



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1303635  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1303635

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Conservation Division  
266 N. Main St., Ste. 220  
Wichita, KS 67202-1513



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

Jay Scott Emler, Chairman  
Shari Feist Albrecht, Commissioner  
Pat Apple, Commissioner

Sam Brownback, Governor

April 14, 2016

Ronald  
Ron's Oil Operations Inc  
1889 200TH AVE  
PENOKEE, KS 67659-2036

Re: ACO-1  
API 15-065-24116-00-00  
Ron Nickelson 22-1  
NE/4 Sec.22-09S-24W  
Graham County, Kansas

Dear Ronald:

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 11/24/2015 and the ACO-1 was received on April 13, 2016 (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

# ALLIED OIL & GAS SERVICES, LLC 055088

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell, Ks

DATE <u>12-3-15</u>	SEC. <u>22</u>	TWP. <u>9</u>	RANGE <u>24</u>	CALLED OUT <u>11:00</u>	ON LOCATION <u>1:00</u>	JOB START <u>2:00</u>	JOB FINISH <u>4:00</u>
LEASE <u>Nickelston</u>	WELL # <u>22-1</u>	LOCATION <u>Walkerway North TO Red Line</u>			COUNTY <u>Graham</u>	STATE <u>KS</u>	
<input checked="" type="radio"/> OLD OR <input type="radio"/> NEW (Circle one)		ROAD (R/H) - <u>7 west to 200 - 1/2 N - E into</u>					

CONTRACTOR Royal Drilling OWNER \_\_\_\_\_  
TYPE OF JOB PTA

HOLE SIZE _____	T.D. _____	CEMENT AMOUNT ORDERED <u>255 sks 60/40 poz</u>
CASING SIZE _____	DEPTH _____	<u>490 bel, 1/4" CellFlake</u>
TUBING SIZE _____	DEPTH _____	
DRILL PIPE <u>4 1/2 16'</u>	DEPTH _____	
TOOL _____	DEPTH _____	
PRES. MAX _____	MINIMUM _____	COMMON _____ @ _____
MEAS. LINE _____	SHOE JOINT _____	POZMIX _____ @ _____
CEMENT LEFT IN CSG. _____		GEL _____ @ _____
PERFS. _____		CHLORIDE _____ @ _____
DISPLACEMENT _____		ASC _____ @ _____

EQUIPMENT		60/40 poz 490 bel 255 @ 18.92	4324.60
		CellFlake 64 @ 2.97	190.08
PUMP TRUCK # <u>409</u>	CEMENTER <u>Steve Orlando</u>		
	HELPER <u>Robert Vukobovich</u>		
BULK TRUCK # <u>995 292</u>	DRIVER <u>Tracy Jordan</u>	Materials @ _____	5014.68
BULK TRUCK # _____	DRIVER _____	Discs @ _____	2401.05
		HANDLING <u>255 sks @ 2.68</u>	672.40
		MILEAGE <u>660 Tr @ 2.75</u>	1815.00
		TOTAL	

**REMARKS:**

Plugging # 99996

1st plug 50 sks @ 22.25

2nd plug 100 sks @ 12.25

3rd plug 50 sks @ 2.75

Surface 10 sks @ HD

R/H 30 sks

M/H 15 sks

**SERVICE**

DEPTH OF JOB _____	<u>2225</u>
PUMP TRUCK CHARGE _____	<u>2243.75</u>
EXTRA FOOTAGE _____ @ _____	
MILEAGE <u>60</u> @ <u>4.40</u>	<u>264.00</u>
MANIFOLD _____ @ _____	
<u>HV Mileage 120</u> @ <u>7.70</u>	<u>924.00</u>

CHARGE TO: Rons Oil Operations, Inc.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Disc 28221 - TOTAL 5829.15

**PLUG & FLOAT EQUIPMENT**

<u>wooden plug 1ea @ 110.00</u>	<u>110.00</u>
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
<u>Disc 52,80</u>	TOTAL <u>110.00</u>

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 11003.83

DISCOUNT 5284.85 IF PAID IN 30 DAYS

PRINTED NAME Doug Budig

SIGNATURE Doug Budig

5721.98

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1927

Date	11.24.15	Sec.	22	Twp.	9	Range	24	County	Graham	State	KS	On Location		Finish	9:30 p.m.
Lease								Location		Wakarusa Redline Twp 200 21					
Lease								Well No.		22-1					
Contractor								Owner		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job								Charge To		Rens Oil					
Hole Size				T.D.				Depth				Street			
12 1/4				221				221							
Csg.				Depth				City				State			
8 5/8				221											
Tbg. Size				Depth				City				State			
Tool				Depth				City				State			
Cement Left in Csg.								Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.					
15'										Cement Amount Ordered 170 80/20 31-44 21-65L					
Meas Line								Displace							
								13BL							
<b>EQUIPMENT</b>								<b>Common</b>							
Pumptrk				No.				Cementer				136			
20								Craig							
Bulktrk				No.				Helper				34			
								Nick							
Bulktrk				No.				Driver				3			
21								Brett							
Bulktrk				No.				Driver				7			
<b>JOB SERVICES &amp; REMARKS</b>								<b>Hulls</b>							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
8 5/8 on bottom. Est. Circulation.								Handling 180							
Mix 170SK & Displace.								Mileage							
Cement Circulated!								<b>FLOAT EQUIPMENT</b>							
								Guide Shoe							
								Centralizer 8 5/8 Swage							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge Surface							
								Mileage 31							
								Tax							
								Discount							
X Signature Doug Bueley								Total Charge							



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Ron's Oil Operations Inc

1889 200th AVE  
Penokee KS 67659

ATTN: Chris Bean

**22-9s-24w Graham, KS**

**Ron Nickelson #22-1**

Job Ticket: 64881

DST#: 1

Test Start: 2015.12.02 @ 03:58:00

### GENERAL INFORMATION:

Formation: **LKC "I,J,K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:19:45

Time Test Ended: 10:35:30

Interval: **3927.00 ft (KB) To 3990.00 ft (KB) (TVD)**

Total Depth: 3990.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

Reference Elevations: 2439.00 ft (KB)

2433.00 ft (CF)

KB to GR/CF: 6.00 ft

**Serial #: 6748**

**Inside**

Press@RunDepth: 42.14 psig @ 3964.00 ft (KB)

Start Date: 2015.12.02 End Date: 2015.12.02

Start Time: 03:58:05 End Time: 10:35:29

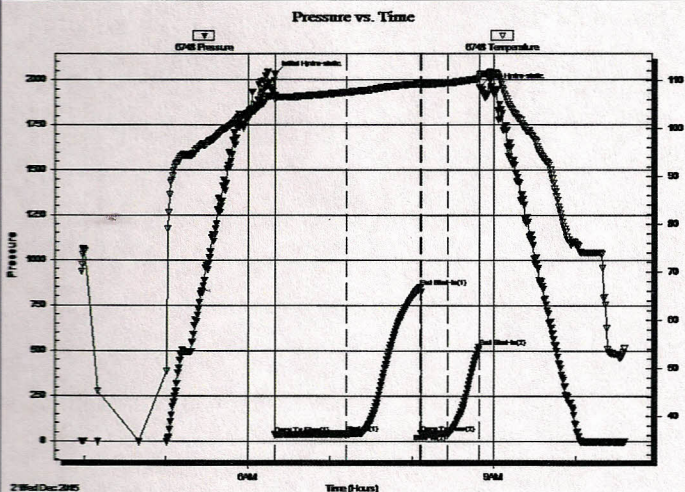
Capacity: 8000.00 psig

Last Calib.: 2015.12.02

Time On Btm: 2015.12.02 @ 06:19:30

Time Off Btm: 2015.12.02 @ 08:49:30

TEST COMMENT: 60 - IF- 1/2" blow , dying off after 20 minutes  
45 - IS- No return  
20 - FF- No blow  
20 - FS- No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2030.36	106.85	Initial Hydro-static
1	36.39	105.99	Open To Flow (1)
53	40.74	107.53	Shut-In(1)
107	850.13	109.29	End Shut-In(1)
107	42.81	109.00	Open To Flow (2)
127	42.14	109.51	Shut-In(2)
150	519.74	110.29	End Shut-In(2)
150	1957.52	110.84	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud - Oil spots, 100%M	0.28

### Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Ron's Oil Operations Inc

**22-9s-24w Graham, KS**

1889 200th AVE  
Penokee KS 67659

**Ron Nickelson #22-1**

Job Ticket: 64881 **DST#: 1**

ATTN: Chris Bean

Test Start: 2015.12.02 @ 03:58:00

### GENERAL INFORMATION:

Formation: **LKC "I,J,K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:19:45

Time Test Ended: 10:35:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

Interval: **3927.00 ft (KB) To 3990.00 ft (KB) (TVD)**

Reference Elevations: 2439.00 ft (KB)

Total Depth: 3990.00 ft (KB) (TVD)

2433.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: **8940**

Outside

Press@RunDepth: psig @ 3964.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.12.02 End Date: 2015.12.02

Last Calib.: 2015.12.02

Start Time: 03:58:05 End Time: 10:35:29

Time On Btm:

Time Off Btm:

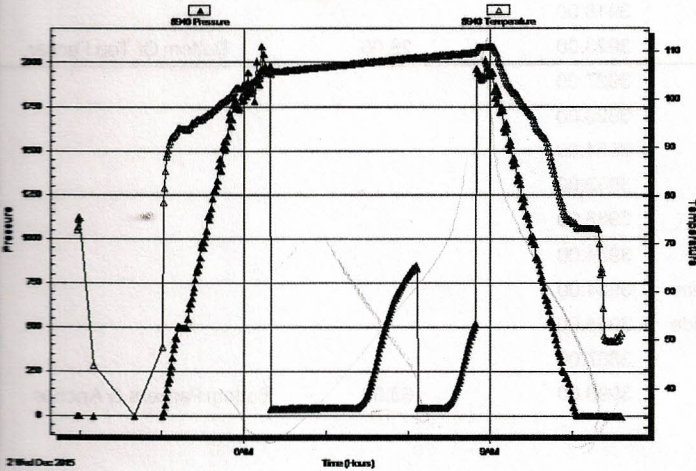
TEST COMMENT: 60 - IF- 1/2" blow , dying off after 20 minutes

45 - IS- No return

20 - FF- No blow

20 - FS- No return

Pressure vs. Time



### PRESSURE SUMMARY

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

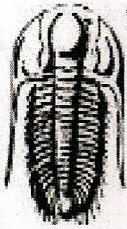
### Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud - Oil spots, 100%M	0.28

### Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Ron's Oil Operations Inc

22-9s-24w Graham, KS

1889 200th AVE  
Penokee KS 67659

Ron Nickelson #22-1

Job Ticket: 64881

DST#: 1

ATTN: Chris Bean

Test Start: 2015.12.02 @ 03:58:00

### Tool Information

Drill Pipe:	Length: 3928.00 ft	Diameter: 3.80 inches	Volume: 55.10 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<b>Total Volume: 55.10 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3927.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3900.00	
Shut In Tool	5.00			3905.00	
Hydraulic tool	5.00			3910.00	
Jars	5.00			3915.00	
Safety Joint	3.00			3918.00	
Packer	5.00			3923.00	28.00 Bottom Of Top Packer
Packer	4.00			3927.00	
Stubb	1.00			3928.00	
Perforations	3.00			3931.00	
Change Over Sub	1.00			3932.00	
Drill Pipe	31.00			3963.00	
Change Over Sub	1.00			3964.00	
Recorder	0.00	6748	Inside	3964.00	
Recorder	0.00	8940	Outside	3964.00	
Perforations	23.00			3987.00	
Bullnose	3.00			3990.00	63.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>91.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Ron's Oil Operations Inc

**22-9s-24w Graham,KS**

1889 200th AVE  
Penokee KS 67659

**Ron Nickelson #22-1**

Job Ticket: 64881

**DST#: 1**

ATTN: Chris Bean

Test Start: 2015.12.02 @ 03:58:00

### 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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud - Oil spots, 100%M	0.281

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:



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Ron's Oil Operations Inc

**22-9s-24w Graham,KS**

1889 200th AVE  
Penokee KS 67659

**Ron Nickelson #22-1**

Job Ticket: 64882

**DST#: 2**

ATTN: Chris Bean

Test Start: 2015.12.03 @ 01:27:00

**GENERAL INFORMATION:**

Formation: **LKC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:50:00

Time Test Ended: 09:12:15

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: **3864.00 ft (KB) To 3894.00 ft (KB) (TVD)**

Reference Elevations: 2439.00 ft (KB)

Total Depth: 4056.00 ft (KB) (TVD)

2433.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 6748**

**Inside**

Press@RunDepth: 80.36 psig @ 3865.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.12.03

End Date: 2015.12.03

Last Calib.: 2015.12.03

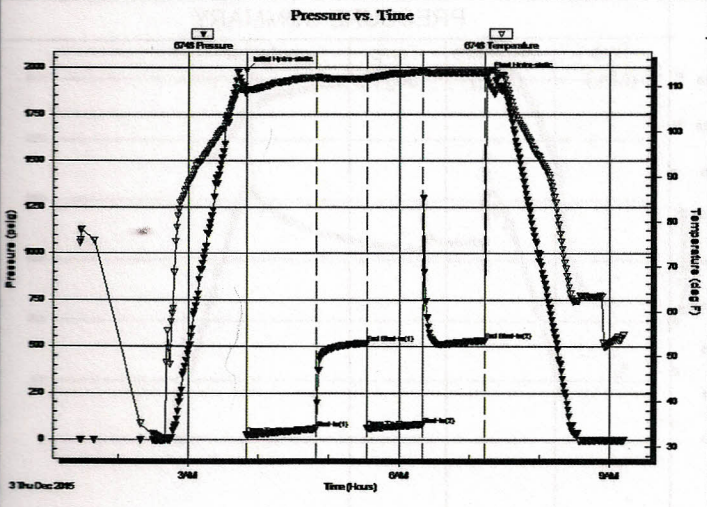
Start Time: 01:27:05

End Time: 09:12:14

Time On Btm: 2015.12.03 @ 03:49:45

Time Off Btm: 2015.12.03 @ 07:15:30

TEST COMMENT: 60 - IF- 2 1/2" blow  
45 - IS- No return  
45 - FF- 1/2" blow  
45 - FS- No return



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1985.90	109.44	Initial Hydro-static
1	25.21	108.84	Open To Flow (1)
59	56.60	111.99	Shut-In(1)
103	517.39	111.74	End Shut-In(1)
103	61.16	111.50	Open To Flow (2)
150	80.36	113.35	Shut-In(2)
204	530.57	113.15	End Shut-In(2)
206	1953.29	113.68	Final Hydro-static

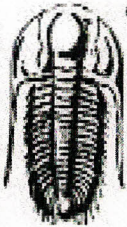
**Recovery**

Length (ft)	Description	Volume (bbl)
129.00	WM - Oil spots, 2%W, 98%M	1.81

\* Recovery from multiple tests

**Gas Rates**

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Ron's Oil Operations Inc  
 1889 200th AVE  
 Penokee KS 67659  
 ATTN: Chris Bean

22-9s-24w Graham,KS

Ron Nickelson #22-1

Job Ticket: 64882

DST#: 2

Test Start: 2015.12.03 @ 01:27:00

### GENERAL INFORMATION:

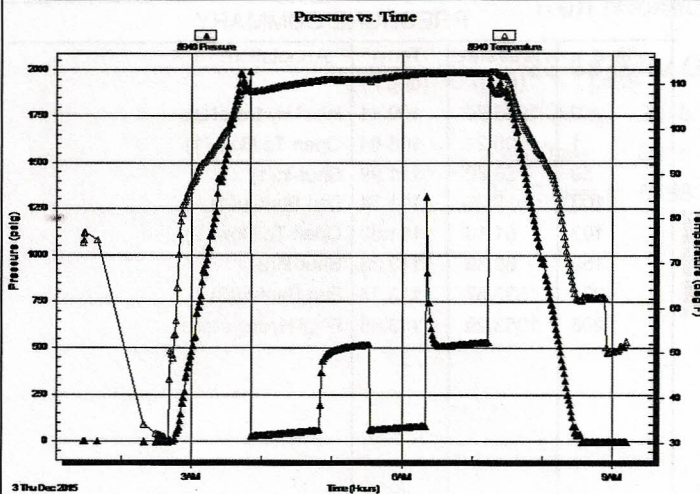
Formation: **LKC "E-F"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Straddle (Reset)  
 Time Tool Opened: 03:50:00 Tester: Cody Bloedorn  
 Time Test Ended: 09:12:15 Unit No: 73  
 Interval: **3864.00 ft (KB) To 3894.00 ft (KB) (TVD)**  
 Reference Elevations: 2439.00 ft (KB)  
 Total Depth: 4056.00 ft (KB) (TVD) 2433.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

