

MAX-HENRY **OPERATING, LLC**

Scale 1:240 (5"=100') Imperial

Well Name: Vosburgh #1-2
Location: Sec. 02 - T24S - R15W , Stafford County, KS
Licence Number: API No.: 15-185-23657-0000
Spud Date: December 15, 2010
Surface Coordinates: 2970' FSL & 1980' FEL
Region: Hearn
Drilling Completed: December 22, 2010

Bottom Hole Coordinates:

Ground Elevation (ft): 2001' K.B. Elevation (ft): 2006'
Logged Interval (ft): 3300' To: 4230' Total Depth (ft): 4230' (LTD)
Formation: Arbuckle
Type of Drilling Fluid: Chemical Gel/Polymer

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Oil Producers, Inc. of Kansas
Address: 1710 Waterfront Parkway
Wichita, KS 67206

GEOLOGIST

Name: Derek W. Patterson
Company: Max-Henry Operating, LLC
Address: 133 N. Glendale
Wichita, KS 67208

REMARKS

After review of the Open Hole Logs, DST info, and sample evaluation, it was recommended by all parties involved to run 4 1/2" production casing to further evaluate the multiple Viola zones encountered while drilling the Vosburgh #1-2.

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

Respectfully Submitted,

Oil Producers, Inc. of Kansas

DAILY DRILLING REPORT

Company: Oil Producers, Inc. of Kansas
1710 Waterfront Parkway
Wichita, KS 67206

Contact: Brian McCoy
Cell: 316.214.4615
Office: 316.681.0231

Geologist: Derek W. Patterson
Cell: 316.655.3550
Office: 316.558.5202

Drilling Contractor: J V Mallard, Inc., Rig # - 785.731.5161

Well: Vosburgh #1-2

Location: 2970' FSL & 1980' FEL

Sec. 2 - 24S - 15W

Stafford Co., KS

Elevation: 2001' GL - 2006' KB

Field: Hearn

API No.: 15-185-23657-0000

Surface Casing: 13 3/8" set @ 268' KB

Toolpusher: Lavon Urban

Date	7:00 AM Depth	Previous 24 Hours of Operations
12.20.2010	3772'	Drilling and connections Topeka, Heebner, and into Toronto. Geologist Derek W. Patterson on location @ 3543', 2230 hrs 12.19.10. Rezero Tooke Daq. Drilling and connections Toronto, Douglas Shale, Brown Lime, and into Lansing. DMC: -\$75.65 CMC: \$6,179.20
12.21.2010	4080'	Drilling and connections Lansing. CFS @ 3760' (LKC 'G'), resume drilling and connections Lansing, and into Base Kansas City. Rig down for mud pump repairs, 1955 hrs 12.20.10. Resume drilling following pump repairs, 2235 hrs 12.20.10. Drilling and connections into Viola. CFS @ 4065' (Viola). Resume drilling Viola. CFS @ 4080' (Viola). Shows and gas kick warrant DST, short trip, CTCH, drop survey, strap out for DST #1. Devition Survey @ 4080': 2° Pipe Strap @ 4080': 0.90 Short to Board DMC: \$1,005.15 CMC: \$7,184.35
12.22.2010	RTD - 4230' LTD - 4230'	TOH for DST #1, TIH with Tool, conducting DST #1, testing Viola. Test successful. Resume drilling 1900 hrs 12.21.10. Drilling and connections Viola, Simpson, and into Arbuckle. Drilling ahead to RTD of 4230', RTD reached 0155 hrs 12.22.10. CTCH, drop survey, TOH for logging. Open hole logging commenced 0630 hrs 12.22.10. Deviation Survey @ 4230': 2°
12.23.2010	RTD - 4230' LTD - 4230'	Conducting open hole logging operations, logging complete 1030hrs 12.22.10. Orders received to run 4 1/2" production casing to further evaluate multiple Viola chert zones encountered while drilling the Vosburgh #1-2. Geologist Derek W. Patterson off location 1200 hrs 12.22.10.

