

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

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

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	C & K Operating LLC
Well Name	MILES B8
Doc ID	1796177

All Electric Logs Run

Sonic Log
Micro Log
Dual Induction Log
Compensated Density-Neutron Log
Borehole Volume Log

Form	ACO1 - Well Completion
Operator	C & K Operating LLC
Well Name	MILES B8
Doc ID	1796177

Tops

Name	Top	Datum
Herington	1605	151
Winfield	164	92
Cottonwood	2102	-346
Red Eagle	2224	-468
Indian Cave	2366	-610
Wabaunsee	2406	-650
Tarkio	2541	-785
Howard	2787	-1031
Topeka	2917	-1161
Heebner	3273	-1517
Douglas	3313	-1557
Brown Lime	3430	-1674
Lansing	3461	-1705





## DRILL STEM TEST REPORT

Prepared For: **C&K Operating LLC**

PO Box 273  
Kingman, KS 67608

ATTN: Jim Musgrove

### **Miles #B8**

### **19-27S-10W Kingman,KS**

Start Date: 2024.04.08 @ 09:40:00

End Date: 2024.04.08 @ 14:54:02

Job Ticket #: 71004                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.04.16 @ 11:26:25



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

C&K Operating LLC

**19-27S-10W Kingman,KS**

PO Box 273  
Kingman, KS 67608

**Miles #B8**

Job Ticket: 71004

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2024.04.08 @ 09:40:00

## GENERAL INFORMATION:

Formation: **Winfield-Towanda**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:08:32

Time Test Ended: 14:54:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 72

**Interval: 1631.00 ft (KB) To 1744.00 ft (KB) (TVD)**

Reference Elevations: 1758.00 ft (KB)

Total Depth: 1744.00 ft (KB) (TVD)

1746.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

**Serial #: 8372**

**Inside**

Press@RunDepth: 116.96 psig @ 1741.00 ft (KB)

Capacity: psig

Start Date: 2024.04.08

End Date:

2024.04.08

Last Calib.:

2024.04.08

Start Time: 09:40:01

End Time:

14:54:02

Time On Btm:

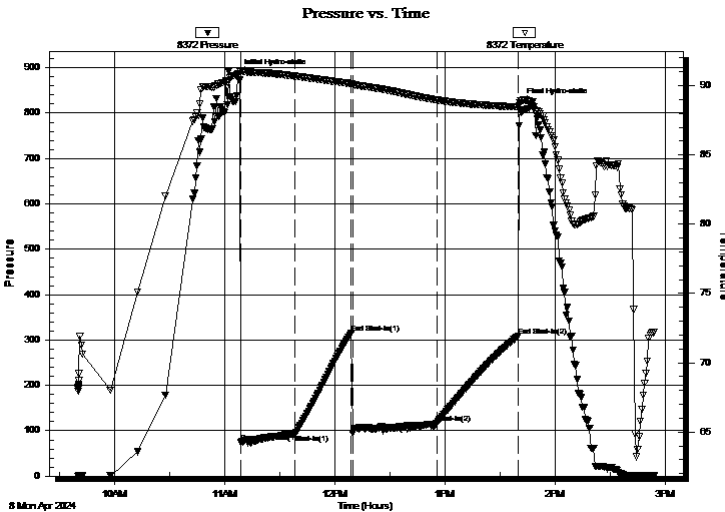
2024.04.08 @ 11:07:02

Time Off Btm:

2024.04.08 @ 13:40:32

**TEST COMMENT:** IF: Strong Blow , BOB in 8 minutes, Built to 21.63"  
IS: No Blow Back  
FF: Fair Blow , BOB in 31 minutes, Built to 15.71"  
FS: FSI: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	886.85	90.71	Initial Hydro-static
2	75.05	91.01	Open To Flow (1)
32	92.82	90.69	Shut-In(1)
62	314.80	90.11	End Shut-In(1)
63	94.55	90.08	Open To Flow (2)
109	116.96	88.97	Shut-In(2)
153	309.03	88.50	End Shut-In(2)
154	823.61	88.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	GCM 6%G 94%M	0.32

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

C&K Operating LLC

**19-27S-10W Kingman,KS**

PO Box 273  
Kingman, KS 67608

**Miles #B8**

Job Ticket: 71004

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2024.04.08 @ 09:40:00

## GENERAL INFORMATION:

Formation: **Winfield-Towanda**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:08:32

Time Test Ended: 14:54:02

**Interval: 1631.00 ft (KB) To 1744.00 ft (KB) (TVD)**

Total Depth: 1744.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 72

Reference Elevations: 1758.00 ft (KB)

1746.00 ft (CF)

KB to GR/CF: 12.00 ft

**Serial #: 8159 Outside**

Press@RunDepth: psig @ 1741.00 ft (KB)

Start Date: 2024.04.08

End Date:

2024.04.08

Capacity: psig

Last Calib.:

2024.04.08

Start Time:

09:40:01

End Time:

14:54:02

Time On Btm:

Time Off Btm:

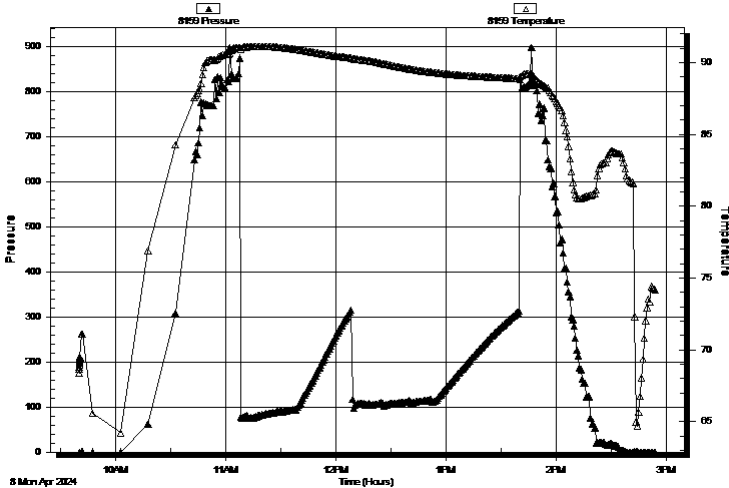
**TEST COMMENT:** IF: Strong Blow , BOB in 8 minutes, Built to 21.63"

IS: No Blow Back

FF: Fair Blow , BOB in 31 minutes, Built to 15.71"

FS: FS: No Blow Back

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	GCM 6%G 94%M	0.32

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

C&K Operating LLC

**19-27S-10W Kingman,KS**

PO Box 273  
Kingman, KS 67608

**Miles #B8**

Job Ticket: 71004

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2024.04.08 @ 09:40:00

## Tool Information

Drill Pipe:	Length: 1393.00 ft	Diameter: 3.80 inches	Volume: 19.54 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 20.69 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	1631.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	113.00 ft			
Tool Length:	137.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			1612.00	
Hydraulic tool	5.00			1617.00	
EM Tool	3.00			1620.00	
Safety Joint	2.00			1622.00	
Packer	5.00			1627.00	24.00 Bottom Of Top Packer
Packer	4.00			1631.00	
Stubb	1.00			1632.00	
Perforations	7.00			1639.00	
Change Over Sub	1.00			1640.00	
Drill Pipe	95.00			1735.00	
Change Over Sub	1.00			1736.00	
Handling Sub	5.00			1741.00	
Recorder	0.00	8372	Inside	1741.00	
Recorder	0.00	8159	Outside	1741.00	
Bullnose	3.00			1744.00	113.00 Bottom Packers & Anchor

**Total Tool Length: 137.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

C&K Operating LLC

**19-27S-10W Kingman,KS**

PO Box 273  
Kingman, KS 67608

**Miles #B8**

Job Ticket: 71004

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2024.04.08 @ 09:40:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 31.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 189000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	GCM 6%G 94%M	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

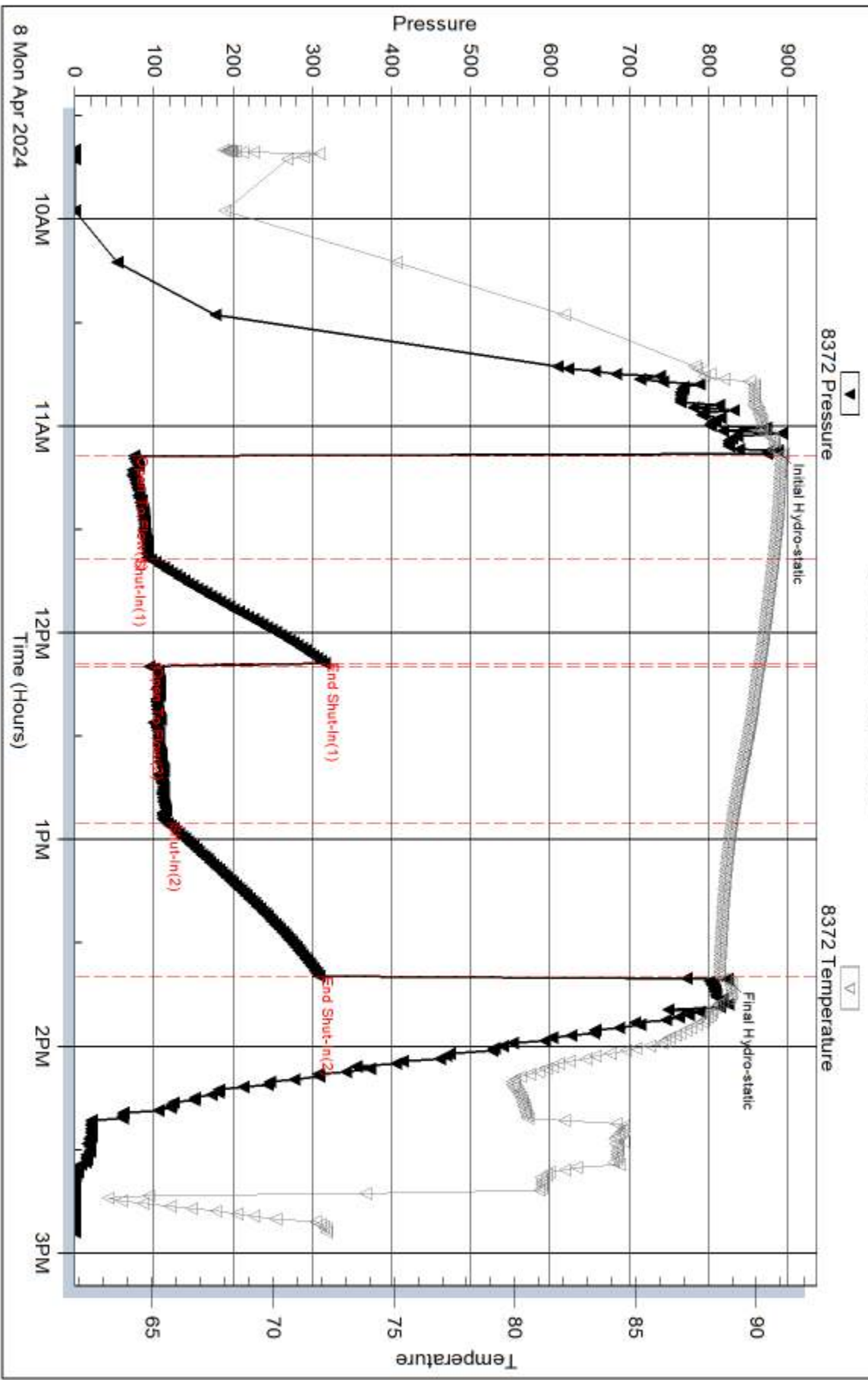
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

