

Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	SOEKEN 22-2
Doc ID	1711169

All Electric Logs Run

Compensated Density/Neutron Log
Micro Log
Dual Induction Log
Dual Receiver Cement Bond Log

Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	SOEKEN 22-2
Doc ID	1711169

Tops

Name	Top	Datum
Anhydrite	644	1191
Base Anhydrite	662	1173
Heebner	2884	-1049
Toronto	2901	-1066
Douglas	2918	-1083
Brown Lime	2994	-1159
Lansing	3005	-1170
Base Kansas City	3261	-1426
Arbuckle	3266	-1431

Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	SOEKEN 22-2
Doc ID	1711169

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	646	Common	325	3% CC
Production	7.875	5.5	14	3338	60/40 poz	200	2% gel, 12% salt & 5# Gilsonite

[illegible]



TREATMENT REPORT

Acid Stage No. _____

Date 2/25/2023 District GB F.O. No. C60772Company K & N PETROLEUMWell Name & No. SOEKEN 22-2Location 22-17-11W Field _____County BARTON State KS

Type Treatment:	Amt.	Type Fluid	Sand Size	Pounds of Sand
Bkdown	_____ Bbl./Gal.	_____	_____	_____
_____	_____ Bbl./Gal.	_____	_____	_____
_____	_____ Bbl./Gal.	_____	_____	_____
_____	_____ Bbl./Gal.	_____	_____	_____
Flush	_____ Bbl./Gal.	_____	_____	_____

Casing: Size 5 1/2 Type & Wt. _____ Set at _____ ft.

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Liner: Size _____ Type & Wt. _____ Top at _____ ft. Bottom at _____ ft.

Cemented: Yes ☒ Perforated from _____ ft. to _____ ft.

Tubing: Size & Wt. _____ Swung at _____ ft.

Perforated from _____ ft. to _____ ft.

Treated from _____ ft.	to _____ ft.	No. ft.	0
from _____ ft.	to _____ ft.	No. ft.	0
from _____ ft.	to _____ ft.	No. ft.	0

Actual Volume of Oil / Water to Load Hole: _____ Bbl./Gal.

Pump Trucks. No. Used: Std. 365 Sp. _____ Twin _____Auxiliary Equipment 360-310TPersonnel GREG JOE CURTIS

Auxiliary Tools _____

Plugging or Sealing Materials: Type _____ Gals. _____ lb.

Company Representative _____

Treater _____

GREG C.

TIME	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
4:30				ON LOCATION
				PIPE SET @ 3337.65' INSERT SET @ 3324.70'
				CENTRALIZERS ON TOP OF JTS: 1,3,5,7,9
				BASKETS ON TOP OF JTS: 2,5
				CIRCULATE HOLE FOR 1 HOUR
				PUMP 650 GALS OF MUD FLUSH
				PLUG RATHOLE WITH 30 SKS AND PLUG MOUSEHOLE WITH 20 SKS
				MIX 200 SKS OF 60/40 2% GEL 12% SALT, 0.5% C-37, 0.5% C12, 0.5% C-41P
				5# PER SK GILSONITE
				RINSE PUMP AND LINE OUT.
				DISPLACE WITH 81.1 BBLS H2O
				PLUG LANDED AND HELD. RELEASE PRESSURE.
9:15				JOB COMPLETE
				THANK YOU!!!



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K&N Petroleum Inc.

22-17S-11W/Barton

1105 Walnut ST
Great Bend KS 67530

Soeken 22-2

Job Ticket: 69917

DST#: 1

ATTN: Jim Musgrove

Test Start: 2023.02.24 @ 14:05:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:51:00

Time Test Ended: 20:43:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Richie Samora

Unit No: 66

Interval: 3244.00 ft (KB) To 3277.00 ft (KB) (TVD)

Reference Elevations: 1834.00 ft (KB)

Total Depth: 3277.00 ft (KB) (TVD)

1824.00 ft (CF)

Hole Diameter: 7.79 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8355

Press@RunDepth: 80.76 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.02.24