Oil Producers, Inc. of Kansas

WELL COMPARISON SHEET

DRILLING WELL					COMPARISON WELL				COMPARISON WELL				COMPARISON WELL				
Oil Producers - Vosburgh #1-2 Sec. 2 - 24S - 15W 2970' FSL & 1980' FEL 2006 KB					North American - Ward #1 Sec. 2 - 24S - 15W E/2 E/2 NW				Northern Lights - Munz #1 Sec. 2 - 24S - 15W E/2 SE				Roxana Corp - Meyer #1 Sec. 2 - 24S - 15W E/2 NW NE				
					Gas - Viola		Structural		Oil & Gas - Viola		Structural		Gas - Viola		Structural		
					2011 KB		Relationship		2009 KB		Relationship		2006 KB		Relationship		
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Log	Sub-Sea	Sample	Log
Heebner	3526	-1520	3527	-1521	3513	-1502	-18	-19	3531	-1522	2	1	3501	-1495	-25	-26	
Toronto	3543	-1537	3544	-1538	3536	-1525	-12	-13	Not Called In Field				3520	-1514	-23	-24	
Douglas Shale	3562	-1556	3564	-1558	3552	-1541	-15	-17	Not Called In Field				3544	-1538	-18	-20	
Brown Lime	3666	-1660	3665	-1659	3650	-1639	-21	-20	3669	-1660	0	1	3638	-1632	-28	-27	
Lansing	3674	-1668	3674	-1668	3657	-1646	-22	-22	3677	-1668	0	0	3647	-1641	-27	-27	
Muncie Creek	3790	-1784	3790	-1784	3772	-1761	-23	-23	Not Called In Field				3762	-1756	-28	-28	
Stark Shale	3868	-1862	3870	-1864	3847	-1836	-26	-28	Not Called In Field				3840	-1834	-28	-30	
Base Kansas City	3940	-1934	3940	-1934	3919	-1908	-26	-26	3937	-1928	-6	-6	3940	-1934	0	0	
Erosional Viola	4058	-2052	4059	-2053	4031	-2020	-32	-33	4037	-2028	-24	-25	4031	-2025	-27	-28	
Viola	Ero Viola in Field			4085	-2079	4070	-2059	N/A	-20	4050	-2041	N/A	-38	4050	-2044	N/A	-35
Simpson Shale	4122	-2116	4122	-2116	4098	-2087	-29	-29	4116	-2107	-9	-9	4086	-2080	-36	-36	
Simpson Sand	4129	-2123	4128	-2122	4106	-2095	-28	-27	Not Present				4096	-2090	-33	-32	
Arbuckle	4178	-2172	4179	-2173	4158	-2147	-25	-26	Not Penetrated				4147	-2141	-31	-32	
Total Depth	4230	-2224	4230	-2224	4174	-2163	-61	-61	4129	-2120	-104	-104	4180	-2174	-50	-50	



Weatherford® Completion Systems

DRILL STEM TEST REPORT

Oil Producers Inc. of Kansas

VOSBURGH #1-2

1710 Waterfront Parkway
Wichita, KS 67206-6603

2-24s-15w-STAFFORDKS

ATTN: Derek Patterson

Job Ticket: 39312

DST#: 1

Test Start: 2010.12.21 @ 09:04:00

GENERAL INFORMATION:

Formation: **VIOLA**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:07:00

Time Test Ended: 16:10:15

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **4044.00 ft (KB) To 4080.00 ft (KB) (TVD)**

Reference Elevations: 2006.00 ft (KB)

Total Depth: 4080.00 ft (KB) (TVD)

2002.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 4.00 ft

Serial #: 6799

Outside

Press@RunDepth: 28.56 psig @ 4045.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.12.21

End Date:

2010.12.21

Last Calib.: 2010.12.21

Start Time: 09:04:05

End Time:

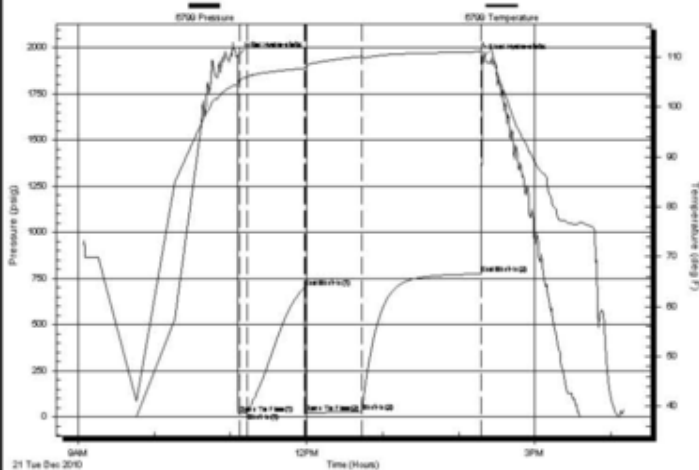
16:10:14

Time On Btm: 2010.12.21 @ 11:05:45

Time Off Btm: 2010.12.21 @ 14:18:45

TEST COMMENT: IF: Fair blow, built to BOB in 7 minutes.
IS: Bled off, no blow back.
FF: Strong blow, built to BOB immediately. No GTS.
FS: Bled off, no blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1953.03	104.40	Initial Hydro-static
2	19.02	105.34	Open To Flow (1)
8	22.30	106.09	Shut-in(1)
53	703.55	107.79	End Shut-in(1)
54	24.41	107.85	Open To Flow (2)
98	28.56	110.15	Shut-in(2)
193	776.69	111.16	End Shut-in(2)
193	1946.61	112.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (tbi)
50.00	Mud 100% _m	0.25
0.00	2250' Gas In Pipe	0.00

