



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1168484
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1168484

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 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				

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

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

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 061134

Federal Tax I.D. # 20-8651478

REMIT TO P.O. BOX 93999
SOUTH LAKE, TEXAS 76092

SERVICE POINT: Daddy KS

DATE <u>9/21/13</u>	SEC <u>17</u>	TWP <u>22</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>6:30 a.m.</u>	JOB START <u>11:00 a.m.</u>	JOB FINISH <u>11:30 a.m.</u>
LEASE <u>Garden City</u>	WELL # <u>4-12</u>	LOCATION <u>Tennis Rd w to Bielow 1W</u>				COUNTY <u>Finney</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)			<u>3/4 S W into</u>				

CONTRACTOR 112
 TYPE OF JOB Production (2 stage)
 HOLE SIZE 7 7/8 T.D. 4860
 CASINO SIZE 5 1/2 14" DEPTH 4858
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL JOINT Top DEPTH 2800
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOULDER 15.00'
 CEMENT LEFT IN CSG. 15.00'
 PERFS _____

OWNER Same 1.02
 CEMENT AMOUNT ORDERED 210 sks ASC 10% salt
5 galonite, 2/gal 12 Bbl super flush.
550 sks 11# 1/4" Flo - Seal

DISPLACEMENT Bottom 49.85' to 68.5' mud Top 68.32' to 49.85'
 EQUIPMENT
 PUMP TRUCK # 170 CEMENTER Paul Beaver / Andrew
 HELPER Tyler Eclipse
 BULK TRUCK # 1600 DRIVER Chris Helping
 BULK TRUCK # 566 DRIVER David Scartone

COMMON	@		
POZMIX	@		
OBL	<u>4 sks</u>	@ <u>23.40</u>	<u>92.60</u>
CHLORIDE	@		
ASC	<u>210 sks</u>	@ <u>20.90</u>	<u>4389.00</u>
11#	<u>550 sks</u>	@ <u>15.95</u>	<u>8697.50</u>
Salt	<u>22 sks</u>	@ <u>26.05</u>	<u>573.10</u>
galonite	<u>1184 lbs</u>	@ <u>.78</u>	<u>923.52</u>
Flo - seal	<u>120 #</u>	@ <u>2.97</u>	<u>356.40</u>
Super Flush WFR	<u>12 Bbl</u>	@ <u>58.70</u>	<u>704.40</u>
HANDLING	<u>897.87 #</u>	@ <u>2.48</u>	<u>2226.72</u>
MILBAG	<u>37.85 ton x 25'</u>	@ <u>2.60</u>	<u>7283.25</u>

REMARKS:
 Drop ball circulate ball went through @ 600' mic
 12 bbl N.P.S.T. mic 210 sks ASC. wash up pump & legs
 Dipper with underfoot Ply dead endland @ lost of circulation
 Left pressure 700' Drop ball open tool @
 circulate 1 hr - 11 1/2 sks mud mix 20 sks B.H.
 mic 5' cracks 1 1/2 down 5 1/2 wash up pump &
 lines dipper with water plus did land
 @ 1700' 11# of pressure 200' cement did
 circulate 20 Bbls to the pit.

4 bbl before
100% Displacement
2801.25
SERVICE

TOTAL	<u>25,619.35</u>
DEPTH OF JOB	<u>4858'</u>
PUMP TRUCK CHARGES	<u>2443.75</u> <u>2765.75</u>
EXTRA FOOTAGE	@
MILBAG MILBU	<u>75</u> @ <u>7.70</u> <u>577.50</u>
MANIFOLD Head	@ <u>275.00</u>
MILBU	@ <u>4.40</u> <u>330.00</u>

CHARGE TO: Lebsack Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 6392.00

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

PLUG & FLOAT EQUIPMENT

Weatherford 5 1/2		
DV tool	@	<u>5335.26</u>
Guide shoe	@	<u>280.80</u>
AFU Float insert	@	<u>384.60</u>
Basket	@	<u>394.89</u>
centralizers 7	@ <u>57.33</u>	<u>401.31</u>

PRINTED NAME Beit Mast
 SIGNATURE _____

TOTAL 6746.28
 SALES TAX (If Any) 1669.46
 TOTAL CHARGES 38752.63
 DISCOUNT 7776.18 IF PAID IN 30 DAYS
30976.45
6402.27
25609.08

8772.50

ALLIED OIL & GAS SERVICES, LLC 061103

Federal Tax I.D. # 20-8651476

REMIT TO P.O. BOX 93999
SOUTH LAKE, TEXAS 76092

SERVICE POINT

Wakley, KS
9-12-13 9-12-13

DATE <u>9-11-13</u>	SEC. <u>12</u>	TWP. <u>22</u>	RANGE <u>E4</u>	CALLED OUT <u>5:00 PM</u>	ON LOCATION <u>8:00 PM</u>	JOB START <u>5:00 AM</u>	JOB FINISH <u>5:30 AM</u>
LEASE <u>Cane</u>	WELL # <u>4-12</u>	LOCATION <u>Tennis Rd + 4555 W to B.R.</u>			COUNTY <u>PT WASH</u>	STATE <u>Ks</u>	
OLD OR (NEW) (Circle one) <u>NEW</u>				<u>base Rd 1.0 3/4" 10' into</u>		<u>1.0 1.3</u>	

CONTRACTOR H2 #2
 TYPE OF JOB Suppore
 HOLE SIZE 12 1/4 TD 439
 CASING SIZE 4032 12 1/4 DEPTH 437
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 263 1/4

