

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 Recompletion Date \_\_\_\_\_ 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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Lebsack Oil Production Inc.
Well Name	NORTH RIVER 7
Doc ID	1337372

All Electric Logs Run

MICRO
ACRT
AHV
PROSITY

Form	ACO1 - Well Completion
Operator	Lebsack Oil Production Inc.
Well Name	NORTH RIVER 7
Doc ID	1337372

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3062-76		





# Joshua R. Austin

## Petroleum Geologist

report for



### Lebsack Oil Production, Inc.

COMPANY: LEBSACK OIL PRODUCTION INC.

LEASE: North River # 7

FIELD: GROVE

SURFACE LOCATION:

SEC: 27 TWSP: 20s RGE: 10w

COUNTY: RICE STATE: KANSAS

KB: 1733' GL: 1722'

API # 15-159-22838-00-00

CONTRACTOR: STERLING DRILLING COMPANY (Rig #4)

Spud: 02-03-2017

Comp: 02-09-2017

RTD: 3310'

LTD: 3312'

Mud Up: 2603'

Type Mud: Chemical was displaced

Samples Saved From: 2400' to RTD

Geological Supervision From: 2750'to RTD

Geologist on Well: Josh Austin

Surface Casing: 8 5/8" @ 275'

Production Casing: 5 1/2" @3408'

#### NOTES

On the basis of the positive structural position and after reviewing the electric logs, it was recommended by all parties involved in the North River #7 to run 5 1/2" production casing to further test the Lansing 'F' zone. If the Lansing zone is not productive, casing was set 60' into the Arbuckle to make a salt water disposal well.

## Lebsack Oil Production Inc. well comparison sheet

DRILLING WELL	COMPARISON WELL	COMPARISON WELL	COMPARISON WELL
North River 7	North River 1	North River 6	Grove #1



1733 KB					1729 KB				1729 KB				1724 KB			
					Structural Relationship				Structural Relationship				Structural Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Howard	2446	-713	2447	-714	2448	-719	6	5	2443	-714	1	0	2441	-717	4	3
Topeka	2545	-812	2546	-813	2546	-817	5	4	2544	-815	3	2	2538	-814	2	1
Heebner	2830	-1097	2828	-1095	2830	-1101	4	6	2830	-1101	4	6	2820	-1096	-1	1
Douglas	2854	-1121	2853	-1120	2853	-1124	3	4	2853	-1124	3	4	2846	-1122	1	2
Brown Lime	2965	-1232	2965	-1232	2965	-1236	4	4	2966	-1237	5	5	2954	-1230	-2	-2
Lansing	2978	-1245	2978	-1245	2988	-1259	14	14	2982	-1253	8	8	2976	-1252	7	7
"F" Zone	3060	-1327	3060	-1327									3052	-1328	1	1
Viola	3254	-1521	3257	-1524									3252	-1528	7	4
Simpson Sand	3301	-1568	N/A	N/A									3295	-1571	3	N/A
Arbuckle	3346	-1613	N/A	N/A									3341	-1617	4	N/A
Total Depth	3410	-1677			3137	-1408			3249	-1520			3362	-1638		



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Lebsack Oil Production Inc.

**27/20S/10W/Rice**

PO Box 354  
Chase Kansas 67524

**North River #7**

Job Ticket: 63699

**DST#: 1**

ATTN: Josh Austin

Test Start: 2017.02.07 @ 05:12:00

### GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:04:00

Time Test Ended: 12:13:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/50

Interval: **3056.00 ft (KB) To 3076.00 ft (KB) (TVD)**

Total Depth: 3076.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1733.00 ft (KB)

1722.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8521**

**Inside**

Press@RunDepth: 58.92 psig @ 3072.00 ft (KB)

Start Date: 2017.02.07 End Date: 2017.02.07

Start Time: 05:12:05 End Time: 12:12:59

Capacity: 8000.00 psig

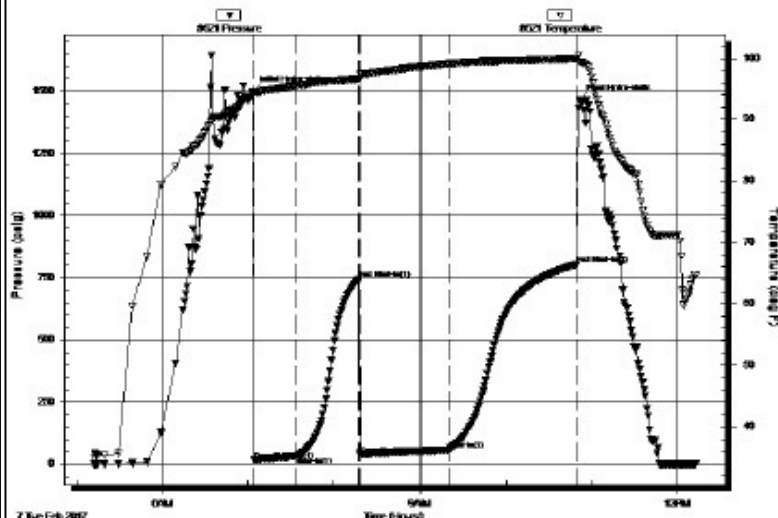
Last Calib.: 2017.02.07

Time On Btn: 2017.02.07 @ 07:03:30

Time Off Btn: 2017.02.07 @ 10:51:30

TEST COMMENT: I.F. 30 Minutes/Blow built to 5 inches  
 I.S.I. 45 Minutes/No blow back  
 F.F. 60 Minutes/Blow built to 7 inches  
 F.S.I. 90 Minutes/No blow back

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1500.29	94.61	Initial Hydro-static
1	17.13	94.45	Open To Flow (1)
31	32.05	95.58	Shut-In(1)
74	744.10	96.60	End Shut-In(1)
76	38.27	97.30	Open To Flow (2)
136	58.92	99.11	Shut-In(2)
226	804.12	99.91	End Shut-In(2)
228	1466.32	99.46	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)

### Gas Rates

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

90.00	Oil spotted Muddy Water	0.44
0.00	Mud 45% Water 55%	0.00
0.00	157 feet of gas in pipe	0.00



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Lebsack Oil Production Inc.

**27/20S/10W/Rice**

PO Box 354  
Chase Kansas 67524

**North River #7**

Job Ticket: 63700

**DST#: 2**

ATTN: Josh Austin

Test Start: 2017.02.08 @ 05:17:00

### GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:58:30

Time Test Ended: 10:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/50

Interval: **3270.00 ft (KB) To 3310.00 ft (KB) (TVD)**

Total Depth: 3310.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1733.00 ft (KB)

1722.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8521**

**Inside**

Press@RunDepth: 224.28 psig @ 3306.00 ft (KB)