### Serial #: 8940

Outside

Press@RunDepth: psig @ 3865.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.12.03 End Date: 2015.12.03 Last Calib.: 2015.12.03  
 Start Time: 01:27:05 End Time: 09:12:14 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 60 - IF- 2 1/2" blow  
 45 - IS- No return  
 45 - FF- 1/2" blow  
 45 - FS- No return



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
129.00	WM - Oil spots, 2%W, 98%M	1.81

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE TESTING, INC.**

### DRILL STEM TEST REPORT

Ron's Oil Operations Inc

1889 200th AVE  
Penokee KS 67659

ATTN: Chris Bean

**22-9s-24w Graham, KS**

**Ron Nickelson #22-1**

Job Ticket: 64882

**DST#: 2**

Test Start: 2015.12.03 @ 01:27:00

#### GENERAL INFORMATION:

Formation: **LKC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:50:00

Time Test Ended: 09:12:15

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: **3864.00 ft (KB) To 3894.00 ft (KB) (TVD)**

Total Depth: 4056.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2439.00 ft (KB)

2433.00 ft (CF)

KB to GR/CF: 6.00 ft

**Serial #: 8958**

**Below (Straddle)**

Press@RunDepth: psig @ 3905.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.12.03 End Date: 2015.12.03

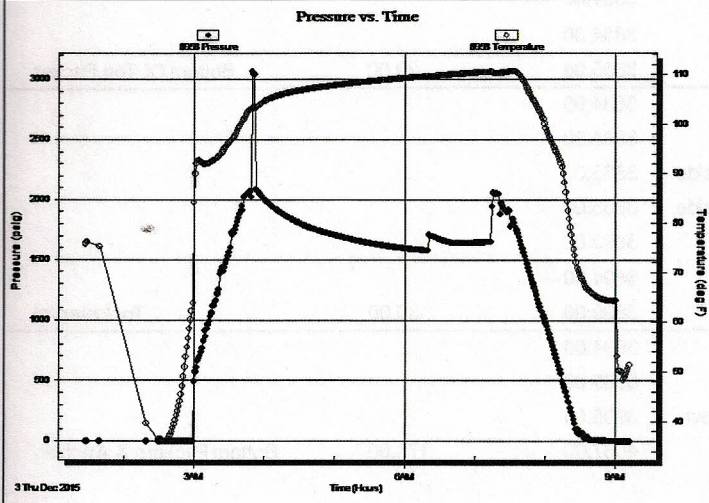
Last Calib.: 2015.12.03

Start Time: 01:27:05 End Time: 09:11:59

Time On Btm:

Time Off Btm:

TEST COMMENT: 60 - IF- 2 1/2" blow  
45 - IS- No return  
45 - FF- 1/2" blow  
45 - FS- No return



#### PRESSURE SUMMARY

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

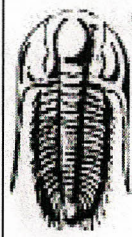
#### Recovery

Length (ft)	Description	Volume (bbl)
129.00	WM - Oil spots, 2%W, 98%M	1.81

\* Recovery from multiple tests

#### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ron's Oil Operations Inc  
1889 200th AVE  
Penokee KS 67659  
  
ATTN: Chris Bean

**22-9s-24w Graham,KS**  
**Ron Nickelson #22-1**  
Job Ticket: 64882      **DST#: 2**  
Test Start: 2015.12.03 @ 01:27:00

**Tool Information**

Drill Pipe:	Length: 3868.00 ft	Diameter: 3.80 inches	Volume: 54.26 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<b>Total Volume: 54.26 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3864.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	3894.00 ft			
Interval between Packers:	30.00 ft			
Tool Length:	232.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments: Driller pulled up to far on final shut in when we went to pull slips.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3836.00	
Shut In Tool	5.00			3841.00	
Hydraulic tool	5.00			3846.00	
Hydraulic tool	5.00			3851.00	
Safety Joint	3.00			3854.00	
Packer	5.00			3859.00	29.00 Bottom Of Top Packer
Packer	5.00			3864.00	
Stubb	1.00			3865.00	
Recorder	0.00	6748	Inside	3865.00	
Recorder	0.00	8940	Outside	3865.00	
Perforations	28.00			3893.00	
Blank Off Sub	1.00			3894.00	
Packer	5.00			3899.00	30.00 Tool Interval
Packer	5.00			3904.00	
Change Over Sub	1.00			3905.00	
Recorder	0.00	8958	Below	3905.00	
Drill Pipe	162.00			4067.00	173.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>232.00</b>				



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT FLUID SUMMARY

Ron's Oil Operations Inc	22-9s-24w Graham,KS
1889 200th AVE	<b>Ron Nickelson #22-1</b>
Penokee KS 67659	Job Ticket: 64882 <span style="float: right;">DST#: 2</span>
ATTN: Chris Bean	Test Start: 2015.12.03 @ 01:27:00

### 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:	38000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
129.00	WM - Oil spots, 2%W, 98%M	1.810

Total Length: 129.00 ft      Total Volume: 1.810 bbl

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

Laboratory Name:      Laboratory Location:

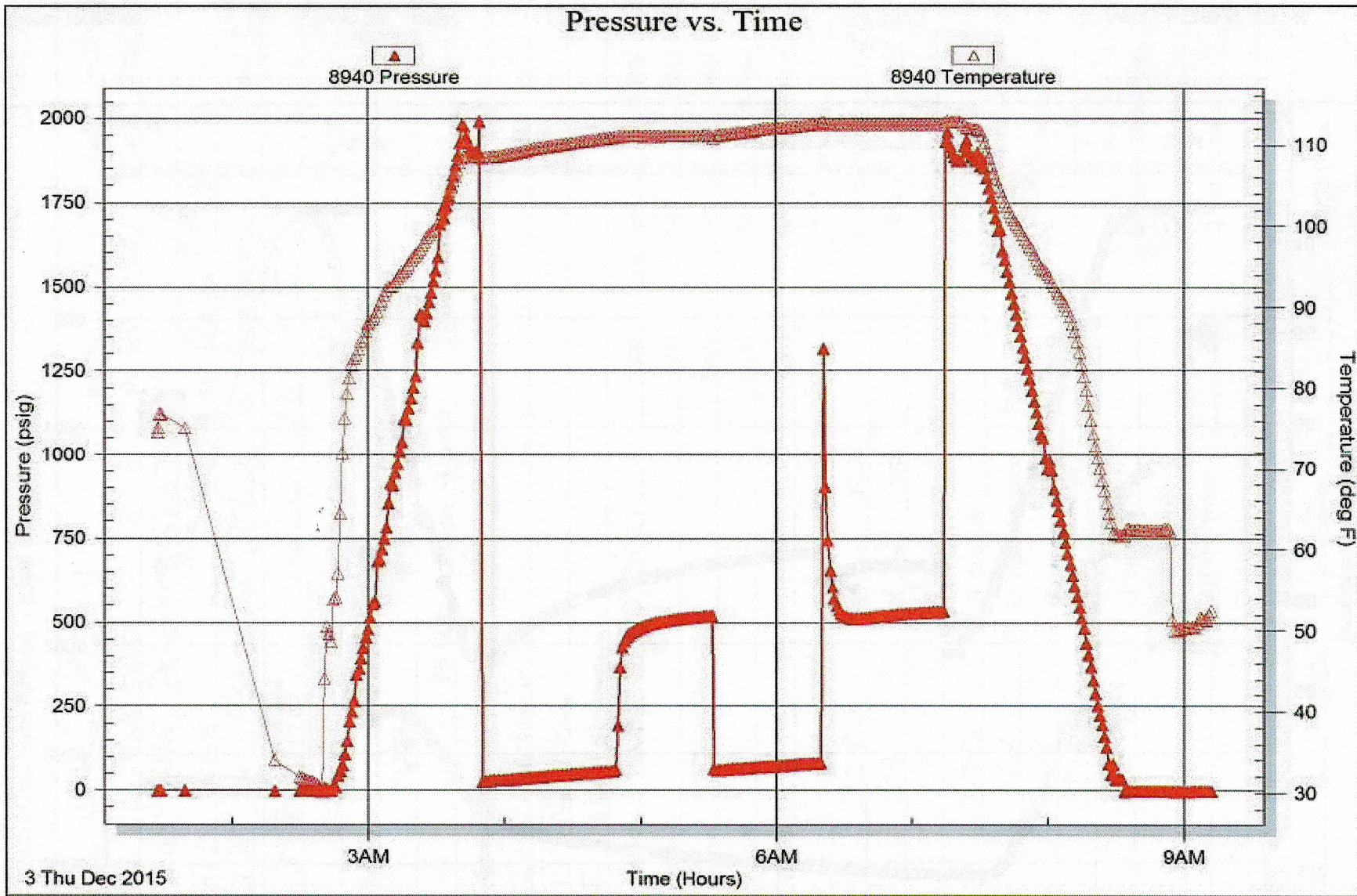
Recovery Comments: Salinity: .25 @ 50 Degrees = 38,000