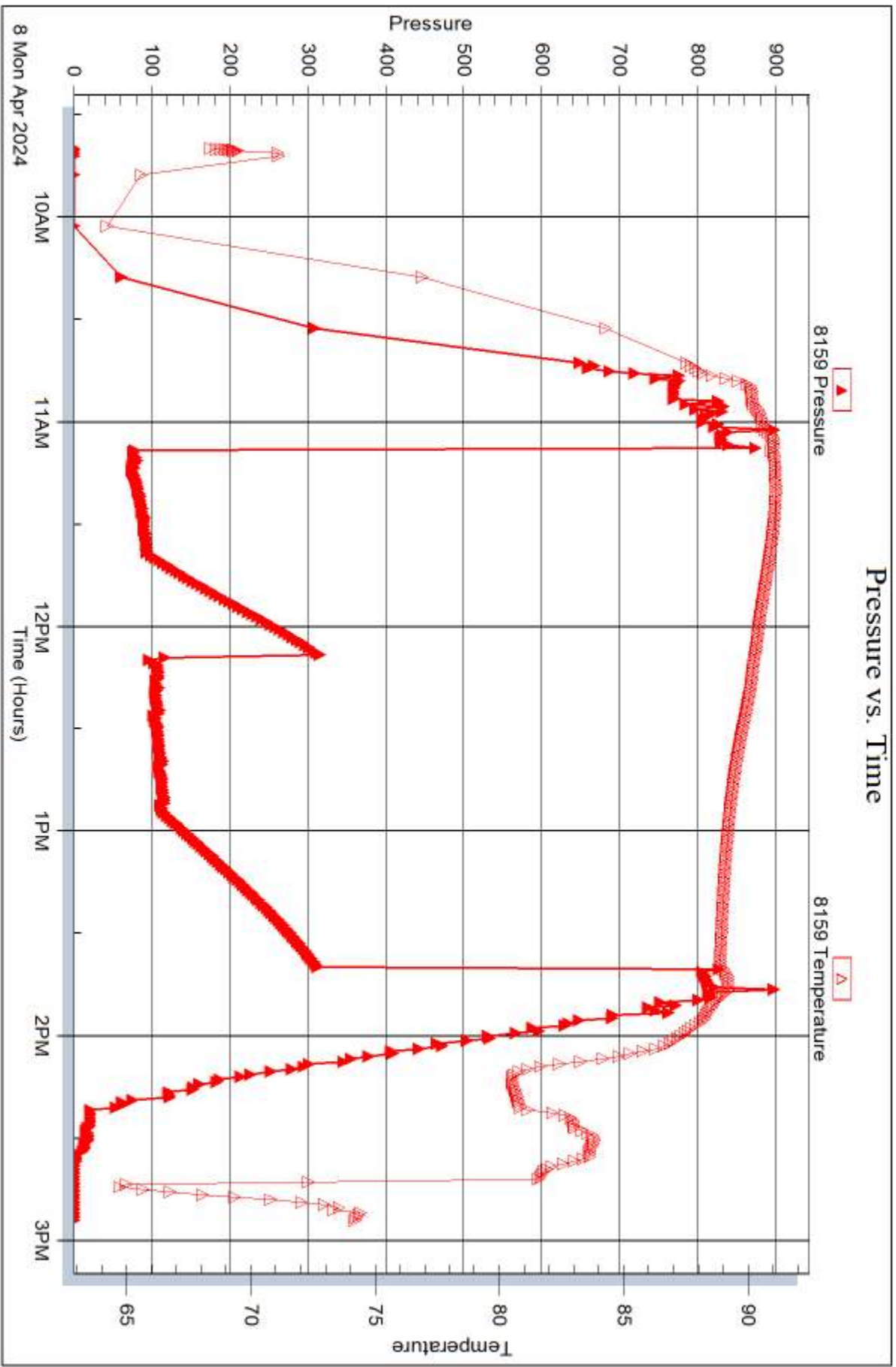


Serial #: 8159

Outside C&K Operating LLC

Miles #B8

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 71004

Printed: 2024.04.16 @ 11:26:25



## DRILL STEM TEST REPORT

Prepared For: **C&K operating LLC**

PO Box 273  
Kingman, KS 67608

ATTN: Jim Musgrove

### **Miles #B8**

### **19-27S-10W Kingman,KS**

Start Date: 2024.04.11 @ 11:38:00

End Date: 2024.04.11 @ 17:00:02

Job Ticket #: 71005                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.04.16 @ 11:25:46



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

C&K operating LLC

**19-27S-10W Kingman,KS**

PO Box 273  
Kingman, KS 67608

**Miles #B8**

Job Ticket: 71005

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2024.04.11 @ 11:38:00

## GENERAL INFORMATION:

Formation: **Upper Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:35:32

Time Test Ended: 17:00:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 72

**Interval: 3448.00 ft (KB) To 3490.00 ft (KB) (TVD)**

Reference Elevations: 1758.00 ft (KB)

Total Depth: 3490.00 ft (KB) (TVD)

1746.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

**Serial #: 8159 Outside**

Press@RunDepth: 30.27 psig @ 3454.00 ft (KB)

Capacity: psig

Start Date: 2024.04.11

End Date:

2024.04.11

Last Calib.:

2024.04.11

Start Time: 11:38:01

End Time:

17:00:02

Time On Btm:

2024.04.11 @ 13:34:17

Time Off Btm:

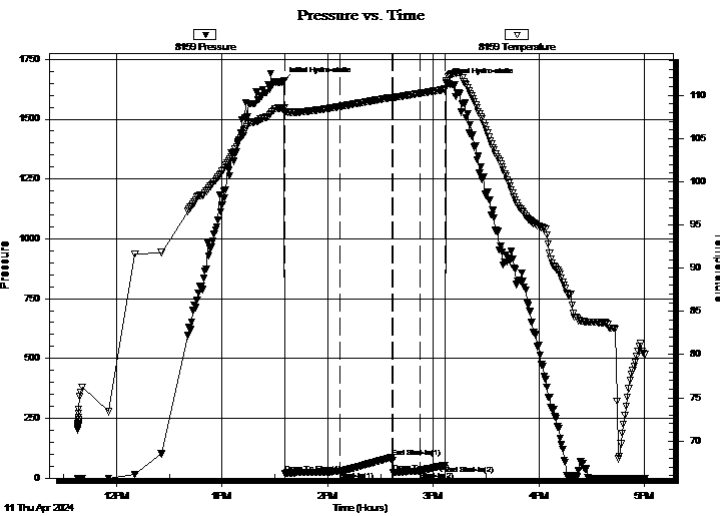
2024.04.11 @ 15:07:32

**TEST COMMENT:** IF: Weak Surface Blow , Dead @ 14 minutes

IS: No Blow Back

FF: Weak 1.27" Blow

FS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1656.15	108.53	Initial Hydro-static
2	21.16	108.02	Open To Flow (1)
33	28.06	108.70	Shut-In(1)
63	87.42	109.74	End Shut-In(1)
63	22.56	109.75	Open To Flow (2)
79	30.27	110.23	Shut-In(2)
93	53.88	110.71	End Shut-In(2)
94	1653.29	111.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

C&K operating LLC

**19-27S-10W Kingman,KS**

PO Box 273  
Kingman, KS 67608

**Miles #B8**

Job Ticket: 71005

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2024.04.11 @ 11:38:00

## Tool Information

Drill Pipe:	Length: 3328.00 ft	Diameter: 3.80 inches	Volume: 46.68 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 47.26 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3448.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3429.00	
Hydraulic tool	5.00			3434.00	
EM Tool	3.00			3437.00	
Safety Joint	2.00			3439.00	
Packer	5.00			3444.00	24.00 Bottom Of Top Packer
Packer	4.00			3448.00	
Stubb	1.00			3449.00	
Perforations	5.00			3454.00	
recorder	0.00	8372	Inside	3454.00	
Recorder	0.00	8159	Outside	3454.00	
Change Over Sub	1.00			3455.00	
Drill Pipe	31.00			3486.00	
Change Over Sub	1.00			3487.00	
Bullnose	3.00			3490.00	42.00 Bottom Packers & Anchor

**Total Tool Length: 66.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

C&K operating LLC

**19-27S-10W Kingman,KS**

PO Box 273  
Kingman, KS 67608

**Miles #B8**

Job Ticket: 71005

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2024.04.11 @ 11:38:00

### 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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

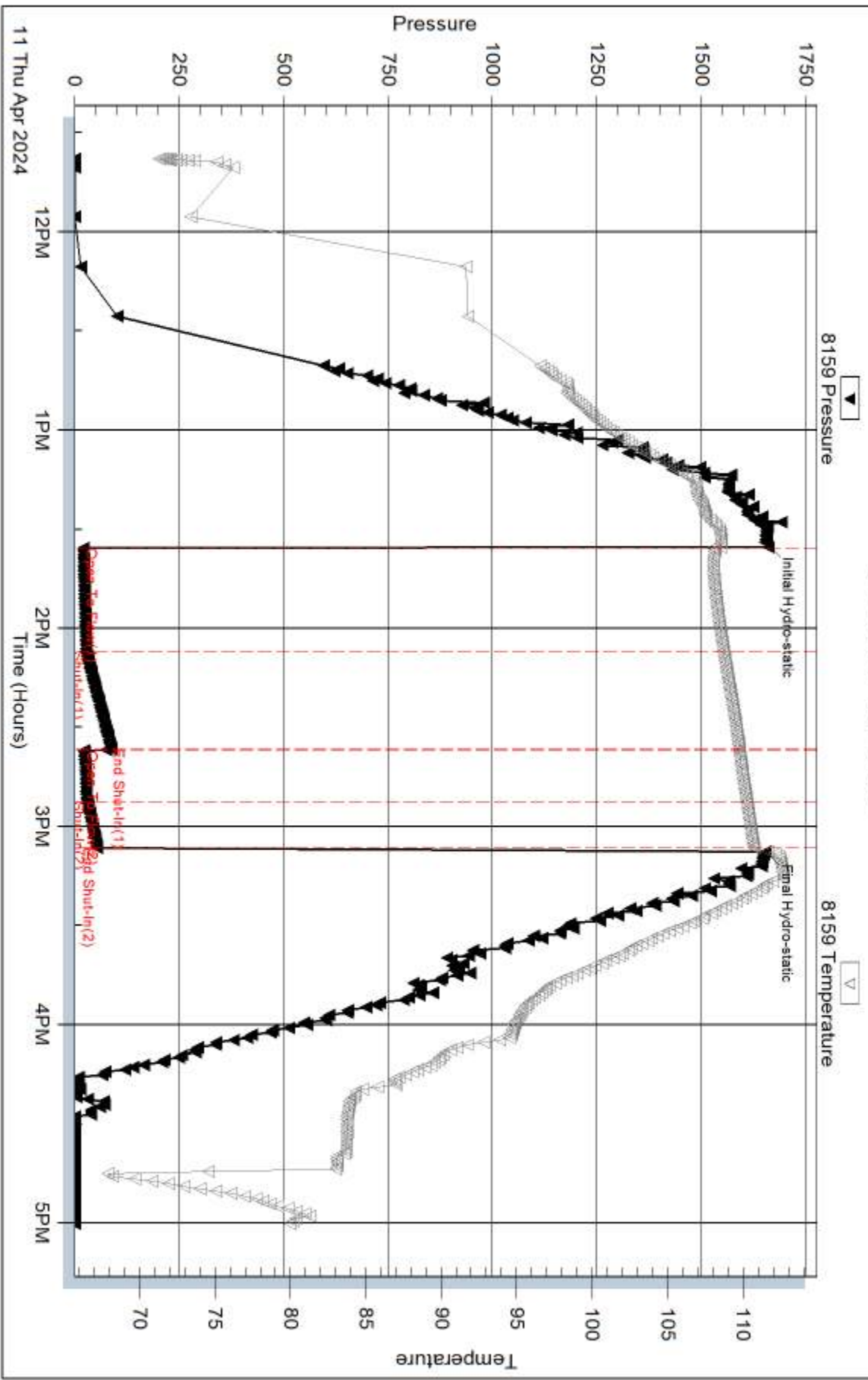
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **C&K operating LLC**

PO Box 273  
Kingman, KS 67608

ATTN: Jim Musgrove

### **Miles #B8**

### **19-27S-10W Kingman,KS**

Start Date: 2024.04.12 @ 00:30:00

End Date: 2024.04.12 @ 07:48:02

Job Ticket #: 71006                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.04.16 @ 11:25:18



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

C&K operating LLC

**19-27S-10W Kingman,KS**

PO Box 273  
Kingman, KS 67608

**Miles #B8**

Job Ticket: 71006

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2024.04.12 @ 00:30:00

## GENERAL INFORMATION:

Formation: **Lower Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:54:02

Time Test Ended: 07:48:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 72

**Interval: 3490.00 ft (KB) To 3513.00 ft (KB) (TVD)**

Reference Elevations: 1758.00 ft (KB)

Total Depth: 3513.00 ft (KB) (TVD)

1746.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

**Serial #: 8372**

**Inside**

Press@RunDepth: 307.99 psig @ 3496.00 ft (KB)

Capacity: psig

Start Date: 2024.04.12

End Date:

2024.04.12

Last Calib.:

2024.04.12

Start Time: 00:30:01

End Time:

07:48:02

Time On Btm:

2024.04.12 @ 02:52:47

Time Off Btm:

2024.04.12 @ 05:46:17

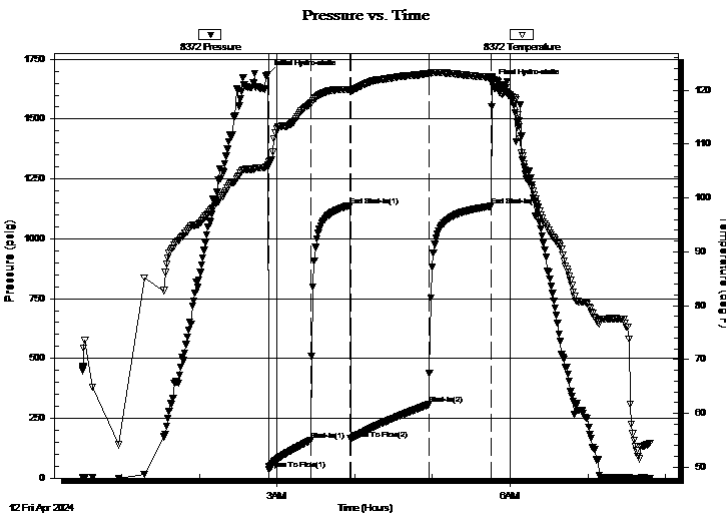
**TEST COMMENT:** IF: Fair Blow , BOB in 11 minutes, Built to 36.11"

IS: No Blow Back

FF: Fair Blow , BOB in 13 minutes, Built to 56.61"

FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.36	106.12	Initial Hydro-static
2	37.71	106.65	Open To Flow (1)
33	156.93	117.42	Shut-In(1)
64	1138.22	120.10	End Shut-In(1)
64	164.34	119.90	Open To Flow (2)
125	307.99	123.05	Shut-In(2)
173	1136.25	122.35	End Shut-In(2)
174	1647.75	122.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
491.00	Water	5.82
84.00	OMCW 6%O 10%M 84%W	1.18
10.00	Clean Oil	0.14
0.00	535' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