End Date: 2023.02.24

Last Calib.: 1899.12.30

Start Time: 14:05:05

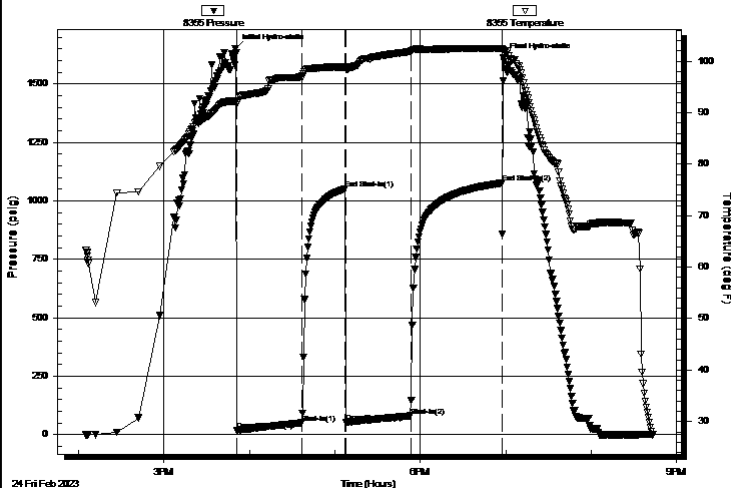
End Time: 20:43:44

Time On Btm: 2023.02.24 @ 15:50:15

Time Off Btm: 2023.02.24 @ 18:58:30

TEST COMMENT: 45-IF: Fair blow BOB in 43 minutes built to 12.41" in H2O
30-ISI: Weak surface blow built slightly.
45-FF: Fair blow built to 11.68" in H2O
60-FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1651.87	92.27	Initial Hydro-static
1	18.68	91.90	Open To Flow (1)
47	50.65	97.01	Shut-In(1)
77	1051.84	98.86	End Shut-In(1)
78	53.49	98.46	Open To Flow (2)
123	80.76	101.96	Shut-In(2)
187	1076.12	102.51	End Shut-In(2)
189	1610.85	102.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCOW 10%O 10%W 80%M	0.84
60.00	OCWM 80%O 5%W 15%M	0.84
38.00	CO 90%O 5%W 5%M	0.53
30.00	GIP	0.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Total Depth: 3277.00 ft (KB) (TVD)

Hole Diameter: 7.79 inches Hole Condition: Good

Reference Elevations: 1834.00 ft (KB)

1824.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8289

Press@RunDepth: psig @ ft (KB)

Start Date: 2023.02.24

End Date:

2023.02.24

Start Time: 14:05:01

End Time:

20:43:30

Capacity: 8000.00 psig

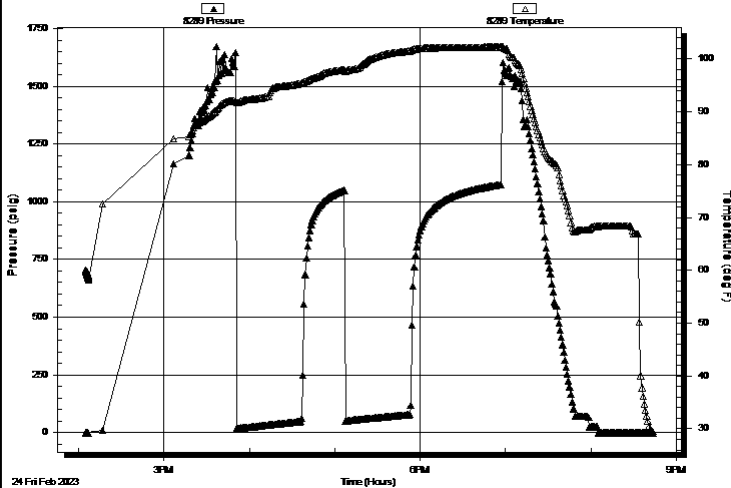
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

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Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
60.00	MCOW 10%O 10%W 80%M	0.84
60.00	OCWM 80%O 5%W 15%M	0.84
38.00	CO 90%O 5%W 5%M	0.53
30.00	GIP	0.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K&N Petroleum Inc.

22-17S-11W/Barton

1105 Walnut ST
Great Bend KS 67530

Soeken 22-2

Job Ticket: 69917

DST#: 1

ATTN: Jim Musgrove

Test Start: 2023.02.24 @ 14:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 61.00 sec/qt

Water Loss: 8.39 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCOW 10%O 10%W 80%M	0.842
60.00	OCWM 80%O 5%W 15%M	0.842
38.00	CO 90%O 5%W 5%M	0.533
30.00	GIP	0.421

