

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. 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) (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	Richard E. Smith Trust dba Smith Oil Operations
Well Name	SARA 1
Doc ID	1742734

Tops

Name	Top	Datum
ANHYDRITE	468	1278
HEEBNER	2936	-1190
TORONTO	2952	-1206
BROWN LIME	3064	-1318
LANSING	3082	-1336
BKC	3305	-1559
SIMPSON	3342	-1596
ARBUCKLE	3387	-1641

QUALITY WELL SERVICE, INC.

8371

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-786-6992

Fax 620-672-3663

Todd's Cell 620-388-4967

Brady's Cell 620-727-6964

Date	9-8-23	Sec.	15	Twp.	21S	Range	11W	County	STAFFORD	State	KS	On Location	Finish
Lease	SARA		Well No.		1		Location						
Contractor	DUKE DELA RIA #2							Owner					
Type Job	SURFACE							To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Hole Size	12 1/4		T.D.		253'		Charge To Smith Oil						
Csg.	8 5/8 24" NEW		Depth		252'		Street						
Tbg. Size			Depth				City						
Tool			Depth				State						
Cement Left in Csg.			Shoe Joint		20		The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line			Displace		14.76		Cement Amount Ordered 225 x 90/20						
EQUIPMENT										2 1/2 GAL 3 1/2 CC 1/2" PS USED 225 x			
Pumptrk	3	No.						Common 13050					
Bulktrk	15	No.						Poz. Mix 450					
Bulktrk		No.						Gel. 406 lbs					
Pickup		No.						Calcium 603 lbs					
JOB SERVICES & REMARKS										Hulls			
Rat Hole										Salt			
Mouse Hole										Flowseal 113 lbs			
Centralizers										Kol-Seal			
Baskets										Mud CLR 48			
D/V or Port Collar										CFL-117 or CD110 CAF 38			
Run 6 ft = 8 5/8 24" CSG SET @ 252										Sand			
START CSG CSG ON BOTTOM										Handling 244			
Hook up to CSG = BREAK CIRC W/ RIG										Mileage 50 / 12000			
START Pumping H2O										FLOAT EQUIPMENT			
START MIX Pump 225 x 90/20										Guide Shoe			
2 1/2 GAL 3 1/2 CC 1/2" PS - @ 14.0' GAL										Centralizer			
START Disp										Baskets			
CLOSE Valve on Csg 14.7 346 out										AFU Inserts			
Good Circ + H2O TOB										Float Shoe			
Circ CNT to PAT										Latch Down			
										SERVICE Spv 1 EA			
										LW 50			
THANK YOU										Pumptrk Charge SURFACE			
PLEASE CALL AGAIN										Mileage 100			
L2 (TODD) MATI													
JACKSON Agardman													
Signature <i>Dion Vasey</i>													
										Tax			
										Discount			
										Total Charge			

QUALITY WELL SERVICE, INC.

8383

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-786-6992

Fax 620-672-3663

Todd's Cell 620-388-4967

Brady's Cell 620-727-6964

Date	9-15-23	Sec.	15	Twp.	28S	Range	11W	County	STAFFORD	State	Ks	On Location		Finish	
Lease	SARA	Well No.	1	Location											
Contractor	DUKE OIL RIG #2							Owner							
Type Job	5 1/2 LS	To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.													
Hole Size	7 7/8	T.D.	3390'												
Csg.	5 1/2	Depth	3339'												
Tbg. Size		Depth	Charge To Smith Oil Operations												
Tool		Depth	Street												
Cement Left in Csg.		Shoe Joint	10.00												
Meas Line		Displace	80.40												
EQUIPMENT										The above was done to satisfaction and supervision of owner agent or contractor.					
Pumptrk	3	No.		Cement Amount Ordered 175x Pool 2' / EL 10' / SA 14											
Bulktrk	10	No.		5 1/4 Kolseal 6' / C16A 25' / CAIP 25' / 1/2 PI											
Bulktrk		No.		Common 175x											
Pickup		No.		Poz. Mix											
JOB SERVICES & REMARKS										Gel. 329 lbs					
Rat Hole	30x	Hulls													
Mouse Hole		Salt 964 lbs													
Centralizers	1-2-4-6-8-10	Flowseal 44 lbs													
Baskets	1	Kol-Seal 875 lbs													
D/V or Port Collar		Mud CLR 48 500 GAL													
Ran 85 ft's 5 1/2 155" CSG SET @ 3386	CFL-117 or CD110 CAF-38 C16A 99 lb														
START CSG CSG on Bottom: TAG	Sand CG-1 6 GAL CAIP 41 lb														
Hook up to CSG! BREAK CIRCULAR	Handling 236														
DROP BALL SET PKR SHOE! CIRCULAR	Mileage 50 / 11,800														
START Pumping 10 Bbl H ₂ O / 12 Bbl MIF / 10 Bbl H ₂ O	5 1/2 FLOAT EQUIPMENT														
START Plug & Hole 304	Guide Shoe 4' M 1 EA														
START Mix Pump 145x Pool @ 14.3" / GAL	Centralizer 6 EA														
SHOT DOWN Wash, tek Release 5 1/2 LD Pkg	Baskets 1 EA														
START Disp w/ 2 1/4 KCL	AFU Inserts PKR SHOE 1 EA														
LEFT PSI 64 at 550"	Float Shoe														
Plug Down 80.40 at 1500'	Latch Down 1 EA														
Rig up CSG 1700"	SERVICE Srv 1 EA														
RELEASE & HELD 1/2 Bbl Back	LMV 50														
Good Circ thru JOB	Pumptrk Charge LS														
THANK YOU TOOD	Mileage 100														
PLEASE CALL AGAIN MATT ACTHE	Signature														
													Tax		
													Discount		
													Total Charge		