Start Date: 2017.02.08

End Date: 2017.02.08

Start Time: 05:17:05

End Time: 10:36:29

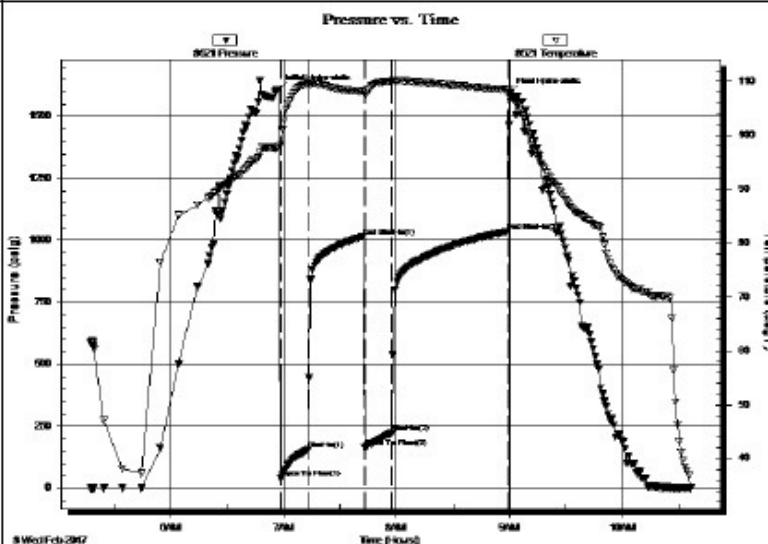
Capacity: 8000.00 psig

Last Calib.: 2017.02.08

Time On Btn: 2017.02.08 @ 06:57:30

Time Off Btn: 2017.02.08 @ 09:00:00

TEST COMMENT: I.F. 15 Minutes/Blow built to BOB in 6 minutes  
 I.S.I. 30 Minutes/Surface blow back  
 F.F. 15 Minutes/Blow built to BOB in 7 minutes 30 seconds  
 F.S.I. 60 Minutes/No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1609.29	97.90	Initial Hydro-static
1	41.24	98.13	Open To Flow (1)
16	156.39	109.49	Shut-In(1)
45	1015.85	108.04	End Shut-In(1)
46	163.12	107.60	Open To Flow (2)
61	224.28	109.99	Shut-In(2)
121	1035.35	108.39	End Shut-In(2)
123	1594.17	107.05	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
472.00	Muddy Water/ Mud 10% Water 90%	4.66

### Gas Rates

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




**ROCK TYPES**

Cht	Lmst fw7>	shale, gry	shale, red	Siltst
Dolsec	shale, grn	Carbon Sh	Ss	

**ACCESSORIES**

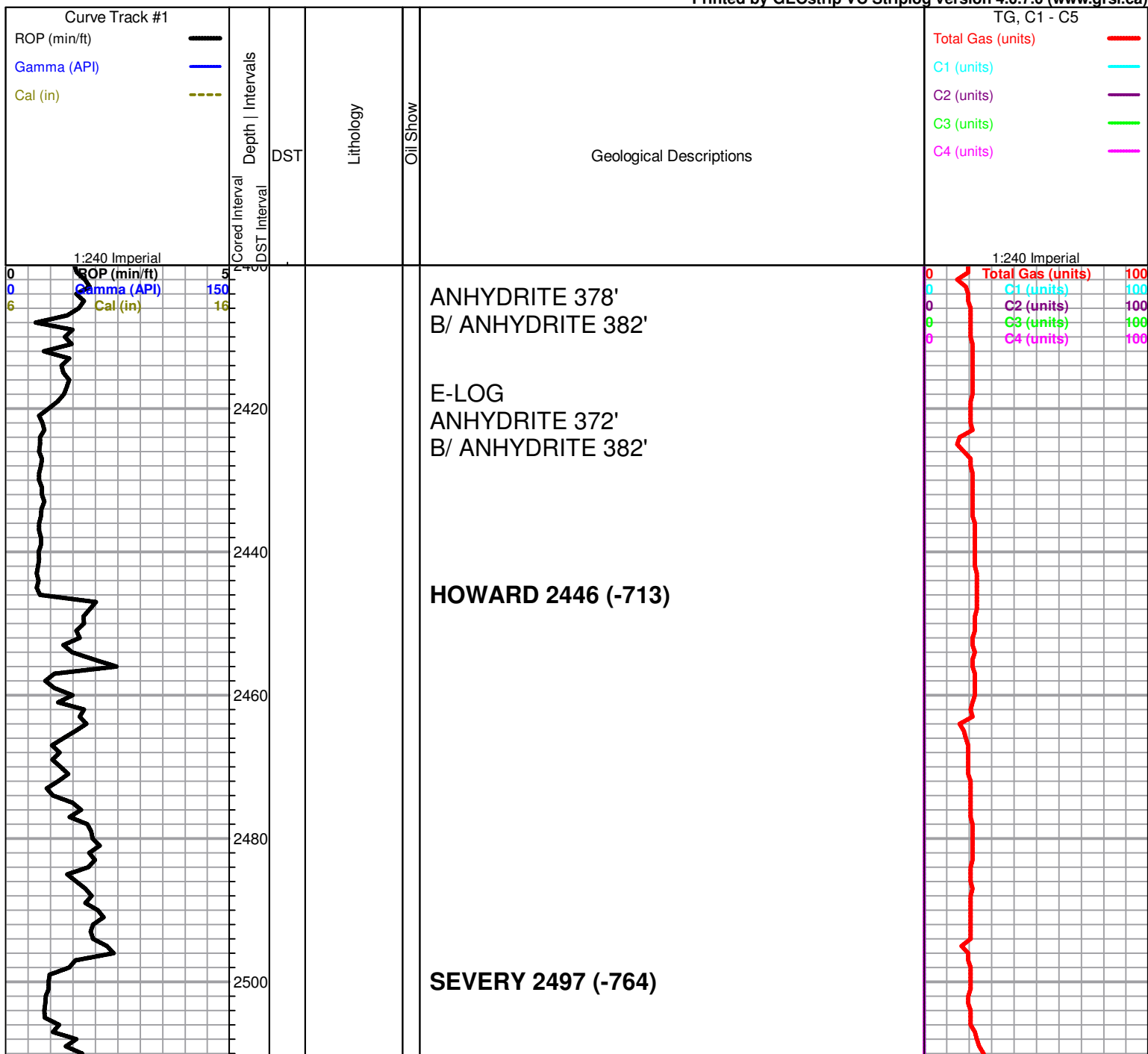
<b>MINERAL</b>	<b>FOSSIL</b>
△ Chert White	🗿 Oomoldic

**OTHER SYMBOLS**

**DST**

	DST Int
	DST alt
	Core
	tail pipe

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

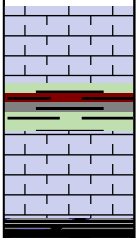


TOPEKA 2545 (-812)