Total Length: 188.00 ft

Total Volume: 2.638 bbl

Num Fluid Samples: 0

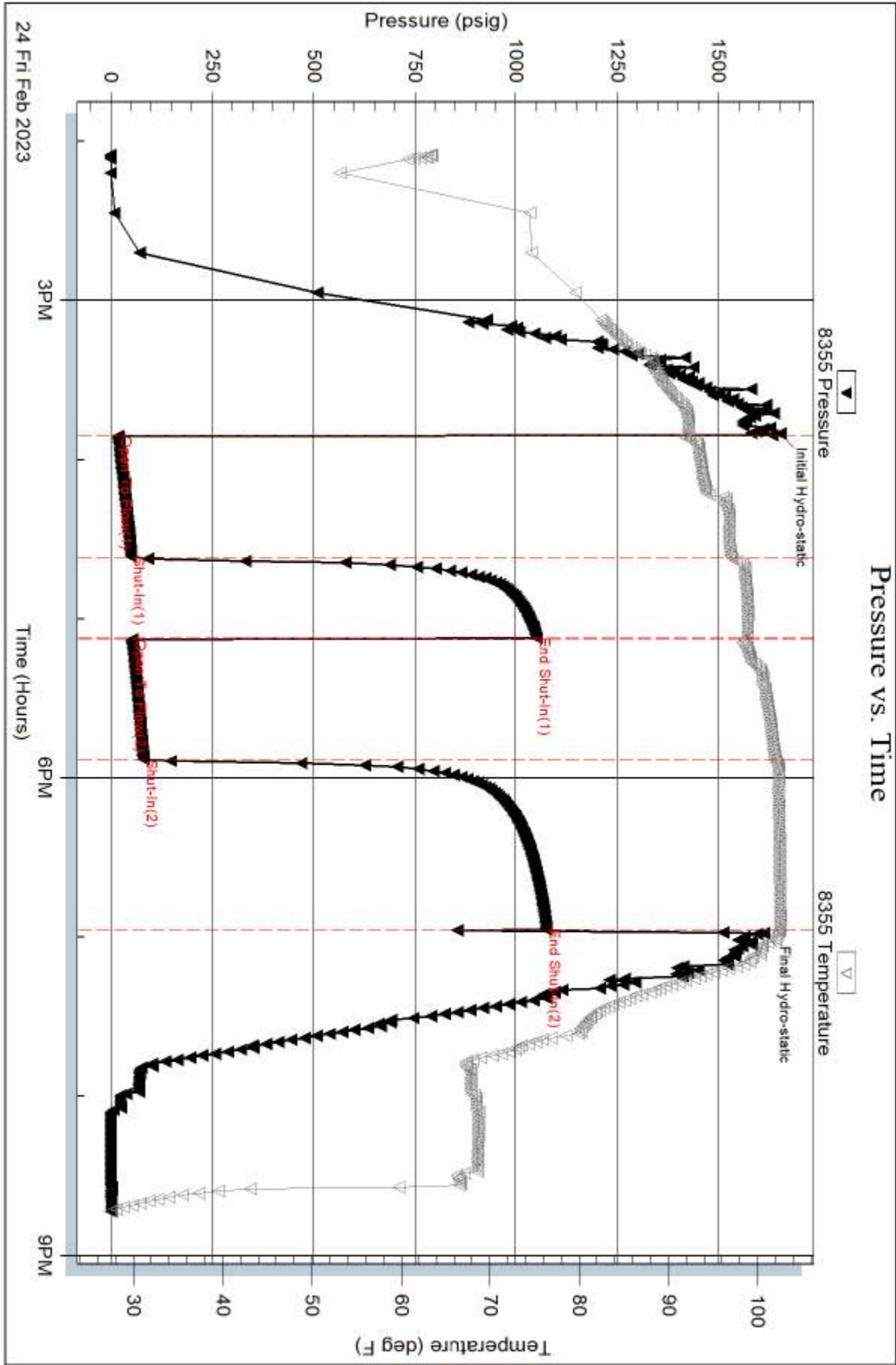
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

