

Form	ACO1 - Well Completion
Operator	ENERSTAR RESOURCES O&G, LLC
Well Name	GRABER 2
Doc ID	1460246

Tops

Name	Top	Datum
Topeka	2463	-890
Heebner	2808	-1235
Douglas	2841	-1268
Brown Lime	3031	-1458
Lansing	3060	-1487
Swope	3380	-1807
Hertha	3433	-1860
Base KC	3486	-1913
Cherokee	3622	-2049
Mississippian	3727	-2154
Kinderhook	3874	-2301
Viola	4067	-2494

Form	ACO1 - Well Completion
Operator	ENERSTAR RESOURCES O&G, LLC
Well Name	GRABER 2
Doc ID	1460246

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	12.250	8.625	23	338	60/40	220	2% calcium, 1/4# celloflake. 15.6 ppg, 1.20 yield, Top5.23 water

Customer Energy Resources		Lease No.		Date 2/15/2019	
Lease Grider		Well # 2			
Field Order # 17683	Station Pratt 101	Casing 8 5/8	Depth 339	County Perc	State KS
Type Job 242/8 5/8 Sulfate			Formation 1D-338	Legal Description 18-26-34	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth 339	Depth	From	To	Pre Pad	Max		5 Min.
Volume 215	Volume	From	To	Pad	Min		10 Min.
Max Press 200	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 319	Packer Depth	From	To	Flush WSG	Gas Volume		Total Load

Customer Representative Tommy Tolson	Station Manager Justin Wegmann	Treater Dan Franklin
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Service Units	92911	78982	19843	19889	19860						
Driver Names	DG10	BIG	BIG	D.92	D.92						

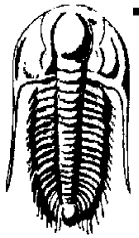
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
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5:30am					On location/setting meetings
					220 SK Common Cement
					2% Calcium Chloride, 4.14 Cellulose
					15.6 pps, 1,120 v. 12, 5.23 w. 910

10:10pm	200		3	5	Pump 3 bbls WSG
	200		47	5	Mix 220 SK Cement
					Shot down
					Release Plug

	200		20	3	Displace 20 bbls WSG
10:45pm					Shot in
					Cement & Circulate to Celler

					Job complete/DG10 & crew
					Thank you!!



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Enerstar Resources O&G LLC

18-26s-6w Reno Co KS

P.O.Box 606
Carlsbad, NM.88221

Graber #2

Job Ticket: 64917

DST#: 1

ATTN: Dick Johson/ Keith R

Test Start: 2019.02.18 @ 16:48:22

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:41:07

Time Test Ended: 01:23:22

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: 3370.00 ft (KB) To 3387.00 ft (KB) (TVD)

Total Depth: 3387.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1573.00 ft (KB)

1568.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8931 Inside

Press@RunDepth: 104.00 psig @ 3371.00 ft (KB)

Start Date: 2019.02.18

End Date:

2019.02.19

Start Time: 16:48:27

End Time:

01:23:22

Capacity: 8000.00 psig

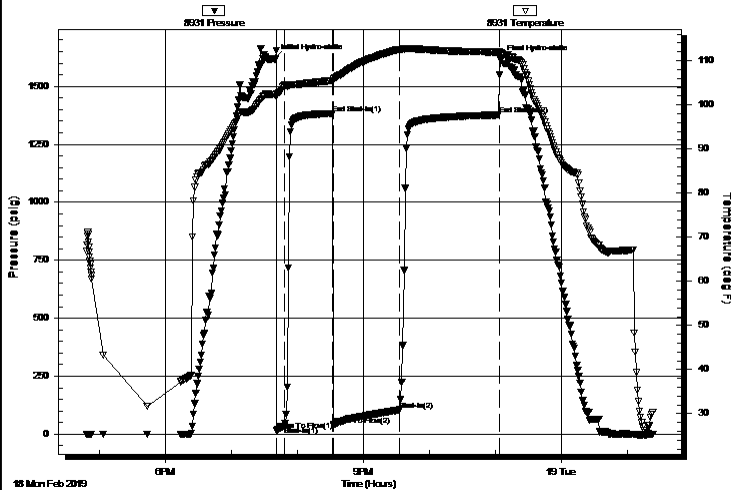
Last Calib.: 2019.02.19

Time On Btm: 2019.02.18 @ 19:38:37

Time Off Btm: 2019.02.18 @ 23:04:37

TEST COMMENT: IF: Weak to Fair blow . Built to 5".
IS: Weak Surface blow .
FF: Strong blow . B.O.B. in 37 mins. Built to 17.93".
FS: No blow .

Pressure vs. Time



PRESSURE SUMMARY

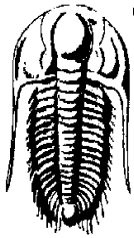
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1617.48	102.32	Initial Hydro-static
3	17.20	101.79	Open To Flow (1)
10	33.61	104.49	Shut-In(1)
53	1383.03	105.49	End Shut-In(1)
55	39.07	105.97	Open To Flow (2)
114	104.00	112.54	Shut-In(2)
205	1376.38	111.96	End Shut-In(2)
206	1614.69	111.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slight Oil GMCW 15g 3% m 96% w	0.46
60.00	Slight Oil MW 3% m 97% w	0.46
65.00	GOWCM 5% g 5% o 45% w 45% m	0.91
8.00	WMCO 12% w 14% m 74% o	0.11
0.00	88 Ft G.I.P.	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Enerstar Resources O&G LLC

18-26s-6w Reno Co KS

P.O.Box 606
Carlsbad, NM.88221

Graber #2

Job Ticket: 64917

DST#: 1

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Tester: Matt Smith

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Total Depth: 3387.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1573.00 ft (KB)

1568.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8792 Outside

Press@RunDepth: psig @ 3371.00 ft (KB)

Start Date: 2019.02.18

End Date:

2019.02.19

Start Time: 16:48:15

End Time:

01:22:55

Capacity: 8000.00 psig

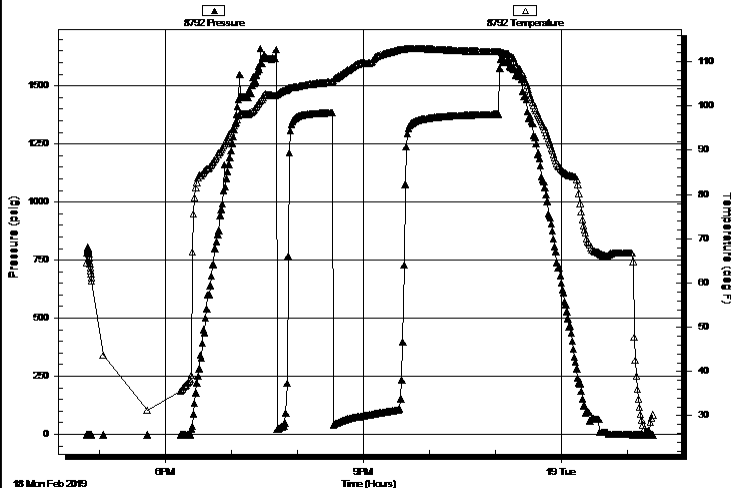
Last Calib.: 2019.02.19

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak to Fair blow . Built to 5".
IS: Weak Surface blow .
FF: Strong blow . B.O.B. in 37 mins. Built to 17.93".
FS: No blow .