Joshua R. Austin

Petroleum Geologist

report for

Smith Oil Operations



COMPANY: Smith Oil Operations

LEASE: SARA # 1

FIELD: Snider South

LOCATION: NE-NE-SW (2310' FSL & 2310' FWL)

SEC: 15 TWSP: 21s RGE: 11w

COUNTY: Stafford STATE: Kansas

KB: 1746' GL: 1738'

API # 15-185-24146-00-00

CONTRACTOR: Duke Drilling Co. (rig #2)

Spud: 09/08/2023 Comp: 09/16/2023

RTD: 3391' LTD: 3390'

Mud Up: 2550' Type Mud: Chemical was displaced

Samples Saved From: 2600-RTD

Drilling Time Kept From: 2500-RTD

Samples Examined From: 2600-RTD

Geological Supervision From: 2800' - RTD

Geologist on Well: Josh Austin

Surface Casing: 8 5/8" @ 253'

Production Casing: 5 1/2" @ 3386'

Electronic Surveys: Gemini Wireline (CNL/CDL, DIL,MEL)

NOTES

The Smith Oil Operations, Sara #1 was drilled to a total depth of 3390', bottoming in the Arbuckle. A gas detector was employed in the drilling of said well.

3 DST's were conducted throughout the Lansing, Simpson and Arbuckle Zones. The DST Reports can be found below.

On the basis of the positive drill stem test results, shows in the samples, gas kicks, and log analysis, it was determined by all parties involved to set 5/12" production casing on the Sara #1, to further test the zones.

Recommendations and perforations can be found on the typed report.

Respectfully Submitted,

Josh Austin

Smith Oil Operations

well comparison sheet

DRILLING WELL SARA #1					COMPARISON WELL FAIR # 3				COMPARISON WELL FAIR #1			
1746 KB					1743 KB		Structural Relationship		1743 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	470	1276	468	1278	468	1275	1	3				
Topeka	2658	-912	2650	-904								
Heebner	2933	-1187	2938	-1190	2930	-1187	0	-3	2924	-1181	-6	-9
Toronto	2953	-1207	2952	-1206	2946	-1203	-4	-3	2943	-1200	-7	-6
Douglas	2966	-1220	2966	-1220	2960	-1217	-3	-3				
Brown Lime	3064	-1318	3064	-1318	3059	-1316	-2	-2	3052	-1309	-9	-9
Lansing	3081	-1335	3082	-1336	3075	-1332	-3	-4	3066	-1323	-12	-13
Base KC	3303	-1557	3305	-1559	3292	-1549	-8	-10	3295	-1552	-5	-7
Conglomerate	3337	-1591	3330	-1584	3330	-1587	-4	3	3331	-1588	-3	4
Simpson Sand	3344	-1598	3342	-1596	3342	-1599	1	3				
Arbuckle	3387	-1641	3387	-1641	3370	-1627	-14	-14	3370	-1627	-14	-14
Total Depth	3391	-1645	3390	-1644	3381	-1638			3473	-1730		



TRIOBITE
TESTING, INC

DRILL STEM TEST REPORT

Smith Oil Operations
PO Box 550
Hutchinson, KS 67504
ATTN: Josh Austin

15-21S-11W Stafford
Sara 1
Job Ticket: 70690 DST#: 1
Test Start: 2023.09.12 @ 22:36:00

GENERAL INFORMATION:

Formation: Lansing "H-K"
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 01:18:17
 Time Test Ended: 06:54:02
 Interval: 3212.00 ft (KB) To 3275.00 ft (KB) (TVD)
 Total Depth: 3275.00 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: 1746.00 ft (KB)
 1738.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8372 Inside
 Press@RunDepth: 91.68 psig @ 3257.00 ft (KB) Capacity: psig
 Start Date: 2023.09.12 End Date: 2023.09.13 Last Calib.: 2023.09.13
 Start Time: 22:36:01 End Time: 06:54:02 Time On Btm: 2023.09.13 @ 01:17:47
 Time Off Btm: 2023.09.13 @ 04:17:02

