

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 _____ Date Reached TD _____ Completion Date or
Recompletion Date _____ 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)</i> <i>(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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QUALITY WELL SERVICE, INC.

7025

Federal Tax I.D. # 481187368

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

Mailing Address P.O. Box 468

Office 620-727-3410

Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-28-13	14	33S	12W	BARBER	Ks		
Lease M. Ideen	Well No. 1	OWWO	Location MEN LODGE, Ks S to Hordtree CT OFF				
Contractor W.W. Drlg, Rig # 24	Owner W to S of Lawrence Rd. 3 N E into						
Type Job L.S.	To Quality Well Service, Inc.						
Hole Size 7 7/8	You are hereby requested to rent cementing equipment and furnish						
Csg. 5 1/2	cementer and helper to assist owner or contractor to do work as listed.						
Tbg. Size	Depth 4890	Charge To Griffin CHARLES					
Tool	Depth	Street					
Cement Left in Csg.	Shoe Joint 29.75	City					
Meas Line	Displace 115.86	State					
The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Amount Ordered 250x Proc 2% GEL							
EQUIPMENT							
Pumptrk 8 No. TS	10% SALT 5 1/2 KOSAL						
Bulktrk 10 No. JAKE	Common 250x						
Bulktrk No.	Poz. Mix						
Pickup No.	Gel. 5x						
JOB SERVICES & REMARKS							
Rat Hole 30x	Hulls						
Mouse Hole 20x	Salt 23x						
Centralizers	Flowseal						
Baskets	Kol-Seal 1250						
D/V or Port Collar	Mud CLR 48 500 gal						
Run H 5-5 1/2 * csg set 2	CFL-117 or CD110 CAF 38 10 gal CC-1						
AFU FS: 20 1H =	Sand						
Csg on Bottom Hook up to csg Break (2) 30 min	Handling 283						
Drop Ball Pt Plug Cont on Cirl 30 min	Mileage 20						
START Pumping 5 Bbls H 20 12 Bbls MF 5 Bbls H 20	5 1/2 FLOAT EQUIPMENT						
Plug R-M Holes 30x	Guide Shoe						
START mix: Pump 200x Proc C w CSG	Centralizer 5 EA						
SHUT DOWN wash up trk: RELEASE L D Plug	Baskets						
START Disp 2% KCL	AFU Inserts						
LEFT PS: 700' 93 out	Float Shoe 1 EA						
LAND Plug 115.86	Latch Down 1 EA						
PS: up 1300'	SERVICE SUPERVISION						
RELEASE! HOLD 1/4 Bbl Back	LMV 20						
Good csg thru JOB	Pumptrk Charge LC						
Thank you	Mileage 40						
PLEASE CALL AGAIN TOMORROW JAKE							
X Signature W.W. Drlg							
Tax							
Discount							
Total Charge							



GRIFFIN MANAGEMENT, LLC

PO Box 347 Pratt, Kansas 67124

620.672.9700

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

Well Name: Mildred #1

API: 15-007-22331

Location: NW - NE - SE - SW

License Number: 33936

Spud Date: 12/18/2016

Surface Coordinates: NA

Bottom Hole NA

Coordinates:

Ground Elevation (ft): 1438'

Logged Interval (ft): 4300'

Formation: Ordovician Simpson @ RTD

Type of Drilling Fluid: Chemical Drispac (Mudco.)

K.B. Elevation (ft): 1448'

Total Depth (ft): 4910' LTD

Region: Barber County
Drilling Completed: 12/27/2018

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

Company: Griffin Charles M

OPERATOR

OPERATOR

Company: Griffin, Charles N.
Address: P.O. Box 347
Pratt, KS 67124-0347

GEOLOGIST

Name: Bruce A. Reed
Company: TerraTech Energy Service, LLC
Address: 1632 S. West Street
Wichita, KS 67213
316.264.6066