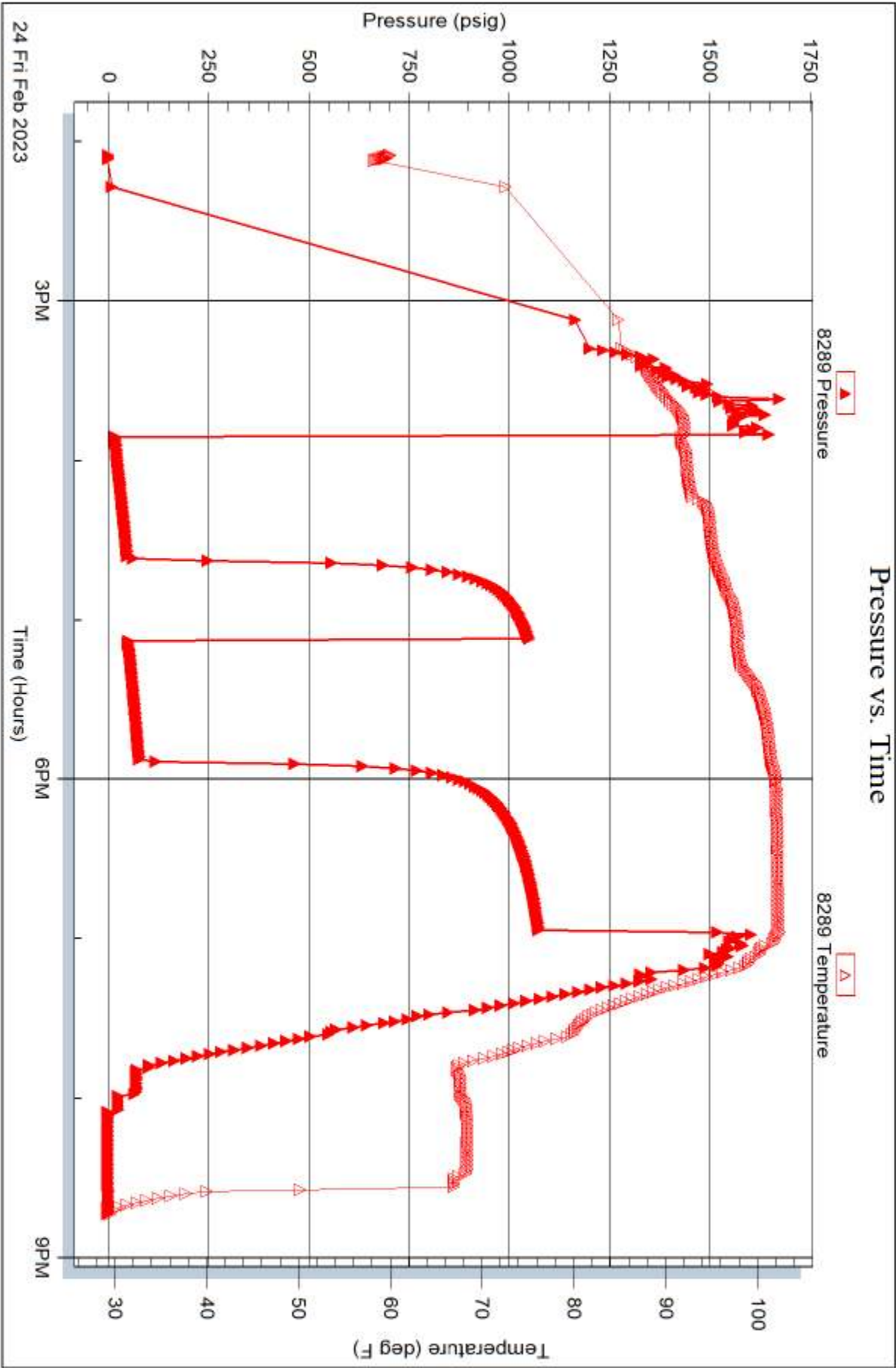


Serial #: 8289

K&N Petroleum Inc.

Soeken 22-2

DST Test Number: 1



OPERATOR

Company: KN Petroleum Inc.
Address: 1105 Walnut St
Great Bend, Kansas 67530

Contact Geologist: Jim Musgrove
Contact Phone Nbr: 620-786-0839
Well Name: Soeken 22-2
Location: 22-17s-11w SE-NE-NW-SW
API: 15-009-26382-00-00
Pool:
State: Kansas

Field: Kraft Prusa
Country: USA

**PETROLEUM, INC.**

Scale 1:240 Imperial

Well Name: Soeken 22-2
Surface Location: 22-17s-11w SE-NE-NW-SW
Bottom Location:
API: 15-009-26382-00-00
License Number: 3208
Spud Date: 2/20/2023
Region: Barton
Drilling Completed: 2/25/2023
Surface Coordinates: 1992' FSL & 1293' FWL
Bottom Hole Coordinates:
Ground Elevation: 1825.00ft
K.B. Elevation: 1835.00ft
Logged Interval: 2700.00ft
Total Depth: 3350.00ft
Formation: Arbuckle
Drilling Fluid Type: Chemical/Fresh Water Gel

Time: 12:00 AM

Time: 12:00 AM

To: 3351.00ft

CASING SUMMARY

	Surface	Intermediate	Main		
Bit Size					
Hole Size					
	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8 5/8" in	650' ft			
Int Casing					
Prod Casing	5 1/2" in	3342.65' ft			