Pressure vs. Time



PRESSURE SUMMARY

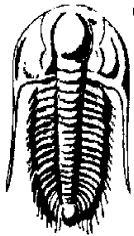
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slight Oil GMCW 15g 3% m 96% w	0.46
60.00	Slight Oil MW 3% m 97% w	0.46
65.00	GOWCM 5% g 5% o 45% w 45% m	0.91
8.00	WMCO 12% w 14% m 74% o	0.11
0.00	88 Ft G.I.P.	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Enerstar Resources O&G LLC

18-26s-6w Reno Co KS

P.O.Box 606
Carlsbad, NM.88221

Graber #2

Job Ticket: 64917

DST#: 1

ATTN: Dick Johnson/ Keith R

Test Start: 2019.02.18 @ 16:48:22

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.20 in³

Resistivity: 10000.00 ohm.m

Salinity: ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 28000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Slight Oil GMCW 15g 3%m 96%w	0.457
60.00	Slight Oil MW 3%m 97%w	0.457
65.00	GOWCM 5%g 5%o 45%w 45%m	0.912
8.00	WMCO 12%w 14%m 74%o	0.112
0.00	88 Ft G.I.P.	0.000

Total Length: 193.00 ft

Total Volume: 1.938 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 88 Feet G.I.P.

RW.60 @ 28 Degrees = 28,000 Chlorides.