OWNER Same

CEMENT AMOUNT ORDERED 290 sacks Cam 320cc
250 gal + 300 sacks Cam 320cc 2750

COMMON #	<u>440</u>	⊙	<u>172</u>	<u>28762</u>
POZMIX		⊙		
GEL	<u>8</u>	⊙	<u>2342</u>	<u>18782</u>
CHLORIDE	<u>112</u>	⊙	<u>142</u>	<u>10422</u>
ASC		⊙		

EQUIPMENT

- ⊙ PUMP TRUCK CEMENTER Kelly O'Neil
- ⊙ # 372 HELPER Wayne Melaphy
- ⊙ BULK TRUCK
- ⊙ # 373 DRIVER Alex (TMS)
- ⊙ BULK TRUCK
- ⊙ # _____ DRIVER

REMARKS:

Safety meeting, rigged up, hooked up to circulate. In the 290 sacks. Cam 320cc 250 gal release plug & displaced with 2 1/4" diameter. Shut in cement did not circulate so ran line pipe 5' below surface & tubing cement to surface, rigged down. Kelly & Alex

HANDLING 4200 @ 2.75 11550
 MILEAGE 20.68 @ 2.50 51.70
 TOTAL 14629.70

1551

SERVICE

DEPTH OF JOB	<u>437</u>
PUMP TRUCK CHARGE	<u>1512.35</u>
EXTRA FOOTAGE	⊙
MILEAGE <u>M 2 HV 7.6</u>	⊙ <u>772</u> <u>5778.2</u>
MANIFOLD <u>Acad 22 1/2</u>	⊙ <u>275.00</u>
<u>M 2 LV 7.5</u>	⊙ <u>472</u> <u>3300.00</u>

TOTAL 7694.75

CHARGE TO: Lebasca
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>5/8" wooden plug</u>	⊙	<u>107.00</u>
	⊙	
	⊙	
	⊙	

TOTAL 107.00

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

SALES TAX (if Any) 671.22
 TOTAL CHARGES 17,482.25
 DISCOUNT 3,496.40 IF PAID IN 30 DAYS
13,985.68 Net.

PRINTED NAME _____
 SIGNATURE Armando Valt

OPERATOR

Company: Lebsack Oil production
 Address: PO Box 354
 Chase, KS 67524

Contact Geologist:
 Contact Phone Nbr: 620-938-2396
 Well Name: Garden City 4-12
 Location: 8 5/8" @ 437'
 Pool:
 State: Kansas, Finney County

API: 15-055-22236-00-00
 Field: Tanker
 Country: USA



Joshua R. Austin

Petroleum Geologist

report for

Lebsack Oil Production, Inc.



Scale 1:240 Imperial

Well Name: Garden City 4-12
 Surface Location: 8 5/8" @ 437'
 Bottom Location:
 API: 15-055-22236-00-00
 License Number:
 Spud Date: 9/10/2013 Time: 3:34 PM
 Region: S2-NW-NW-SE 12-22s-34w
 Drilling Completed: 9/20/2013 Time: 5:50 PM
 Surface Coordinates: 2,304' From South Line & 2310' From East Line
 Bottom Hole Coordinates:
 Ground Elevation: 2909.00ft
 K.B. Elevation: 2920.00ft
 Logged Interval: 3600.00ft To: 4860.00ft
 Total Depth: 4860.00ft
 Formation: Mississippi
 Drilling Fluid Type: Chemical Mud was displaced at 3462'

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 2,304' From South Line
 E/W Co-ord: 2310' From East Line

LOGGED BY

Company: Joshua R. Austin, Petroleum Geologist
 Address: 732 NE 110th Ave
 Stafford, KS 67578

Phone Nbr: 620-546-3960
 Logged By: Geologist Name: Josh Austin

CONTRACTOR

Contractor: H2 Drilling Company
 Rig #: 2
 Rig Type: mud rotary
 Spud Date: 9/10/2013 Time: 3:34 PM
 TD Date: 9/20/2013 Time: 5:50 PM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2920.00ft
K.B. to Ground: 11.00ft

Ground Elevation: 2909.00ft

NOTES

On the basis of the electric logs and after running DST number 3, it was recommended by all parties involved in the Garden City #4-12 to run 5 1/2" production casing at 4847'

Lebsack Oil Production, Inc. well comparison sheet

	DRILLING WELL				COMPARISON WELL				COMPARISON WELL			
	Garden City #4-12				Garden City #2-12				Loomis 2-12			
	2920 KB				2921 KB		Structural Relationship		2922 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3798	-878	3796	-876	3794	-873	-5	-3	3801	-879	1	3
Toronto	3817	-897	3812	-892	3809	-888	-9	-4	3822	-900	3	8
Lansing	3892	-972	3892	-972	3887	-966	-6	-6	3898	-976	4	4
Base KC	4316	-1396	4315	-1395	4312	-1391	-5	-4	4322	-1400	4	5
Marmaton	4338	-1418	4348	-1428	4340	-1419	1	-9	4348	-1426	8	-2
Pawnee	4420	-1500	4426	-1506	4417	-1496	-4	-10	4432	-1510	10	4
Ft. Scott	4456	-1536	4456	-1536	4453	-1532	-4	-4	4462	-1540	4	4
Cherokee Sh.	4467	-1547	4466	-1546	4460	-1539	-8	-7	4477	-1555	8	9
Morrow Shale	4646	-1726	4646	-1726	4638	-1717	-9	-9	4673	-1751	25	25
Mississippi	4716	-1796	4717	-1797	4690	-1769	-27	-28	4777	-1855	59	58
St. Louis C	4776	-1856	4775	-1855	4777	-1856	0	1	4848	-1926	70	71
RTD	4860	-1940	4860	-1940	4860	-1939		-1	4900	-1978		38
LTD	4858	-1938	4860	-1940	4860	-1939		-1				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lebsack Oil Production