Gas Rates

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

ROCK TYPES

LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrst
- Salt
- Shale
- Shcol
- Shgy
- Slstst
- Ss
- Till
- Slststn
- Shale
- Sandylms
- Lms
- Gry sh
- Dtd
- Dol
- Carb sh
- pipesymbol

- unknown lith
- Red shale

FOSSIL

- Oomoldic
- Fuss
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

MINERAL

- Silty

- Sand
- Dol
- Chlorite
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil

STRINGER

- Red shale
- Sh
- Sandylms
- Lms
- Gryslt
- Grysh
- Dol
- Clystn
- Carbsh
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Slststrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln

- Sulphur
- Tuff

- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OIL SHOW

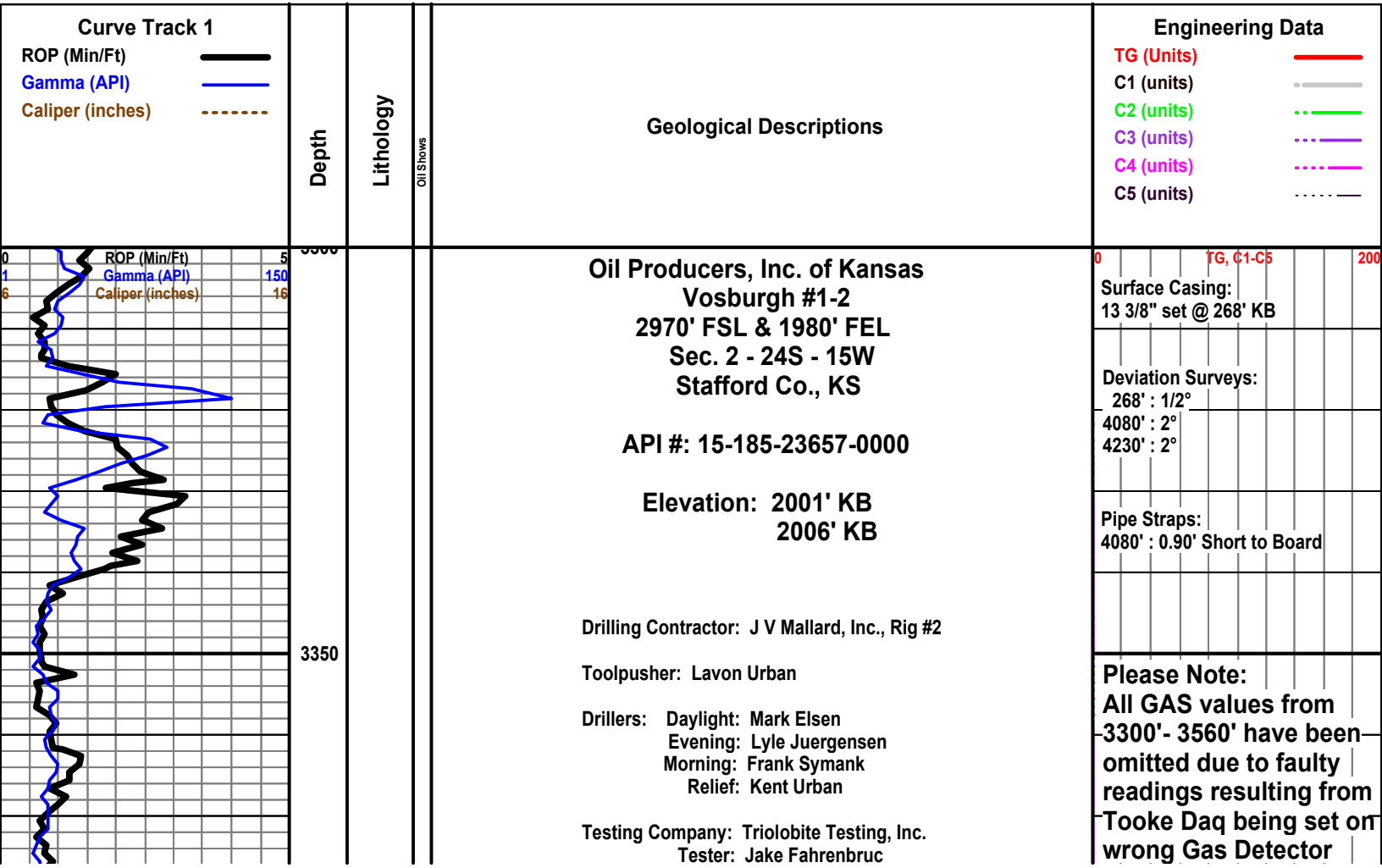
- Gas show
- Good
- Fair
- Poor
- Dead

INTERVAL

- Dst
- Core
- Dst
- Straddle test t

EVENT

- Rft
- Sidewall
- Dst
- Open hole
- Perforations



Logging Company: Superior Well Services
Logging Engineer: Mitch Rupp

Geologist: Derek W. Patterson

Bluestem Gas Detector Trailer on location and operational @ 1450 ft.
The ROP, TG, C1 (Methane), C2 (Ethane), C3 (Propane) & C4 (N-Butane = C4 Butane + C5 Iso Butane) DATA was downloaded from the Tooke Daq System.
Said DATA was imported and displayed on this Geo Log.