2520  
2540  
2560  
2580  
2600  
2620  
2640  
2660  
2680  
2700  
2720

ROP (min/ft) 5  
Gamma (API) 150  
Cal (in) 16

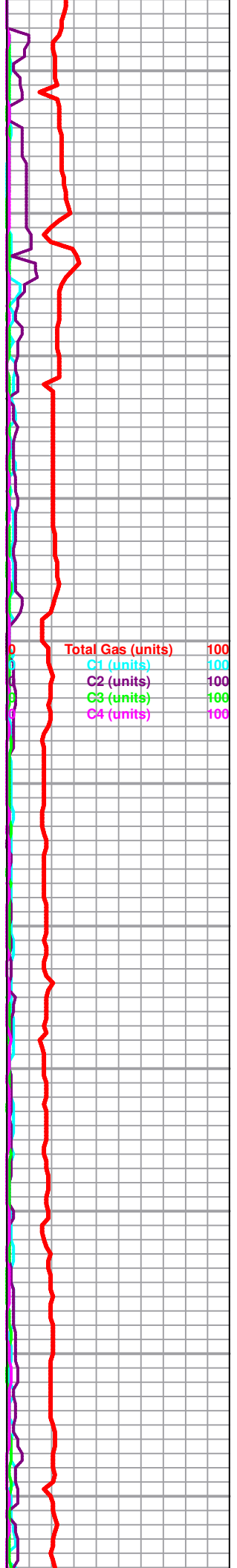
0  
0  
6

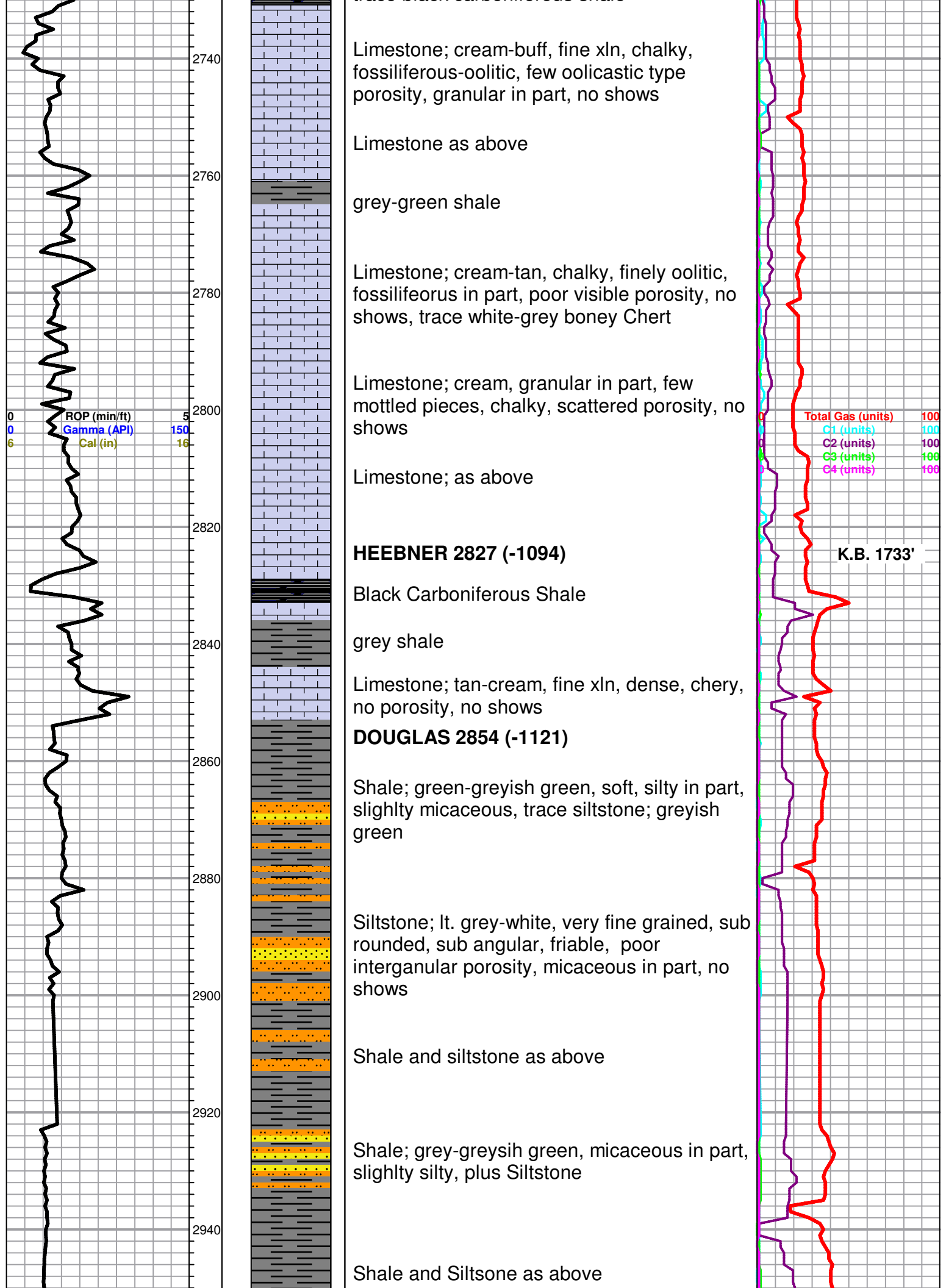


trace black carboniferous shale

Total Gas (units) 100  
C1 (units) 100  
C2 (units) 100  
C3 (units) 100  
C4 (units) 100

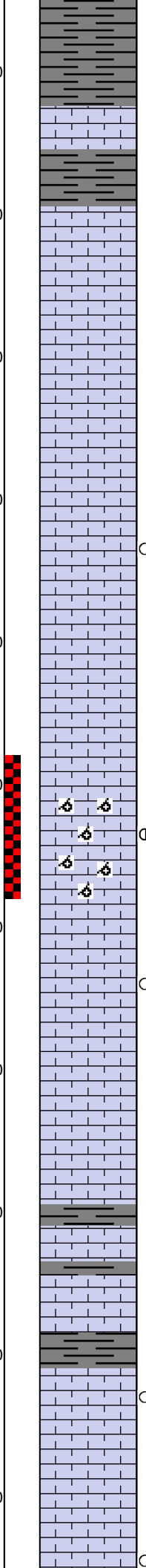
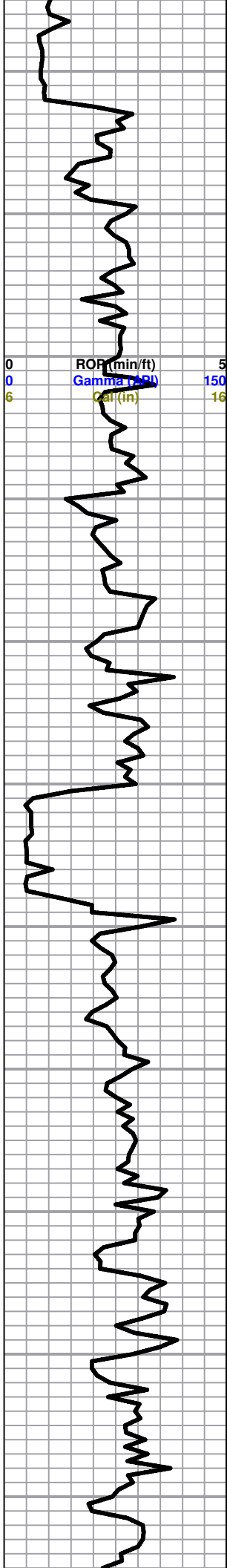
0  
0  
6





2960  
2980  
3000  
3020  
3040  
3060  
3080  
3100  
3120  
3140  
3160

ROP (min/ft) 5  
Gamma (API) 150  
Cal (in) 16



**BROWN LIME 2965 (-1232)**

Limestone; buff-grey, fine xln, fossiliferous, cherty, dense

**LANSING 2978 (-1245)**

Limestone; cream, buff-tan, highly oolitic in part, poor porosity, no shows

Limestone; cream-tan, fine xln, chalky in part, fossiliferous-oolitic, fair oolitic porosity, no shows

Limestone; cream-buff, fine xln, dense in part, fossiliferous, poor visible porosity, no shows

Limestone; grey-cream, fine xln, oolitic, dense in part, fair vuggy-oolitic porosity, lt brown stain, slight SFO, faint-fair odor

Limestone; cream-lt. grey, fine xln, chalky, dense, no shows

Limestone; as above, trace oolitic porosity, brown stain, trace free oil

**'F' ZONE 3060 (-1327)**

Limestone; cream-tan, oolitic, fair oomoldic porosity, brown stain, spotty SFO, fair-good odor (600 unit gas kick)

Limestone; cream, fine xln, finely oolitic, chalky in part, poor visible porosity, trace spotty brown stain, spotty SFO, faint odor

Limestone; buff-cream, fine xln, dense, poor porosity,

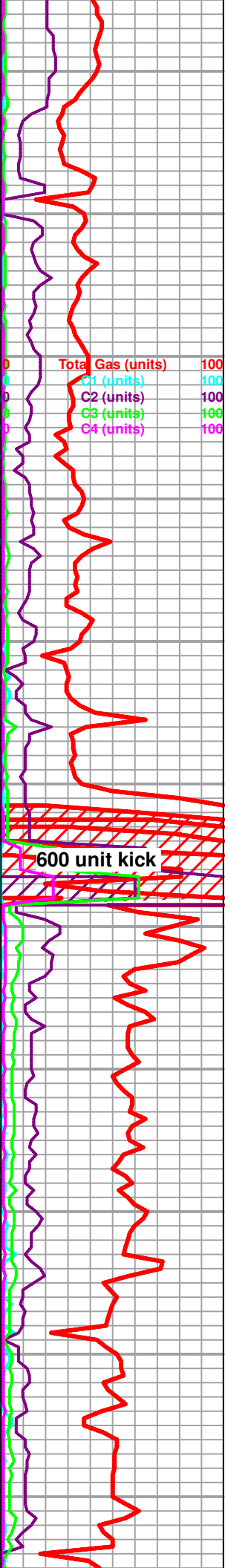
Limestone; cream-lt. grey, fine xln, chalky, dense, few fossiliferous/oolitic pieces, cherty in part, no visible porosity, no shows, plus white chalk