CASING SEQUENCE

Type	Hole Size	Casing Size	At
	0.00 in	0.00	0.00 ft

OPEN HOLE LOGS

Logging Company: ELI
Logging Engineer: Cole Robben
Truck #:
Logging Date:
Logs Run: 0
Time Spent:
Logs Run Successful: 0

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
	0.00ft	0.00ft	0.00		0

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
12/5/2007	0.00ft	0.00ft	

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 Latitude:
 N/S Co-ord: 1992' FSL
 E/W Co-ord: 1293' FWL

LOGGED BY



Company: James C Musgrove Petroleum LLC
 Address: 212 Main Street/PO Box 215
 Claflin, KS 67525

Phone Nbr: 620-588-4250 620-786-0839
 Logged By: KLG #307

Name: James C Musgrove

CONTRACTOR

Contractor: Southwind Drilling Inc.
 Rig #: 1
 Rig Type: mud rotary
 Spud Date: 2/20/2023
 TD Date: 2/25/2023
 Rig Release:

Time: 12:00 AM
 Time: 12:00 AM
 Time:

ELEVATIONS

K.B. Elevation: 1835.00ft
 K.B. to Ground: 10.00ft
 Ground Elevation: 1825.00ft

NOTES

Remarks:

5 1/2" production casing was set and cemented on the K&N Petroleum Inc., Soeken #22-2.


Respectfully yours,

James C Musgrove
 Petroleum Geologist

well comparison sheet

SOEKEN #22-2					SOEKEN #1				HOWARD SOEKEN #3			
K&N PETROLEUM INC.					H-30, INC.				WILLIAM CLAUDE PHILLIPS			
SE-NE-NW-SW					NE-NW-SW				NW-NE-SW			
22-17s-11w					22-17s-11w				22-17s-11w			
1835 KB					1827 KB		Structural Relationship		1840 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	644	1191			630	1197		-6		645	1195	-4
Base Anhydrite	662	1173			660	1167		6				
Heebner	2884	-1049			2881	-1054		5		2888	-1048	-1
Toronto	2901	-1066								2907	-1067	1
Douglas	2918	-1083								2918	-1078	-5

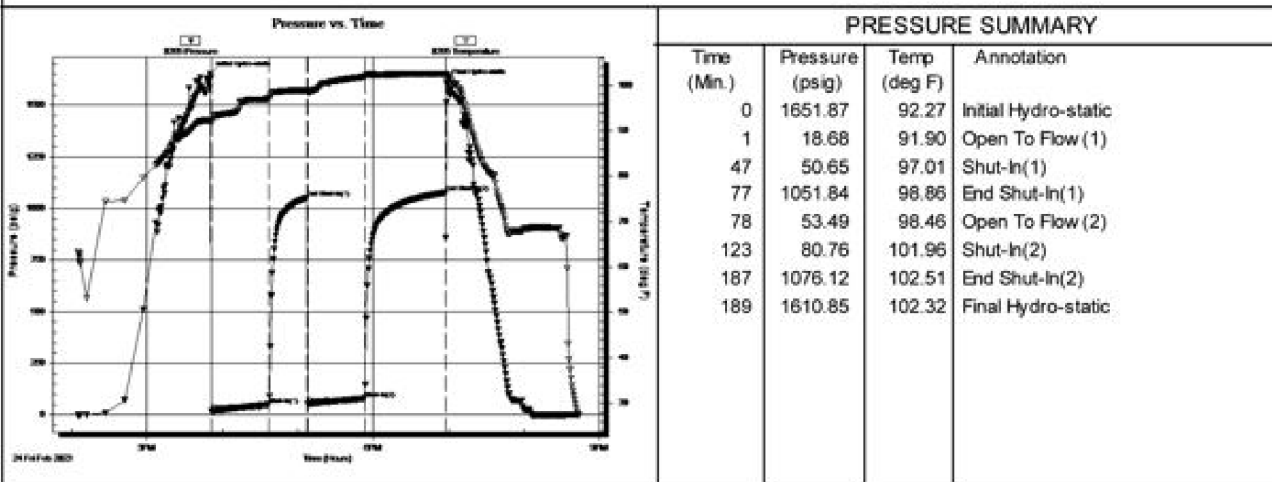
Douglas	2918	-1065					2918	-1078				
Brown Lime	2994	-1159					2999	-1159				0
Lansing	3005	-1170			3002	-1175		5	3017	-1177		7
Base Kansas City	3261	-1426			3203	-1376		-50				
Arbuckle	3266	-1431			3263	-1436		5	3271	-1431	-1431	0
Rotary Total Depth	3350	-1515			3265	-1438		-77	3324	-1484	-1484	-31
Log Total Depth	3351	-1516										