Displace Mud System @ 2914'

Start 20' Wet & Dry Samples @ 3000'

3400

ROP (Min/Ft) 5
Gamma (API) 150
Casing (inches) 16

3450

3500

3550



Limestone: gray lt gray cream, slightly chalky matrix, vfxln, grainy, fossiliferous to heavily fossiliferous, poor interxln porosity, no shows noted, no fluorescence, with scattered Chalk in sam

Limestone: cream lt cream lt gray, slightly chalky matrix, vfxln, grainy, fossiliferous, poor interxln porosity, no shows noted, no fluorescence, with continued Chalk as above.

Limestone: cream tan lt gray, chalky matrix in part, vfxln, mostly grainy, fossiliferous, poor interxln porosity, no shows noted, no fluorescence, with scattered Chalk in sample.

Limestone: tan cream, slightly chalky to dense matrix, vfxln-microxln, grainy in part, sub-fossiliferous to fossiliferous, poor visible porosity with some scattered fair-poor pinpoint porosity, no shows noted, no fluorescence, with scattered Chalk in sample.

Limestone: cream lt tan, chalky matrix, microxln-vfxln, grainy in part, fossiliferous in part, poor interxln porosity, no shows noted, no fluorescence, with abundant Chalk in sample.

Heebner 3527 (-1521)

Shale: black, carbonaceous, mostly blocky and slightly waxy, very slightly bleeding gas bubbles, vfxln
Shale: gray dk gray, mostly blocky, soft to har

Limestone: tan lt cream, dense, microxln-vfxln, fossiliferous, overall poor interxln porosity, no shows noted, very poor-no fluorescence, with Shale: gray dk gray, mostly blocky, soft to hard.

Toronto 3544 (-1538)

Geologist, Derek W. Patterson, on location 2230 hrs 12.19.10

Limestone: lt cream off white lt gray, vfxln-microxln, fossiliferous, small-medium imbedded calcite crystals, slightly cherty in part, fair-poor interxln porosity, no shows noted, poor-no fluorescence.

Douglas Shale 3564 (-1558)

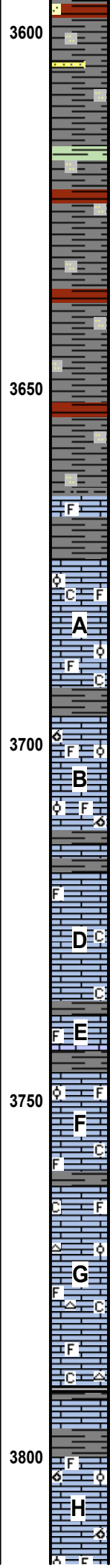
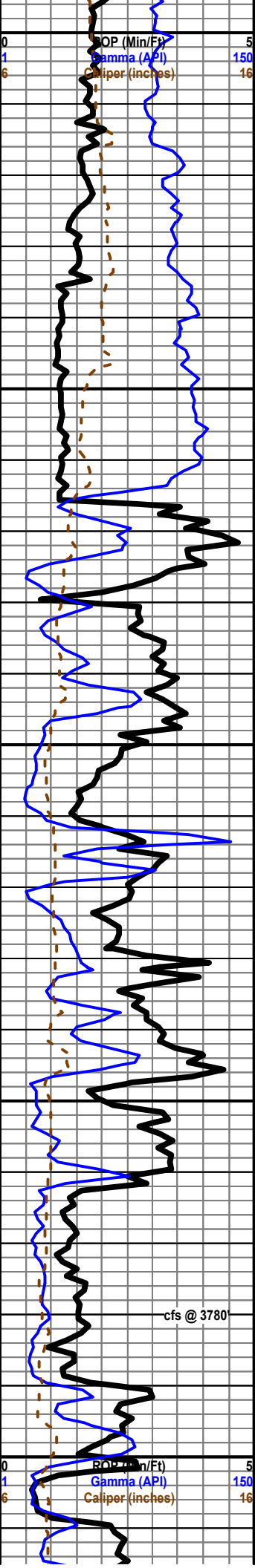
Shale: gray dk gray green brick red brown, soft to hard, round to blocky, some slightly silty, no shows noted.

Mixed Shale: as above, some becoming slightly arenaceous, with trace Sandstone: off white lt gray, vfxln, grainy, poor intergranular porosity, no shows noted, very poor fluorescence, sample washes dk red/brown.

Range.

0 TG, C1-C5 200

Rezero Gas Detector
0 = 10 Units



Start 10' Wet & Dry Samples @ 3600'

Shale: gray dk gray brick red green, blocky and hard, silty in part, some fissile, sample washes dk gray.