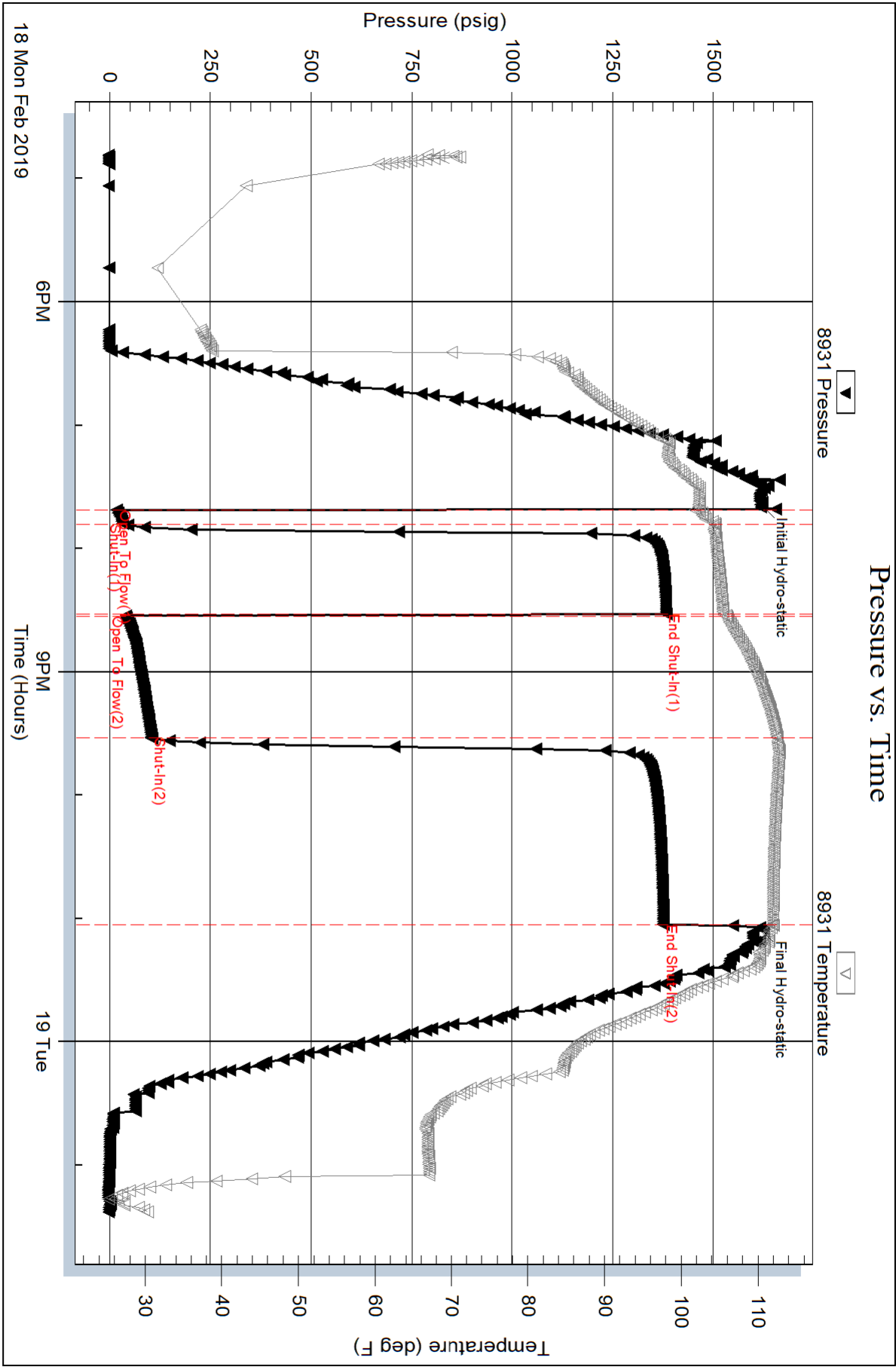
Serial #: 8931

Inside

Enerstar Resources O&G LLC

Graber #2

DST Test Number: 1

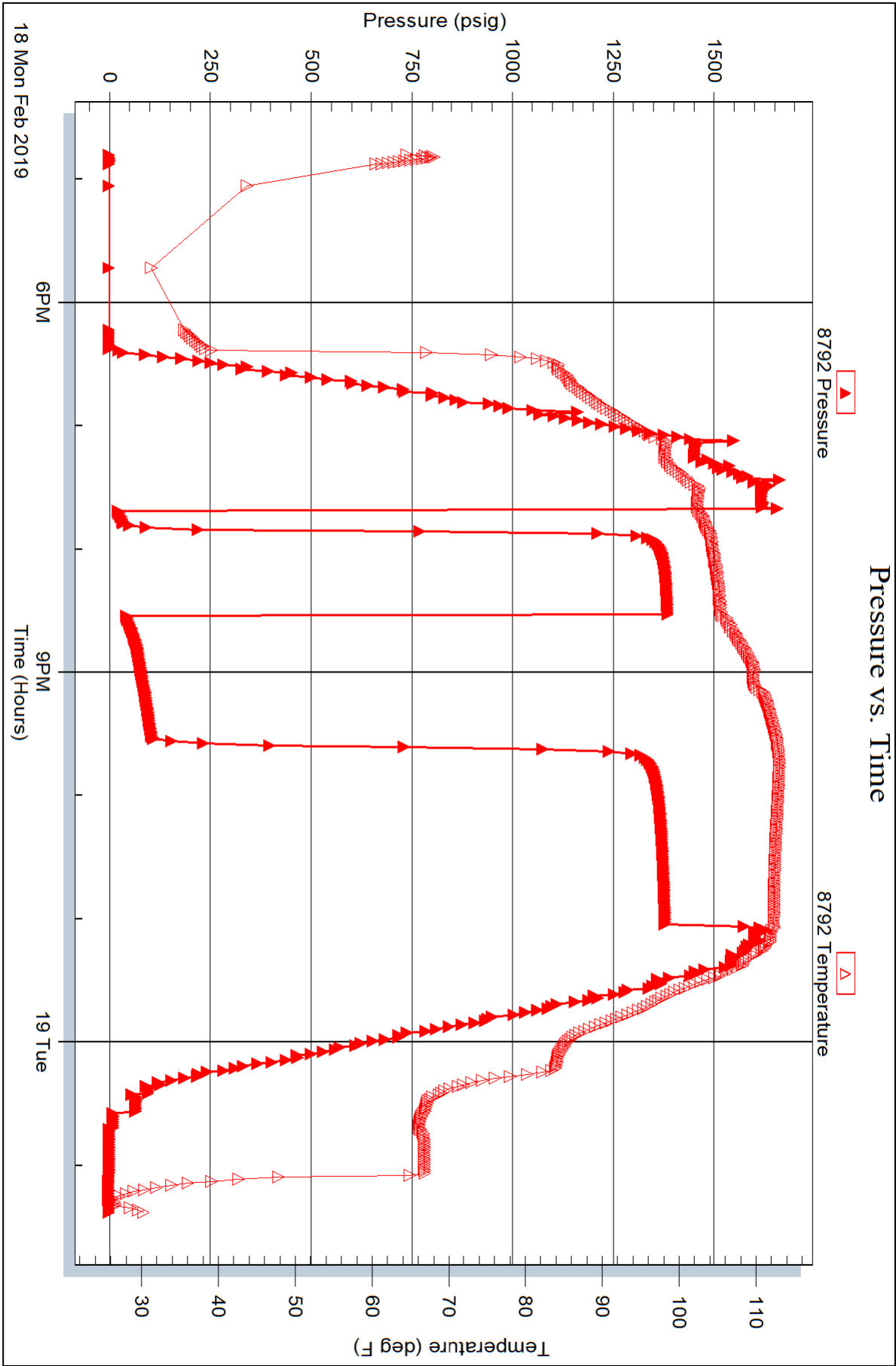


Serial #: 8792

Outside Enerstar Resources O&G LLC

Graber #2

DST Test Number: 1



Scale 1:240 Imperial

Well Name: Graber #2
Surface Location: Sec. 18 - T26S - R6W
Bottom Location:
API: 15-155-21762-0000
License Number: 35626
Spud Date: 2/14/2019 Time: 8:30 PM
Region: Reno County
Drilling Completed: 2/21/2019 Time: 8:40 PM
Surface Coordinates: 2350' FSL & 330' FWL
Bottom Hole Coordinates:
Ground Elevation: 1568.00ft
K.B. Elevation: 1573.00ft
Logged Interval: 2400.00ft To: 4083.00ft
Total Depth: 4083.00ft
Formation: Viola
Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Enerstar Resources Oil and Gas, LLC
Address: P.O. Box 606
Carlsbad, NM 88221

Contact Geologist: Dick Jackson / Tommy Folsom
Contact Phone Nbr: 417-844-9277 / 575-885-8302
Well Name: Graber #2
Location: Sec. 18 - T26S - R6W
API: 15-155-21762-0000
Pool:
State: Kansas Field: Wildcat
Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude:
Latitude:
N/S Co-ord: 2350' FSL
E/W Co-ord: 330' FWL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
Address: 3420 22nd Street
Great Bend, KS 67530

Phone Nbr: 620-617-4091
Logged By: KLG #136

Name: Keith Reavis

CONTRACTOR

Contractor: WW Drilling LLC
Rig #: 4
Rig Type: mud rotary
Spud Date: 2/14/2019
TD Date: 2/21/2019
Rig Release:

Time: 8:30 PM
Time: 8:40 PM
Time:

ELEVATIONS

K.B. Elevation: 1573.00ft
K.B. to Ground: 5.00ft

Ground Elevation: 1568.00ft

NOTES

Due to low structural position, negative DST results, log and core analysis, it was determined that the Graber #2 would be non-commercial and the operator elected to plug this well as a dry test.

A Bloodhound gas detector operated by Bluestem Labs was employed during the drilling of this well. ROP and gas data curves were imported into this log. Gamma ray and caliper curves were also imported from the electrical log suite.

Samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted,
Keith Reavis

daily drilling report

DATE	TIME AND DEPTH	REMARKS
02/17/2019	2392	Geologist Keith Reavis on location @ 0100 hrs, 2071 ft, drilling ahead Topeka, displace mud system @ 2775', drilling, Heebner, Douglas, Lansing
02/18/2019	3309	drilling ahead, Lansing/KC, good gas kick and show in Swope warrants DST, short trip, ctc, TOH w/bit, in w/tools, conduct DST #1
02/19/2019	3400	complete DST #1, successful test, TTH w/bit, resume drilling, Hertha, BKC Marmaton, Cherokee, Mississippian
02/20/2019	3905	drilling ahead, Mississippian chert, Kinderhook, stop @ 3990', short trip, ctc, TOH w/bit, rig up Pro Coring core assembly
02/21/2019	4013	on bottom with core assembly, coring lower Kinderhook, Viola, complete 93 ft. of core, 4083 ft. TD @ 2040 hrs, ctc, TOH w/string and assembly
02/22/2019	4083	lay down assembly, TTH w/open hole logging tools, complete logs, geologist off loc @ 0745 hrs

well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Graber #2					South Ranch - Graber #1				R-30 - Graber #1			
2350' FSL & 330' FWL					C NE NW				C NE SE			
Sec. 18-T26S-R6W					Sec. 18-T26S-R6W				Sec 13-T26S-R7W			
1573 KB					1587 KB				1576 KB			
					Structural Relationship				Structural Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Topeka	2463	-890	2464	-891	2463	-876	-14	-15	2464	-888	-2	-3



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Enerstar Resources O&G LLC

18-260-Sw Reno Co KS

P.O. Box 606
Carlsbad, NM 88221

Graber #2

Job Ticket: 64917

DST#: 1

ATTN: Dick Johnson/ Keith R

Test Start: 2019.02.18 @ 16:45:22

GENERAL INFORMATION

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Hole Diameter: 7.88 inches-hole Condition: Fair

Reference Elevations: 1573.00 ft (KB)

1568.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8931

Inside

Press@RunDepth: 104.00 psig @ 3371.00 ft (KB)

Start Date: 2019.02.18

End Date:

2019.02.19

Capacity: 8000.00 psig

Last Calib.: 2019.02.19

Start Time: 16:45:27

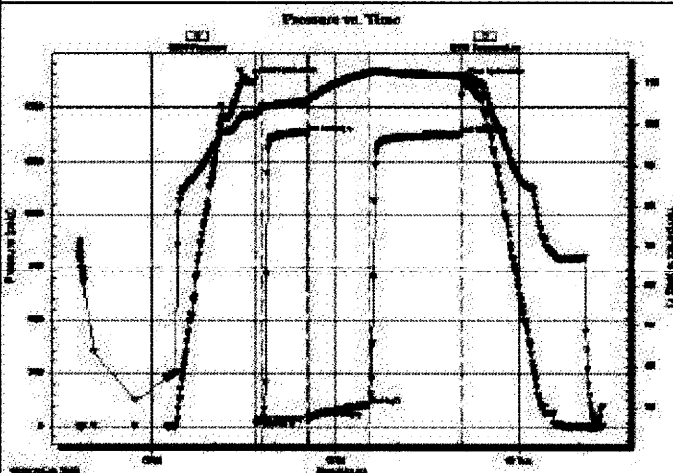
End Time:

01:23:22

Time On Btm: 2019.02.18 @ 19:38:37

Time Off Btm: 2019.02.18 @ 23:04:37

TEST COMMENT: IF: Weak to Fair blow. Built to 5'
IS: Weak Surface blow
FF: Strong blow. B.O.B. in 37 mins. Built to 17.93'
FSI: No blow



PRESSURE SUMMARY

Time (Min)	Pressure (psig)	Temp (deg F)	Annotation
0	1617.48	102.32	Initial Hydro-static
3	17.20	101.79	Open To Flow (1)
10	33.61	104.49	Shut-in(1)
53	1383.03	105.49	End Shut-in(1)
55	39.07	105.97	Open To Flow (2)
114	104.00	112.54	Shut-in(2)
205	1379.38	111.98	End Shut-in(2)
208	1614.89	111.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slight Oil GMCW 15g 3% m 96% w	0.46
60.00	Slight Oil MW 3% m 97% w	0.46
65.00	GOWCM 5% g 5% o 45% w 45% m	0.91
8.00	WMCO 12% w 14% m 74% o	0.11
0.00	88 Ft G.I.P.	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (MDD)
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ROCK TYPES

	Chert		Limestone		Ss
	Dolomite		shale, grn		shale, red
	Limestone fw<7		shale, gry		Shcol
	Limestone fw>7				