# DRILL STEM TEST REPORT

C&K operating LLC

**19-27S-10W Kingman,KS**

PO Box 273  
Kingman, KS 67608

**Miles #B8**

Job Ticket: 71006

**DST#: 3**

ATTN: Jim Musgrove

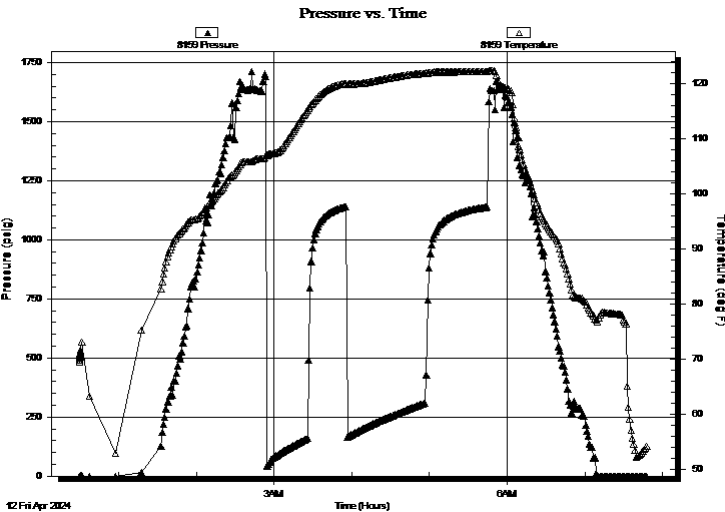
Test Start: 2024.04.12 @ 00:30:00

## GENERAL INFORMATION:

Formation: **Lower Lansing**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:54:02  
Time Test Ended: 07:48:02  
Interval: **3490.00 ft (KB) To 3513.00 ft (KB) (TVD)**  
Total Depth: 3513.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Reference Elevations: 1758.00 ft (KB)  
1746.00 ft (CF)  
KB to GR/CF: 12.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Leal Cason  
Unit No: 72

**Serial #: 8159 Outside**  
Press@RunDepth: psig @ 3496.00 ft (KB)  
Start Date: 2024.04.12 End Date: 2024.04.12 Capacity: psig  
Start Time: 00:30:01 End Time: 07:48:02 Last Calib.: 2024.04.12  
Time On Btm:  
Time Off Btm:

TEST COMMENT: IF: Fair Blow , BOB in 11 minutes, Built to 36.11"  
IS: No Blow Back  
FF: Fair Blow , BOB in 13 minutes, Built to 56.61"  
FS: No Blow Back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
491.00	Water	5.82
84.00	OMCW 6%O 10%M 84%W	1.18
10.00	Clean Oil	0.14
0.00	535' GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

C&K operating LLC

**19-27S-10W Kingman,KS**

PO Box 273  
Kingman, KS 67608

**Miles #B8**

Job Ticket: 71006

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2024.04.12 @ 00:30:00

## Tool Information

Drill Pipe:	Length: 3360.00 ft	Diameter: 3.80 inches	Volume: 47.13 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 47.71 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3490.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3466.00	
Hydraulic tool	5.00			3471.00	
Jars	5.00			3476.00	
EM Tool	3.00			3479.00	
Safety Joint	2.00			3481.00	
Packer	5.00			3486.00	29.00 Bottom Of Top Packer
Packer	4.00			3490.00	
Stubb	1.00			3491.00	
Handling Sub	5.00			3496.00	
Recorder	0.00	8372	Inside	3496.00	
Recorder	0.00	8159	Outside	3496.00	
Perforations	14.00			3510.00	
Bullnose	3.00			3513.00	23.00 Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

C&K operating LLC

**19-27S-10W Kingman,KS**

PO Box 273  
Kingman, KS 67608

**Miles #B8**

Job Ticket: 71006

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2024.04.12 @ 00:30:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

71000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
491.00	Water	5.822
84.00	OMCW 6%O 10%M 84%W	1.178
10.00	Clean Oil	0.140
0.00	535' GIP	0.000

Total Length: 585.00 ft      Total Volume: 7.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

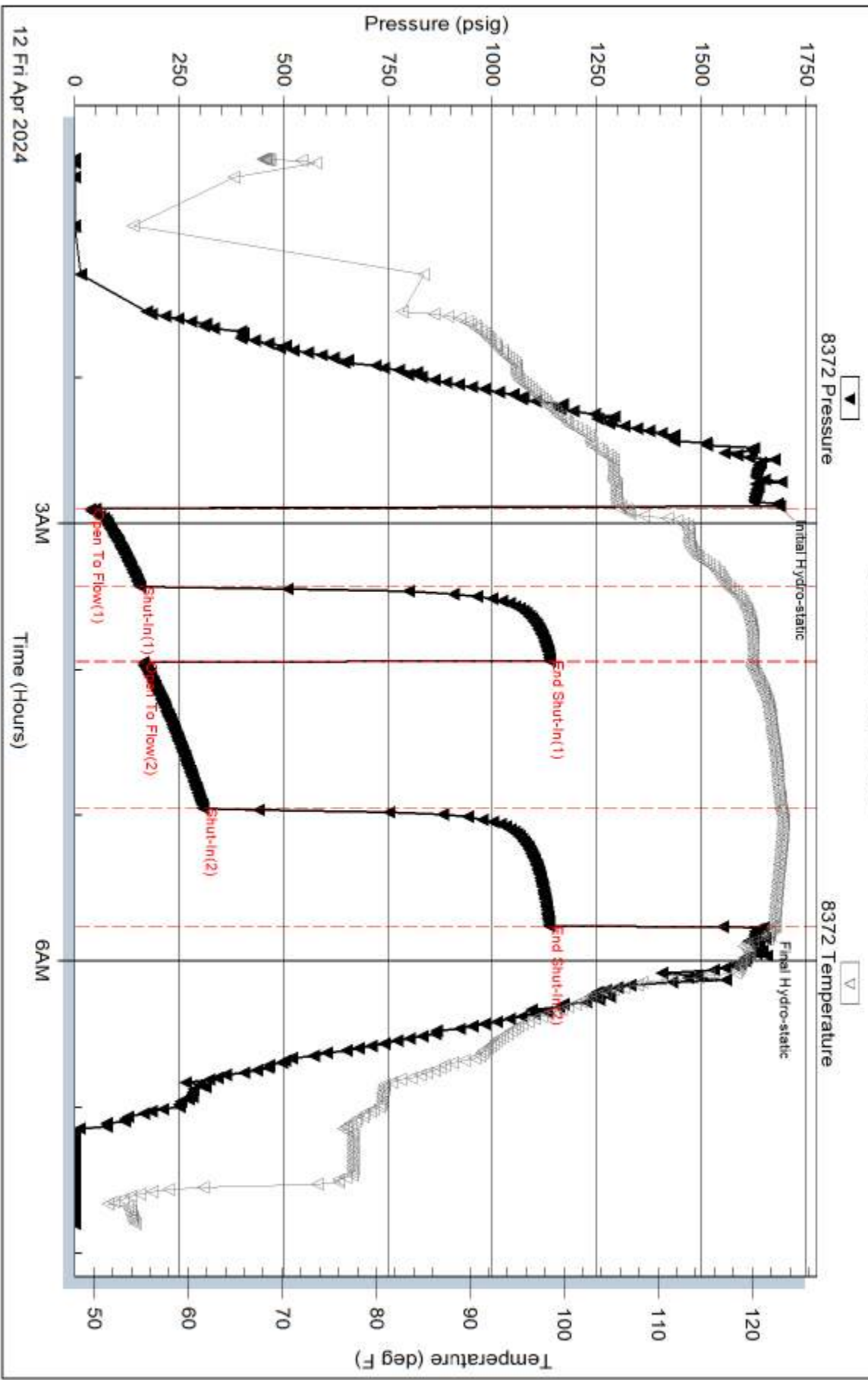
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity w as 35.6@ 48 degrees  
RW was .15 @ 52 degrees

### Pressure vs. Time

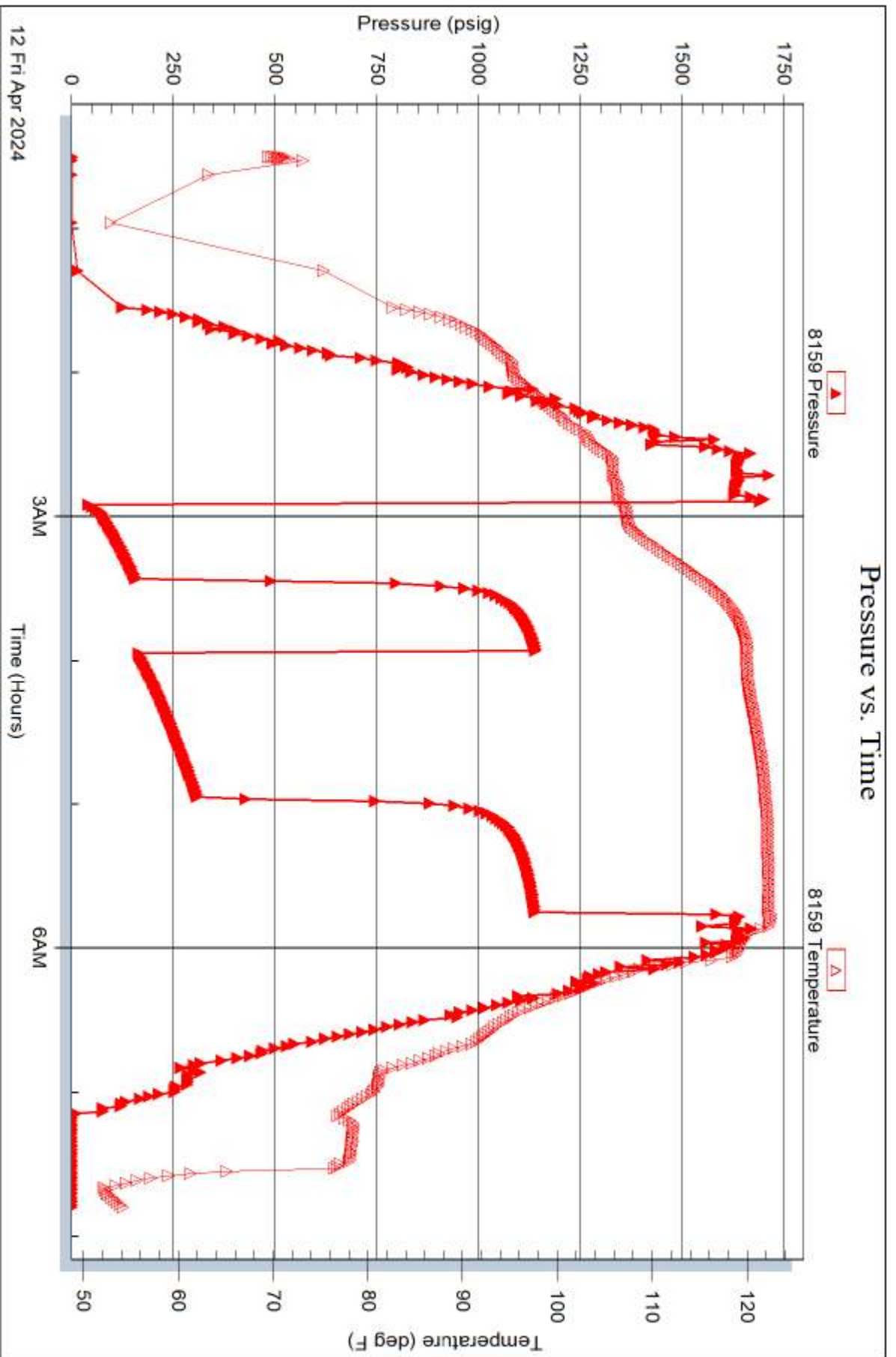


Serial #: 8159

Outside C&K operating LLC

Miles #B8

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 71006

Printed: 2024.04.16 @ 11:25:19





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 71004

Well Name & No. Miles B 8 Test No. 1 Date 04/08/24  
 Company C&K Operating LLC Elevation 1758 KB 1746 GL  
 Address PO Box 273 Kingman, KS 67608  
 Co. Rep / Geo Jim Musgrove Rig Fossil 3  
 Location: Sec. 19 Twp 27S Rge. 10W Co. Kingman State KS

Interval Tested 1631 - 1744 Zone Tested Winfield-Towanda  
 Anchor Length 113 Drill Pipe Run 1393 Mud Wt. 9.6  
 Top Packer Depth 1626 Drill Collars Run 233 Vis 31  
 Bottom Packer Depth 1631 Wt. Pipe Run 0 WL NIC  
 Total Depth 1744 Chlorides 189000 ppm System LCM

Blow Description IF: strong Blow, BOB in 8 minutes, Built to 21.63"  
ISL - NO BLOW BACK

FF: Fair Blow, BOB in 31 minutes, Built to 15.71"  
FSE - NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>GCM</u>	<u>6</u>		<u>94</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	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 65 BHT 91 Gravity NIC API RW NIC @ NIC Chlorides NIC ppm

Initial Hydrostatic 887  Test 1800  Ruined Shale Packer  
 Initial Flow 75 to 93  Jars  Ruined Packer  
 Initial Shut-In 315  Circ Sub  Hotel  
 Final Flow 94 to 117  Hourly Standby  EM Tool Successful  
 Final Shut-In 309  Mileage (50) 87.50  Accessibility  
 Final Hydrostatic 824  Sampler  Gas Sample  
 T- On Location 08:15  Straddle  Oversized Hole  
 Initial Flow 30 T-Started 09:40  Shale Packer  Sub Total 0  
 Initial Shut-In 30 T-Open 11:08  Extra Packer  Total 1887.50  
 Final Flow 45 T-Pulled 13:39  Extra Recorder  Tool Loaded @  
 Final Shut-In 45 T-Out 14:54  Day Standby  MP/DST Disc't

Comments \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damage of any kind of 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. 71005

Well Name & No. Miles B 8 Test No. 2 Date 04/11/24  
 Company C&K Operations Elevation 1758 KB 1746 GL  
 Address PO Box 273 Kingman, KS 67608  
 Co. Rep / Geo Jim Masgrove / Josh Austin Rig Fossil 3  
 Location: Sec. 19 Twp 27S Rge. 10W Co. Kingman State KS