TEST COMMENT: F: Strong Blow, BOB in 18 minutes, Built to 69.78"
 IS: No Blow Back
 FF: Strong Blow, BOB immediate. Built to 208.42"
 FS: 41" Blow Back

Serial #: 8372**Inside**

Press@RunDepth: 91.68 psig @ 3257.00 ft (KB)

Capacity: psig

Start Date: 2023.09.12

End Date:

2023.09.13

Last Calib.:

2023.09.13

Start Time: 22:36:01

End Time:

06:54:02

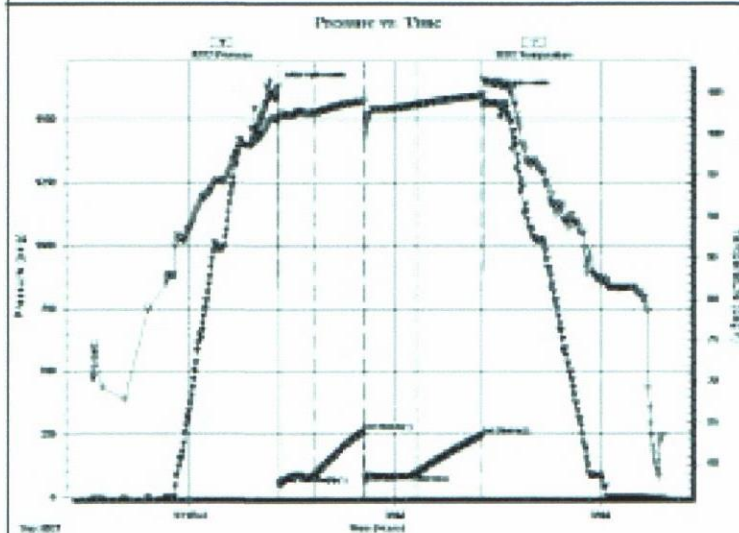
Time On Btm:

2023.09.13 @ 01:17:47

Time Off Btm:

2023.09.13 @ 04:17:02

TEST COMMENT: F: Strong Blow, BOB in 18 minutes, Built to 69.78"
 St: No Blow Back
 FF: Strong Blow, BOB immediate, Built to 208.42"
 FSt: 41" Blow Back

**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1627.74	101.93	Initial Hydro-static
1	53.44	101.89	Open To Flow (1)
32	88.19	102.71	Shut-In (1)
75	259.89	104.03	End Shut-In (1)
77	87.92	99.95	Open To Flow (2)
120	91.68	103.57	Shut-In (2)
179	242.62	104.74	End Shut-In (2)
180	1594.59	106.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2254' GIP	0.00
125.00	SGCM 5%G 95%M	1.75

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Smith Oil Operations

15-21S-11W Stafford

PO Box 550
Hutchinson, KS 67504**Sara 1**

Job Ticket: 70691

DST#: 2

ATTN: Josh Austin

Test Start: 2023.09.13 @ 15:44:00

GENERAL INFORMATION:Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:20:47

Time Test Ended: 22:08:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 72

Interval: 3318.00 ft (KB) To 3353.00 ft (KB) (TVD)

Total Depth: 3353.00 ft (KB) (TVD)

Reference Elevations: 1746.00 ft (KB)

1738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8372**Inside**

Press@RunDepth: 80.98 psig @ 3324.00 ft (KB)

Capacity: psig

Start Date: 2023.09.13

End Date:

2023.09.13

Last Calib.:

2023.09.13

Start Time: 15:44:01

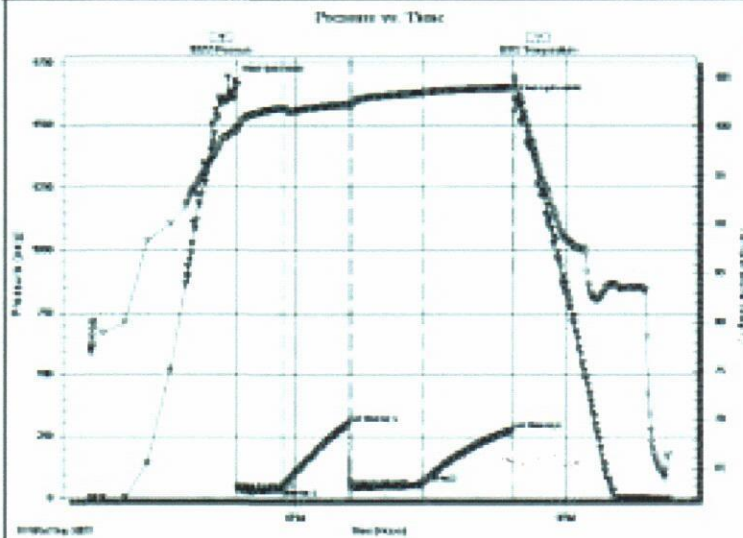
End Time:

22:09:02

Time On Btm:

2023.09.13 @ 17:19:32

TEST COMMENT: F: Strong Blow, BOB in 4 minutes, Built to 94.38"
 St: No Blow Back
 FF: Strong Blow, BOB Immediate, Built to 150.98"
 FS: 1.68" Blow Back

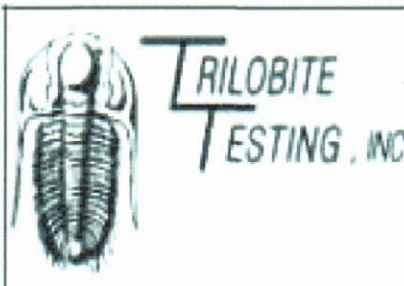


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.71	99.61	Initial Hydro-static
2	32.09	99.32	Open To Flow (1)
32	39.55	101.91	Shut-in (1)
77	300.70	102.25	End Shut-in (1)
78	43.74	102.22	Open To Flow (2)
125	60.98	103.49	Shut-in (2)
185	275.38	104.05	End Shut-in (2)
186	1603.84	105.11	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	2530' GP	0.00
75.00	GOCM 5%G 20%O 75%M	1.05

* Recovery from multiple tests

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



DRILL STEM TEST REPORT

Smith Oil Operations	15-21S-11W Stafford
PO Box 550 Hutchinson, KS 67504	Sara 1
ATTN: Josh Austin	Job Ticket: 70692 DST# 3
	Test Start: 2023.09.14 @ 08:24:00

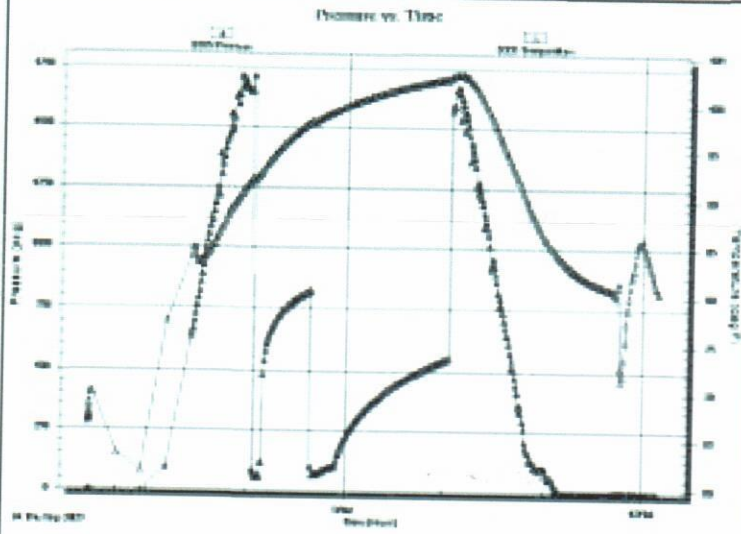
GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock ft (KB)	Tester: Leal Gason
Time Tool Opened: 08:04:02	Unit No: 72
Time Test Ended: 12:10:02	Reference Elevations: 1746.00 ft (KB)
Interval: 3386.00 ft (KB) To 3391.00 ft (KB) (TVD)	1738.00 ft (CF)
Total Depth: 3391.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good	

Serial #: 8365	Outside	Capacity: psig
Press@RunDepth: psig @ 3388.00 ft (KB)	Start Date: 2023.09.14	Last Calib: 2023.09.14
Start Time: 08:24:01	End Date: 2023.09.14	Time On Btm:
	End Time: 12:10:02	Time Off Btm:

TEST COMMENT: F: Strong Blow, BOB Immediate Built to 168.44"
 St: 11.69" Blow Back
 FF: Strong Blow, BOB on 2 minutes, Built to 121.26"

TEST COMMENT: F: Strong Blow, BOB Immediate Built to 168.44"
 IS: 11.69" Blow Back
 FF: Strong Blow, BOB on 2 minutes, Built to 121.26"
 FS: 32.9" Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3018' GP	0.00
60.00	GMCO 40%G 20%M 40%O	0.84
310.00	GSY O: 20%G 80%O	4.35

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mold)