Serial #: 8940

Outside: Ron's Oil Operations Inc

Ron Nickelson #22-1

DST Test Number: 2



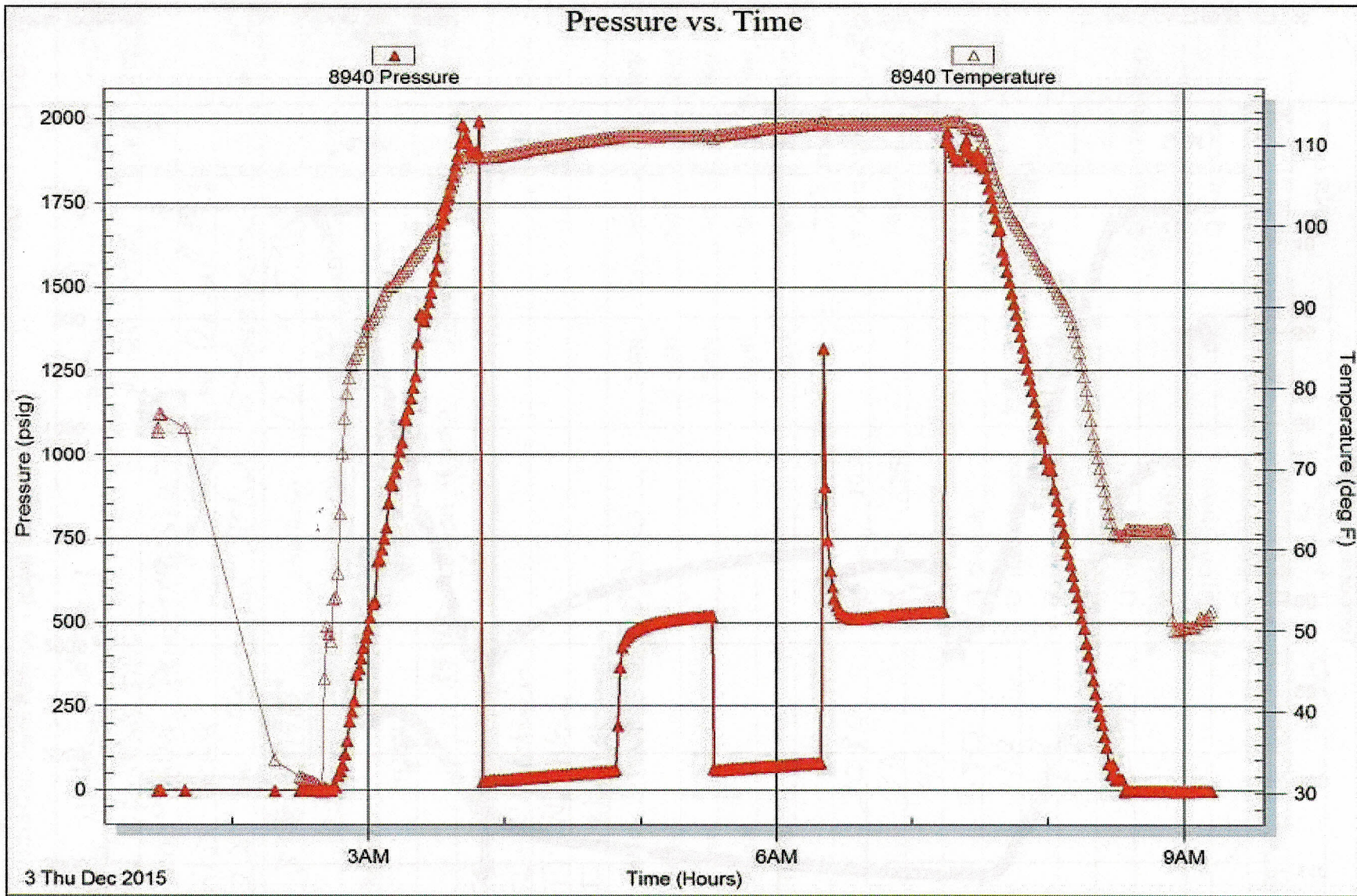


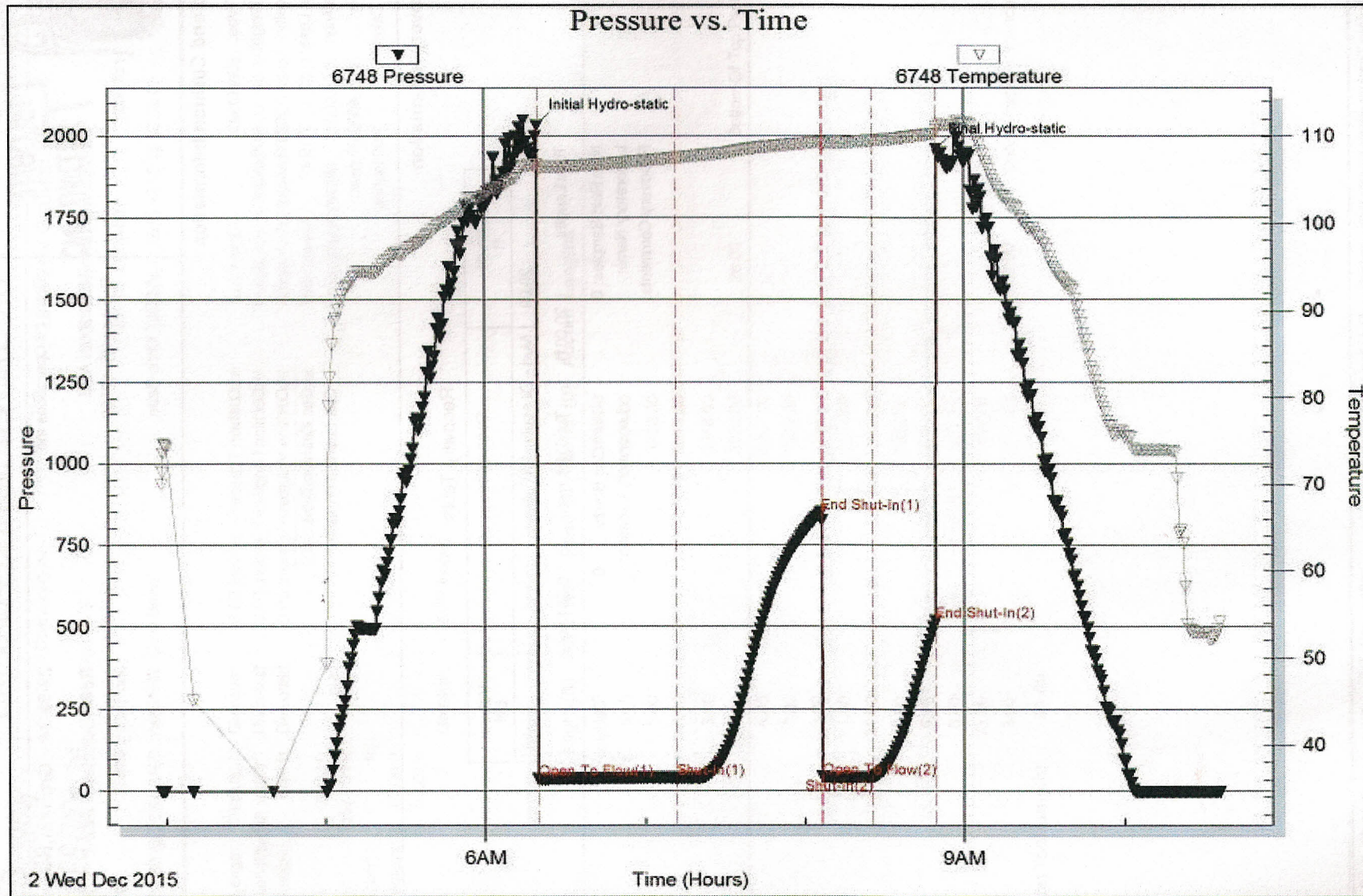
Serial #: 8940