12-22s-34w-Finney, KS

P.O. Box 354
Chase, KS 67524

Garden City #4-12

ATTN: Josh Austin

Job Ticket: 54508

DST#: 1

Test Start: 2013.09.17 @ 19:30:00

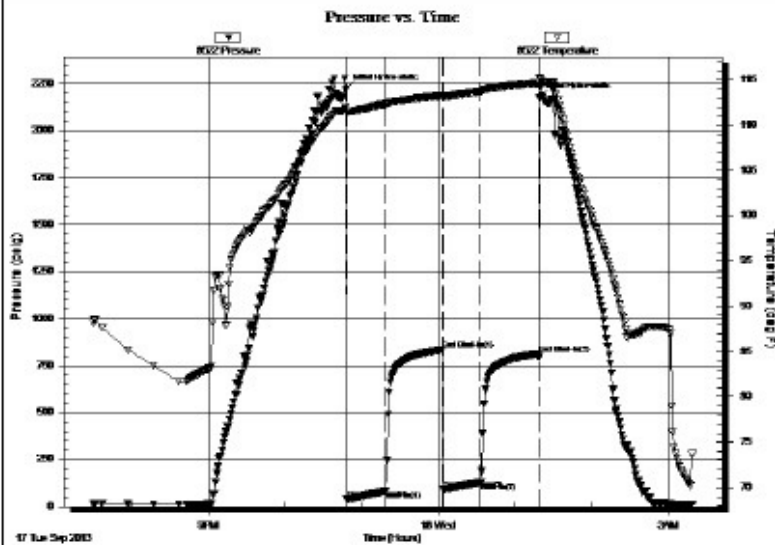
GENERAL INFORMATION:

Formation:	Pawnee	Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No Whipstock: ft (KB)	Tester:	Cornelio Landa III (
Time Tool Opened:	22:48:15	Unit No:	69
Time Test Ended:	03:19:15	Reference Elevations:	2920.00 ft (KB) 2909.00 ft (CF)
Interval:	4417.00 ft (KB) To 4440.00 ft (KB) (TVD)	KB to GR/CF:	11.00 ft
Total Depth:	4440.00 ft (KB) (TVD)		
Hole Diameter:	7.88 inches	Hole Condition:	Fair

Serial #: 8522	Outside	Capacity:	8000.00 psig
Press@RunDepth:	128.57 psig @ 4419.00 ft (KB)	Last Calib.:	2013.09.18
Start Date:	2013.09.17	End Date:	2013.09.18
Start Time:	19:30:05	End Time:	03:19:14
		Time On Btm:	2013.09.17 @ 22:48:00
		Time Off Btm:	2013.09.18 @ 01:19:30

TEST COMMENT: IF: 3 in. of Blow
IS: No return

IS: No Return
 FF: 2 1/2 in. of Blow
 FSI: No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2220.24	112.01	Initial Hydro-static
1	36.62	111.36	Open To Flow (1)
31	82.14	112.31	Shut-In(1)
76	833.69	113.25	End Shut-In(1)
76	91.21	113.02	Open To Flow (2)
106	128.57	113.74	Shut-In(2)
151	812.46	114.63	End Shut-In(2)
152	2175.92	115.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Wm 50w 50m	0.59
120.00	Wm 10w 90m w ith oil specs	0.59

Gas Rates

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



DRILL STEM TEST REPORT

LebSack Oil Production

12-22s-34w-Finney, KS

P.O. Box 354
 Chase, KS 67524

Garden City #4-12

ATTN: Josh Austin

Job Ticket: 54999

DST#: 2

Test Start: 2013.09.19 @ 04:06:00

GENERAL INFORMATION:

Formation: **Morrow Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:18:45
 Time Test Ended: 10:12:30

Test Type: Conventional Bottom Hole (Reset)
 Tester: Cornelio Landa III (
 Unit No: 69

Interval: 4636.00 ft (KB) To 4700.00 ft (KB) (TVD)
 Total Depth: 4700.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2920.00 ft (KB)
 2909.00 ft (CF)
 KB to GR/CF: 11.00 ft

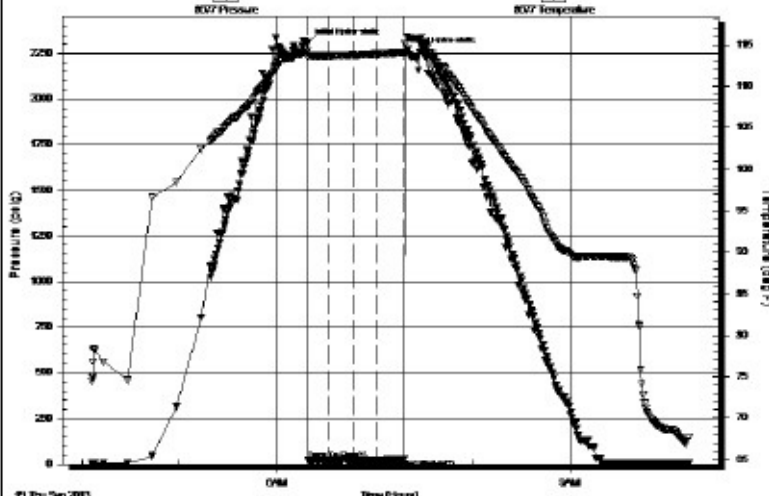
Serial #: 8677

Inside

Press@RunDepth: 22.71 psig @ 4637.00 ft (KB)
 Start Date: 2013.09.19 End Date: 2013.09.19
 Start Time: 04:06:05 End Time: 10:12:29