* Recovery from multiple tests

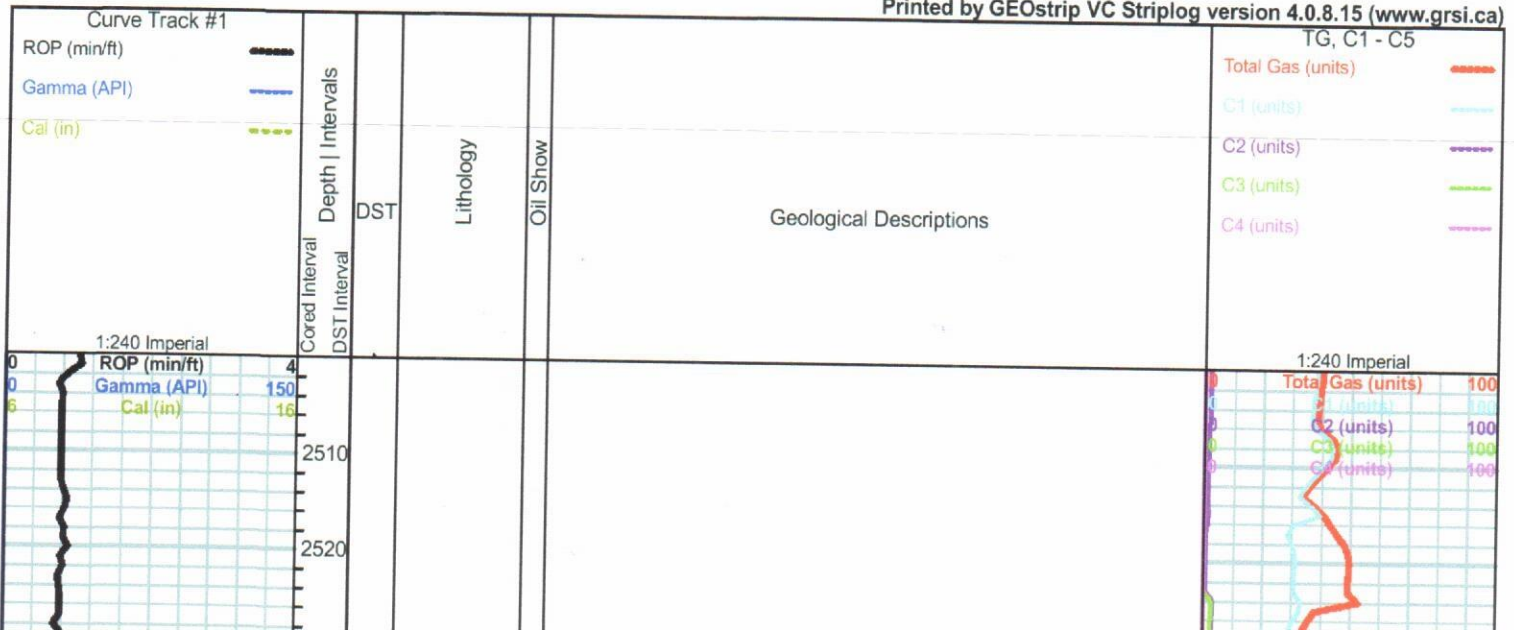
ROCK TYPES

Chtcong	Lmst fw7>	shale, gry	Ss
Dolsec	shale, grn	Carbon Sh	Slst

OTHER SYMBOLS

- DST**
 DST Int
 DST alt

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



HOWARD 2548 (-802)

Wet and Dry Samples 2600' to RTD

Sand; grey-greish green, very fine grained, sub angular, sub rounded, friable, micaceous in part, fair intergranular porosity, no shows

Sand as above plus grey-greish green micaceous shale

TOPEKA 2658 (-912)

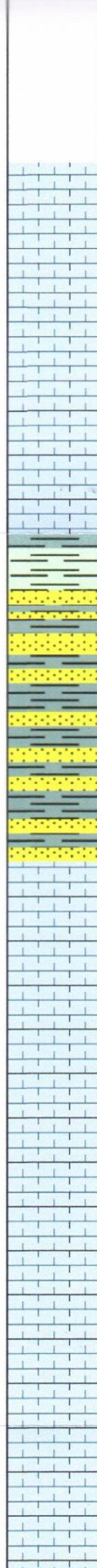
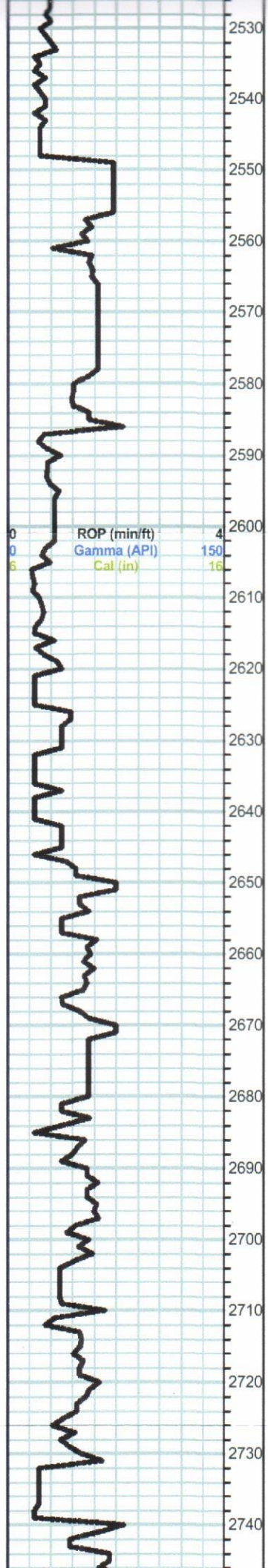
Limestone; cream, fine-medium xln, fossiliferous, chalky, slightly granular