Interval Tested 3448 - 3490 Zone Tested Upper Lansing  
 Anchor Length 42 Drill Pipe Run 3328 Mud Wt. 9.3  
 Top Packer Depth 3443 Drill Collars Run 117 Vis 45  
 Bottom Packer Depth 3448 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3490 Chlorides 5000 ppm System LCM 2

Blow Description IF: Weak Surface Blow, Dead @ 14 minutes

ISF: No Blow Back

FF: Weak 1.27" Blow

FSI: No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>				

Rec Total 5 BHT 110 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

Initial Hydrostatic 1656  Test 1800  Ruined Shale Packer

Initial Flow 21 to 28  Jars 300  Ruined Packer

Initial Shut-In 87  Circ Sub  Hotel

Final Flow 22 to 30  Hourly Standby  EM Tool Successful

Final Shut-In 54  Mileage (50) Twice  Accessibility

Final Hydrostatic 1653  Sampler 87.50 + 87.50  Gas Sample

Straddle  Oversized Hole

Initial Flow 30 T-Started 11:38  Shale Packer  Sub Total 1491.67

Initial Shut-In 30 T-Open 13:35  Extra Packer  Total 3766.67

Final Flow 15 T-Pulled 15:06  Extra Recorder  Tool Loaded @

Final Shut-In 15 T-Out 17:00  Day Standby 2d 20.75h  MP/DST Disc't

Comments Had to short trip again

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **71006**

Well Name & No. Miles B 8 Test No. 3 Date 04/11/24  
 Company C & K operating Elevation 1758 KB 1746 GL  
 Address PO Box 273 Kingman, KS 67608  
 Co. Rep / Geo Jim Musgrove / Josh Austin Rig Fossil 3  
 Location: Sec. 19 Twp 27S Rge. 10W Co. Kingman State KS

Interval Tested 3490 - 3513 Zone Tested Lower Lansing  
 Anchor Length 3485 Drill Pipe Run 3360 Mud Wt. 9.4  
 Top Packer Depth 3490 Drill Collars Run 117 Vis 45  
 Bottom Packer Depth 3513 Wt. Pipe Run 0 WL 8.8  
 Total Depth \_\_\_\_\_ Chlorides 6000 ppm System LCM 2.5

Blow Description IF: Fair Blow, BOB in 11 minutes, Built to 36.11"  
ISI: NO BLOW BACK  
FF: Fair BLOW, BOB in 13 minutes, Built to 56.61"  
FSE: NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>535</u>	<u>GTP</u>				
<u>10</u>	<u>clean oil</u>				
<u>84</u>	<u>OMCW</u>		<u>6</u>	<u>84</u>	<u>10</u>
<u>491</u>	<u>water</u>				
_____	_____				
_____	_____				
_____	_____				

Rec Total 585 BHT 123 Gravity 36.8 API RW .15 @ 52 \*F Chlorides 71,000 ppm  
 Initial Hydrostatic 1686  Test 1800  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 38 to 157  Jars 300  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 1138  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow 164 to 308  Hourly Standby \_\_\_\_\_  EM Tool Successful \_\_\_\_\_  
 Final Shut-In 1136  Mileage 50A 87.50 + 87.50  Accessibility \_\_\_\_\_  
 Final Hydrostatic 1647  Sampler \_\_\_\_\_  Gas Sample \_\_\_\_\_  
 T- On Location 23:45  Straddle \_\_\_\_\_  Oversized Hole \_\_\_\_\_  
 Initial Flow 30 T-Started 00:30  Shale Packer \_\_\_\_\_  Sub Total 0  
 Initial Shut-In 30 T-Open 02:54  Extra Packer \_\_\_\_\_  Total 2275  
 Final Flow 60 T-Pulled 05:45  Extra Recorder \_\_\_\_\_  Tool Loaded 04/12 @ 17:30  
 Final Shut-In 45 T-Out 07:48  Day Standby \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_

Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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Hurricane Services, Inc.  
250 N. Water St., Suite #200  
Wichita, KS 67202



Customer	C&K Operating LLC	Lease & Well #	Milos B8	Date	4/6/2024		
Service District	Pratt, Kansas	County & State	Kingman, KS.	Legals S/T/R	19-27s-10w		
Job Type	Surface	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	Legals S/T/R New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #	Ticket #	WP 5297
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
913	K. Brungardt	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
540-522	M. McGraw	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
176-533	EJ McGraw	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations		
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations		
		<input checked="" type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			
Comments							

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP015	H-325	sack	230.00	\$5,175.00
M015	Light Equipment Mileage	mi	20.00	\$40.00
M010	Heavy Equipment Mileage	mi	40.00	\$160.00
M025	Ton Mileage - Minimum	each	1.00	\$300.00
C060	Cement Blending & Mixing Service	sack	230.00	\$322.00
D010	Depth Charge: 0'-500'	job	1.00	\$1,000.00
C035	Cement Data Acquisition	job	1.00	\$250.00
R060	Senior Supervisor	day	1.00	\$800.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?	Net:	\$8,047.00	
	Total Taxable	\$ -	
	Tax Rate:		
Based on this job, how likely is it you would recommend HSI to a colleague?	Slate tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.	Sale Tax:	\$ -
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Total:	\$ 8,047.00
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely			

HSI Representative: *Kevin Brungardt*

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/4% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X \_\_\_\_\_ CUSTOMER AUTHORIZATION SIGNATURE



**CEMENT TREATMENT REPORT**

Customer: C&K Operating LLC	Well: Miles B8	Ticket: WP 5297
City, State:	County: Kingman, KS.	Date: 4/6/2024
Field Rep: Jim Johnson - Fossil Drilling	S-T-R: 19-27s-10w	Service: Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	274 ft
Casing Size:	8 5/8 in
Casing Depth:	270 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	16.0 bbls

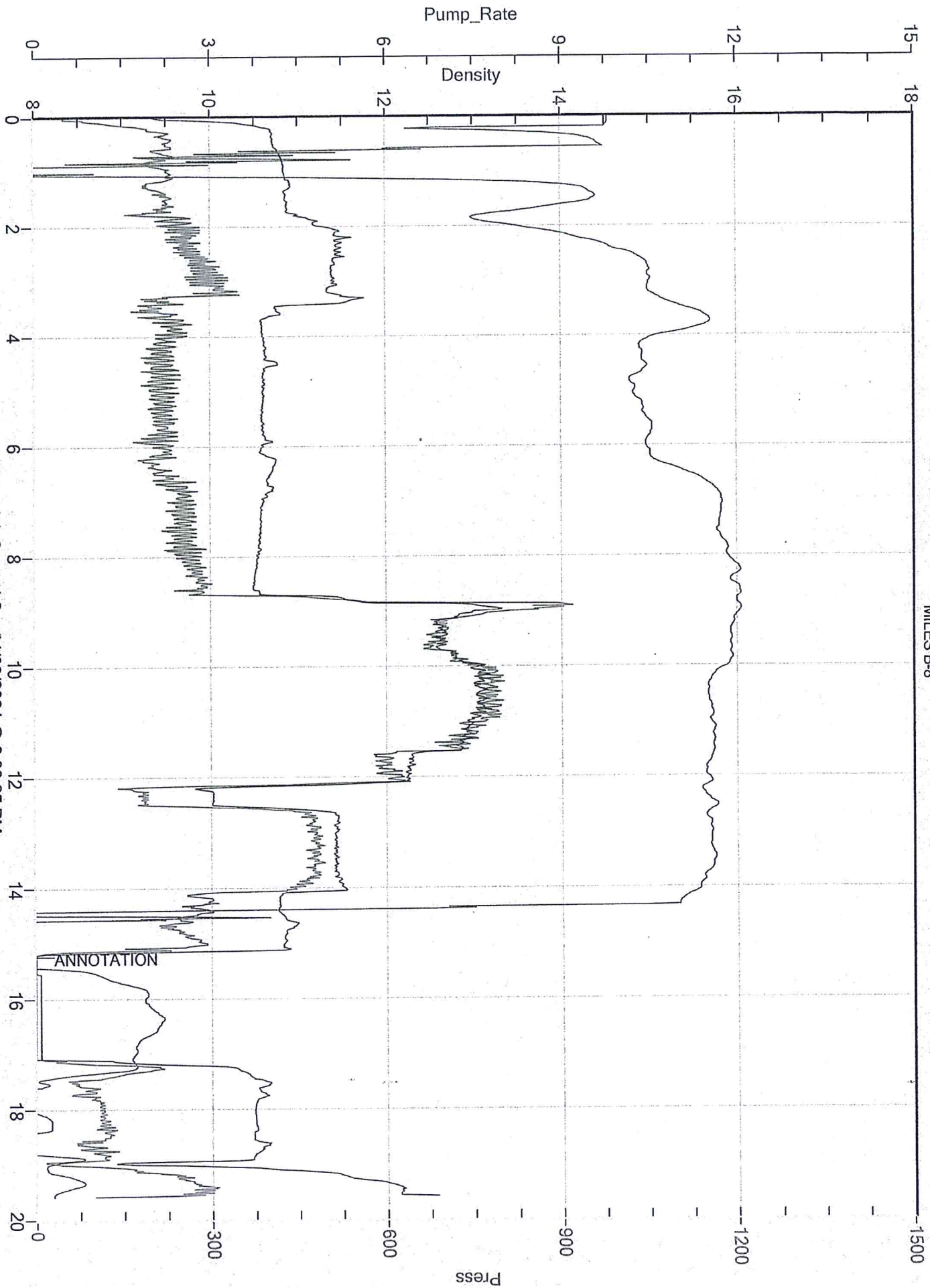
Calculated Slurry - Lead	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft <sup>3</sup> / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

Calculated Slurry - Tail	
Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.4 gal / sx
Yield:	1.38 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	56.5 bbls
Total Sacks:	230 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
1:20 PM			-	-	On location - spot equipment - Job & Safety
					Casing on bottom & rig circulating
					Rig up to cement pump
2:10 PM	3.0	100.0		-	Start fresh water
	3.0	100.0	3.0	3.0	Fresh water in - start cement at 14.8 ppg
	5.0	50.0	56.5	59.5	Cement in - start displacement
	3.0	150.0	6.0	65.5	Cement circulates to surface
2:30 PM	3.0	200.0	10.0	75.5	Cement in place - stop pumps
					Close valve on casing - Job complete
					Thank you,
					EJ, Mike, and Kevin

CREW			UNIT			SUMMARY		
Cementer:	K. Brungardt		913			Average Rate	Average Pressure	Total Fluid
Pump Operator:	M. McGraw		540-522			3.4 bpm	120 psi	76 bbls
Bulk #1:	EJ McGraw		176-533					
Bulk #2:								

C & K OPERATING  
MILES B-8



Job Started On: 04/08/2024 @ 2:02:25 PM



# Cement Callsheet

HURRICANE SERVICES INC

Company	C&K Operating, LLC			Service Point	Pratt, Kansas				
Well Type	New	Contractor	Fossil Drilling 3		Contact Person	Kevin Brungardt	Phone	620-213-1586	
Lease	Miles	Well #	B8	Sec.	19	Twp.	27s	Range	10w

Directions

Cunningham, Kansas - 2 North to Skelleyville Blacktop, 1 1/2 West, North into

Job Type	270' Surface Casing	Casing Size	8 5/8	Thread	LTC	Weight	23
Equipment	Cement through swedge & valve	Tubing/Drill Pipe Size		Thread		Weight	
Remarks:	Use Ticket WP 5297	Hole Size	12 1/4	Packer		Bridge Plug	
		Plug Container	No	Casing Swivel		Squeeze Manifold	

8 5/8" Surface Casing

Cement Data

LEAD 1	Weight PPG	Type		Additives
Sacks	Excess	Yield Ft <sup>3</sup> /sk	Water Gal/sk	
TAIL 1	Weight PPG	Type		Additives
CP015	14.80	H-325		3% calcium chloride 2% gel 0.25 pps celloflake
Sacks	Excess	Yield Ft <sup>3</sup> /sk	Water Gal/sk	
230	180%	1.38	6.44	
LEAD 2	Weight PPG	Type		Additives
Sacks	Excess	Yield Ft <sup>3</sup> /sk	Water Gal/sk	
TAIL 2	Weight PPG	Type		Additives
Sacks	Excess	Yield Ft <sup>3</sup> /sk	Water Gal/sk	
MOUSE/RAT	Weight PPG	Type		Additives
Sacks	Excess	Yield Ft <sup>3</sup> /sk	Water Gal/sk	

Float Equipment

Code	Quantity	Description

Misc. Chemicals

Code	Quantity	Description

Ordered By	Jim Johnson	Phone	620-886-0940	Fax		Date of Job	04/06/24
Call Taken By	Kevin Brungardt	Phone	620-213-1586	Email		Time of Job	ROA
Operator or Driver Called						Call Out Time	



Customer	C&K OPERATING LLC	Lease & Well #	MILES B8	Date	4/13/2024
Service District	PRATT	County & State	KINGMAN KS	Legals S/T/R	19-27S-10W
Job Type	LONGSTRING	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
912	MATTAL	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
539/521	CLIFTON	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
176/534	JULIAN	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	
Comments					