Remarks

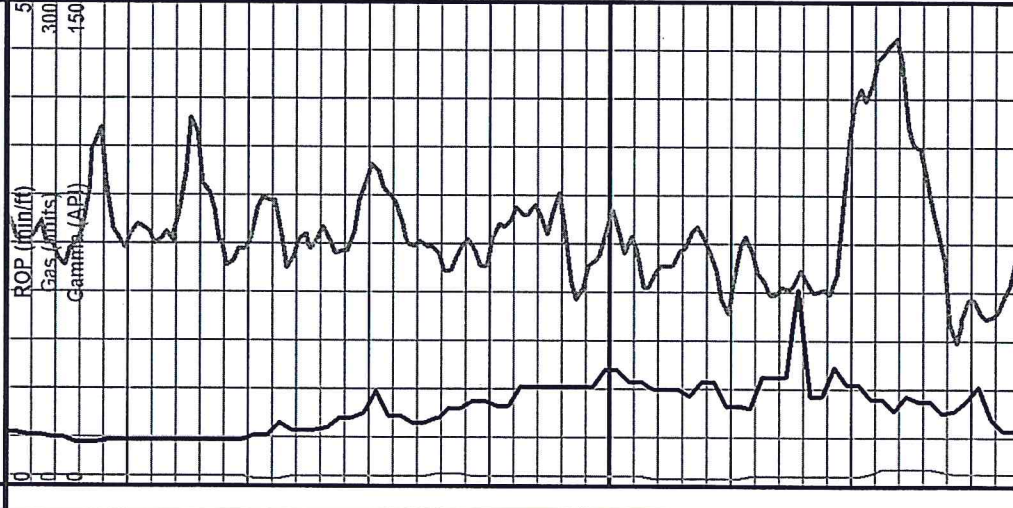
The Mildred #1 was planned as a re-entry & deepening of the Sullivan & Co, Harbaugh, M. #1. (api # 15-007-22331). Got out of old hole @ ~700' and continued drilling "new hole". KB corrected to 10' @ RTD, which was 10' shallow to LTD. Pipe was set to further evaluate this well through perforations.

Logging Stops	Curve Track 1	ROP (min/ft)	Gas (units)	Gamma (API)	SMO	Lithology	Geological Descriptions	Drilling Fluid, Surveys, Etc.
		—	—	—				

OIL SH
MD

35

3550



Drill Time @ Gas Curve imported from iBall remote systems. (Provided by BlueStem Environmental)

Gamma Curve imported from ELL Logging LAS File.

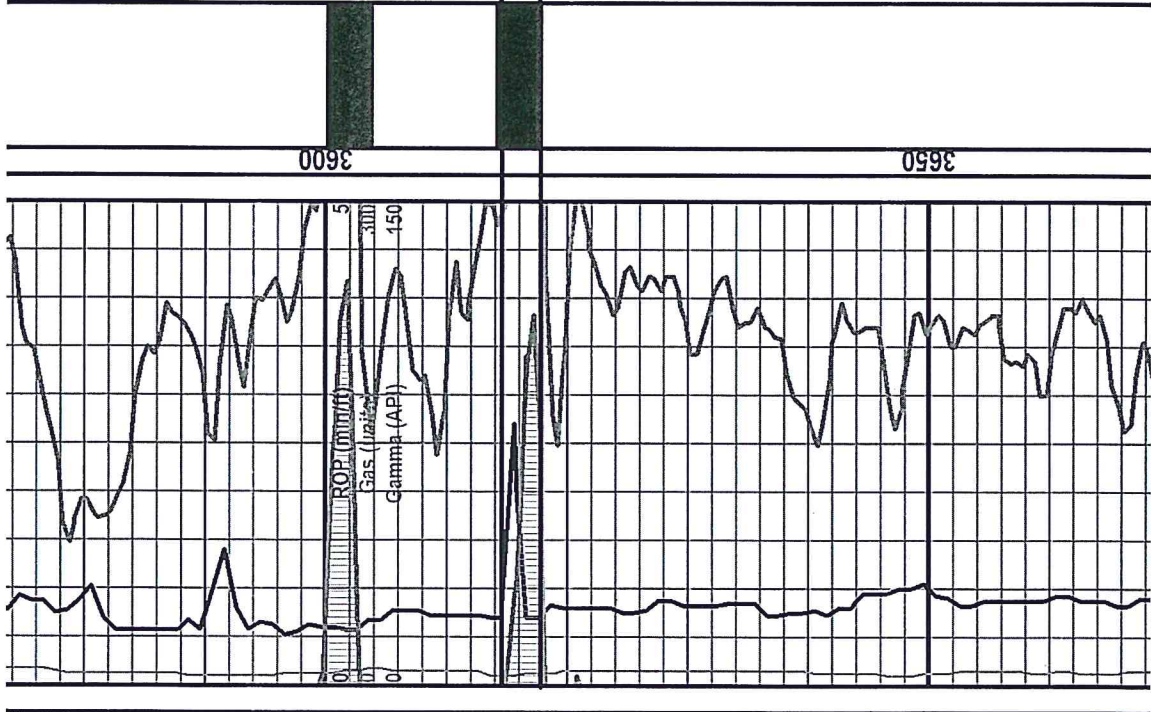
Got out of old hole @ ~700'. Continued drilling "new" wellbore.