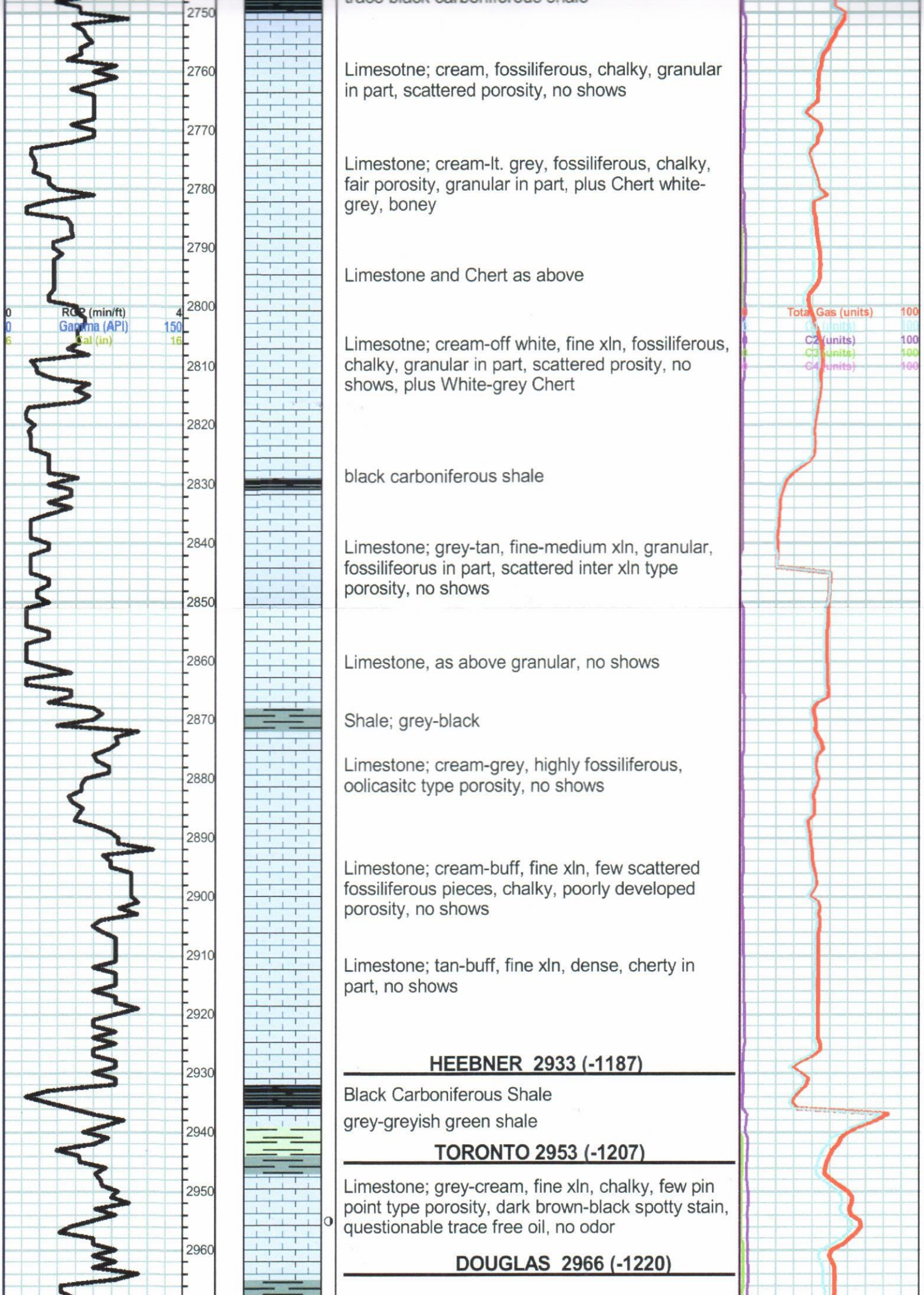
Limestone; cream-white, chalky, fossiliferous, few scattered porosity, no shows