ACCESSORIES

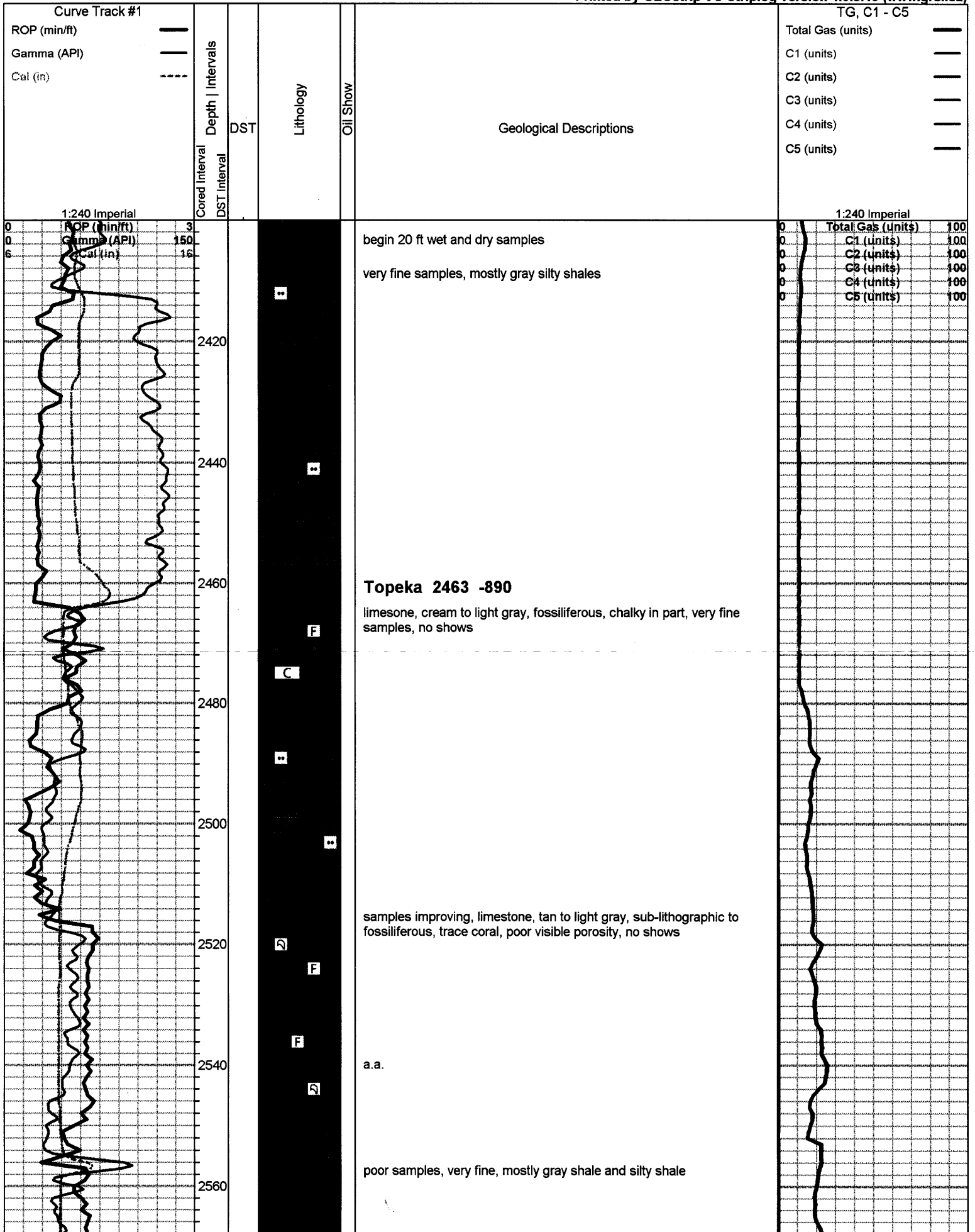
MINERAL

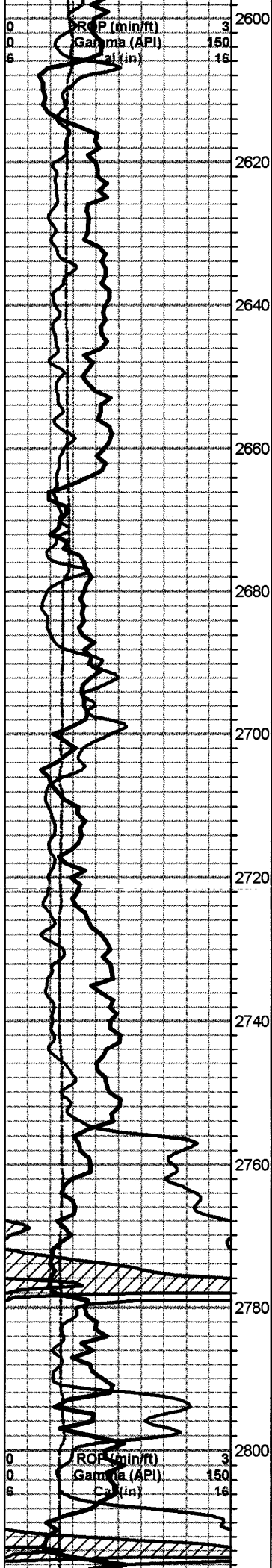
FOSSIL

STRINGER

TEXTURE

- Opened Stn
- Questionable Stn
- Dead Oil Stn
- Fluorescence
- * Gas





very poor samples, mostly gray shales with some limestone, white to gray and tan, mostly very chalky, some fossiliferous, very fine samples

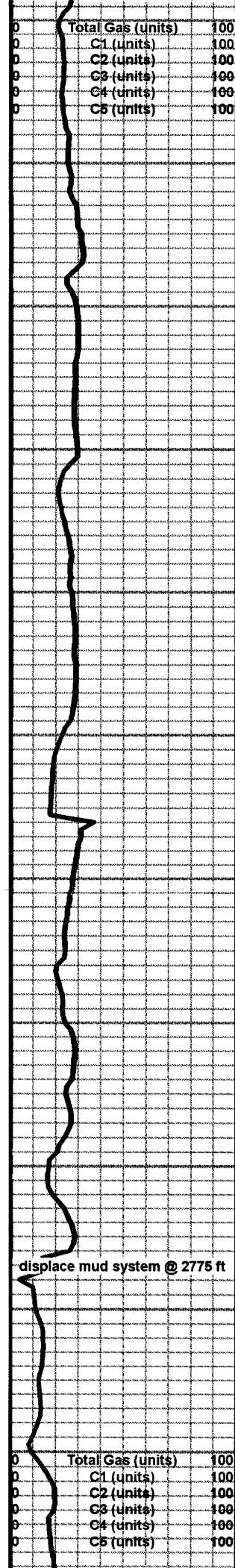
a.a.

a.a., slight increase in limestones

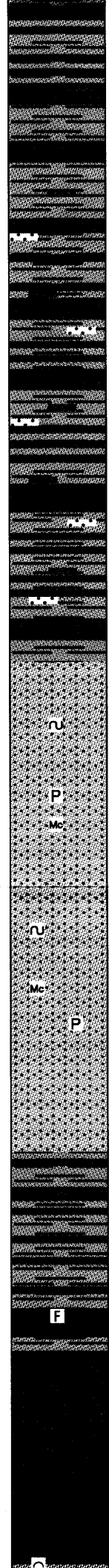
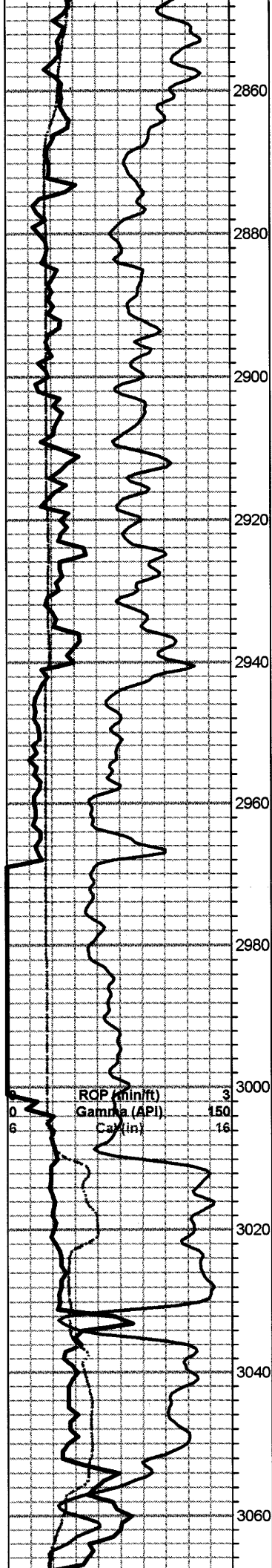
a.a.