Capacity: 8000.00 psig
 Last Calib.: 2013.09.19
 Time On Btm: 2013.09.19 @ 06:18:30
 Time Off Btm: 2013.09.19 @ 07:18:30

TEST COMMENT: IF: Surface blow, died @ 13 min.
 IS: No return.
 FF: No blow.
 FSI: No return.



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2304.80	114.24	Initial Hydro-static
1	20.48	113.45	Open To Flow (1)
13	21.92	113.66	Shut-in(1)
28	31.54	113.77	End Shut-in(1)
29	22.08	113.77	Open To Flow (2)
43	22.71	113.92	Shut-in(2)
60	27.09	114.13	End Shut-in(2)
60	2252.97	115.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud 100m	0.59

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

LebSack Oil Production

12-22s-34w-Finney, KS

P.O. Box 354
Chase, KS 67524

Garden City #4-12

ATTN: Josh Austin

Job Ticket: 55000 DST#: 3

Test Start: 2013.09.20 @ 11:03:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:51:00
 Time Test Ended: 19:57:00
 Interval: 4760.00 ft (KB) To 4860.00 ft (KB) (TVD)
 Total Depth: 4860.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 69
 Reference Elevations: 2920.00 ft (KB)
 2909.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8677

Inside

Press@RunDepth: 142.32 psig @ 4761.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.20 End Date: 2013.09.20 Last Calib.: 2013.09.20
 Start Time: 11:03:05 End Time: 19:57:00 Time On Btm: 2013.09.20 @ 13:50:45
 Time Off Btm: 2013.09.20 @ 16:49:00

TEST COMMENT: IF: BOB @ 23 min.
 IS: 2" return.
 FF: BOB @ 19 min.
 FSI: 3" return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2369.13	116.41	Initial Hydro-static
1	20.48	113.45	Open To Flow (1)



1	48.08	114.86	Open To Flow (1)
44	106.02	117.42	Shut-In(1)
91	1026.07	118.84	End Shut-In(1)
92	120.57	118.60	Open To Flow (2)
134	142.32	119.22	Shut-In(2)
177	1005.95	120.03	End Shut-In(2)
179	2251.67	120.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mco 50m 50o	0.59
120.00	mco 30m 70o	0.59
60.00	mco 20m 80o	0.84
0.00	480' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

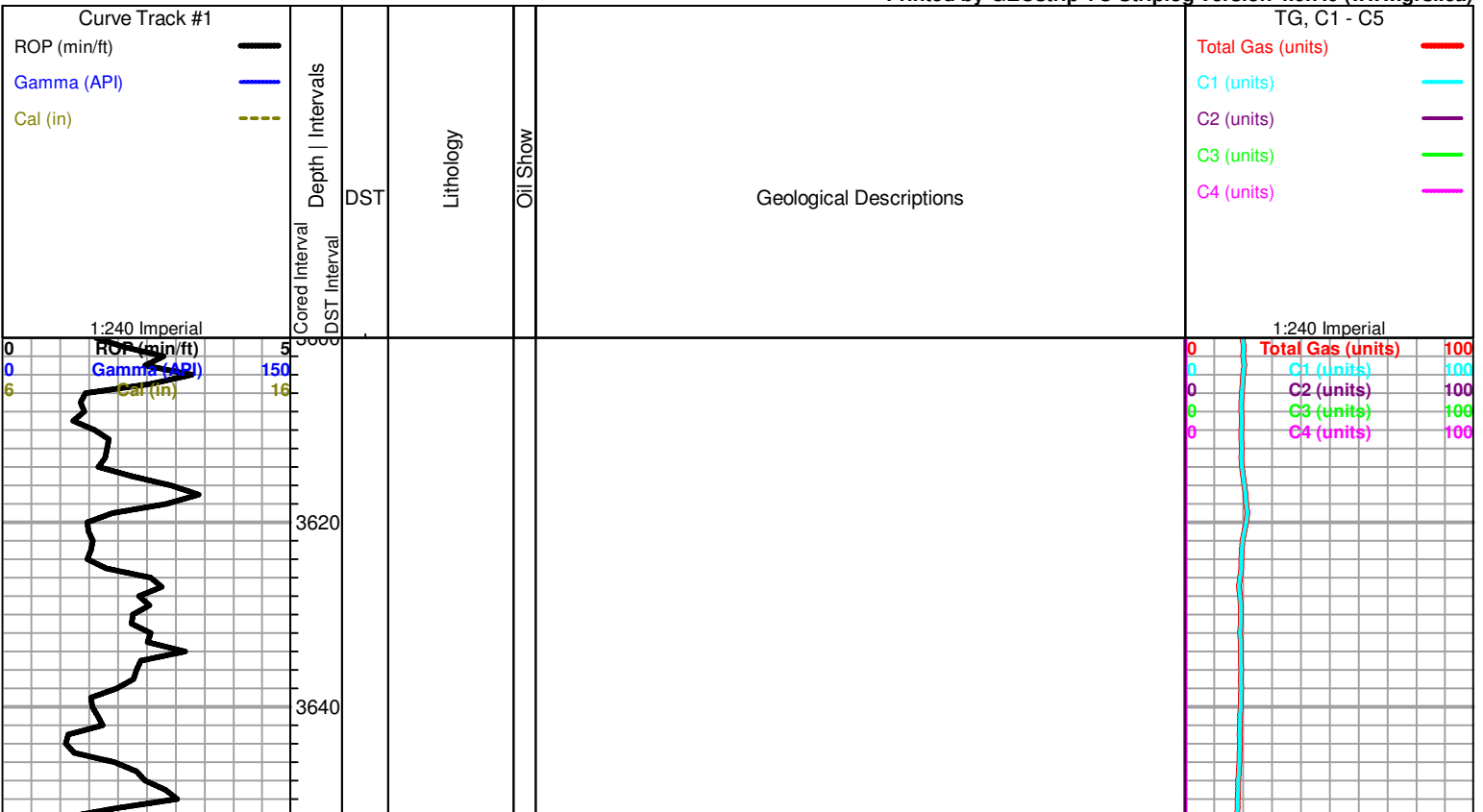
	sdymst		shale, grn		Carbon Sh
	Lmst fw7>		shale, gry		Ss