Shale: gray dk gray brick red, blocky and hard, silty, some fissile, sample washes dk gray.

Shale: gray dk gray brick red, blocky to round, hard to soft, waxy, nearly all silty, sample washes dk gray.

Brown Lime 3665 (-1659)

Limestone: brown dk brown, dense, microxln, fossiliferous to heavily fossiliferous, poor interxln porosity, no shows noted, no fluorescence.

Lansing 3674 (-1668)

Limestone: It cream off white, slightly chalky, microxln-vfxln, slightly fossiliferous, trace oolitic, overall poor interxln porosity, no shows noted, no cut fluorescence, poor-no fluorescence.

Limestone: It cream off white, chalky in part, vfxln-microxln, fossiliferous with some heavily oolitic, scattered fair interfossiliferous porosity, no shows noted, no cut fluorescence, spotty dull lt yellow fluorescence.

Shale: gray dk gray, mostly blocky and hard, splintery in part.

Limestone: tan cream, vfxln-microxln, fossiliferous with some oolitic, scattered oomoldic with small-medium oomolds, fair oomoldic porosity in most pieces, poor visible permeability, no visible shows noted, very poor dull yellow cut fluorescence in few pieces, even dull lt yellow fluorescence in most pieces, no odor in sample.

Shale: gray dk gray, mostly blocky and hard, splintery in part.

Limestone: cream lt cream tan, slightly chalky matrix, vfxln-microxln, slightly fossiliferous, poor visible porosity, 1 piece with very poor golden staining along edges, no other shows noted, poor-no fluorescence, no odor in sample.

Limestone: cream lt gray, chalky matrix, vfxln-microxln, fossiliferous in part, poor visible porosity, no shows noted, very poor fluorescence.

Limestone: It cream lt gray, slightly chalky matrix, vfxln, fossiliferous with trace oolitic, poor interxln porosity, no shows noted, even dull pale yellow-no fluorescence.

3780' cfs 15" - Limestone: It cream off white, soft chalky matrix, vfxln-microxln, slightly fossiliferous with trace oolitic, poor interxln porosity, no shows noted, poor-no fluorescence, with abundant Chalk in sample, sample washes lt gray/white.

3780' cfs 30"/45" - Limestone: off white lt cream, soft chalky matrix, vfxln-microxln, slightly fossiliferous with trace oolitic, poor interxln porosity, no shows noted, poor-no fluorescence, with abundant Chalk in sample, and scattered Chert: lt gray off white, fresh and sharp, fossiliferous in part, no shows noted, sample washes lt gray/white.

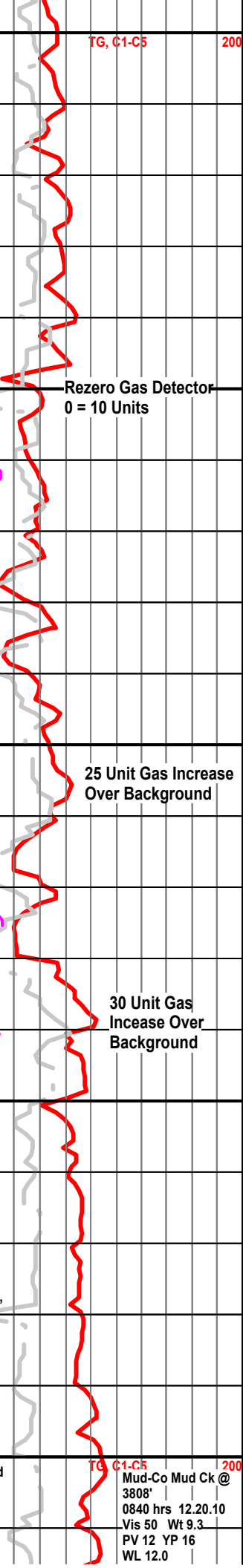
Limestone: as above, with scattered Chalk and Chert in sample, no shows noted.