Heebner 2808 -1235

shale, black carbonaceous



displace mud system @ 2775 ft



a.a. with sandstone, gray to white, quartz, very fine grain, fair rounding and sorting, fairly cemented to friable, micaceous to glauconitic, trace pyrite, poor visible porosity, no shows

a.a., (still abundant limestones from above)

2980 sample flood sandstone a.a.

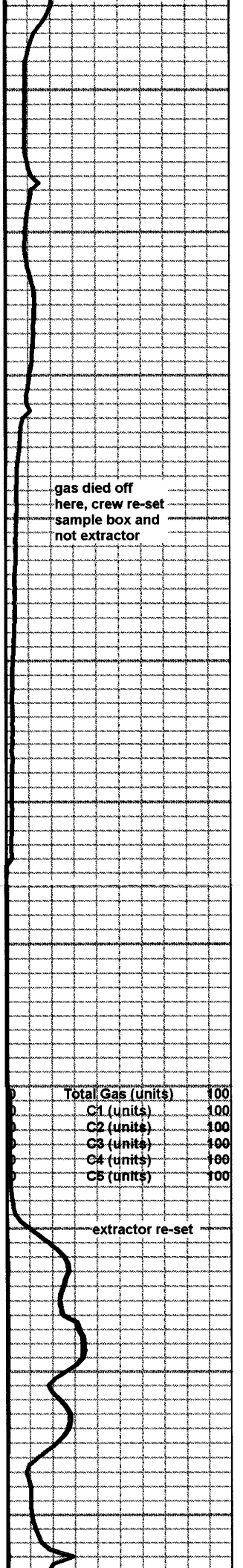
2968 to 3001, geolograph line broke, drilled one kelley down (12 min) with no drill time

Brown Lime 3031 -1458

limestone, brown to tan, cryptocrystalline, fossiliferous, dense, no shows

Lansing 3060 -1487

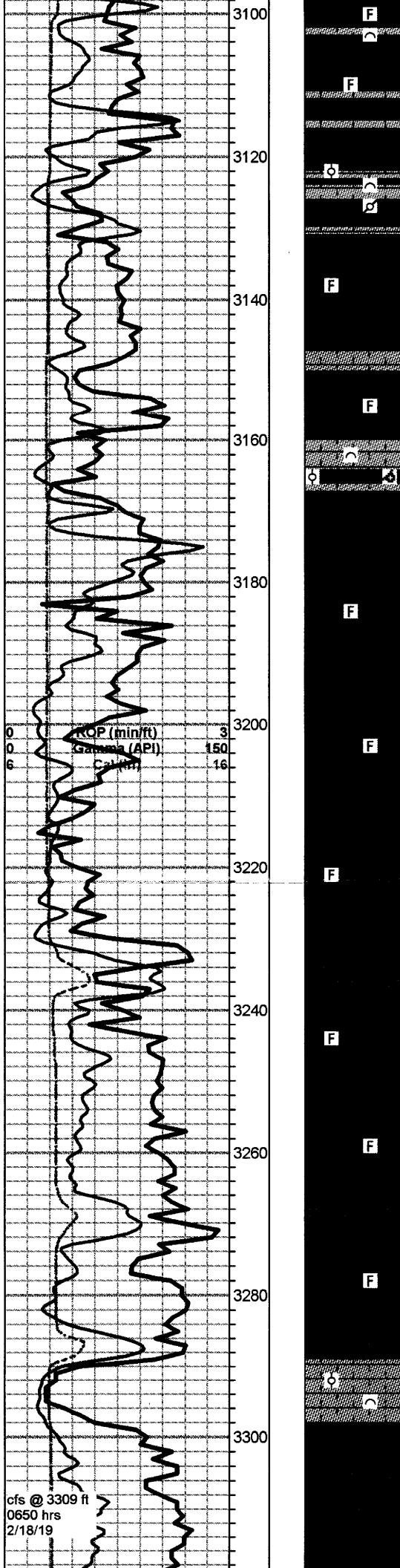
limestone, olive/tan to gray, microcrystalline, fossiliferous to bioclastic, gray, some good inter-lent porosity, no shows



gas died off here, crew re-set sample box and not extractor

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

extractor re-set



limestones a.a.

limestone, gray to tan mottled, oolitic to pelletal and bioclastic, poor visible porosity, no shows

mixed non-descript fossiliferous limestones

limestone, tan to gray, some mottled, oolitic to bioclastic, few pieces nice oomoldic, good porosity, barren

limestone, mixed dense fossiliferous

limestone, gray to tan and brown, microcrystalline, fossiliferous to oolitic, some interclast secondary calcite, poor overall visible porosity, no shows

limestone, mixed fossiliferous, overall darker rocks with abundant dark brown cryptocrystalline fossiliferous, dense, cherty, no shows

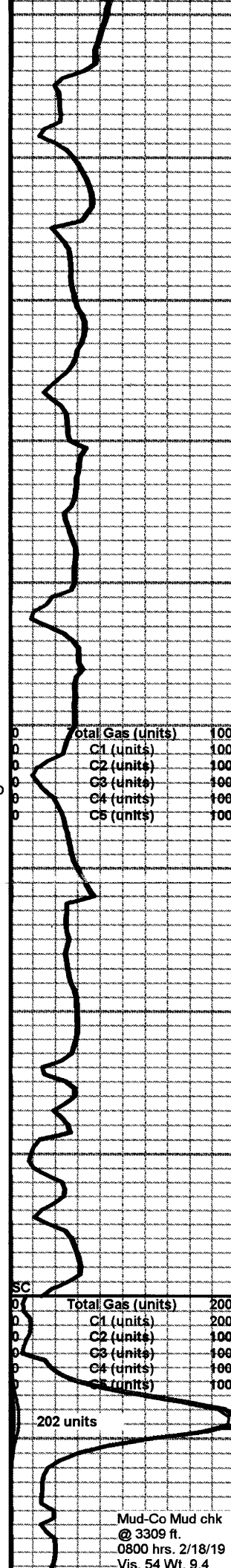
a.a.

a.a.

limestone, white to cream, oolitic to bioclastic, trace fair interclast porosity, solvent like odor, show gas bubbles, slight show clear condensate on break, good bright fluorescence, variable slow streaming cut to instant bloom, no show oil

mixed cream limestones, fossiliferous, with abundant chalks, black and gray, still carrying some cherty brown limestones