 <div style="display: inline-block; vertical-align: middle;"> TRILOBITE TESTING, INC. </div>	DRILL STEM TEST REPORT		
	K&N Petroleum Inc.		22-17S-11W/Barton
	1105 Walnut ST Great Bend KS 67530		Soeken 22-2
	ATTN: Jim Musgrove		Job Ticket: 69917 DST#: 1 Test Start: 2023.02.24 @ 14:05:00

GENERAL INFORMATION:			
Formation:	Arbuckle		
Deviated:	No	Whipstock:	ft (KB)
Time Tool Opened:	15:51:00		
Time Test Ended:	20:43:45		
Interval:	3244.00 ft (KB) To 3277.00 ft (KB) (TVD)		
Total Depth:	3277.00 ft (KB) (TVD)		
Hole Diameter:	7.79 inches		
Hole Condition:	Good		
Test Type:	Conventional Bottom Hole (Initial)		
Tester:	Richie Samora		
Unit No:	66		
Reference Elevations:	1834.00 ft (KB)		
	1824.00 ft (CF)		
KB to GR/CF:	10.00 ft		

Serial #: 8355			
Press@RunDepth:	80.76 psig @	ft (KB)	Capacity: 8000.00 psig
Start Date:	2023.02.24	End Date:	2023.02.24
Start Time:	14:05:05	End Time:	20:43:44
		Time On Btm:	2023.02.24 @ 15:50:15
		Time Off Btm:	2023.02.24 @ 18:58:30

TEST COMMENT: 45-IF: Fair blow BOB in 43 minutes built to 12.41" in H2O
30-IST: Weak surface blow built slightly.
45-FF: Fair blow built to 11.68" in H2O
60-FST: No blow back



Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
60.00	MCOW 10%O 10%W 80%M	0.84			
60.00	OCWM 80%O 5%W 15%M	0.84			
38.00	CO 90%O 5%W 5%M	0.53			
20.00	CD	0.42			