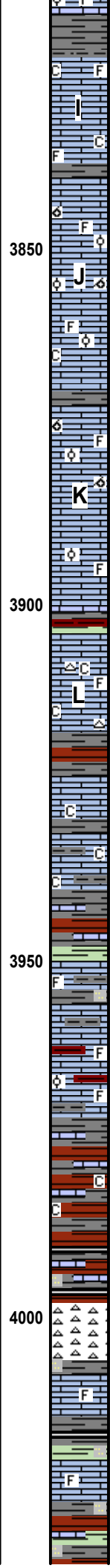
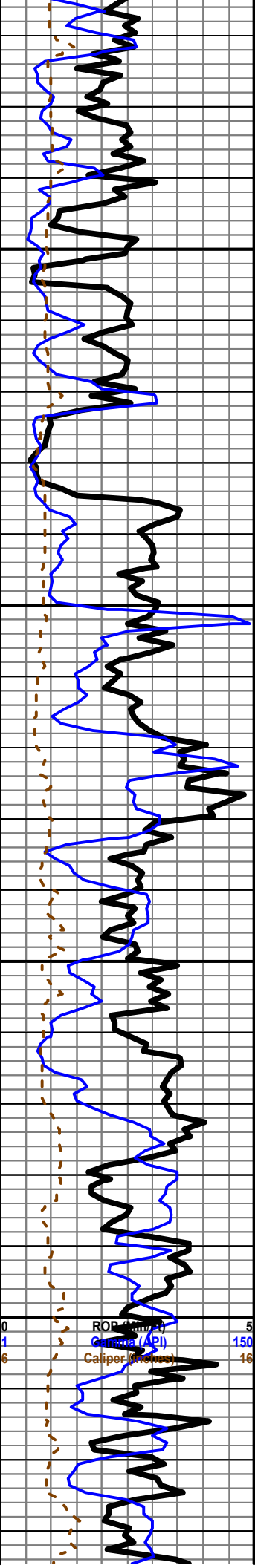
Muncie Creek 3790 (-1784)

Shale: gray dk gray, mostly blocky, hard to waxy, some fissile to splintery, with trace Shale: black, carbonaceous.

Limestone: cream lt tan, vfxln, heavily oolitic/fossiliferous with good oomoldic development, fair-ood oomoldic porosity in most pieces, slight 2ndary xln in porosity in most, no shows noted, no cut fluorescence, even to spotty bright yellow fluorescence.

Limestone: cream lt tan, vfxln, heavily oolitic/fossiliferous, scattered poor oomoldic development, overall poor oomoldic/interxln porosity, no shows noted, even to spotty bright yellow fluorescence.





Shale: gray dk gray, blocky, soft to hard, some fissile to splintery.

Limestone: It cream lt gray, dense to chalky matrix, microxln-vfxln, slightly fossiliferous, poor visible porosity, scattered 2ndary xln along edges in few pieces, no shows noted, little-no fluorescence.

Limestone: It cream off white, microxln-vfxln, heavily oolitic/fossiliferous with good oomoldic development, fair-good oomoldic porosity, few pieces with very poor golden brown staining along edges, no other shows noted, no cut fluorescence, spotty dull yellow-no fluorescence

3850

Limestone: It cream off white, slightly chalky matrix, vfxln, grainy, heavily fossiliferous with some oolitic, scattered oomoldic, fair interxln/oomoldic porosity in most pieces, no shows noted, no cut fluorescence, poor-no fluorescence.

Limestone: It cream off white, chalky matrix, vfxln, grainy, heavily fossiliferous, poor interxln porosity, no shows noted, no cut fluorescence, no fluorescence.

Stark Shale 3870 (-1864)

Shale: gray dk gray, mostly blocky and hard, some slightly waxy, some fissile to splintery.

Limestone: It cream, vfxln-microxln, fossiliferous with oolitic, small oomoldic development, fair-good oomoldic porosity in most pieces, no visible shows noted, no cut fluorescence, spotty to even bright yellow fluorescence, very faint odor in sample.

Limestone: cream lt cream, vfxln, fossiliferous with some oolitic, overall poor interxln porosity, no shows noted, scattered even bright yellow fluorescence.

3900

Hushpuckney 3901 (-1895)

Shale: gray dk gray green brick red, mostly blocky and hard, fissile and splintery, some silty and pyritic.

Limestone: It cream lt gray off white, slightly chalky matrix, microxln-vfxln, fossiliferous in part, poor visible porosity, 2 pieces with slight dk black gilsonite dead staining along edges, no other shows noted, no fluorescence, with scattered Chert: cream tan, fresh and sharp, slightly fossiliferous, no shows noted

Shale: gray dk gray brick red green, mostly blocky and hard, some waxy, fissile to splintery.

Limestone: It cream off white, dense chalky matrix, vfxln-microxln, slightly fossiliferous to barren, poor visible porosity, no shows noted, no fluorescence, with abundant Shale: gray dk gray brick red mostly blocky and hard, splintery.

3950

Base Kansas City 3940 (-1934)

Shale: gray dk gray green brick red, mostly blocky and hard, some splintery, with INTERBEDDED Limestone: cream tan lt gray, vfxln, slightly fossiliferous, poor visible porosity, no shows noted, no fluorescence.

Limestone: cream tan lt gray, dense, vfxln, fossiliferous, poor visible porosity, no shows noted, no fluorescence, with abundant mixed Shale as above, some becoming silty.

INTERBEDDED - Limestone: cream lt cream off white, dense, vfxln-microxln, heavily fossiliferous with some oolitic, poor interxln/interfossiliferous porosity, some scattered 2ndary xln along edges, no shows noted, no fluorescence, with Shale: gray dk gray, mostly blocky and hard, some fissile to splintery, sample starting to wash brown/lt brown.