Shale; grey-black

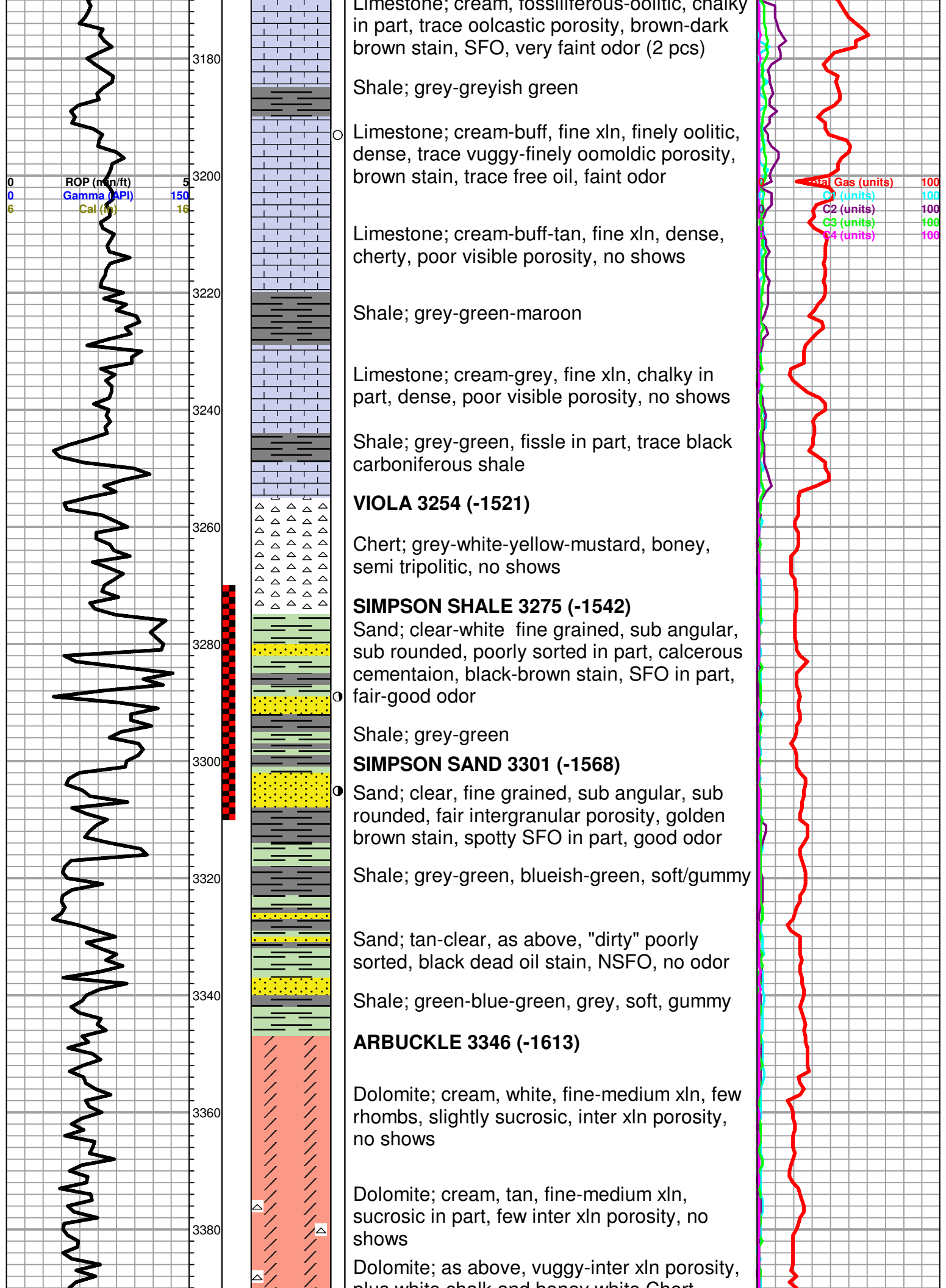
Limestone; cream-white-lt. grey, fine xln, chalky, slightly fossiliferous, trace black "dead oil" staining, NSFO, no odor

Limestone; cream-white, chalky, fossiliferous in part, poorly developed porosity, no shows

Total Gas (units) 100  
C1 (units) 100  
C2 (units) 100  
C3 (units) 100  
C4 (units) 100

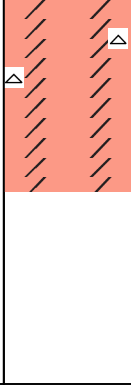
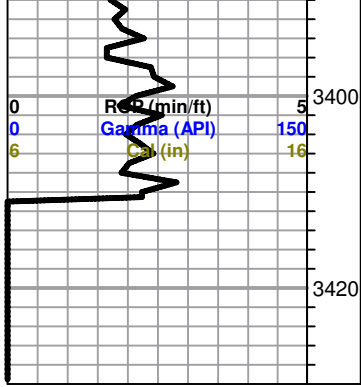


600 unit kick



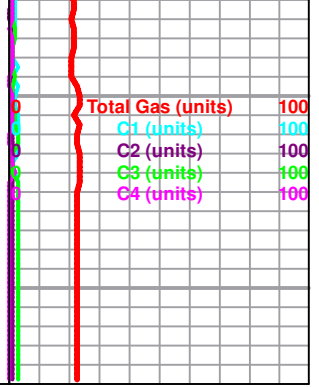


plus white crack and bone white chert



Dolomite; cream, tan, fine-medium xln, inter xln porosity, plus FeS2, no shows

**ROTARY TOTAL DEPTH 3410 (-1677)**





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Lebsack Oil Production Inc.

**27/20S/10W/Rice**

PO Box 354  
Chase Kansas 67524

**North River #7**

Job Ticket: 63699

**DST#: 1**

ATTN: Josh Austin

Test Start: 2017.02.07 @ 05:12:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:04:00

Time Test Ended: 12:13:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/50

**Interval: 3056.00 ft (KB) To 3076.00 ft (KB) (TVD)**

Reference Elevations: 1733.00 ft (KB)

Total Depth: 3076.00 ft (KB) (TVD)

1722.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 8521**

**Inside**

Press@RunDepth: 58.92 psig @ 3072.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.07

End Date:

2017.02.07

Last Calib.:

2017.02.07

Start Time: 05:12:05

End Time:

12:12:59

Time On Btm:

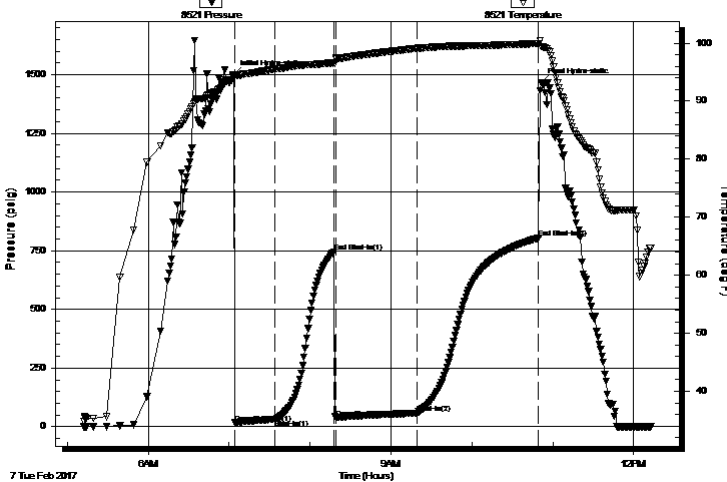
2017.02.07 @ 07:03:30

Time Off Btm:

2017.02.07 @ 10:51:30

**TEST COMMENT:** I.F. 30 Minutes/Blow built to 5 inches  
I.S.I. 45 Minutes/No blow back  
F.F. 60 Minutes/Blow built to 7 inches  
F.S.I. 90 Minutes/No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1500.29	94.61	Initial Hydro-static
1	17.13	94.45	Open To Flow (1)
31	32.05	95.58	Shut-In(1)
74	744.10	96.60	End Shut-In(1)
76	38.27	97.30	Open To Flow (2)
136	58.92	99.11	Shut-In(2)
226	804.12	99.91	End Shut-In(2)
228	1466.32	99.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Oil spotted Muddy Water	0.44
0.00	Mud 45% Water 55%	0.00
0.00	157 feet of gas in pipe	0.00

Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Lebsack Oil Production Inc.