Circuit

Tops have been corrected to ELI wireline logging tools. *LTD 10' deeper than RTD (4910')

Heebner 3616' (-2168')

Douglas



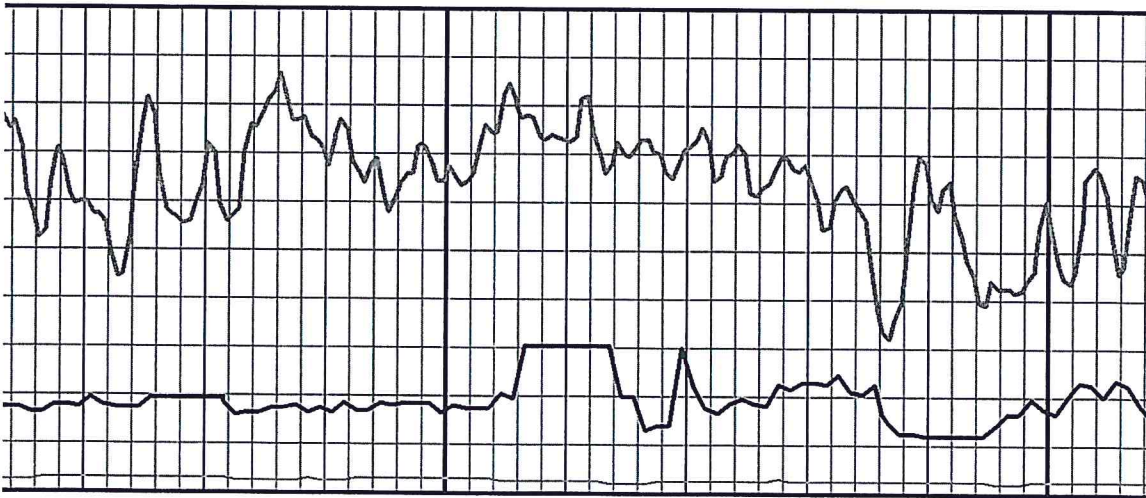
3600

3650

ROP (muff)
Gas (API)
Gamma (API)