INTERBEDDED - Shale: gray dk gray brick red, mostly blocky and hard, some fissile to splintery, Limestone: cream tan lt gray, dense to slightly chalky matrix, microxln-vfxln, fossiliferous, poor interxln porosity, no shows noted, no fluorescence, sample washes lt brown/red.

INTERBEDDED - Shale: gray dk gray brick red purple trace black carbonaceous, mostly blocky and hard, splintery, some silty, with Limestone: cream lt cream off white lt gray, dense to chalky matrix, microxln-vfxln, fossiliferous, poor interxln porosity, no shows noted, no fluorescence.

4000

Chert: orange with some clear translucent, fresh and sharp, no shows noted, no fluorescence.

INTERBEDDED - Shale: gray dk gray green brick red purple maroon yellow black carbonaceous, round to blocky, soft to hard, some waxy, splintery in part, some silty, with Limestone: as above, no shows noted.

INTERBEDDED - Shale: gray dk gray green brick red purple yellow, round to blocky, soft to hard, some waxy, splintery to fissile in some pieces, some silty, with scattered Limestone as above, no shows noted.

Cake 1/32
pH 8.5
CHL 9,600 ppm
Cal 100
Sol 6.8
LCM: 0 #/bbl
DMC: -\$75.65
CMC: \$6,179.20

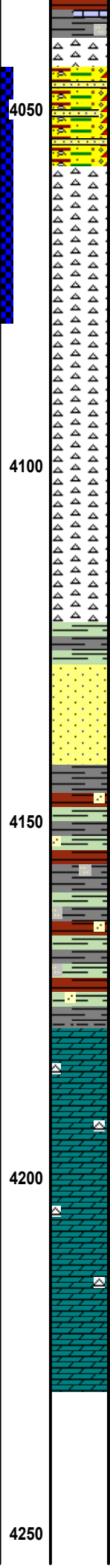
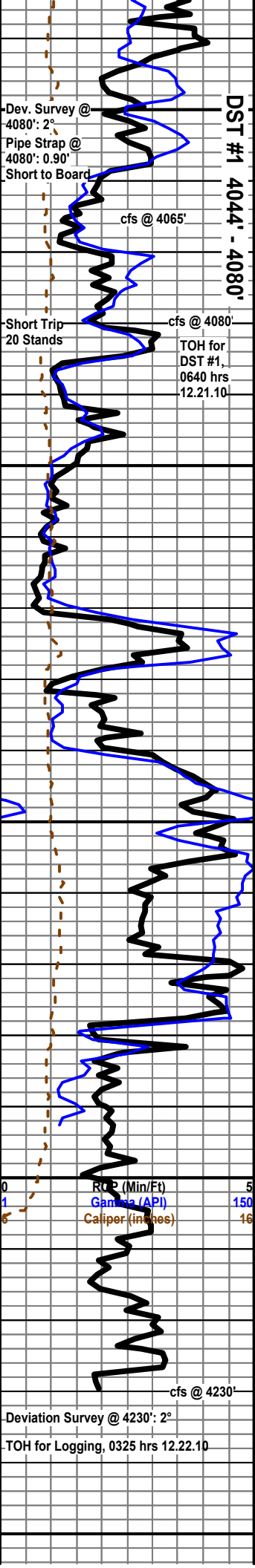
Rezero Gas Detector
0 = 15 Units

Rezero Gas Detector
0 = 20 Units

TG, C1-C5

Rezero Gas Detector
following repairs
0 = 15 Units

Rig down for mud
pump repairs,
1955 hrs 12.20.10



Chert: tan pale yellow, mostly fresh and sharp, no shows noted, no fluorescence.

Abundant Conglomerate, mostly soft brick red shale, sample washes dk red with influx, Sandstone: clear quartz grains, vf-fine grained, sub-rounded to sub-angular, well sorted, mostly well cemented, fair intergranular porosity, even lt brown-brown saturated stain, poor show bleeding free brown oil and gas bubbles with fair increase upon break, fair bluish-white cut fluorescence, poor fluorescence, no odor in sample.

Erosional Viola 4058 (-2052)

4065' cfs 30"/60" - Chert: off white cream, fresh and sharp, barren, no visible shows, with Chert: white gray trace black, weathered, tripolitic in part, slightly bleeding gas bubbles and free brown oil with fair increase upon break and left under lamp, fair brown saturated staining along edges with some having dk asphaltic staining, all having milky-bluish/white cut fluorescence, even bright yellow fluorescence, fair gassy odor in sample, and abundant Sandstone as above with continued shows.