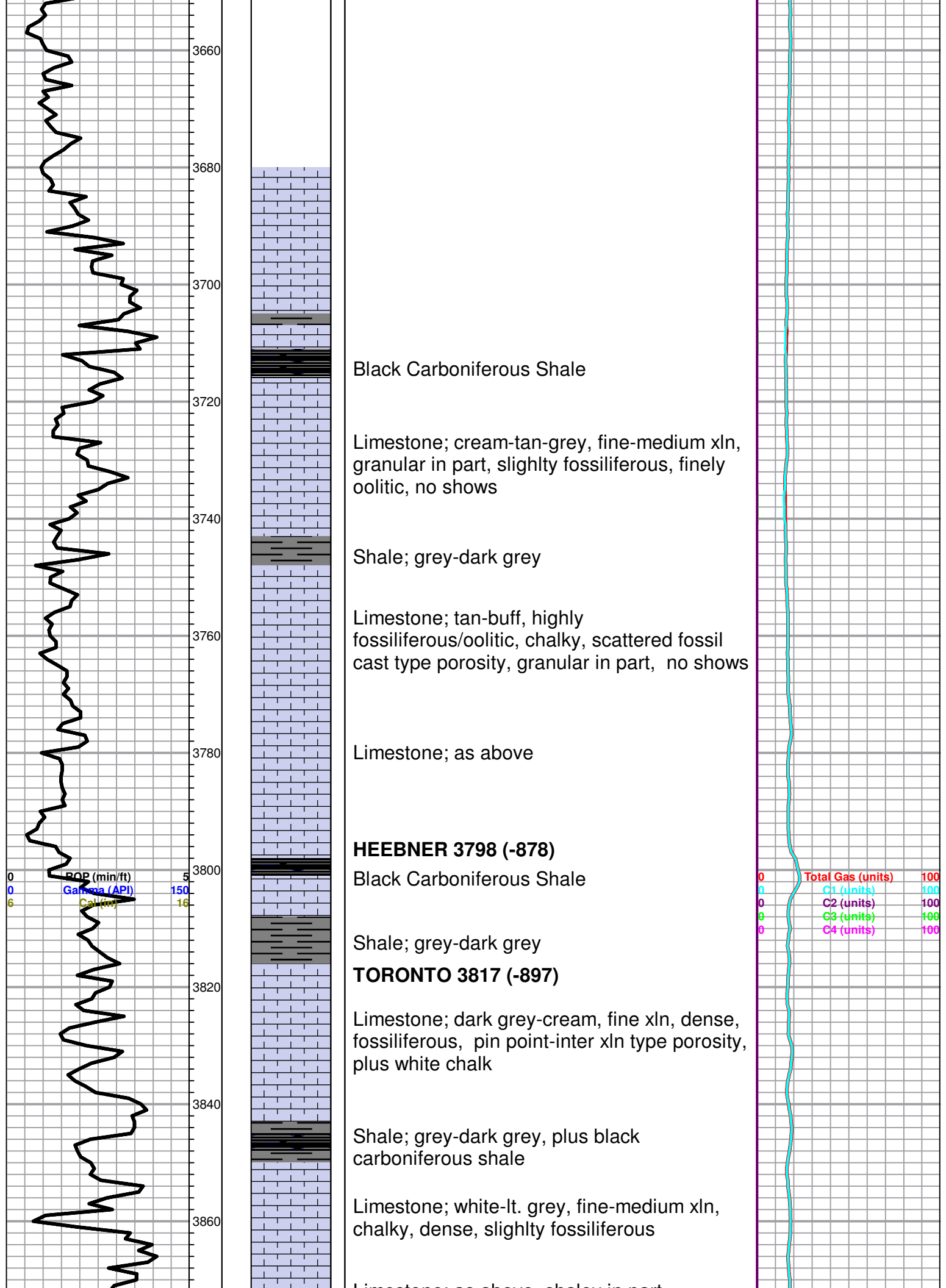
OTHER SYMBOLS

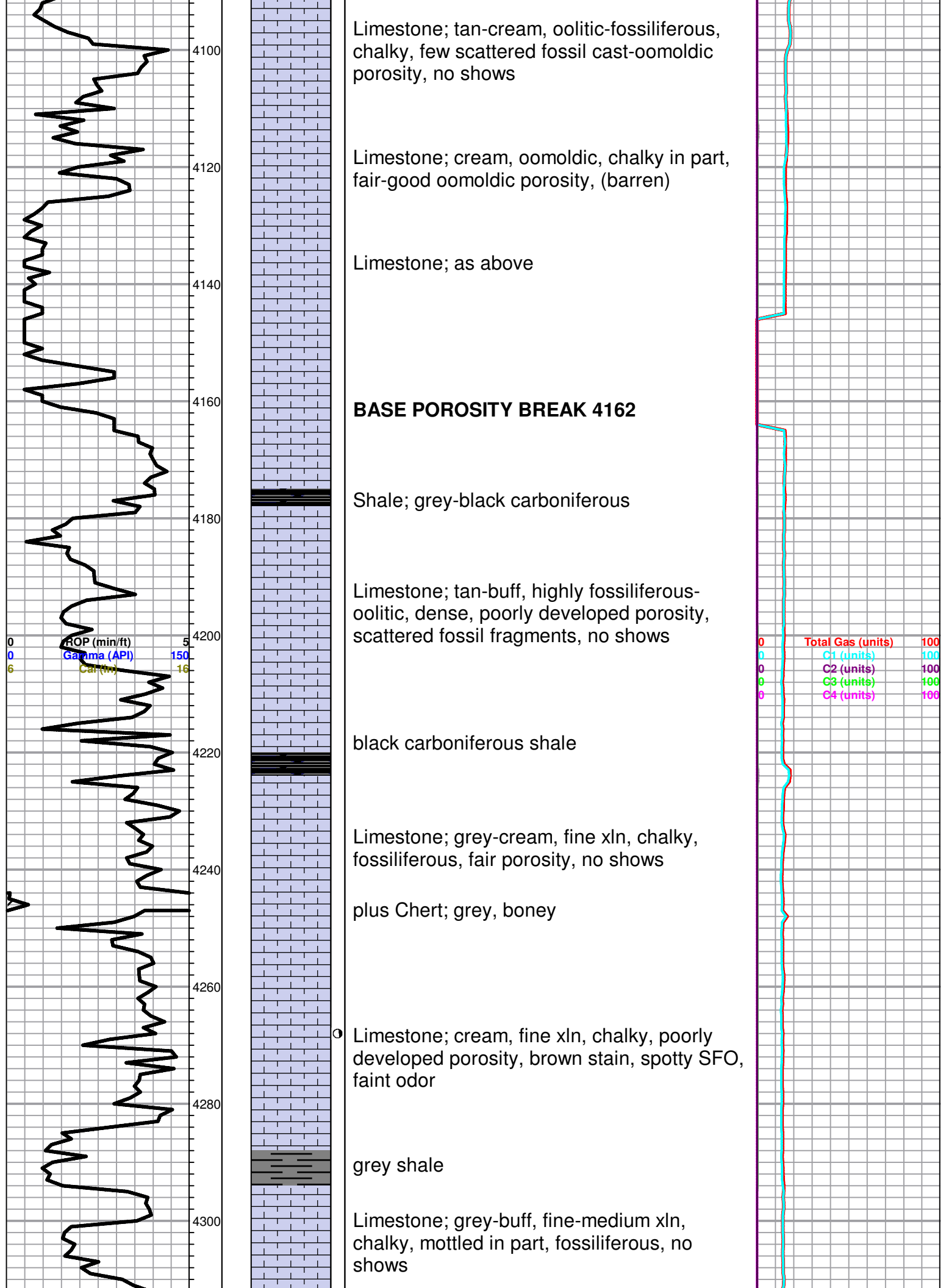
DST

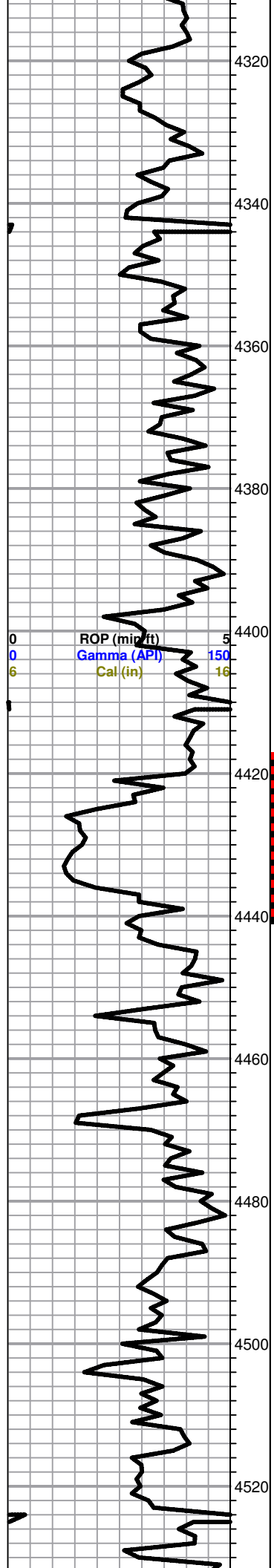
- DST Int
- DST alt
- Core
- tail pipe

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BASE KANSAS CITY 4316 (-1396)

Shale; grey-green, silty in part, few micaceous pieces

Shale; as above grey-green-maroon, soft, silty

MARMATON 4338 (-1418)

Limestone; cream-white, highly oolitic, chalky, few scattered porosity, brown-golden brown stain, SFO, faint odor

trace dark grey-black shale

Limestone; cream-tan, fine xln, dense, slightly oolitic, poorly developed porosity, no shows