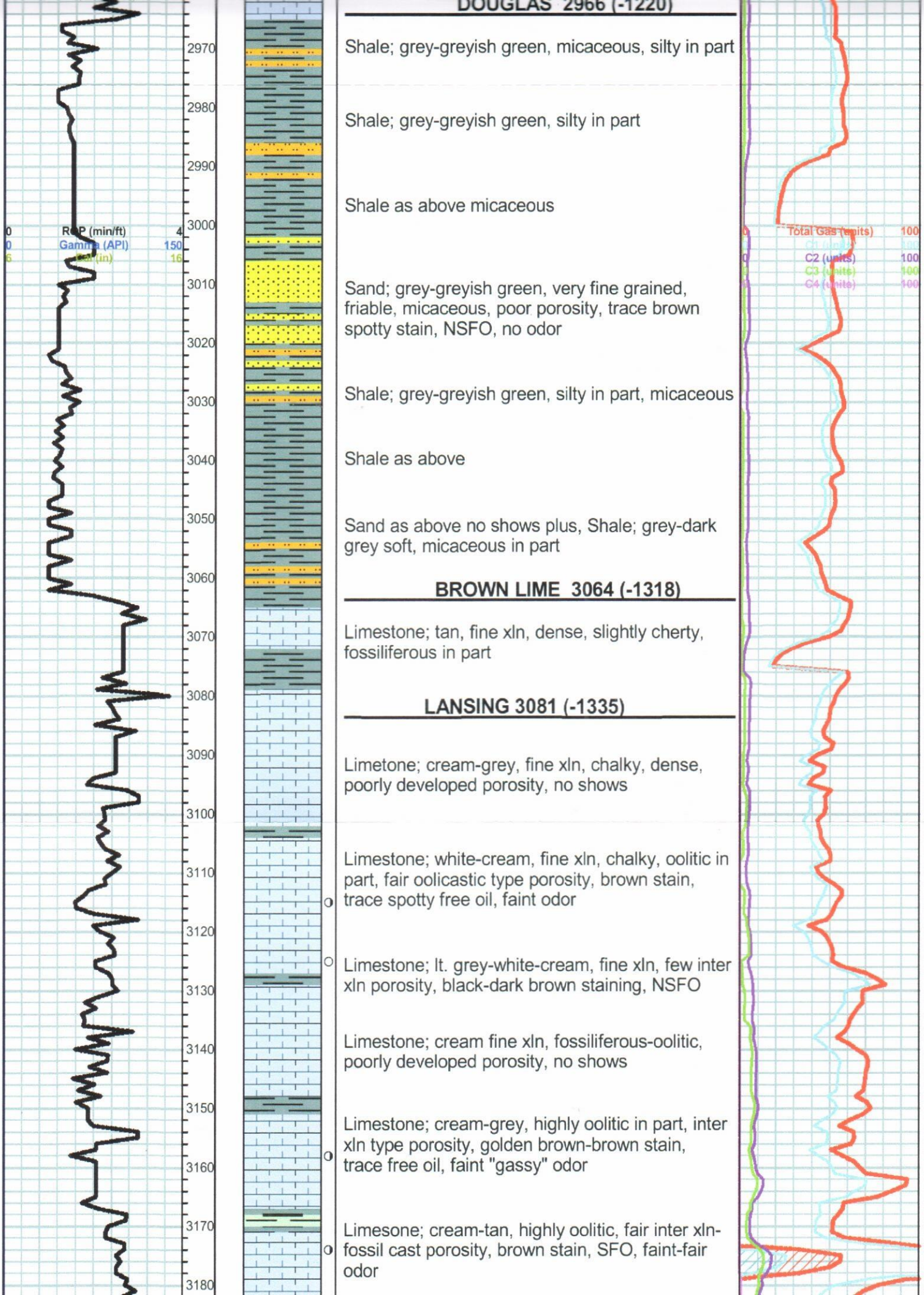
Limestone; brown-grey, fine xln, dense, cherty in part, poor visible porosity, no shows