**27/20S/10W/Rice**

PO Box 354  
Chase Kansas 67524

**North River #7**

Job Ticket: 63699

**DST#: 1**

ATTN: Josh Austin

Test Start: 2017.02.07 @ 05:12:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:04:00

Time Test Ended: 12:13:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/50

**Interval: 3056.00 ft (KB) To 3076.00 ft (KB) (TVD)**

Reference Elevations: 1733.00 ft (KB)

Total Depth: 3076.00 ft (KB) (TVD)

1722.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 8960 Outside**

Press@RunDepth: 802.28 psig @ 3073.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.07 End Date: 2017.02.07

Last Calib.: 2017.02.07

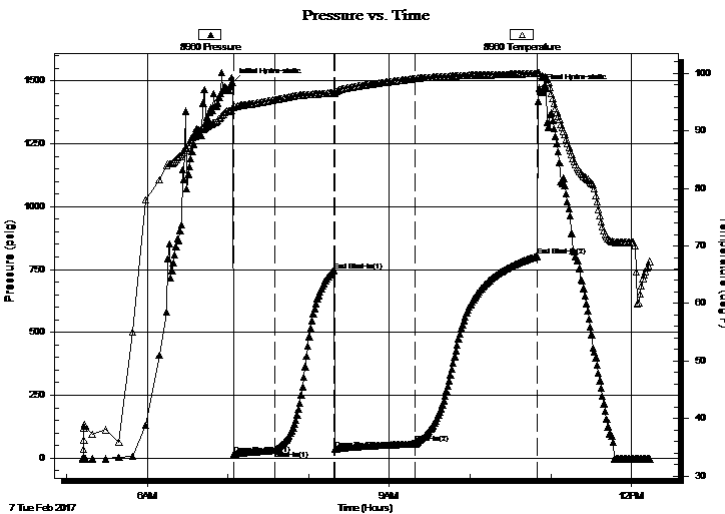
Start Time: 05:12:05 End Time: 12:13:29

Time On Btm: 2017.02.07 @ 07:03:30

Time Off Btm: 2017.02.07 @ 10:51:30

**TEST COMMENT:** I.F. 30 Minutes/Blow built to 5 inches  
I.S.I. 45 Minutes/No blow back  
F.F. 60 Minutes/Blow built to 7 inches  
F.S.I. 90 Minutes/No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1494.16	94.13	Initial Hydro-static
1	14.82	94.10	Open To Flow (1)
31	30.41	95.41	Shut-In(1)
75	746.32	96.64	End Shut-In(1)
76	36.77	96.59	Open To Flow (2)
136	57.18	99.12	Shut-In(2)
227	802.28	99.99	End Shut-In(2)
228	1470.33	100.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	Oil spotted Muddy Water	0.44
0.00	Mud 45% Water 55%	0.00
0.00	157 feet of gas in pipe	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Lebsack Oil Production Inc.

**27/20S/10W/Rice**

PO Box 354  
Chase Kansas 67524

**North River #7**

Job Ticket: 63699

**DST#: 1**

ATTN: Josh Austin

Test Start: 2017.02.07 @ 05:12:00

### 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:

25000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Oil spotted Muddy Water	0.443
0.00	Mud 45% Water 55%	0.000
0.00	157 feet of gas in pipe	0.000

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .335 ohms @ 65 deg

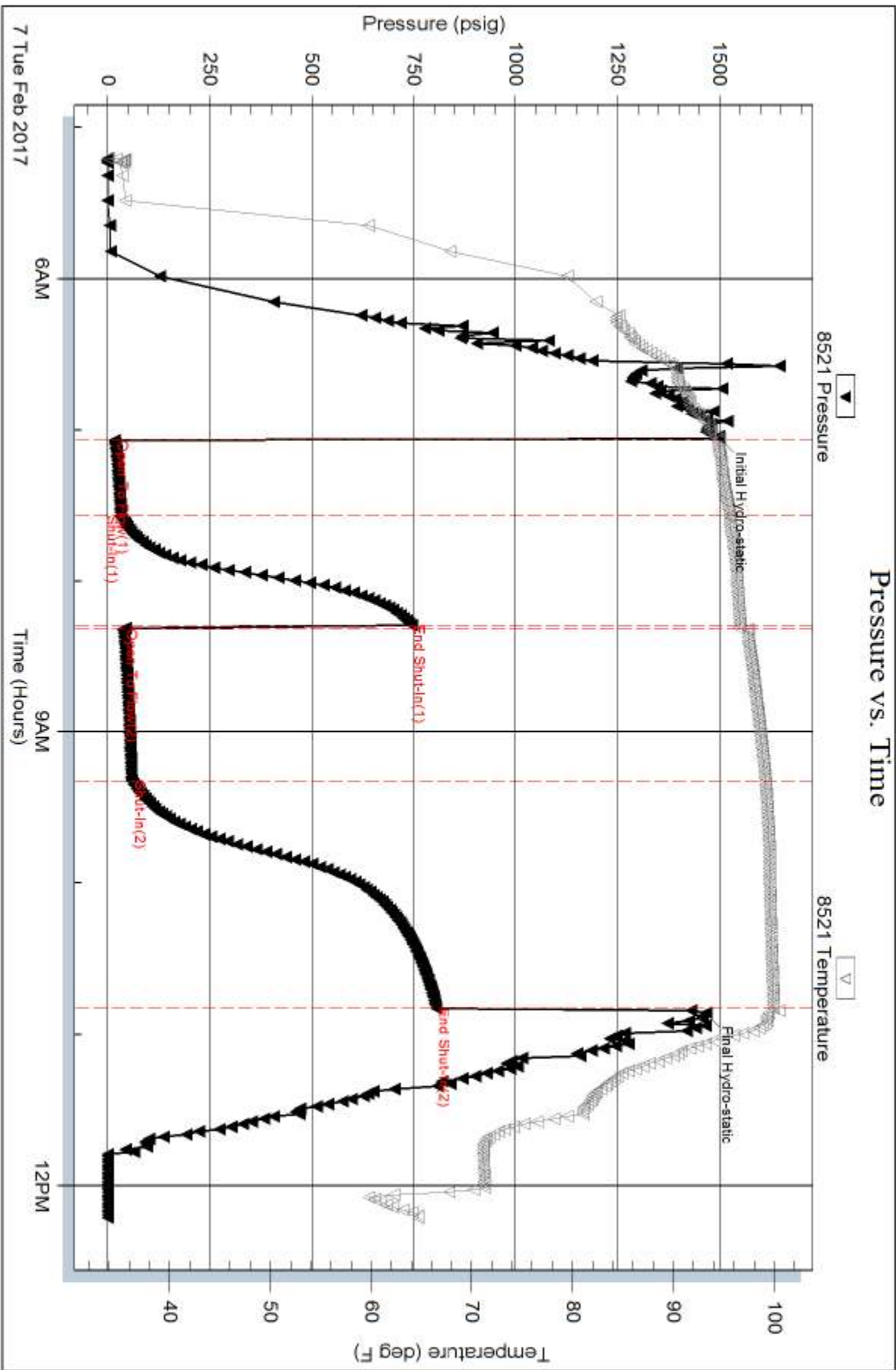
Serial #: 8521

Inside

Lebsack Oil Production Inc.

