: 65/35/6, 3% Salt, 0.2% C-51, 1/4# Celloflake					Excess	
Amt.	410	Sks Yield	1119.3	ft $^3/_{sk}$	2.73	Density (PPG)	11.36
TAIL:	Class A: 2% Gyp., 1% SMS., 1/4# Celloflake					Excess	
Amt.	150	Sks Yield	270	ft $^3/_{sk}$	1.8	Density (PPG)	13.23
WATER:							

Lead:	410	gals/sk:	16.5	Tail:	150	gals/sk:	9.75	Total (bbls):	195.9
Pump Trucks Used:	210, DP11								
Bulk Equipment:	229, 660-23, 189, 660-21								
Disp. Fluid Type:	Water (Supplied)			Amt. (Bbls.)	100.9	Weight (PPG):	8.33		

COMPANY REPRESENTATIVE: Emilio **CEMENTER:** Daniel Beck

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
AM/PM	Casing	Tubing	ANNULUS	TOTAL	RATE	
10:00						ON LOCATION & SAFETY MEETING
10:05						RIG UP
11:52						RIG TO CIRCULATE
12:07						RIG TO PT
12:09						PRESSURE TEST TO 2000PSI
12:12	240			199.3slurry	6.5	PUMP 410SX LEAD @ 11.3#
12:57	250			48.0slurry	6.5	PUMP 150SX TAIL @ 13.2#
13:07						SHUTDOWN / DPOP PLUG
13:09	200			10	6.5	DISPLACE
	200			20	6.5	
	200			30	6.5	
	220			40	6.5	
	250			50	6.5	
	270			60	6.4	
	320			70	6.4	
	370			80	6.4	
	420			90	6.4	
13:24	440			95	6.4	SLOW RATE TO 2.0BPM @ 270PSI
13:28	290			100.9	2.0	LAND PLUG / PRESSURE UP TO 800PSI
13:30						RELEASE BACK --- FLOAT HELD
						JOB COMPLETE

Company:	Palmer Oil Inc.		**Well Name:**	Richardson 11-1
Type Job:	Cement- Surface		**AFE #:**	
Date:	12/4/2021	CEMENTING JOB LOG	QUASAR ENERGY SERVICES, INC. | 185-2	

Palmer Oil Inc.
Richardson 11-1