Limestone; cream-buff, fine-medium xln, chalky, dense, slightly oolitic, few scattered porosity, no shows

black carboniferous Shale

PAWNEE 4420 (-1500)

Limestone; cream-tan, fine xln, slightly oolitic, inter xln porosity, spotty brown stain, trace free oil, questionable odor

black carboniferous shale

FT. SCOTT 4456 (-1536)

Limestone; grey, fine xln, fossiliferous, dense, poorly developed porosity, slightly cherty, trace brown stain, trace spotty free oil,

CHEROKEE SHALE 4467 (-1547)

black carboniferous shale

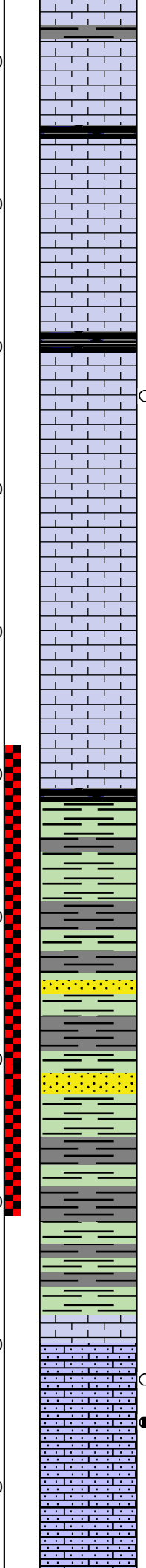
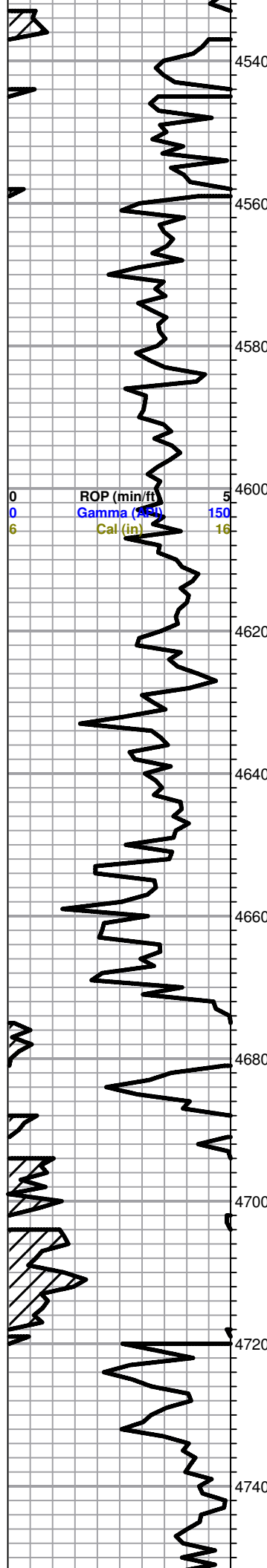
Limestone; cream-tan, fine xln, dense, poor visible porosity, plus grey-black shale

black carboniferous shale, plus grey-dark grey shale

Limestone; cream-grey, fine xln, fossiliferous, dense, no shows

trace black carboniferous shale

DST #1 4417-4440
30-45-30-45 weak Recovery;
240' Muddy Water w/ few oil spots
Pressures
ISIP 833
FSIP 812
IFP 36-82
FFP 91-128
HSH 2220-2175



plus chalky white-cream; Limestone

black carboniferous shale

Limestone; grey-tan, fine-medium xln, granular in part, dense, no shows

black carboniferous shale

ATOKA

Limestone; buff-tan, fine-medium xln, dense, slightly cherty, poor porosity, brown stain, slight SFO, no odor

Limestone; tan-brown, fine xln, dense, cherty, plus Chert; tan, few black boney pieces

Limestone; cream, fine xln, fossiliferous in part, chalky, dense, slightly cherty, no shows

black carboniferous shale

MORROW SHALE 4646

Shale; grey-greyish green, soft, micaceous in part, slightly glauconitic

Shale; grey-green, glauconitic, silty

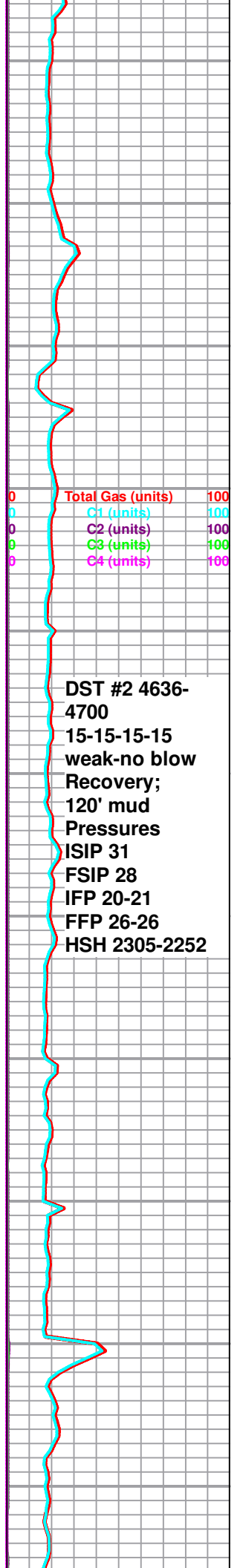
Sand; green-grey, fine-very fine grained, friable, glauconitic, trace black stain, trace spotty sfo, no odor