4080' cfs 30"/60" - Chert: mixed fresh and sharp to weathered as above, continued shows as described above, all pieces having streaming milky-white cut fluorescence, scattered free dk brown oil droplets in tray, faint gassy odor in sample, with overall decrease in Sandstone from above, and influx Chert gray, spiculitic, no shows/cu'

Resume drilling following DST #1, 1900 hrs 12.21.10

Viola 4085 (-2079)

4081' - 4096' - Chert: bone white lt cream, fresh and sharp with some slightly weathered, mostly barren with some very slightly fossiliferous, few scattered solution vugs, few pieces with good dk black asphaltic staining, fair show tarry black residue from such pieces, fair milky-white cut fluorescence, no other shows noted, fair-poor pale yellow fluorescence in few pieces, no odor in sample.

4097' - 4110' - Chert: abundant fresh and sharp as above, with Chert: lt cream tan, fairly weathered tripolitic, scattered small-medium vugs, few pieces slightly bleeding gas bubbles with fair increase upon break/left under lamp, slight gassy sheen across sample, few visible lt brown oil droplets in tray, fair-poor bluish-white cut fluorescence, even dull lt yellow fluorescence, very faint gassy odor in sample.

4111' - 4121' - Chert: white bone white lt cream tan, mixed fresh and sharp to weathered tripolitic as above, continued minor gas shows as above, fair amount of fresh pieces having dk black asphaltic staining along edges and in visible vugs, overall poor bluish-white cut fluorescence in most, poor fluorescence.

Simpson Shale 4122 (-2116)

Shale: pale green gray dk gray some purple, sub-round to sub-blocky, soft.

Simpson Sand 4128 (-2122)

Sandstone: clear quartz grains, mostly fine-coarse grained with some vf grained, sub-angular, most poorly sorted, well cemented, small-medium dirty clusters, micaceous, poor intergranular porosity in most, very slight show lt brown oil and gas bubbles around edges/from porosity, fair increase in shows when broken/left under lamp, most having dead tarry black oil within grains upon break, milky-white to bluish-white cut fluorescence, spotty bright green fluorescence, poor-no odor in sample.

Shale: gray dk gray pale green brick red, mostly blocky, soft to hard, some sandy, sample washes dk red/brown.

Shale: gray dk gray pale green teal brick red, large slivers/chunks, mostly blocky with some sub-rounded, mainly hard, splintery to fissile, scattered sandy and silty.

Shale: gray dk gray pale green teal brick red purple some yellow, large slivers/chunks, mostly blocky hard to very hard, splintery to fissile in part, scattered sandy and silty.

Arbuckle 4179 (-2173)

Dolomite: cream lt cream lt tan, tight matrix, vfxln, sucrosic, fair-poor interxn porosity, no shows noted, even bright pale green fluorescence.

Dolomite: cream lt cream lt tan trace pink, tight matrix, vfxln-fxln, sucrosic with some scattered fair rhombic development, overall poor interxn porosity, no shows noted, even bright pale green fluorescence, with scattered Chert: bone white lt cream, fresh and sharp, barren, no shows noted.

Dolomite: lt cream, vfxln-fxln, oolitic, sucrosic matrix with fair-good oomoldic development, fair-good oomoldic porosity, good 2ndary xln in porosity, no shows noted, even bright lt yellow-pale green fluorescence, with Dolomite as above, and scattered Chert: white bone white lt cream, fresh and sharp, barren, no shows noted.

4230' cfs 0"/30" - Dolomite: lt cream lt tan, fxln-coarsexln, most having good rhombic development, good rhombic porosity in most pieces, fair-good 2ndary xln between crystal faces, no shows noted, even bright pale green fluorescence, with trace Chert as above.

4230' cfs 60" - Dolomite: lt cream lt tan off white, fxln-coarsexln with some vfxln, sucrosic to fair rhombic development, fair interxn porosity in most pieces, fair 2ndary xln between crystal faces, no shows noted, even bright pale green-yellow fluorescence.

RTD 4230 (-2224)

LTD 4230 (-2224)

Rotary TD @ 4230', 0155 hrs 12.2210
 Superior Well Services Open Hole Logging TD @ 4230'
 Commence Open Hole Logging Operations, 0630 hrs 12.22.10
 Complete Open Hole Logging Operations, 1030 hrs 12.22.10
 Orders Received to Run 4 1/2" Production Casings

Resume drilling following repairs, 2235 hrs 12.20.10

60 Unit Gas Kick Over Background

95 Unit Gas Kick Over Background

Mud-Co Mud Ck @ 4080'
 1240 hrs 12.21.10
 Vis 49 Wt 9.2
 PV 12 YP 28
 WL 14.8
 Cake 2/32
 pH 9.5
 CHL 14,000 ppm
 Cal 240
 Sol 5.6
 LCM: 0 #/bbl
 DMC: \$1,005.15
 CMC: \$7,184.35

Decision Made By Operator To Continue Without Filament Replacement

Gas Detector Not Working - Filament Out

TG, C1-C5 200

Geologist, Derek W. Patterson, off location 1200 hrs 12.22.1

**Respectfully Submitted,
Derek W. Patterson**