BEGIN 10 FT WET AND DRY SAMPLES



secondary calcite seams and crystals, scattered cream chalky fossiliferous to bioclastic, poor visible porosity, no shows

shale, black carbonaceous

Swope 3380 -1807

limestone, gray, oomoldic, some oolites in place, good oomold porosity with crystal lined vugs, very light stain, fair show gassy free oil, fair odor, good bright white fluorescence, good milky white cut

lower part of oomoldic bench is mostly barren

limestone, cream to gray and light gray, cryptocrystalline, fossiliferous to lithographic, mostly dense, no shows

shale, black carbonaceous

Hertha 3433 -1860

limestone, gray, oomoldic to sub-oomoldic and oolitic, some scattered bioclastic, some scattered fair porosity, no shows or odor

limestone, variable gray, mostly cryptocrystalline, fossiliferous to lithographic, some arenaceous, poor porosity, no shows

Base KC 3486 -1913

flood gray fissil shales, black carbonaceous, some green

limestone, cream to light gray, chalky, sub-lithographic to fossiliferous, some brown dense recrystallized oolitic, no shows, abundant chalk

limestone a.a., increased oolitic

shale, black carbonaceous

shale kick

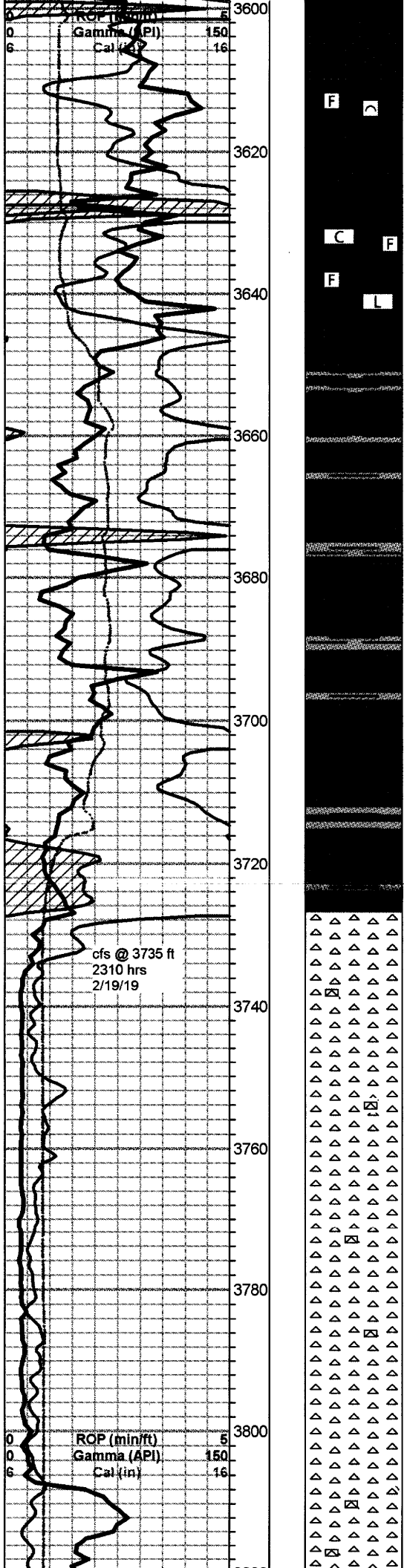
176 units

strap 1.12 LTB
deviation 1 1/2 deg

Total Gas (units)	200
C1 (units)	200
C2 (units)	100
C3 (units)	100
C4 (units)	100
C5 (units)	100

Mud-Co Mud chk
@ 3437 ft.
1000 hrs. 2/19/19
Vis. 47 Wt. 9.4
PV 13 YP 12
WL 9.6
Cake 1/32,
pH 10.5
CHL 11500 ppm
Ca 120 ppm
Sol 7.2 LCM 0#
DMC \$1024.46
CMC \$9180.97

black and gray shales, with light gray argillaceous/shaley limestone,



limestones a.a.

Cherokee 3622 -2049

shale, black carbonaceous

limestone, cream to white and light gray, mostly cryptocrystalline, fossiliferous to sub-lithographic, some chalky, poor visible porosity, no shows