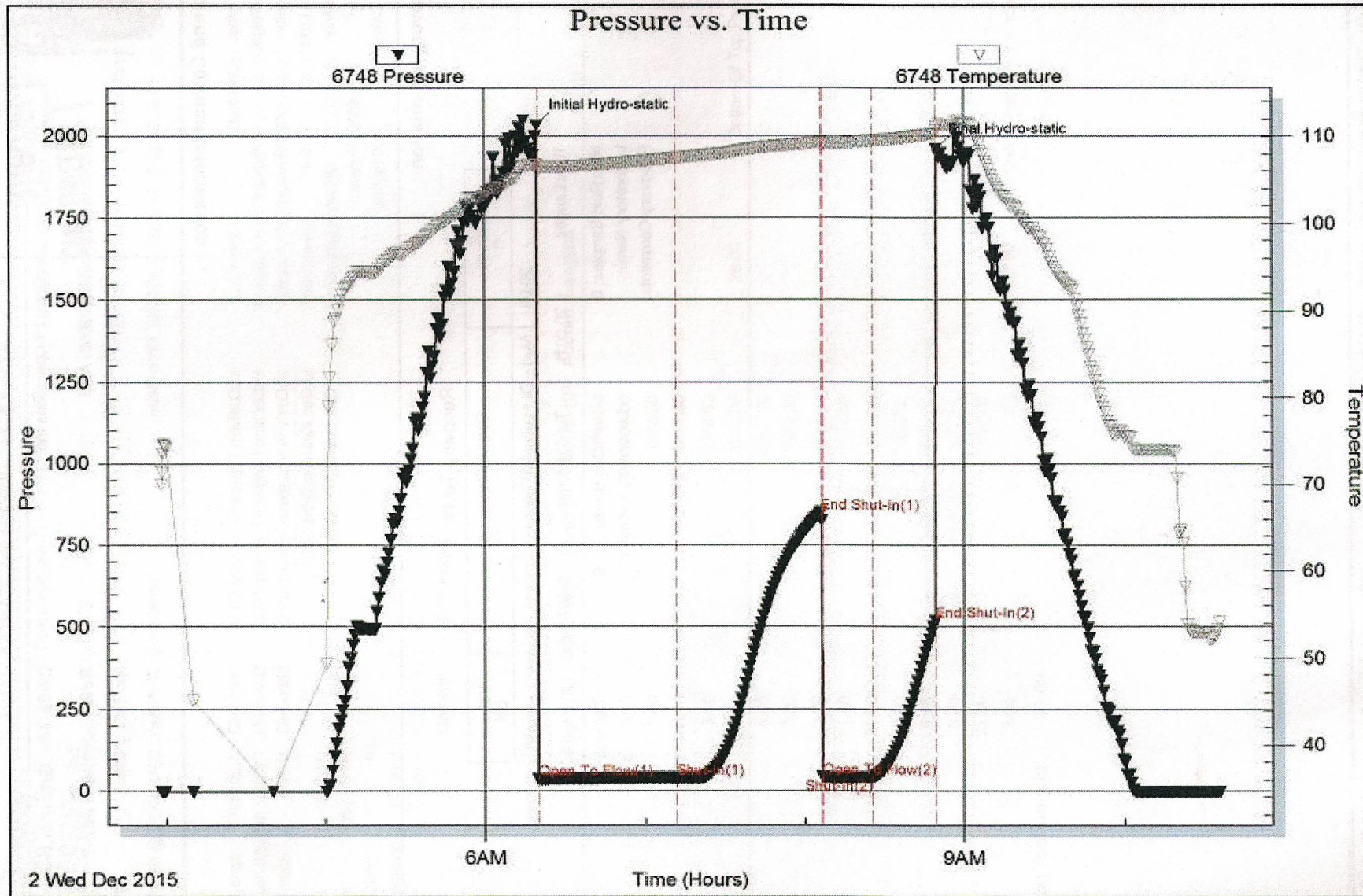
Outside: Ron's Oil Operations Inc

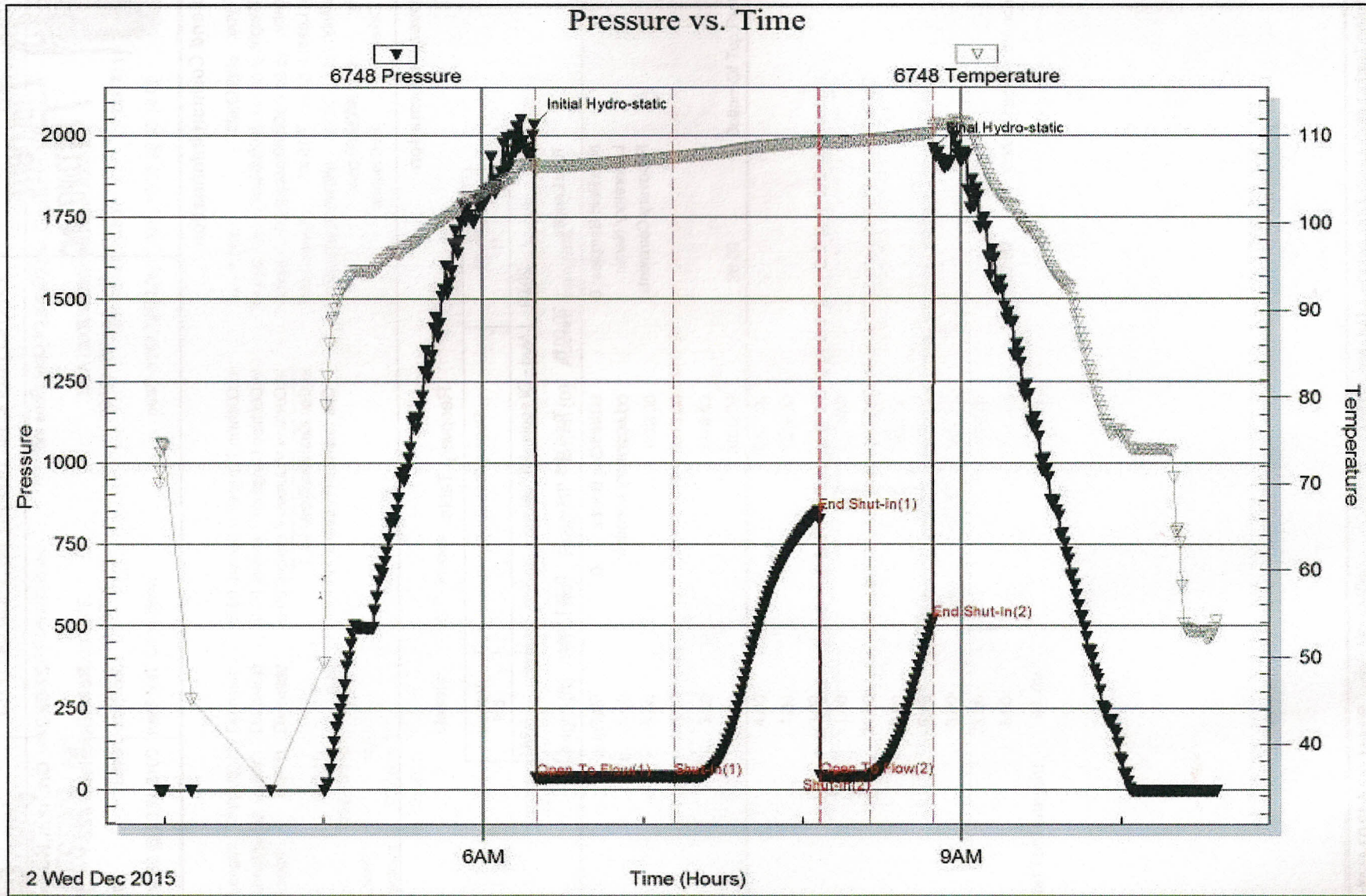
Ron Nickelson #22-1

DST Test Number: 2









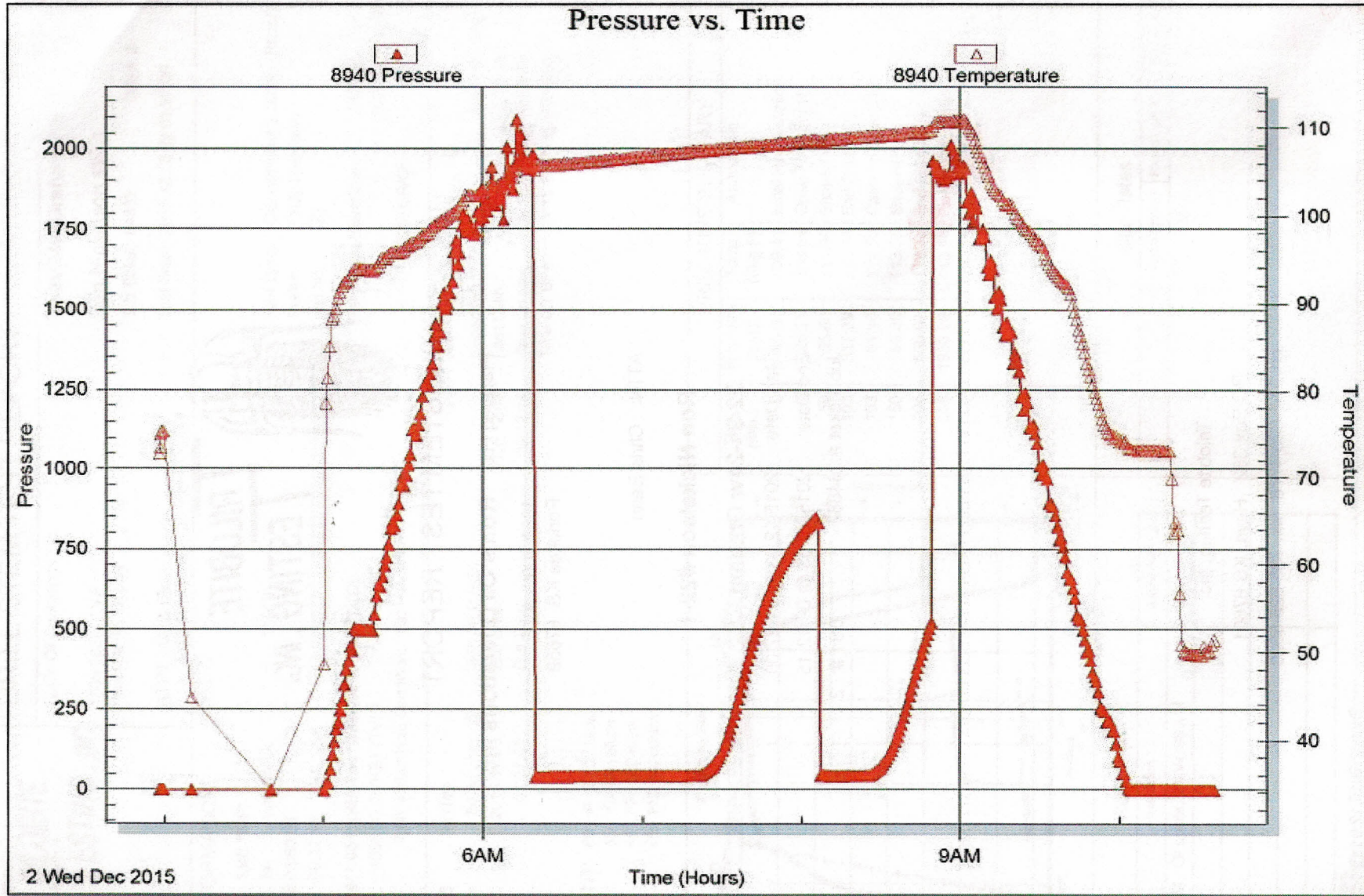