North River #7

DST Test Number: 1



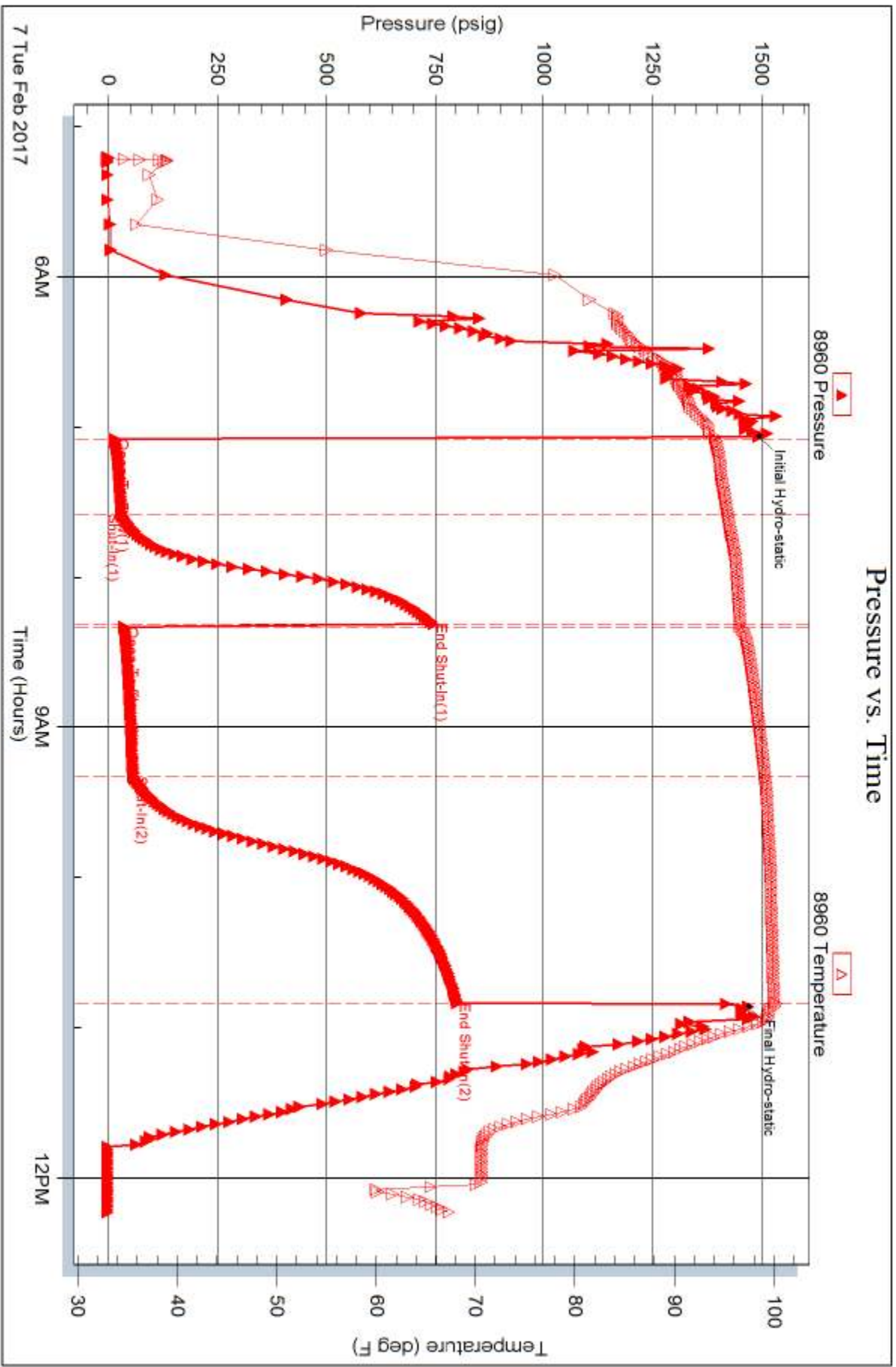


Serial #: 8960

Outside Lebsack Oil Production Inc.

North River #7

DST Test Number: 1





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Lebsack Oil Production Inc.

**27/20S/10W/Rice**

PO Box 354  
Chase Kansas 67524

**North River #7**

Job Ticket: 63700

**DST#: 2**

ATTN: Josh Austin

Test Start: 2017.02.08 @ 05:17:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:58:30

Time Test Ended: 10:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/50

**Interval: 3270.00 ft (KB) To 3310.00 ft (KB) (TVD)**

Reference Elevations: 1733.00 ft (KB)

Total Depth: 3310.00 ft (KB) (TVD)

1722.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 8521**

**Inside**

Press@RunDepth: 224.28 psig @ 3306.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.08

End Date: 2017.02.08

Last Calib.: 2017.02.08

Start Time: 05:17:05

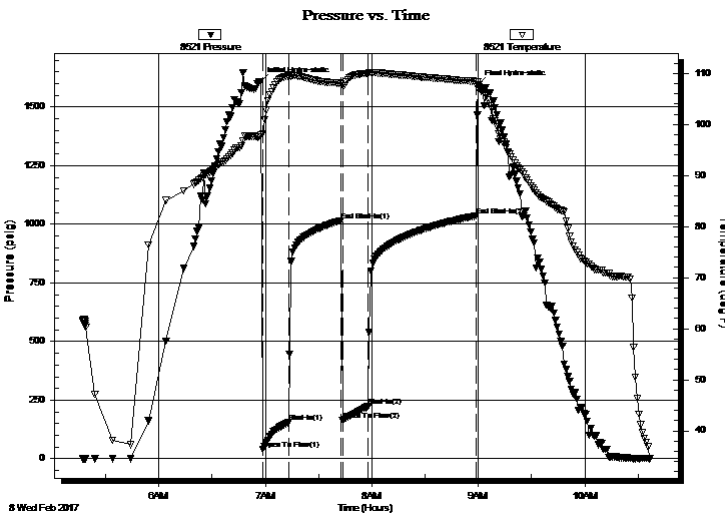
End Time: 10:36:29

Time On Btm: 2017.02.08 @ 06:57:30

Time Off Btm: 2017.02.08 @ 09:00:00

**TEST COMMENT:** I.F. 15 Minutes/Blow built to BOB in 6 minutes  
I.S.I. 30 Minutes/Surface blow back  
F.F. 15 Minutes/Blow built to BOB in 7 minutes 30 seconds  
F.S.I. 60 Minutes/No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1609.29	97.90	Initial Hydro-static
1	41.24	98.13	Open To Flow (1)
16	156.39	109.49	Shut-In(1)
45	1015.85	108.04	End Shut-In(1)
46	163.12	107.60	Open To Flow (2)
61	224.28	109.99	Shut-In(2)
121	1035.35	108.39	End Shut-In(2)
123	1594.17	107.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
472.00	Muddy Water/ Mud 10% Water 90%	4.66

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Lebsack Oil Production Inc.