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP030	H-Long	sack	175.00	\$6,125.00
CP055	H-Plug A	sack	50.00	\$800.00
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$375.00
FE135	5 1/2 Turbolizer	ea	7.00	\$875.00
FE130	5 1/2" Cement Basket	ea	2.00	\$600.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$350.00
FE165	5 1/2" Port Collar	ea	1.00	\$3,500.00
CP174	Super Flush II	gal	500.00	\$875.00
AF055	Liquid KCL Substitute	gal	5.00	\$150.00
M015	Light Equipment Mileage	mi	20.00	\$40.00
M010	Heavy Equipment Mileage	mi	40.00	\$160.00
M025	Ton Mileage - Minimum	each	1.00	\$300.00
C060	Cement Blending & Mixing Service	sack	225.00	\$315.00
D014	Depth Charge: 3001'-4000'	job	1.00	\$2,250.00
C035	Cement Data Acquisition	job	1.00	\$250.00
C050	Cement Plug Container	job	1.00	\$250.00
R061	Service Supervisor	day	1.00	\$275.00
C025	Cement Pump - Hourly Service	hr	1.00	\$250.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net:	\$17,740.00
Based on this job, how likely is it you would recommend HSI to a colleague?		Total Taxable \$	-
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Tax Rate:	
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely		Sale Tax:	\$ -
		Total:	\$ 17,740.00
		HSI Representative:	Mike Mattal

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X \_\_\_\_\_ **CUSTOMER AUTHORIZATION SIGNATURE**





**CEMENT TREATMENT REPORT**

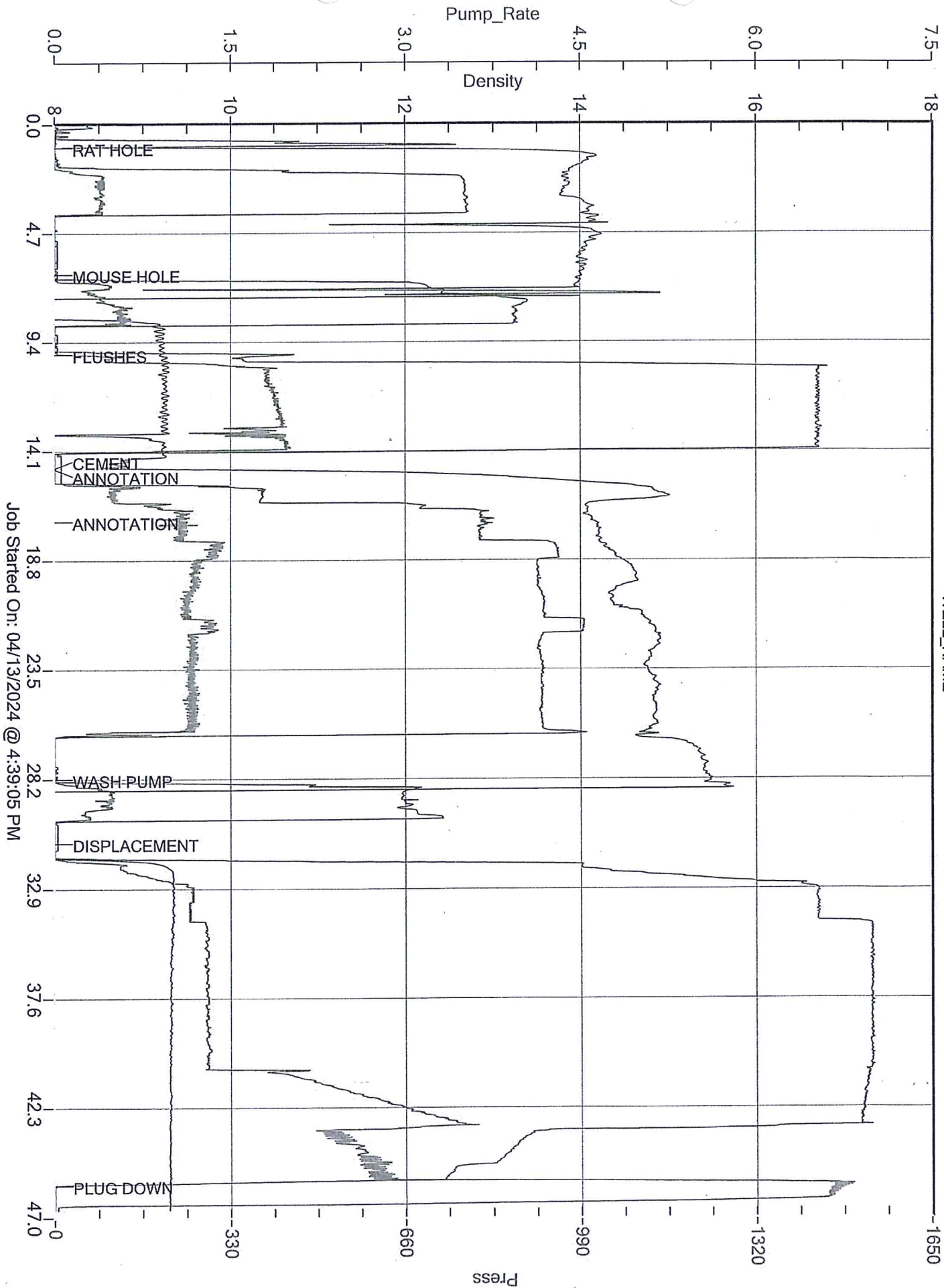
Customer: C&K OPERATING LLC	Well: MILES B8	Ticket: WP5317
City, State: CUNNINGHAM KS	County: KINGMAN KS	Date: 4/13/2024
Field Rep:	S-T-R: 19-27S-10W	Service: LONGSTRING

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H-LONG	Blend:	H-PLUG A
Hole Depth:	ft	Weight:	15.0 ppg	Weight:	13.8 ppg
Casing Size:	5 1/2 in	Water / Sx:	6.6 gal / sx	Water / Sx:	6.9 gal / sx
Casing Depth:	3546 ft	Yield:	1.42 ft <sup>3</sup> / sx	Yield:	1.43 ft <sup>3</sup> / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	83.4 bbls	Total Slurry:	44.3 bbls	Total Slurry:	12.0 bbls
		Total Sacks:	175 sx	Total Sacks:	50 sx

TIME	RATE	PSI	BBLs	STAGE TOTAL BBLs	REMARKS
11:15 AM			-	-	ON LOCATION
1:00 PM			-	-	RUN 15.5# 5 1/2" CASING, 42' SHOE JOINT, PORT COLLAR AT 1515' JT #36 TUROS ON 1,3,7,9,30,34,38 BASKET ON 35&39
1:15 PM			-	-	CASING TONG BROKE DOWN, AIT ON REPLACEMENT TONGS
3:45 PM			-	-	RESUME RUNNING CASING
5:00 PM			-	-	CASING ON BOTTOM
5:15 PM			-	-	HOOK TO CASING, BREAK CIRCULATION WITH RIG
5:58 PM	6.5	400.0	6.0	6.0	PUMP 6 BBL KCL WATER
5:59 PM	6.5	400.0	12.0	18.0	PUMP 500 GALLONS SUPERFLUSH II
6:01 PM	6.5	400.0	6.0	24.0	PUMP 6 BBL KCL WATER
5:50 PM	2.0	25.0	7.0	31.0	MIX 30 SKS H-PLUG FOR RAT HOLE
5:54 PM	2.0	25.0	5.0	36.0	MIX 20 SKS H-PLUG FOR MOUSE HOLE
6:03 PM	5.0	250.0	44.0	80.0	MIX 175 SKS H-LONG
6:15 PM	3.0	25.0	7.0	87.0	WASH PUMP AND LINE, DROP PLUG
6:19 PM	7.0	290.0		87.0	START KCL DISPLACEMENT
6:28 PM	7.0	400.0	58.0	145.0	LIFT PRESSURE
6:31 PM	4.0	510.0	75.0	220.0	SLOW RATE
6:34 PM		1,500.0	83.4	303.4	PLUG DOWN, RELEASED AND HELD
					CIRCULATION THROUGH JOB
					JOB COMPLETE, THANK YOU!
					MIKE MATTAL
					AUSTIN&KENNY

CREW		UNIT	SUMMARY		
Cementer:	MATTAL	912	Average Rate	Average Pressure	Total Fluid
Pump Operator:	CLIFTON	539/521	5.0 bpm	384 psi	303 bbls
Bulk #1:	JULIAN	176/534			
Bulk #2:					

CUSTOMER  
WELL\_NAME



Job Started On: 04/13/2024 @ 4:39:05 PM



# Cement Callsheet

HURRICANE SERVICES INC

Company	C&K Operating, LLC			Service Point	Pratt, Kansas				
Well Type	New	Contractor	Fossil Drilling 3	Contact Person	Kevin Brungardt	Phone	620-213-1586		
Lease	Miles	Well #	B8	Sec.	19	Twp.	27s	State	KS
Range 10w									

### Directions

Cunningham, Kansas - 2 North to Skelleyville Blacktop, 1 1/2 West, North into

Job Type	Longstring			Casing Size	Thread	Weight
Equipment	250 gal kcl H2o; 500 gal SuperFlush II ; 250 gal kcl H2o			5 1/2		15.5
				Tubing/Drill Pipe Size	Thread	Weight
				Hole Size	Packer	Bridge Plug
Remarks:	Use Ticket WP 5317			7 7/8		
				Plug Container	Casing Swivel	Squeeze Manifold
				YES		

### Cement Data

LEAD 1	Weight PPG	Type		Additives
Sacks	Excess	Yield Ft <sup>3</sup> /sk	Water Gal/sk	
TAIL 1	Weight PPG	Type		Additives
CP030	15.00	H-Long		5% GYP + 10% SALT + .6% FLUID LOSS + .2% DEFOAMER + 5 PPS KOL-SEALK + .25 PPS CELLFLAKE
Sacks	Excess	Yield Ft <sup>3</sup> /sk	Water Gal/sk	
175	17%	1.42	6.56	
LEAD 2	Weight PPG	Type		Additives
Sacks	Excess	Yield Ft <sup>3</sup> /sk	Water Gal/sk	
TAIL 2	Weight PPG	Type		Additives
Sacks	Excess	Yield Ft <sup>3</sup> /sk	Water Gal/sk	
MOUSE/RAT	Weight PPG	Type		Additives
CP055		H-Plug A		
Sacks	Excess	Yield Ft <sup>3</sup> /sk	Water Gal/sk	
50				

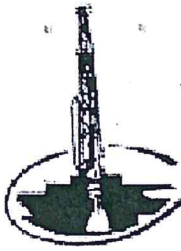
### Float Equipment

Code	Quantity	Description
FE145	1	5 1/2" Float Shoe - AFU Flapper Type
FE135	10	5 1/2 Turbolizer
FE130	2	5 1/2" Cement Basket
FE170	1	5 1/2" Latch Down Plug & Baffle
FE165	1	5 1/2" Port Collar

### Misc. Chemicals

Code	Quantity	Description
CP174	500	Super Flush II
AF055	5	Liquid KCL Substitute

Ordered By	Jim Johnson	Phone	620-886-0940	Fax		Date of Job	
Call Taken By	Kevin Brungardt	Phone	620-213-1586	Email		Time of Job	
Operator or Driver Called						Call Out Time	



# Musgrove

**PETROLEUM  
CORPORATION**  
Clairton, Kansas

COMPANY: C & K Operating, LLC

LEASE: Miles #B8

FIELD: Cunningham

LOCATION: 2,280' FSL & 420' FEL (SW-NE-NE-SE)

SEC: 19 TWSP: 27s RGE: 10w

COUNTY: Kingman STATE: Kansas

KB: 1756' GL: 1744'

API # 15-095-22358-00-00

CONTRACTOR: Fossil Drilling (rig #3)

Spud: 04/06/2024 Comp: 04/13/2024

RTD: 3650' LTD: 3651'

Mud Up: 2500' Type Mud: Chemical was displaced

Samples Saved From: 1500'-RTD

Drilling Time Kept From: 1400'-RTD

Samples Examined From: 1500'-RTD

Geological Supervision From: 1500'-RTD

Geologist on Well: Jim Musgrove and Josh Austin

Surface Casing: 8 5/8" @ 267'

Production Casing: 5 1/2" @ 3647'

Electronic Surveys: ELI (CDL/CNL/DIL/MEL/SON)

## NOTES

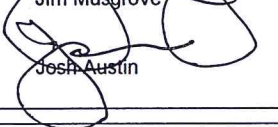
The C&K Operating LLC, Miles B #8 was drilled to a total depth of 3650', bottoming in the Lansing.