2 Wed Dec 2015

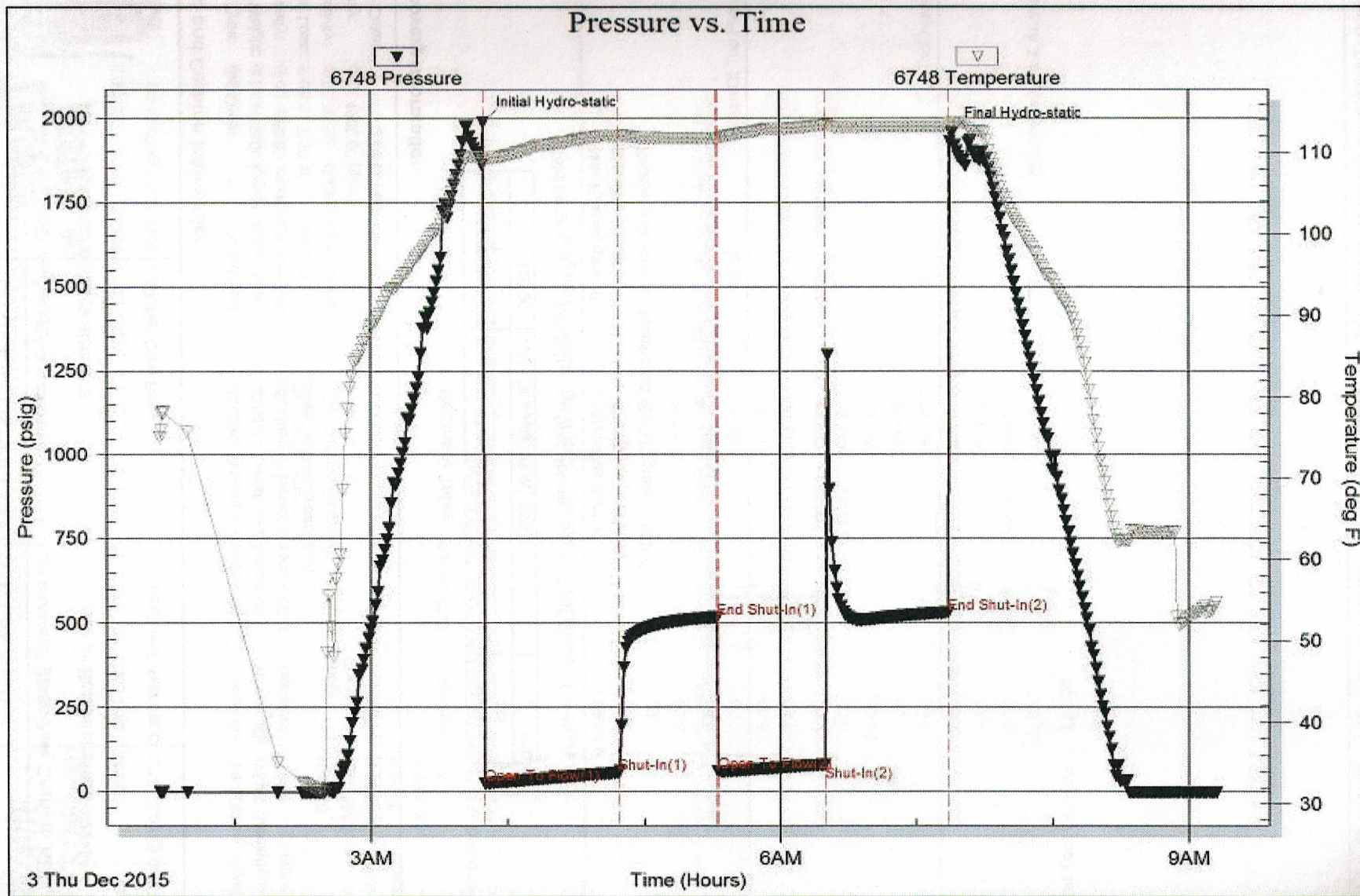
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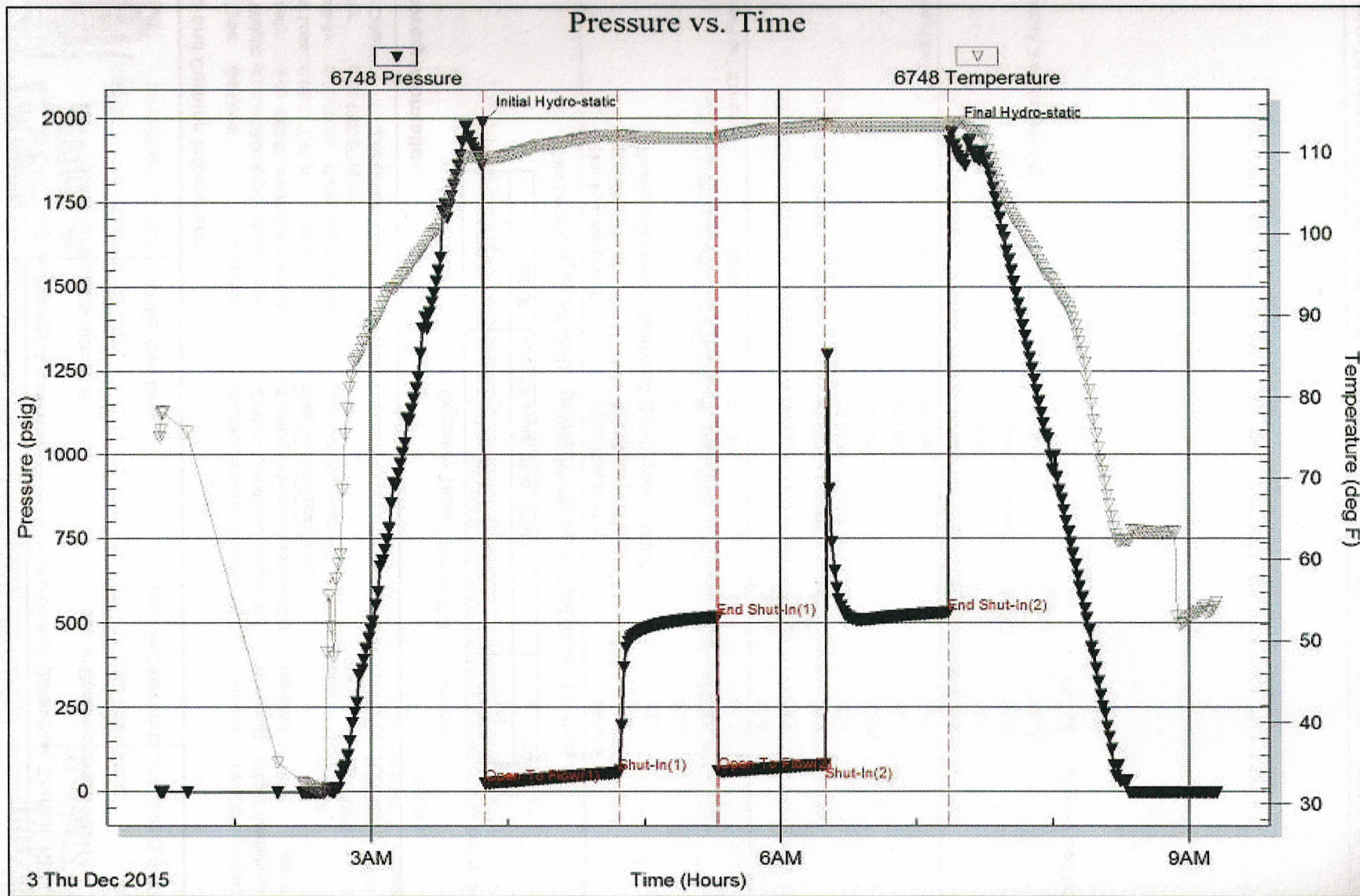
Outside Ron's Oil Operations Inc