ROCK TYPES

Clystgy
Dolprim

sdv lmst
Lmst fw7>

shale, grn
shale, gry

Carbon Sh
shale, red

Sltst

OTHER SYMBOLS

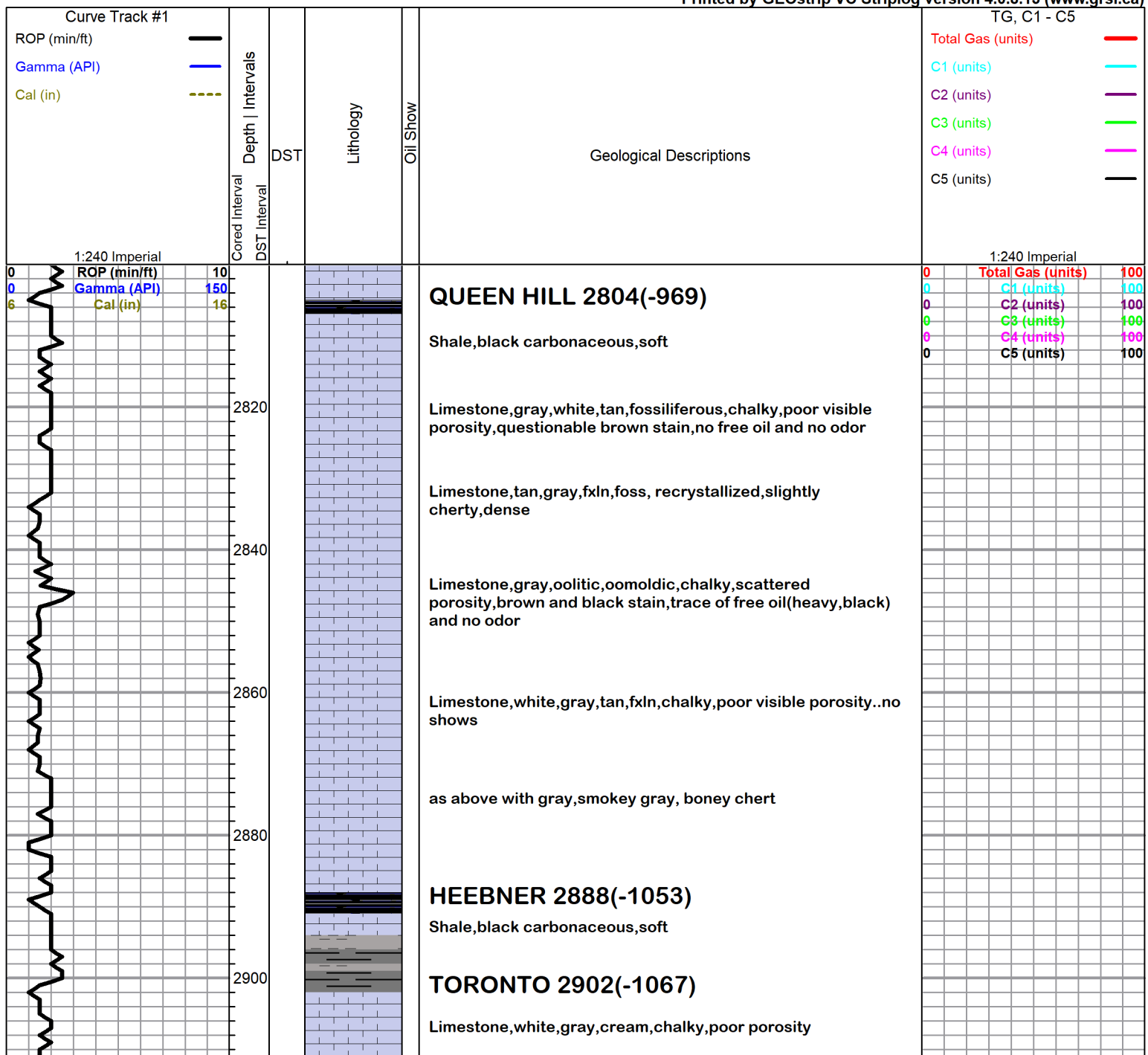
Oil Show

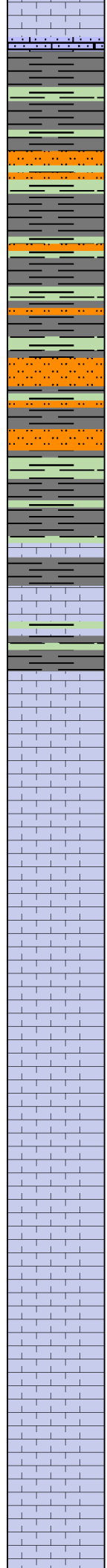
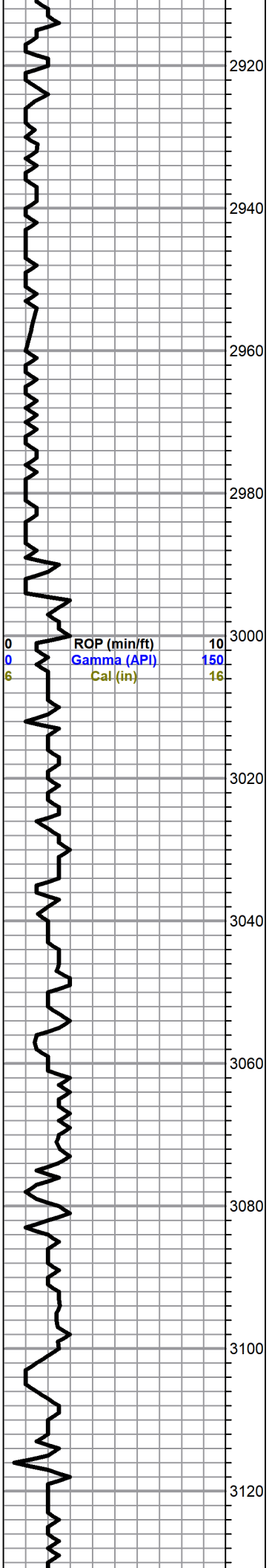
● Good Show
● Fair Show
○ Poor Show
○ Spotted or Trace
○ Questionable Stn
D Dead Oil Stn
■ Fluorescence
* Gas

DST

■ DST Int
■ DST alt
■ Core
■ tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





DOUGLAS 2918(-1083)

Shale,maroon,rusty brown,brick red, grayish green,blocky to silty

as above

varied colored silty micaceous shales

Limestone,white,gray,chalky

BROWN LIME 2994(-1159)

Limestone,tan,fxln,chalky,dense

LANSING 3005(-1170)

Limestone,gray,cream,fxln,foss,scattered porosity,brown and golden brown stain,trace of free oil and faint odor

Limestone,gray,white,oolitic,sub oomoldic,chalky,poor visible porosity,trace spotted brown stain, no free oil and no odor