**27/20S/10W/Rice**

PO Box 354  
Chase Kansas 67524

**North River #7**

Job Ticket: 63700

**DST#: 2**

ATTN: Josh Austin

Test Start: 2017.02.08 @ 05:17:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:58:30

Time Test Ended: 10:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/50

**Interval: 3270.00 ft (KB) To 3310.00 ft (KB) (TVD)**

Reference Elevations: 1733.00 ft (KB)

Total Depth: 3310.00 ft (KB) (TVD)

1722.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 8960 Outside**

Press@RunDepth: 1033.12 psig @ 3307.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.08 End Date: 2017.02.08

Last Calib.: 2017.02.08

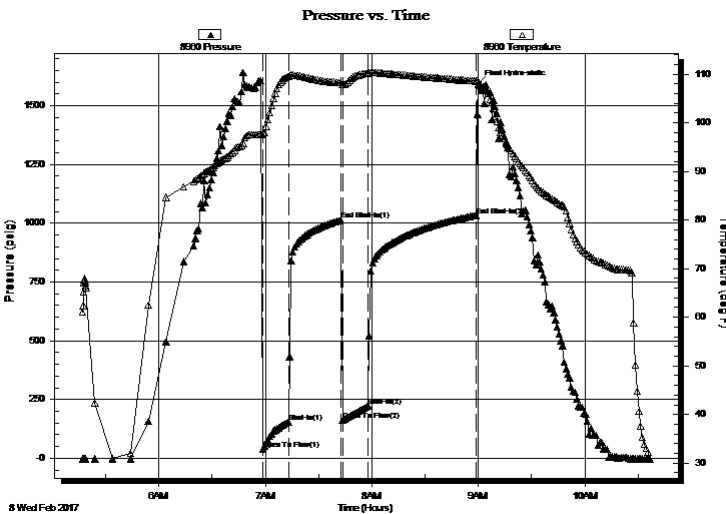
Start Time: 05:17:05 End Time: 10:36:29

Time On Btm:

Time Off Btm: 2017.02.08 @ 09:00:00

**TEST COMMENT:** I.F. 15 Minutes/Blow built to BOB in 6 minutes  
I.S.I. 30 Minutes/Surface blow back  
F.F. 15 Minutes/Blow built to BOB in 7 minutes 30 seconds  
F.S.I. 60 Minutes/No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	40.30	97.53	Open To Flow (1)
15	154.69	109.50	Shut-In(1)
44	1013.65	108.23	End Shut-In(1)
45	161.16	107.92	Open To Flow (2)
60	222.38	110.15	Shut-In(2)
120	1033.12	108.61	End Shut-In(2)
122	1591.76	108.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
472.00	Muddy Water/ Mud 10% Water 90%	4.66

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lebsack Oil Production Inc.

**27/20S/10W/Rice**

PO Box 354  
Chase Kansas 67524

**North River #7**

Job Ticket: 63700

**DST#: 2**

ATTN: Josh Austin

Test Start: 2017.02.08 @ 05:17:00

## 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:

20000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
472.00	Muddy Water/ Mud 10% Water 90%	4.662

Total Length: 472.00 ft      Total Volume: 4.662 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

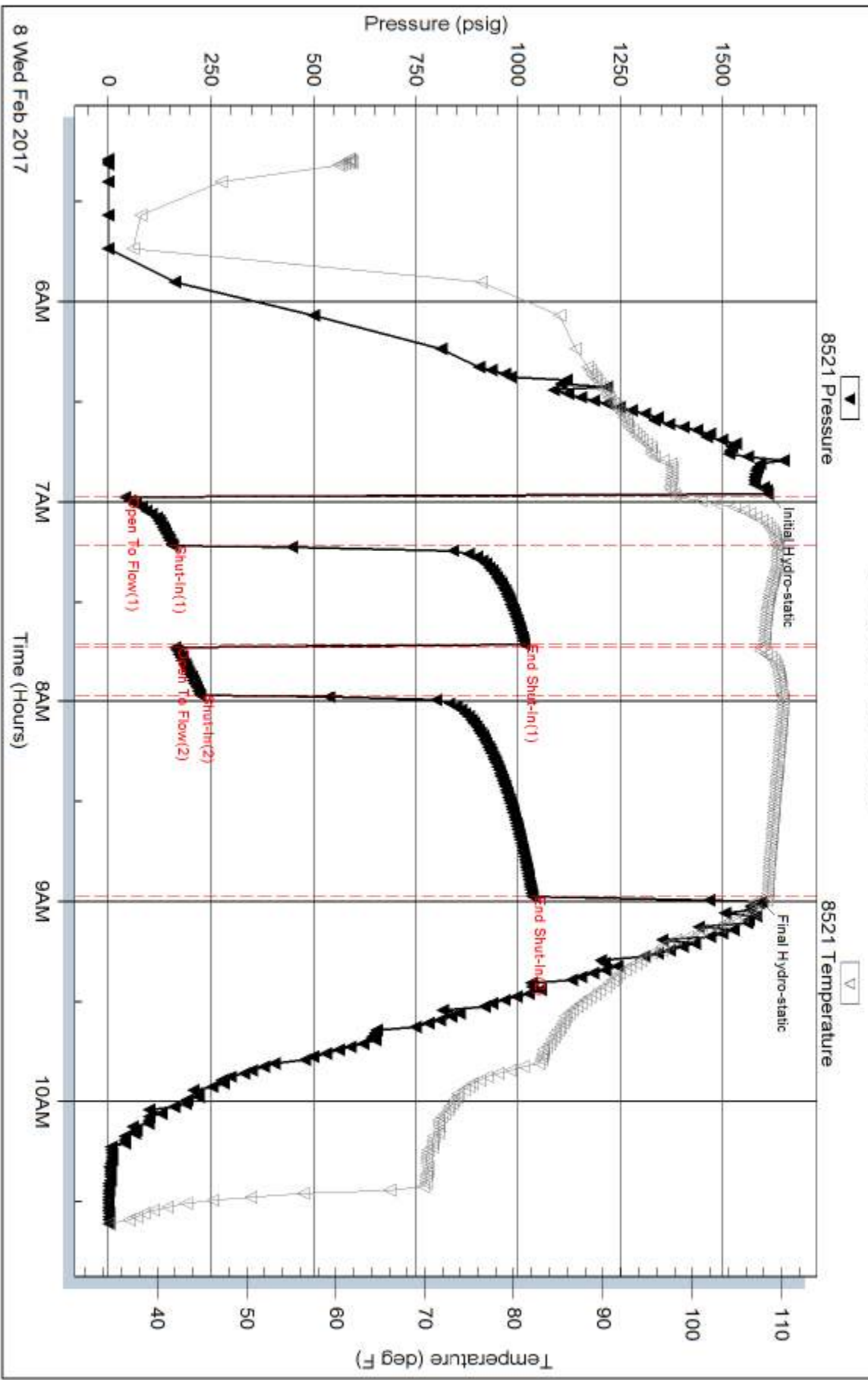
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .57 ohms @ 38 deg