Ron Nickelson #22-1

DST Test Number: 1







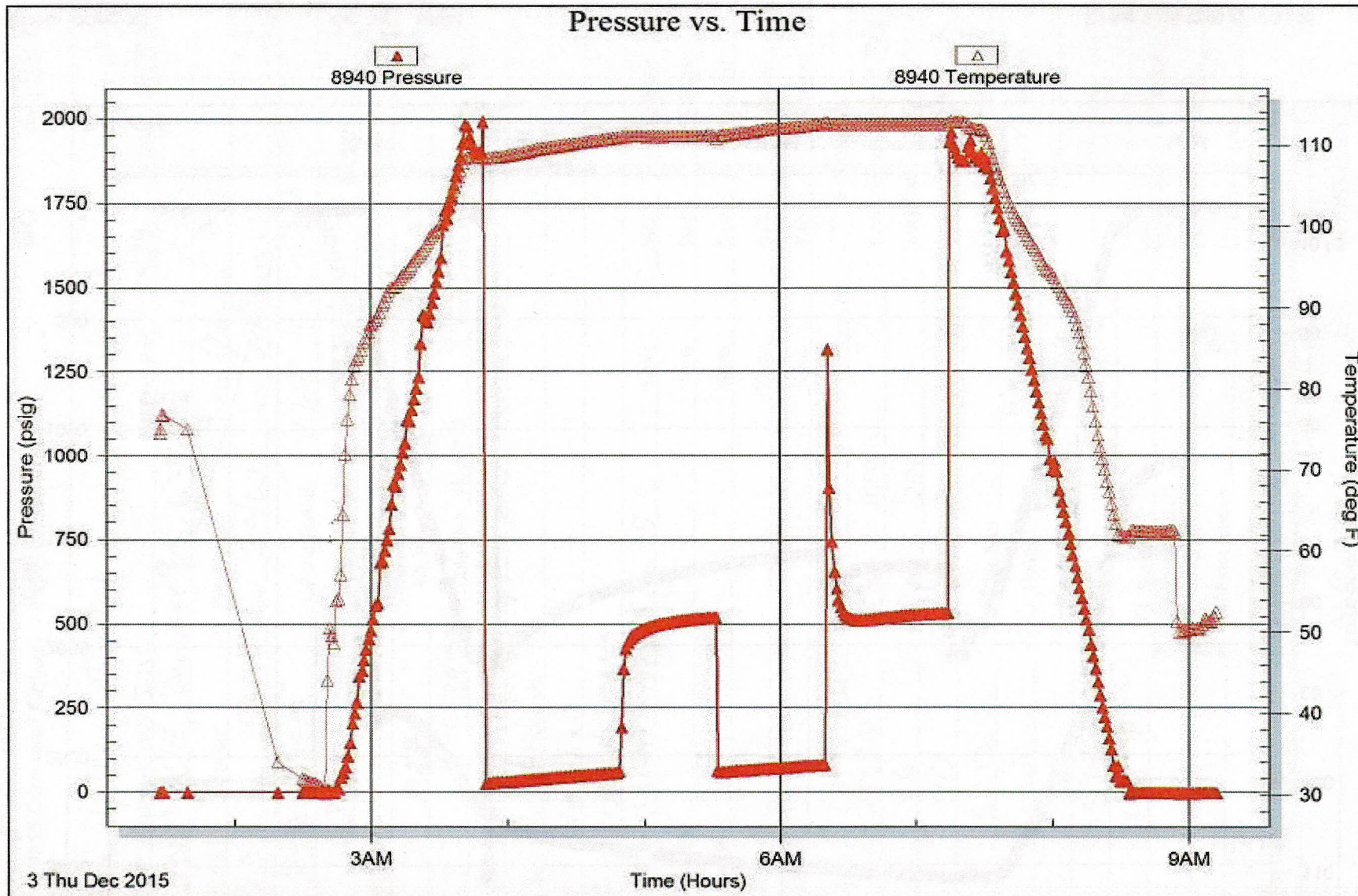
3

Serial #: 8940

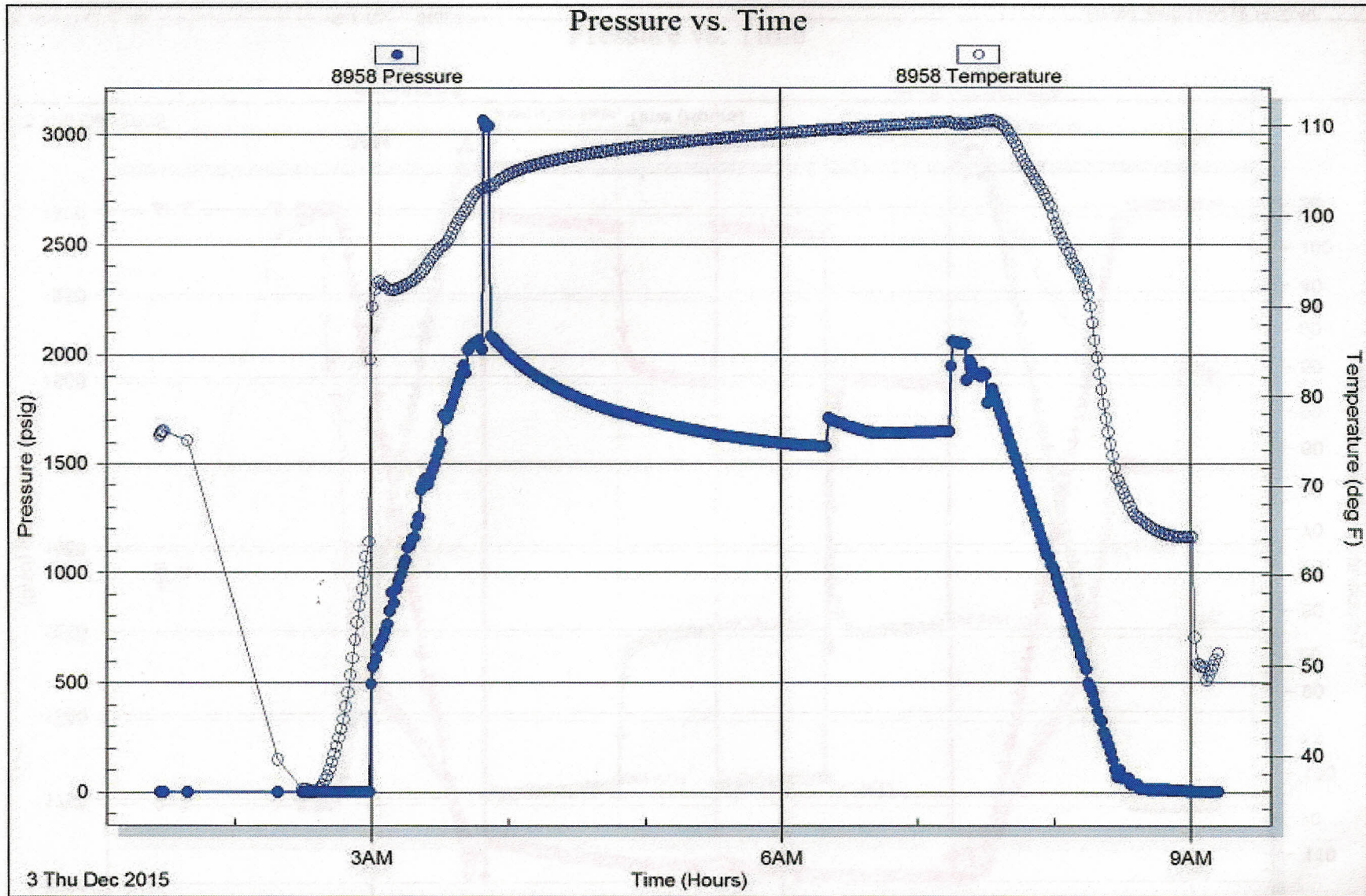
Outside Ron's Oil Operations Inc

Ron Nickelson #22-1

DST Test Number: 2







5



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64881

Well Name & No. Ron Nickelson #22-1 Test No. 1 Date 12-2-15  
 Company Ron's Oil Operations Inc Elevation 2439 KB 2433 GL  
 Address 1889 200<sup>th</sup> AVE, Penok KS. 67659  
 Co. Rep / Geo. Chris Bean Rig Royal #1  
 Location: Sec. 22 Twp. 9S Rge. 24W Co. Graham State KS

Interval Tested 3980<sup>2</sup>-3990 Zone Tested LKL "I,J,K"  
 Anchor Length 63' Drill Pipe Run 3928' Mud Wt. 9  
 Top Packer Depth 3928 Drill Collars Run — Vis 62  
 Bottom Packer Depth 3987 Wt. Pipe Run — WL 7.2  
 Total Depth 3990 Chlorides 4,000 ppm System LCM 2#

Blow Description IF - 1/2" dying off after 20 minutes  
ISI - No return  
FF - No blow  
FSF - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud-oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20' BHT 110° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2030</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0336</u>
(B) First Initial Flow <u>36</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0410</u>
(C) First Final Flow <u>40</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0617</u>
(D) Initial Shut-In <u>850</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0842</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1032</u>
(F) Second Final Flow <u>42</u>	<input checked="" type="checkbox"/> Mileage <u>119RT</u> <u>119</u>	Comments
(G) Final Shut-In <u>519</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1957</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>60</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>20</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>20</u>	<input type="checkbox"/> Day Standby	Total <u>1494</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1494</u>	

Approved By \_\_\_\_\_ Our Representative Cody Blaw

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64881**

Well Name & No. Ron Nickelson #22-1 Test No. 1 Date 12-2-15  
 Company Ron's Oil Operations Inc Elevation 2439 KB 2433 GL  
 Address 1889 200<sup>th</sup> AVE, Penokar KS. 67659  
 Co. Rep / Geo. Chris Bean Rig Royal #1  
 Location: Sec. 22 Twp. 9S Rge. 24W Co. Graham State KS

Interval Tested 3987-3990 Zone Tested LKC "I,J,K"  
 Anchor Length 63' Drill Pipe Run 3928' Mud Wt. 9  
 Top Packer Depth 3928 Drill Collars Run — Vis 62  
 Bottom Packer Depth 3987 Wt. Pipe Run — WL 7.2  
 Total Depth 3990 Chlorides 4,000 ppm System LCM 2#

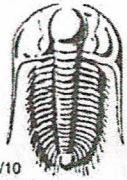
Blow Description IF - 1/2" dying off after 20 minutes  
ISI - No return  
FF - No blow  
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud - oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20' BHT 110° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2030</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0336</u>