Limestone,gray,cream,fxln,foss,poor porosity,no shows

Limestone,white,tan,oolitic, few sub oomoldic,chalky,cherty,poor visible porosity,poor stain,no free oil and no odor

Limestone,gray,tan,oolitic,chalky, poor porosity,poor stain,no free oil and no odor

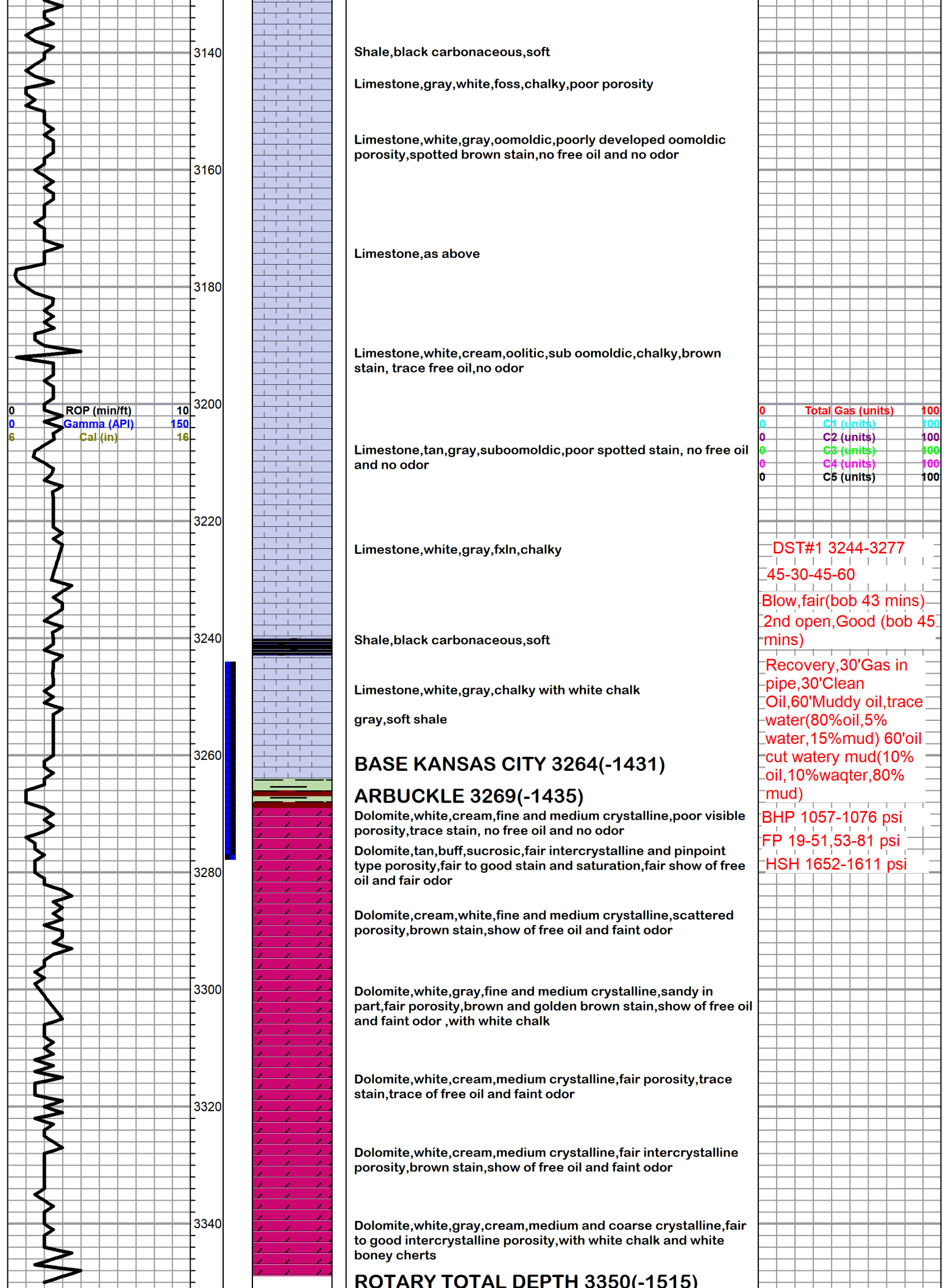
Limestone,tan,oolitic,dense

Limestone,white,cream,oomoldic,fair oomoldic porosity,trace brown stain, no show of free oil and no odor

as above

Limestone,gray,light gray,chalky and cherty,dense

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100



NO. WITH POWERED WHEELS (1015)

3360

3380