### Pressure vs. Time



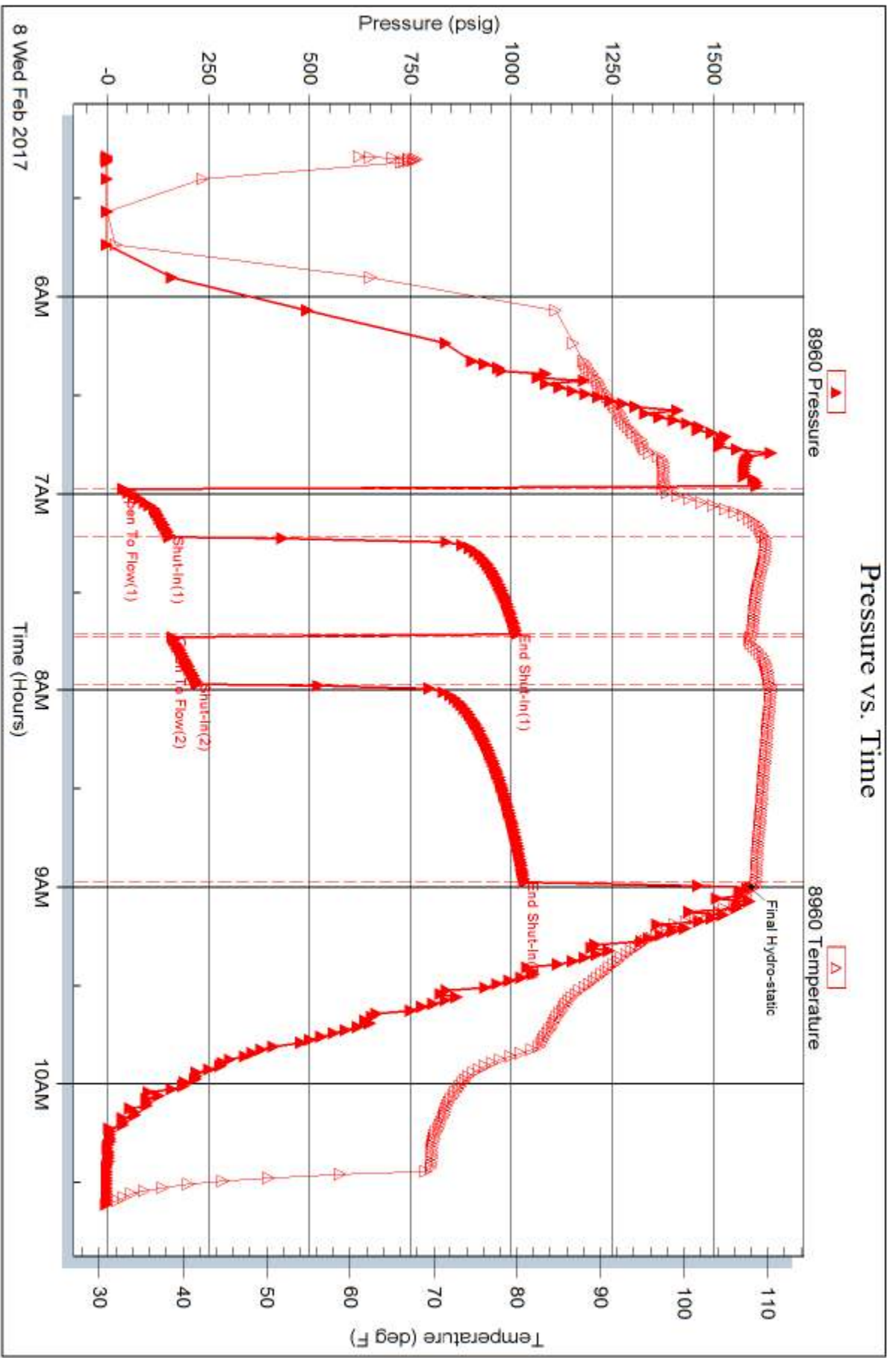


Serial #: 8960

Outside Lebsack Oil Production Inc.

North River #7

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 63700

Printed: 2017.02.08 @ 12:34:42

Customer <i>Chassee Oil Production, Inc</i>	Lease No.	Date <i>2/4/2017</i>
Lease <i>North River</i>	Well # <i>7</i>	
Field Order # <i>14739</i>	Station	Casing <i>8 5/8</i>
		Depth <i>275</i>
Type Job <i>242/8 5/8 SURFACE</i>	Formation <i>TD-250</i>	Legal Description <i>34-205-100</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<i>8 5/8</i>		From	To	Pre Pad		Max		5 Min.
Depth <i>275</i>	Depth	From	To	Pad		Min		10 Min.
Volume <i>17.5</i>	Volume	From	To	Frac		Avg		15 Min.
Max Press	Max Press	From	To			HHP Used		Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush <i>Freshwater</i>		Gas Volume		Total Load
Plug Depth <i>235</i>	Packer Depth	From	To					

Customer Representative *Lanny Selass* Station Manager *David Scott* Treater *Darin Franklin*

Service Units	<i>9291</i>	<i>84981</i>	<i>19843</i>	<i>84980</i>	<i>19860</i>				
Driver James	<i>Darin</i>	<i>McGrew</i>	<i>McGrew</i>	<i>Shawn</i>	<i>Shawn</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1:00 AM</i>					<i>ON location / Safety Meeting</i>
					<i>8 5/8 casing set 9+ 275'</i>
					<i>250 SK 60/40 P02, 3% Calcium Chloride, 2% Gel</i>
					<i>14.4 ppg, 1.28 vella, 5.73 wgr</i>
<i>1:50 AM</i>					<i>Pipe on bottom &amp; break circulation</i>
<i>2:00 PM</i>	<i>400</i>		<i>3</i>	<i>6</i>	<i>Pump 3 bbls water</i>
	<i>400</i>		<i>57</i>	<i>6</i>	<i>mix 250 sk cement</i>
					<i>Shut down</i>
					<i>Reverse Plus</i>
	<i>100</i>		<i>16</i>	<i>3</i>	<i>Displace</i>
<i>2:30 PM</i>					<i>shut in</i>
					<i>Cement die circulate - 10 bbls</i>
					<i>Job Complete / Darin &amp; Crew Thank you!!</i>

Customer <b>Leosack Oil Production</b>		Lease No.		Date <b>2/9/2017</b>	
Lease <b>North River</b>		Well # <b>7</b>			
Field Order # <b>14743</b>	Station <b>Pratt, KS</b>	Casing <b>5 1/2</b>	Depth <b>3408</b>	County <b>Rice</b>	State <b>KS</b>
Type Job <b>242/5 1/2 Long String</b>			Formation	Legal Description <b>34-20-10</b>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<b>5 1/2</b>							5 Min.
Depth <b>3408</b>	Depth	From	To	Pre Pad	Max		10 Min.
Volume <b>83</b>	Volume	From	To	Pad	Min		15 Min.
Max Press	Max Press	From	To	Frac	Avg		
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <b>3586</b>	Packer Depth	From	To	Flush <b>Freshwater</b>	Gas Volume		Total Load

Customer Representative <b>Lanny Seloss</b>	Station Manager <b>David Scott</b>	Treater <b>Darin Franklin</b>
--	---------------------------------------	----------------------------------

Service Units	<b>92911</b>	<b>84981</b>	<b>19843</b>	<b>84080</b>	<b>19860</b>				
Driver Names	<b>Darin</b>	<b>McGrew</b>	<b>McGrew</b>	<b>Shawn</b>	<b>Shawn</b>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>4:00pm</b>					<b>On Location / Safety meeting</b>
					<b>5 1/2 14# casing set at 3408'</b>
					<b>T-1, 5, 7, 9, 11, 13, 74</b>
					<b>140 SK AAZ cement, 25% Defoamer</b>
					<b>10% Sglt, 25pps Cellofiske, 5pps</b>
					<b>Gilsonite, 5% fluid loss</b>
					<b>15ppg, 1.42 vels, 6.02 water</b>
<b>6:20pm</b>					<b>Pipe on bottom &amp; break circulation</b>
<b>7:15pm</b>	<b>300</b>		<b>5</b>	<b>4 1/2</b>	<b>Pump 5 bbls water</b>
	<b>300</b>		<b>12</b>	<b>4 1/2</b>	<b>Pump 12 bbls Flush</b>
	<b>300</b>		<b>5</b>	<b>4 1/2</b>	<b>Pump 5 bbls water</b>
	<b>300</b>		<b>35</b>	<b>4 1/2</b>	<b>Mix 140SK cement</b>
					<b>Shut down</b>
					<b>Wash pump &amp; lines &amp; Release plug</b>
	<b>200</b>		<b>0</b>	<b>5</b>	<b>Start displacement</b>
	<b>400</b>		<b>58</b>	<b>5</b>	<b>Lift Pressure</b>
	<b>600</b>		<b>72</b>	<b>3</b>	<b>Slow Rate</b>
<b>8:00pm</b>	<b>1,500</b>		<b>82 1/2</b>	<b>3</b>	<b>Bump Plug</b>
					<b>Flush</b>
	<b>100</b>		<b>12</b>	<b>3</b>	<b>Plug rest &amp; mouse holes</b>
<b>8:30pm</b>					<b>Job complete / Darrin &amp; crew</b>