3 DST's were conducted. The DST Reports can be found below.

On the basis of the drill stem test, shows in the samples, gas kicks, and log analysis, it was determined by all parties involved to run 5 1/2" production casing on the Miles B.8, to further test the zones.  
See Recommendations on typed report

Respectfully Submitted,

  
Jim Musgrove

  
Josh Austin



DRILL STEM TEST REPORT



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

C&K operating LLC

19-275-10W Kingman

PO Box 273  
Kingman, KS 67608

Miles B8

Job Ticket: 71004

DST#:1

ATTN: Jim Musgrove

Test Start: 2024.04.08 @ 09:40:00

**GENERAL INFORMATION:**

Formation: **Winfield-Towanda**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 11:08:32

Tester: Leal Cason

Time Test Ended: 14:54:02

Unit No: 72

Interval: **1631.00 ft (KB) To 1744.00 ft (KB) (TVD)**

Reference Elevations: 1758.00 ft (KB)

Total Depth: 1744.00 ft (KB) (TVD)

1746.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8372

Inside

Press@RunDepth: 116.96 psig @ 1741.00 ft (KB)

Capacity: psig

Start Date: 2024.04.08

End Date:

2024.04.08

Last Calib.:

2024.04.08

Start Time: 09:40:01

End Time:

14:54:02

Time On Blm:

2024.04.08 @ 11:07:02

Time Off Blm:

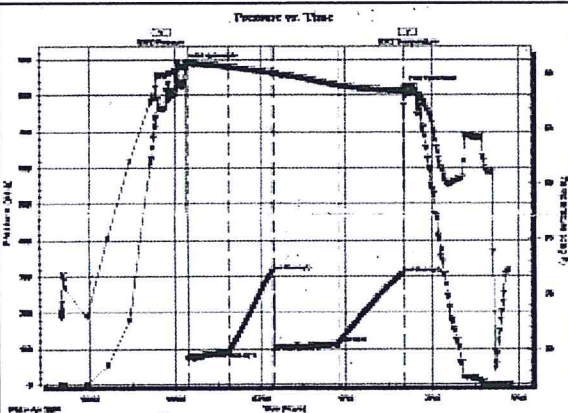
2024.04.08 @ 13:40:32

TEST COMMENT: F: Strong Blow, BOB in 8 minutes, Built to 21.63"

IS: No Blow Back

FF: Fair Blow, BOB in 31 minutes, Built to 15.71"

FST: FST: No Blow Back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	886.85	90.71	Initial Hydro-static
2	75.05	91.01	Open To Flow(1)
32	92.82	90.69	Shut-in(1)
62	314.80	90.11	End Shut-in(1)
63	94.55	90.08	Open To Flow(2)
109	116.96	88.97	Shut-in(2)
153	309.03	88.50	End Shut-in(2)
154	823.61	88.74	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
65.00	GCM 6%G 94%M	0.32

**Gas Rates**

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



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

C&K operating LLC

19-275-10W Kingman

PO Box 273  
Kingman, KS 67608

Miles B8

Job Ticket: 71005

DST#:2

ATTN: Jim Musgrove

Test Start: 2024.04.11 @ 11:38:00

**GENERAL INFORMATION:**

Formation: **Upper Lansing**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 13:35:32

Tester: Leal Cason

Time Test Ended: 17:00:02

Unit No: 72

Interval: **3446.00 ft (KB) To 3490.00 ft (KB) (TVD)**

Reference Elevations: 1758.00 ft (KB)

Total Depth: 3490.00 ft (KB) (TVD)

1746.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8159

Outside

Press@RunDepth: 30.27 psig @ 3454.00 ft (KB)

Capacity: psig

Start Date: 2024.04.11

End Date:

2024.04.11

Last Calib.:

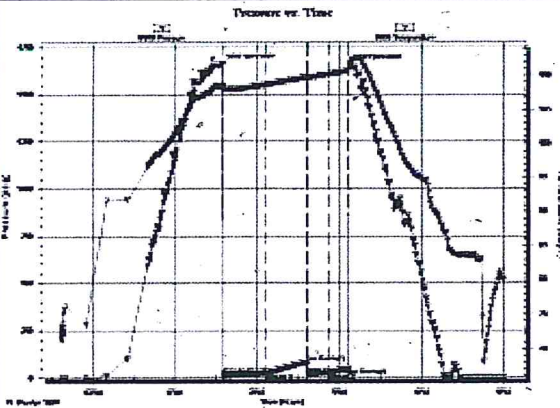
2024.04.11

Interval: 3446.00 ft (KB) To 3490.00 ft (KB) (TVD)  
 Total Depth: 3490.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1756.00 ft (KB)  
 1746.00 ft (CF)  
 KB to GR/CF: 12.00 ft

Serial #: 8159 Outside  
 Press@RunDepth: 30.27 psig @ 3454.00 ft (KB) Capacity: psig  
 Start Date: 2024.04.11 End Date: 2024.04.11 Last Calib.: 2024.04.11  
 Start Time: 11:38:01 End Time: 17:00:02 Time On Blm: 2024.04.11 @ 13:34:17  
 Time Off Blm: 2024.04.11 @ 15:07:32

TEST COMMENT: F: Weak Surface Blow, Dead @ 14 minutes  
 IS: No Blow Back  
 FF: Weak 1.27" Blow  
 FSt: No Blow Back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1656.15	108.53	Initial Hydro-static
2	21.16	108.02	Open To Flow(1)
33	28.06	108.70	Shut-in(1)
63	87.42	109.74	End Shut-in(1)
63	22.56	109.75	Open To Flow(2)
79	30.27	110.23	Shut-in(2)
93	53.88	110.71	End Shut-in(2)
94	1653.29	111.64	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

C&K operating LLC

19-275-10W Kingman

PO Box 273  
 Kingman, KS 67608

Miles B8

Job Ticket: 71006 DST#:3

ATTN: Jim Musgrove

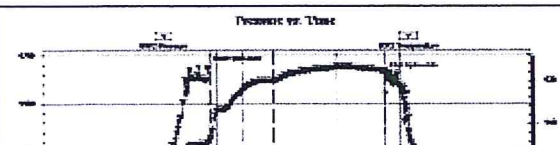
Test Start: 2024.04.12 @ 00:30:00

**GENERAL INFORMATION:**

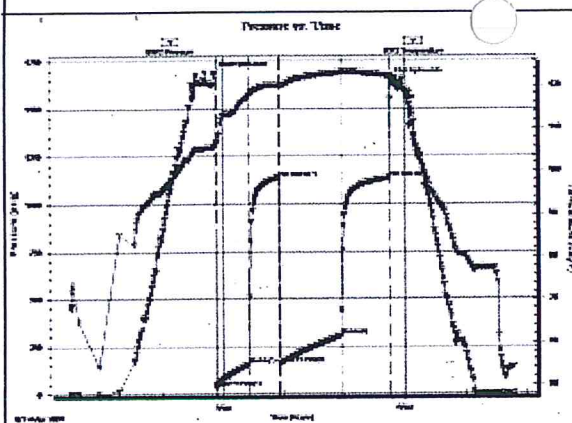
Formation: Lower Lansing  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:54:02  
 Time Test Ended: 07:48:02  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Leal Cason  
 Unit No: 72  
 Interval: 3490.00 ft (KB) To 3613.00 ft (KB) (TVD)  
 Total Depth: 3513.00 ft (KB) (TVD)  
 Reference Elevations: 1756.00 ft (KB)  
 1746.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 KB to GR/CF: 12.00 ft

Serial #: 8372 Inside  
 Press@RunDepth: 307.99 psig @ 3496.00 ft (KB) Capacity: psig  
 Start Date: 2024.04.12 End Date: 2024.04.12 Last Calib.: 2024.04.12  
 Start Time: 00:30:01 End Time: 07:48:02 Time On Blm: 2024.04.12 @ 02:52:47  
 Time Off Blm: 2024.04.12 @ 05:46:17

TEST COMMENT: F: Fair Blow, BOB in 11 minutes, Built to 36.11"  
 IS: No Blow Back  
 FF: Fair Blow, BOB in 13 minutes, Built to 56.61"  
 FSt: No Blow Back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.36	108.12	Initial Hydro-static
2	37.71	106.65	Open To Flow(1)
22	168.93	117.42	Shut-in(1)



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.36	106.12	Initial Hydro-static
2	37.71	106.65	Open To Flow (1)
33	156.93	117.42	Shut-in (1)
64	1136.22	120.10	End Shut-in (1)
64	164.34	119.90	Open To Flow (2)
125	307.99	123.05	Shut-in (2)
173	1136.25	122.35	End Shut-in (2)
174	1647.75	122.18	Final Hydro-static

Length (ft)	Description	Volume (bbl)
0.00	535' GP	0.00
491.00	Water	5.82
84.00	OMCW 6%O 10%MB4%W	1.78
10.00	Clean Oil	0.14

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

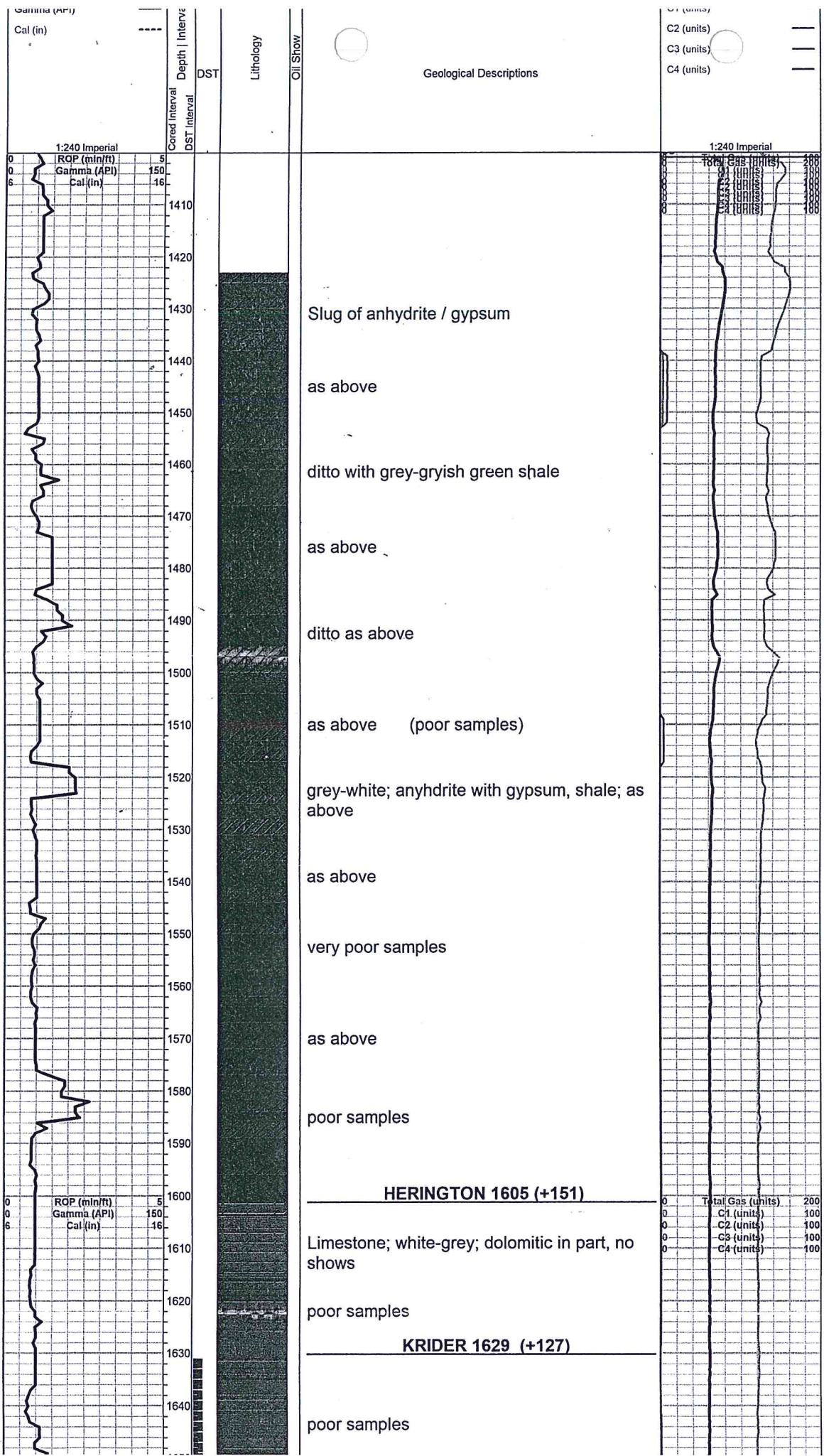
## C&K Operating LLC well comparison sheet

Formation	DRILLING WELL Miles 'B' 6 1756 KB				COMPARISON WELL Miles 7B 1736 KB				COMPARISON WELL North Miles 6 1732 KB			
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Structural Relationship		Log	Sub-Sea	Structural Relationship	
							Sample	Log			Sample	Log
Herington	1605	151	1610	146								
Winfield	1664	92	1666	90								
Cottonwood	2102	-346	2102	-346								
Red Eagle	2224	-468	2223	-467								
Indian Cave	2366	-610	2359	-603								
Wabaunsee	2406	-650	2407	-651								
Tarkio	2541	-785	2542	-786								
Howard	2787	-1031	2780	-1024								
Topeka	2917	-1161	2910	-1154								
Heebner	3273	-1517	3273	-1517								
Douglas	3313	-1557	3314	-1558								
Brown Lime	3430	-1674	3434	-1678								
Lansing	3461	-1705	3462	-1706	3418	-1682	-23	-24	3445	-1713	8	7
Total Depth	3650	-1894	3651	-1895	3453	-1717			3459	-1727		

Anyh vert	Lmst fw<7	shale, gry	Ss
Dolprim	Lmst fw>	Carbon Sh	Slst
Gyp	Shgy	shale, red	

DST	DST Int	DST alt
-----	---------	---------

Curve Track #1				TG, C1 - C5			
ROP (min/ft)		Depth Intervals DST Lithology Oil Show	Geological Descriptions	Total Gas (units)		C1 (units)	
Gamma (API)				C2 (units)			
Cal (in)				C3 (units)			
				C4 (units)			



Gamma (API)

Cal (in)