(B) First Initial Flow <u>36</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0410</u>
(C) First Final Flow <u>40</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0617</u>
(D) Initial Shut-In <u>850</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0842</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1032</u>
(F) Second Final Flow <u>42</u>	<input checked="" type="checkbox"/> Mileage <u>119RT</u> <u>119</u>	Comments
(G) Final Shut-In <u>519</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1957</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>20</u>	<input type="checkbox"/> Day Standby	Total <u>1494</u>
Final Shut-In <u>20</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1494</u>	

Approved By \_\_\_\_\_ Our Representative Cody Blaw  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64882**

Well Name & No. Ron Nickelson #22-1 Test No. 2 Date 12-3-15  
 Company Ron's Oil Operations Inc Elevation 2449 KB 2443 GL  
 Address 1889 200th AVE, Penokee KS, 67659  
 Co. Rep / Geo. Chris Bean Rig Royal #1  
 Location: Sec. 22 Twp. 9S Rge. 24W Co. Graham State KS

Interval Tested 3864-3894 TD 4056 Zone Tested E-F  
 Anchor Length 30' 162' Drill Pipe Run 3868' Mud Wt. 9.0  
 Top Packer Depth 3859 Drill Collars Run — Vis 62  
 Bottom Packer Depth 3864 Wt. Pipe Run — WL 7.2  
 Total Depth 3894 Chlorides 4,000 ppm System LCM 2

Blow Description IF - 2 1/2" blow  
ISI - No return  
FF - 1/2" blow  
FST - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>129</u>	<u>WM - oil spots</u>		<u>2</u>	<u>98</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 129' BHT 113° Gravity — API RW .25 @ 50° F Chlorides 38,000 ppm

(A) Initial Hydrostatic <u>1985</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2300</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0127</u>
(C) First Final Flow <u>56</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0349</u>
(D) Initial Shut-In <u>517</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0705</u>
(E) Second Initial Flow <u>61</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0911</u>
(F) Second Final Flow <u>80</u>	<input checked="" type="checkbox"/> Mileage <u>119KT</u> <u>119 + 119</u>	Comments <u>2 packers on Top + Bt</u>
(G) Final Shut-In <u>530</u>	<input type="checkbox"/> Sampler	<u>Mileage for Dan Bangle</u>
(H) Final Hydrostatic <u>1953</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<u>- brought other packer</u>

Initial Open <u>60</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input checked="" type="checkbox"/> Extra Packer <u>200</u>	<input type="checkbox"/> Ruined Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>2513</u>
	Sub Total <u>2513</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative Cody Bloodorn  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.