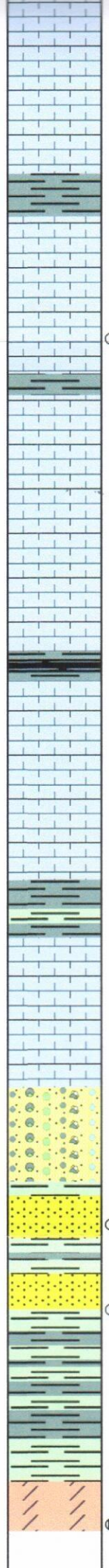
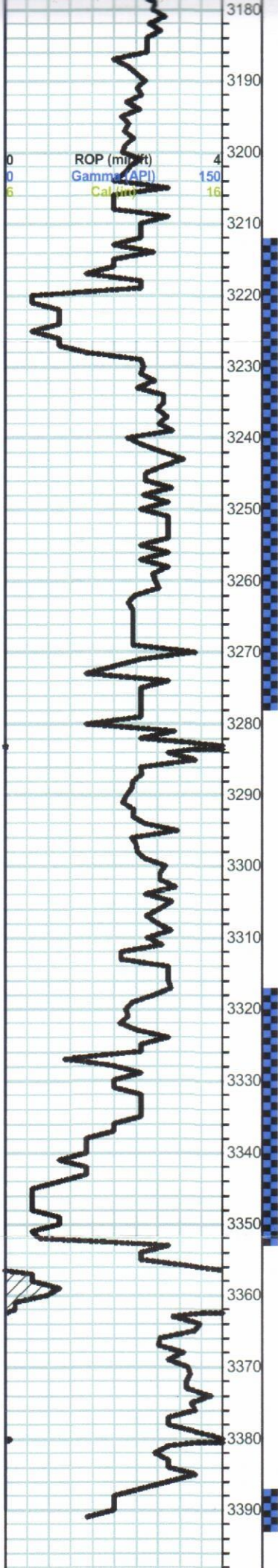
Limestone; cream-grey, fine xln, fossiliferous, chalky in part, dense

Limestone; cream-grey, fossiliferous/oolitic, chalky, scattered inter xln-fossil cast type porosity, no shows









Limestone; cream, oolitic, oomoldic porosity, trace brown stain, (80% barren)

Limestone; cream. fine xln, dense, oolitic in part, few scattered oomoldic porosity, no shows

grey-brick red shale

Limestone; cream-grey, fine xln, dense, chalky in part, few scattered porosity, no shows

Limestone; buff-lt. grey, sub oomoldic, highly oolitic, fair oomoldic porosity, brown stain, spotty SFO, faint odor

Limestone; white, oolitic, chalky in part, inter xln-oolitic porosity, black stain, spotty SFO, faint-fair odor

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

Limestone; buff, fine xln, dense, oolitic in part, poor porosity, no shows

black - grey shale

Limestone; grey-buff, fine xln, dense, chalky in part, few fossiliferous-oolitic pieces, no shows

Limestone; as above no shows

BASE KANSAS CITY 3303 (-1557)

Shale; grey-greyish green, maroon, silty and micaceous in part

Limestone; grey-cream, fine xln, chalky, cherty in part, no shows

CONGLOMERATE 3337 (-1591)

Limestone; grey-buff-cream, fine xln, dense, cherty, plus Chert, grey, semi tripolitic

SIMPSON SAND 3344 (-1598)

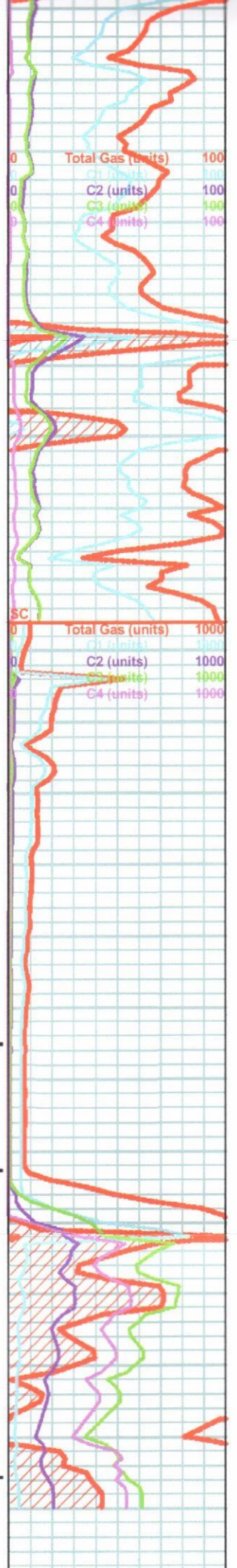
Sand; clear-tan, fine grained, sub rounded, sub angular, friable, fair-good inter granular porosity, brown stain, SFO, gas bubbles, good odor (1100 unit gas kick)

Sand; tan-brown, dense, quartzite, poor porosity, SFO when sample broke

Shale; grey-green-maroon

ARBUCKLE 3387 (-1641)

Dolomite; tan-buff, fine xln, dense, cherty in part, inter xln porosity, brown stain, SFO, gas bubbles



0	ROP (min/ft)	4	3400
0	Gamma (API)	150	
6	Cal (in)	16	
			3410
			3420

ROTARY TOTAL DEPTH 3391 (-1645)

0	Total Gas (units)	1000
0	C1 (units)	1000
0	C2 (units)	1000
0	C3 (units)	1000
0	C4 (units)	1000

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