Shale; grey-greyish green, soft, micaceous in part, slightly glauconitic

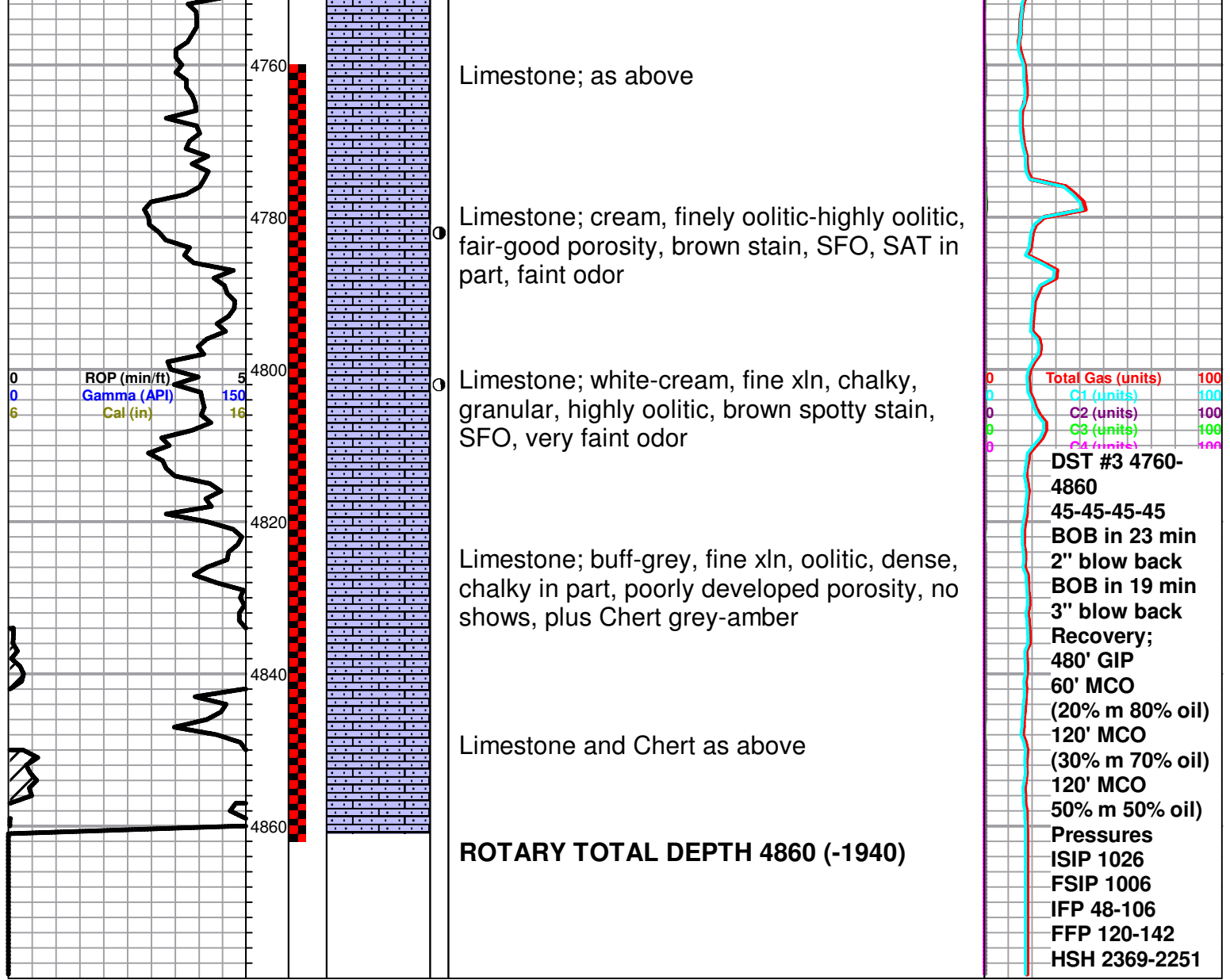
MISSISSIPPI ST. GENEVA 4716

Limestone; cream-tan, highly oolitic, granular/sandy, spotty brown stain, SFO, faint odor

Limestone; cream-lt. grey-white, chalky, granular/sandy, oolitic, no shows



DST #2 4636-4700
15-15-15-15
weak-no blow
Recovery;
120' mud
Pressures
ISIP 31
FSIP 28
IFP 20-21
FFP 26-26
HSR 2305-2252



Limestone; as above

Limestone; cream, finely oolitic-highly oolitic, fair-good porosity, brown stain, SFO, SAT in part, faint odor

Limestone; white-cream, fine xln, chalky, granular, highly oolitic, brown spotty stain, SFO, very faint odor

Limestone; buff-grey, fine xln, oolitic, dense, chalky in part, poorly developed porosity, no shows, plus Chert grey-amber

Limestone and Chert as above

ROTARY TOTAL DEPTH 4860 (-1940)

0 Total Gas (units) 100
 0 C1 (units) 100
 0 C2 (units) 100
 0 C3 (units) 100
 0 Cal (in) 16

DST #3 4760-4860
 45-45-45-45
 BOB in 23 min
 2" blow back
 BOB in 19 min
 3" blow back
 Recovery;
 480' GIP
 60' MCO
 (20% m 80% oil)
 120' MCO
 (30% m 70% oil)
 120' MCO
 (50% m 50% oil)
 Pressures
 ISIP 1026
 FSIP 1006
 IFP 48-106
 FFP 120-142
 HSH 2369-2251