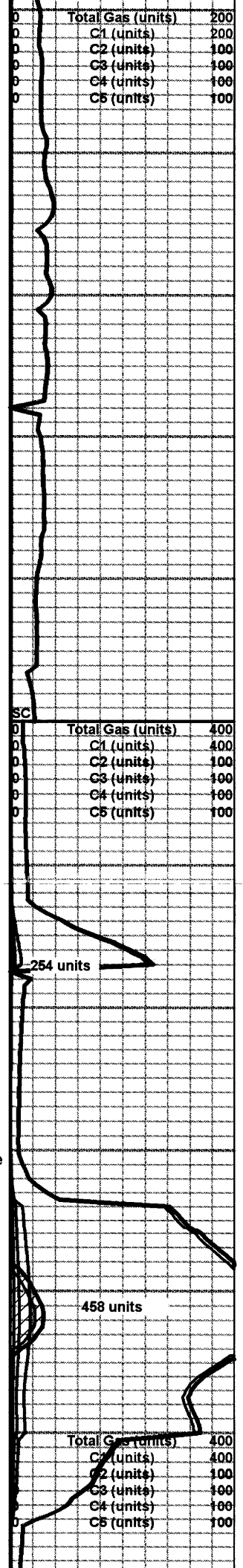
shale, gray, black, lavender and green

Mississippian 3727 -2154

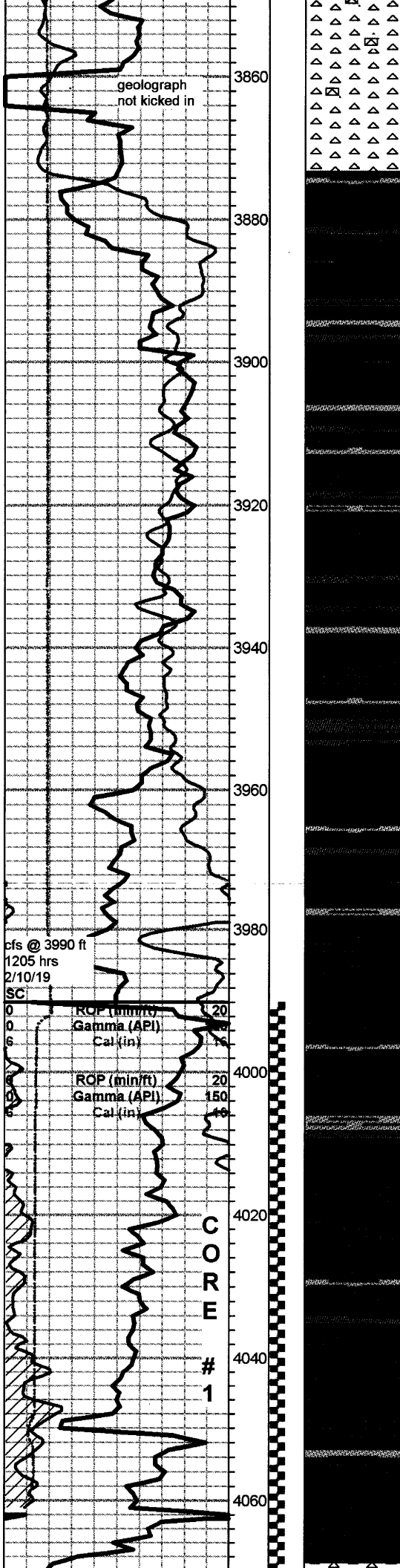
chert, white, gray, pale green, mostly fresh, trace tripolitic, trace black stain, no show free oil, no odor, poor to fair fluorescence, no cut

a.a., marked increase in stain, 15-20%, slight increase in tripolitic, some spiculitic chert, no show oil, no odor, fair fluorescence, no cut, still carrying abundant shales

3840 sample - grades to: chert, white to light gray translucent, fresh to increasing tripolitic, staining drops out, no show free oil, no odor, still carrying abundant multi-colored shales



Total Gas (units)	400
C1 (units)	400
C2 (units)	100
C3 (units)	100
C4 (units)	100
C5 (units)	100



Kinderhook 3874 -2301

3900 sample, marked increase in shale, multi-colored, some scattered light green siltstones, some rose colored schist-like shales

mixed shales a.a.

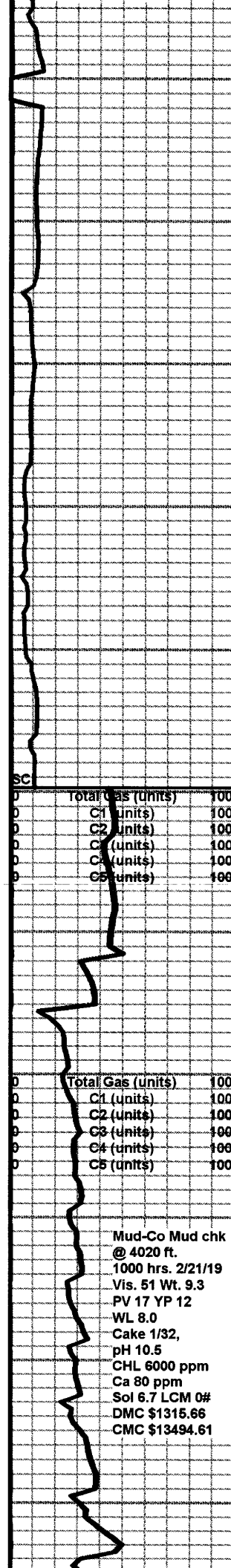
grades to primarily gray shale, heavy gray wash

a.a.

shales a.a.

Viola 4067 -2494

drilling samples - chert, gray to cream, spiculitic, mostly fresh, some



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

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C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100
C5 (units)	100

Mud-Co Mud chk
@ 4020 ft.
1000 hrs. 2/21/19
Vis. 51 Wt. 9.3
PV 17 YP 12
WL 8.0
Cake 1/32,
pH 10.5
CHL 6000 ppm
Ca 80 ppm
Sol 6.7 LCM 0#
DMC \$1315.66
CMC \$13494.61

geolograph
not kicked in

Kinderhook 3874 -2301

3900 sample, marked increase in shale, multi-colored, some scattered light green siltstones, some rose colored schist-like shales

mixed shales a.a.

grades to primarily gray shale, heavy gray wash

a.a.

shales a.a.

Viola 4067 -2494

drilling samples - chert, gray to cream, spiculitic, mostly fresh, some

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

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
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CORE
1

ROUTINE CORE ANALYSIS SUMMARY



Operator: Enerstar R
 Well: Graber #2
 County, State: Kansas Pro

Sample ID	Depth, ft	Received Length, avg of 3, (cm)	Diameter, (cm)	Received Wt. (g)	Caliper Bulk Volume (cm ³)	Caliper Bulk Density (g/cm ³)	Grain Density (g/cm ³)	Porosity %
1	3092.4	5.42	3.811	157.392	61.82	2.546	2.726	9.57
2	4009.7	4.35	3.778	124.484	48.81	2.550	2.727	9.66
3	4018.8	6.12	3.784	178.007	68.82	2.586	2.728	8.10
4	4025.6	5.74	3.796	166.731	64.96	2.566	2.722	8.69
5	4033.8	5.03	3.785	145.326	56.63	2.566	2.724	8.92
6	4052.5	5.87	3.784	170.957	66.03	2.589	2.740	9.13
7	4054.6	5.60	3.785	161.910	62.98	2.571	2.718	8.43
8	4059.2	4.69	3.785	139.212	52.73	2.640	2.787	8.37
9	4061.9	5.28	3.785	143.564	59.43	2.416	2.453	2.96
10	4064.7	5.86	3.786	164.902	65.99	2.499	2.571	4.53
1-GRI	4022.5	8.73	3.792	252.724	98.58	2.564	2.657	3.51
2-GRI	4052.6	8.38	3.822	240.389	96.20	2.499	2.717	8.03
3-GRI	4064.9	8.86	3.819	241.981	101.51	2.384	2.585	7.79



Report Date: 03/26/19

Job No.: P023-201901

Project Name: P023-201901

Sw %	So %	Sg %	Crushed Wt (g)	Received Crushed Rock Perm (mD)	Cleaned Crushed Rock Perm (mD)
81.95	0.00	18.05			
81.41	7.10	11.49			
83.31	15.80	0.89			
80.51	13.26	6.23			
92.01	4.11	3.88			
65.30	28.81	5.88			
64.69	34.58	0.72			
84.65	13.42	1.93			
86.13	8.68	5.19			
67.63	31.40	0.97			
100.00	0.00	0.00	72.945	2.07E-08	5.86E-05
86.95	0.00	13.05	83.193	1.04E-05	8.41E-04
54.89	1.33	43.78	101.358	3.73E-04	2.46E-04