Depth | Interval  
Cored Interval  
DST Interval

Lithology

Oil Show

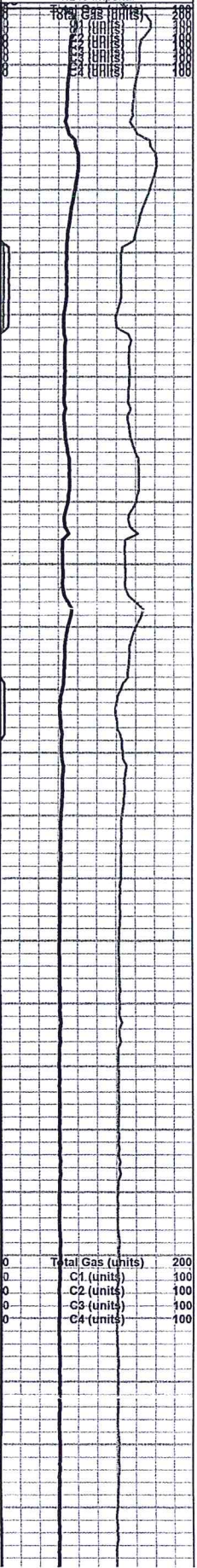
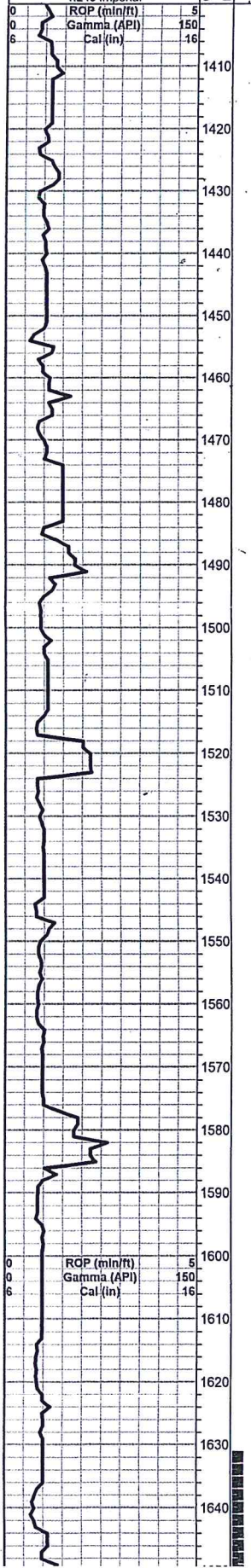
Geological Descriptions

C1 (units)  
C2 (units)  
C3 (units)  
C4 (units)

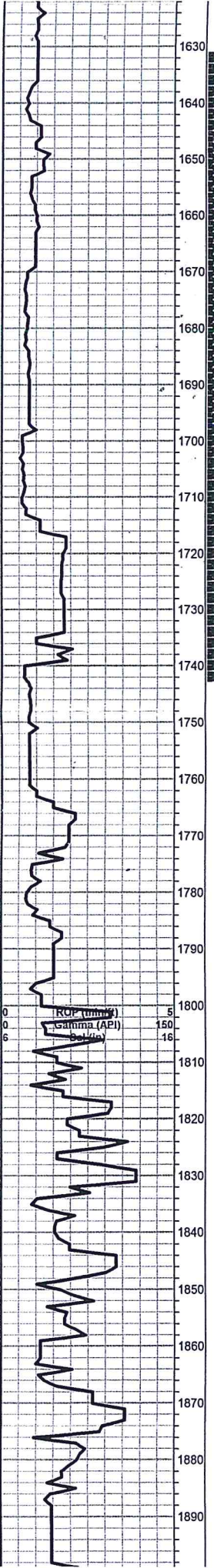
1:240 Imperial  
ROP (min/ft)  
Gamma (API)  
Cal (in)

1:240 Imperial

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







poor samples

**KRIDER 1629 (+127)**

poor samples

**WINFIELD 1664 (+92)**

Dolomite; white-grey, fine crystalline, granular, with grey-white Chert

Dolomite and chert as above

Shale; grey-maroon, soft

**TOWANDA**

Limestone; white-grey, fine crystalline, dolomitic in part, few scattered porosity

CFS 1744'

junk samples

**FT. RILEY**

Dolomite; tan-grey, fine crystalline, sucrosic in part, scattered shale inclusions, no shows

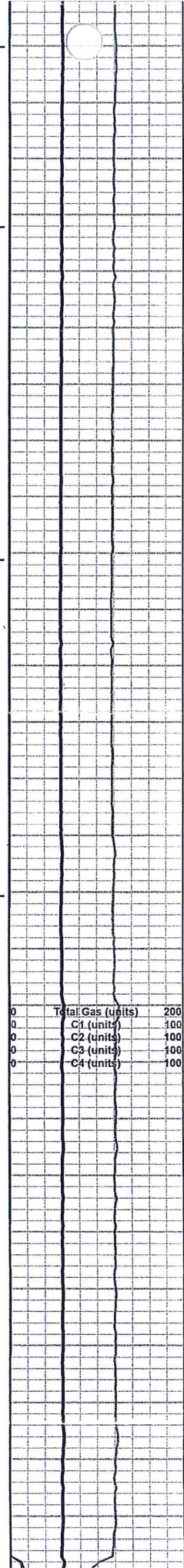
Limestone; white-grey, fine crystalline, chalky, poor visible porosity

Limestone; white-grey, fine crystalline, granular, chalky, poor-fair porosity, no shows

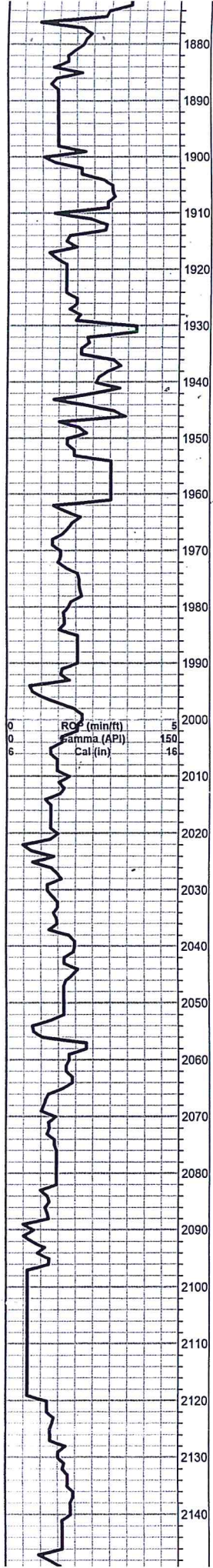
as above

Shale; rusty brown, grey-green, with maroon tinted Limestone

as above



0	Total Gas (units)	200
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



as above

Limestone; grey-white, fine crystalline, few medium crystalline, fossiliferous, scattered porosity, no shows

as above

Chert; grey-white, fossiliferous

Limestone and Chert as above

as above

Limestone; white-grey, fine crystalline, chalky

as above

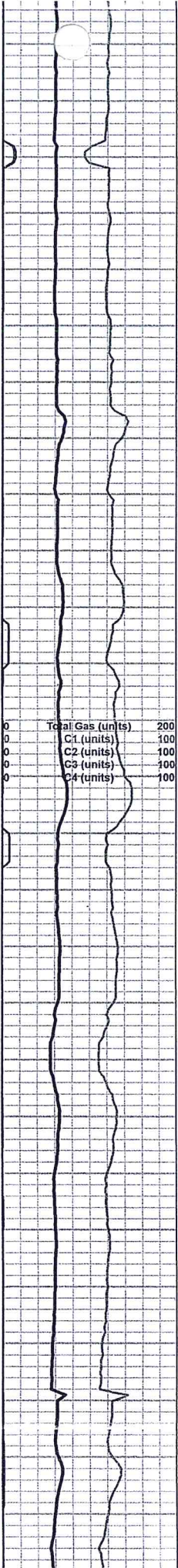
Limestone; white-grey-cream, fine crystalline, chalky

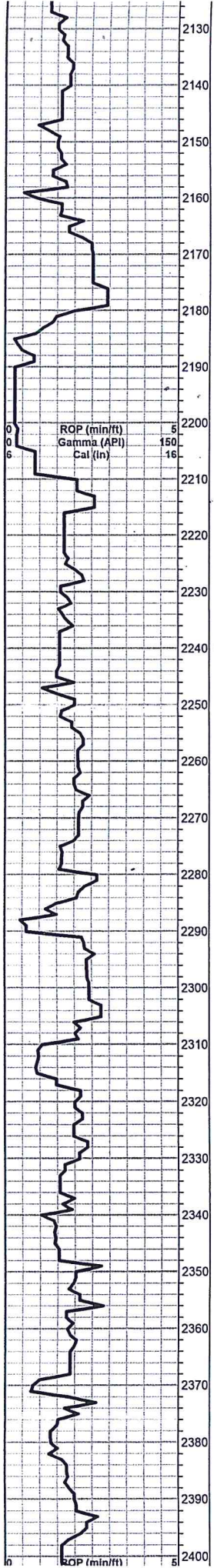
Limestone; grey-dark grey-tan, chalky

**COTTONWOOD 2102 (-346)**

Limestone; white-grey, fossiliferous in part, poor visible porosity

Poor samples





Poor samples

junk samples

as above very poor samples

**RED EAGLE 2224 (-468)**

Limestone; white-grey, medium crystalline, fossiliferous, good porosity

as above

CFS 2250

Limestone; white-grey, fossiliferous, chalky, poor visible porosity

**FORAKER**

Limestone; grey-dark grey, fossiliferous, chalky, poor visible porosity

as above

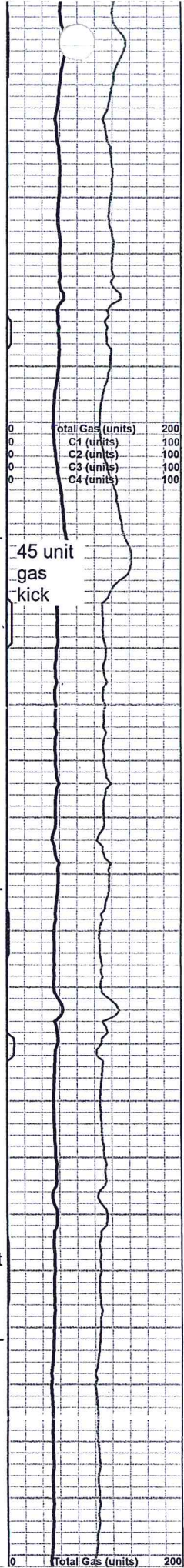
grey-dark grey shale

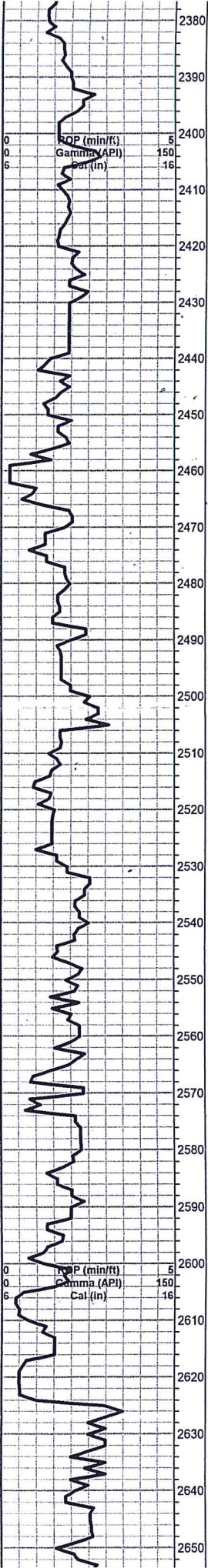
Shale; grey-dark grey, silty, micaceous in part

**INDIAN CAVE SAND**

\* Sand; grey-lt. grey, very fine grained, slightly micaceous, silty, scattered intergranular porosity, trace gas bubbles, no free oil, no odor

**WABAUNSEE 2406 (-650)**





micaceous, silty, scattered intergranular porosity, trace gas bubbles, no free oil, no odor

**WABAUNSEE 2406 (-650)**

Limestone; white-grey, fine xln, fossiliferous, sparry calcite cementation

CFS 2420

as above

Shale; grey-dark grey, silty

Limestone; white-grey, chalky

Shale; grey-greyish green silty

as above

Shale; as above

**TARKIO 2541 (-785)**

Limestone; tan; fine crystalline, fossiliferous, cherty, dense

Limestone; white-tan, fine crystalline, dolomitic in part, dense

**TARKIO SAND**

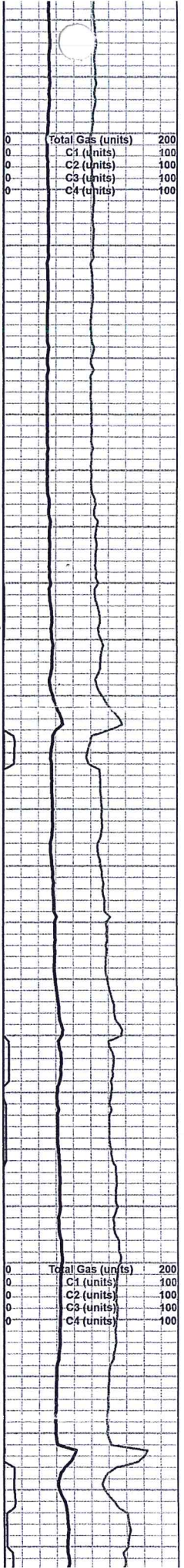
Sand; grey-greyish green, very fine grained, micaceous, silty, well sorted, shaley in part, friable, fair intergranular porosity, questionable gas bubble

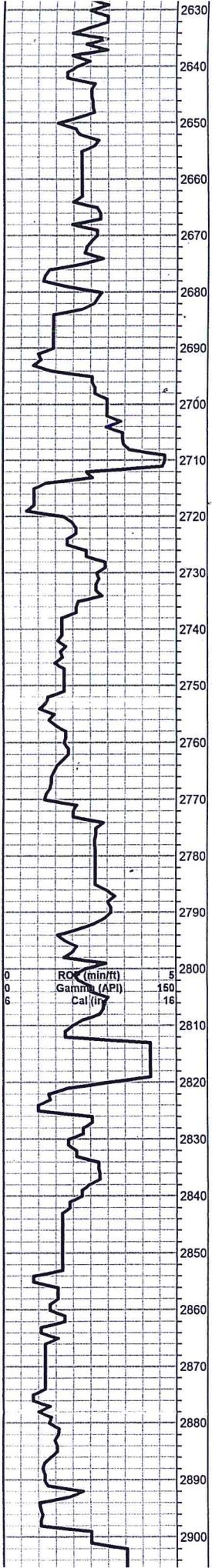
CFS 2590

as above plus abundant FeS<sub>2</sub>

**ELMONT 2626 (-870)**

Limestone; tan, fossiliferous, dense





Limestone; tan, fossiliferous, dense

Limestone; tan, fossiliferous, dense

Shale; grey-greyish green, limey

Shale and Limestone as above

Limestone; tan, white, cream, fine-medium crystalline, fossiliferous in part, cherty

as above

Shale; grey-dark grey, soft, micaceous

Shale as above plus poorly developed Sand, no shows

**HOWARD 2787 (-1031)**

Limestone; grey-tan, fossiliferous, dense

as above

green-grey shale

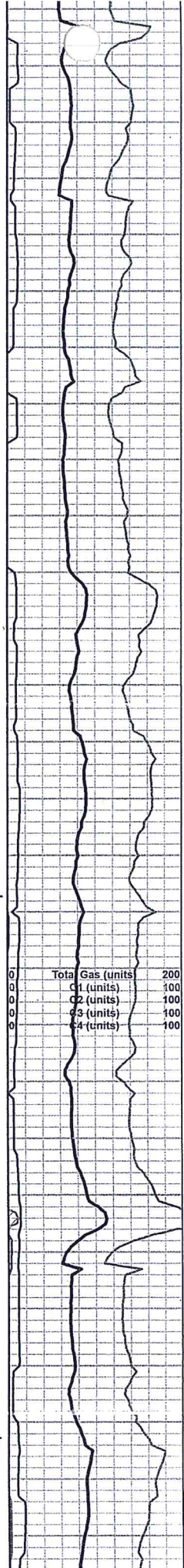
Limestone; grey-tan, fossiliferous, chalky

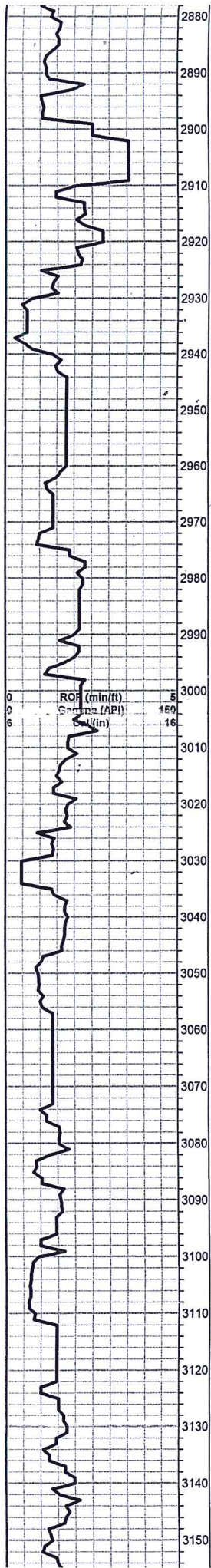
as above

grey-dark grey, green, silty Shale

Sand; white/grey, fine-medium grained, rounded-sub rounded, friable, micaceous, fair porosity, no shows

Sand as above





Sand; white/grey, fine-medium grained, rounded-sub rounded, friable, micaceous, fair porosity, no shows

Sand as above

**TOPEKA 2917 (-1161)**

Limestone; tan-grey, fine crystalline, scattered porosity, no shows

as above plus trace FeS<sub>2</sub>

as above

Limestone; white-grey, fine-medium crystalline, sparry calcite cement

as above plus white chalk

Limestone; tan-white, medium crystalline, "crumbly" chalky, with white chalk

as above

Limestone; grey-dark grey, shaley

trace coffee brown carboniferous Shale

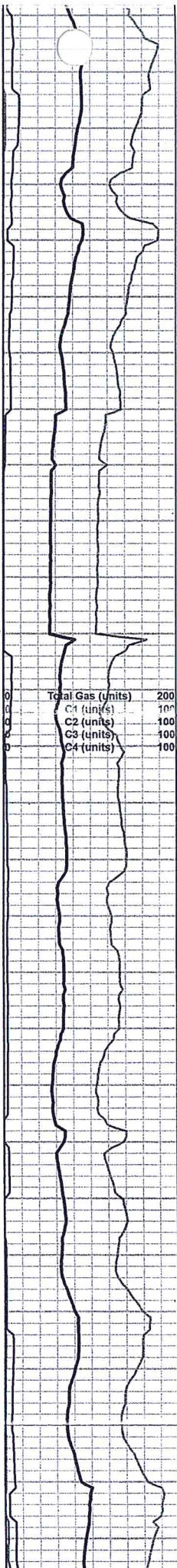
Limestone; white-grey, chalky, with abundant white chalk

as above

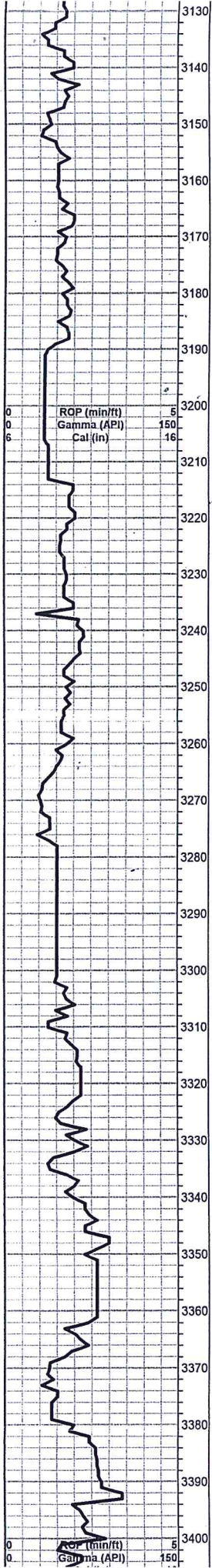
grey-light grey silty, micaceous Shale

as above

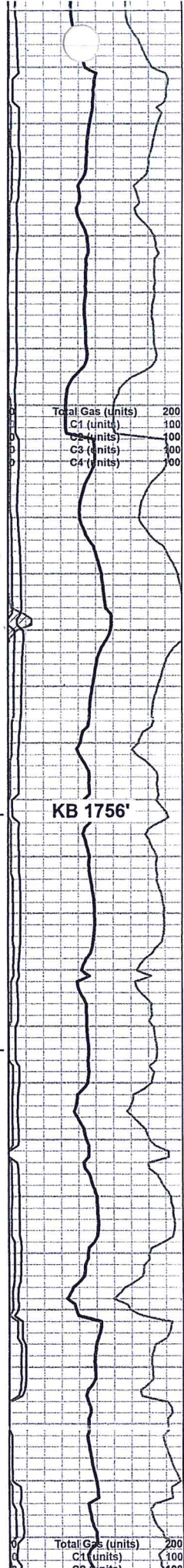
Limestone; tan-brown, fossiliferous in part, dense



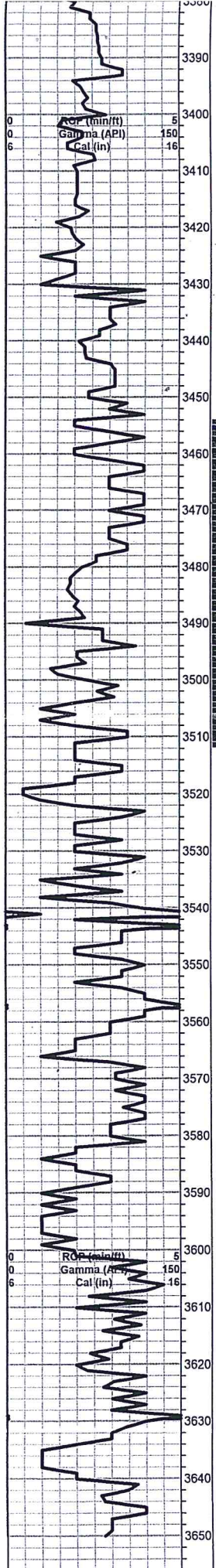
Total Gas (units)	200
C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100



Limestone; tan-brown, fossiliferous in part, dense  
  
 Limestone; grey-cream, medium crystalline, chalky, no shows  
  
 as above plus sparry calcite cement  
  
 trace grey-black Shale  
  
 Limestone; white-grey, medium crystalline, chalky, cherty, dense  
  
 Limestone; tan-grey, cherty in part, dense  
  
 as above  
  
 Black carboniferous Shale  
  
**HEEBNER 3273 (-1517)**  
  
 Black carboniferous Shale  
  
 Limestone; grey-dark grey, fossiliferous  
  
 Limestone; grey, fine crystalline dense, trace pin point porosity, dark grey cherty  
 Limestone, plus white chalk  
  
**DOUGLAS 3313 (-1557)**  
  
 Shale; dark grey-grey, silty in part,  
  
 Shale as above, plus Siltstone  
  
 Shale; grey-dark grey, silty in part, micaceous, plus Siltstone, grey, friable, no shows  
  
 as above  
  
 Shale; dark grey, fissile



**KB 1756'**



Shale; dark grey, fissile

as above

**BROWN LIME 3430 (-1674)**

Limestone; tan-brown, fine crystalline, dense, cherty

Shale; grey-green

**LANSING 3461 (-1705)**

Limestone; grey-buff, fine crystalline, cherty in part, fair inter crystalline porosity, brown stain, trace spotty free oil, fair odor

Limestone; cream-grey, fine crystalline, dense, trace poor intercrystalline porosity, brown stain, questionable spotty free oil, faint-fair odor

Limestone; grey, fine crystalline, vuggy porosity, brown stain, SFO, good odor

**CFS 3513**

Limestone; tan-buff-cream, fine-medium crystalline, dense, fossiliferous, fair inter crystalline porosity, spotty brown stain, SFO, fair odor

Limestone; brown-grey, fine xln, dense, cherty, poorly developed porosity, no shows

Limestone; as above plus white chalk

Limestone; brow-grey, fossiliferous, cherty in part, dense, few scattered inter crystalline porosity, trace dark brown stain, spotty SFO, fair odor

Limestone; cream-lt. grey, fine crystalline, fossiliferous, intercrystalline-vuggy porosity, brown stain, SFO, fair odor

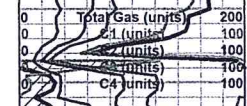
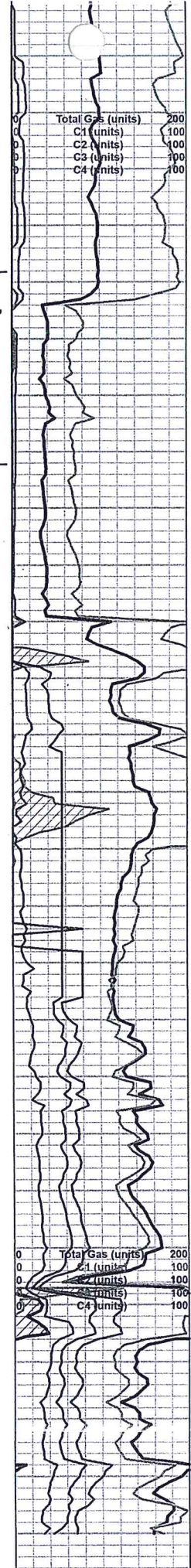
**CFS 3600**

Limestone; grey-tan, fine xln, dense, slightly fossiliferous, cherty, no shows, plus Chert; grey-white

Limestone; dark brown-grey, fine crystalline, fossiliferous, dense, cherty, fossiliferous, poor visible porosity, no shows

Limestone; cream-buff, sub oomoldic, fair-good oomoldic-vuggy porosity, slightly fossiliferous, questionable brown stain, no show of free oil, no odor, plus Chert lt. grey

**ROTARY TOTAL DEPTH 3650 (-1894)**

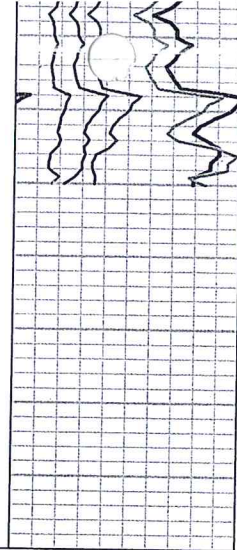
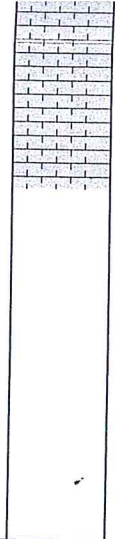
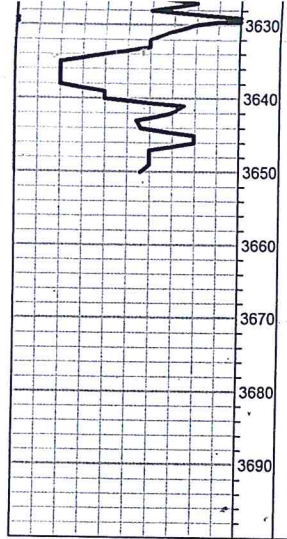




... porous, no chert

Limestone; cream-buff, sub oomoldic, fair-good oomoldic-vuggy porosity, slightly fossiliferous, questionable brown stain, no show of free oil, no odor, plus Chert lt. grey

**ROTARY TOTAL DEPTH 3650 (-1894)**



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



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

Andrew J. French, Chairperson  
Dwight D. Keen, Commissioner  
Annie Kuether, Commissioner

Laura Kelly, Governor

October 01, 2024

Jim Kraft  
C & K Operating LLC  
PO BOX 273  
KINGMAN, KS 67068-0273

Re: ACO-1  
API 15-095-22358-00-00  
MILES B8  
SE/4 Sec.19-27S-10W  
Kingman County, Kansas

Dear Jim Kraft:

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 04/06/2024 and the ACO-1 was received on October 01, 2024 (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