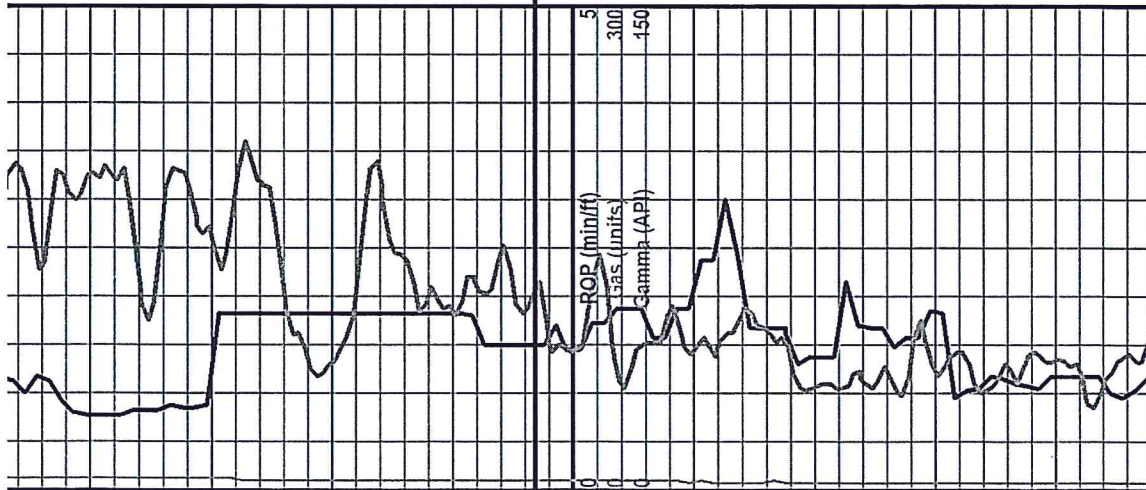


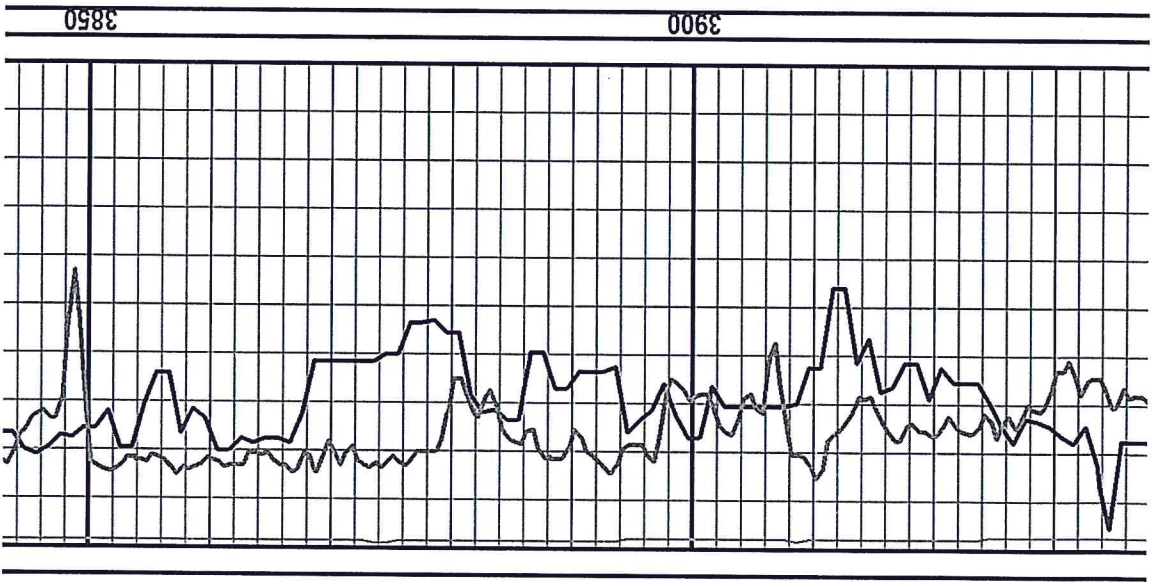
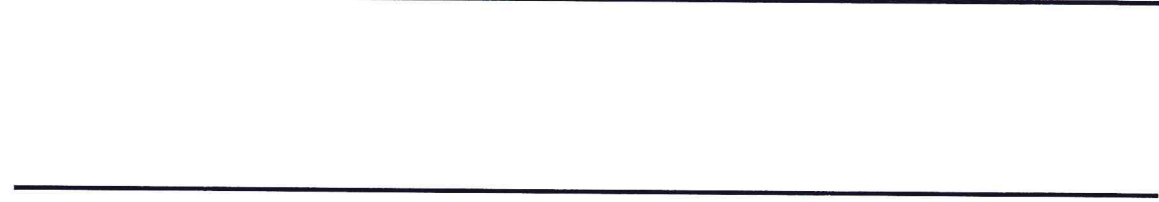
3750 3700

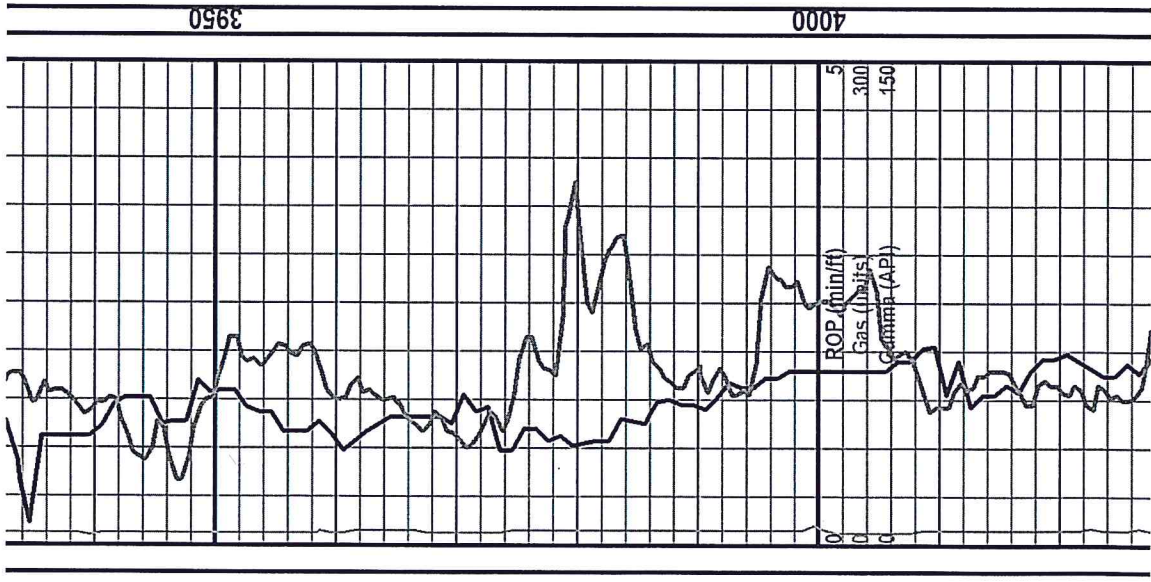


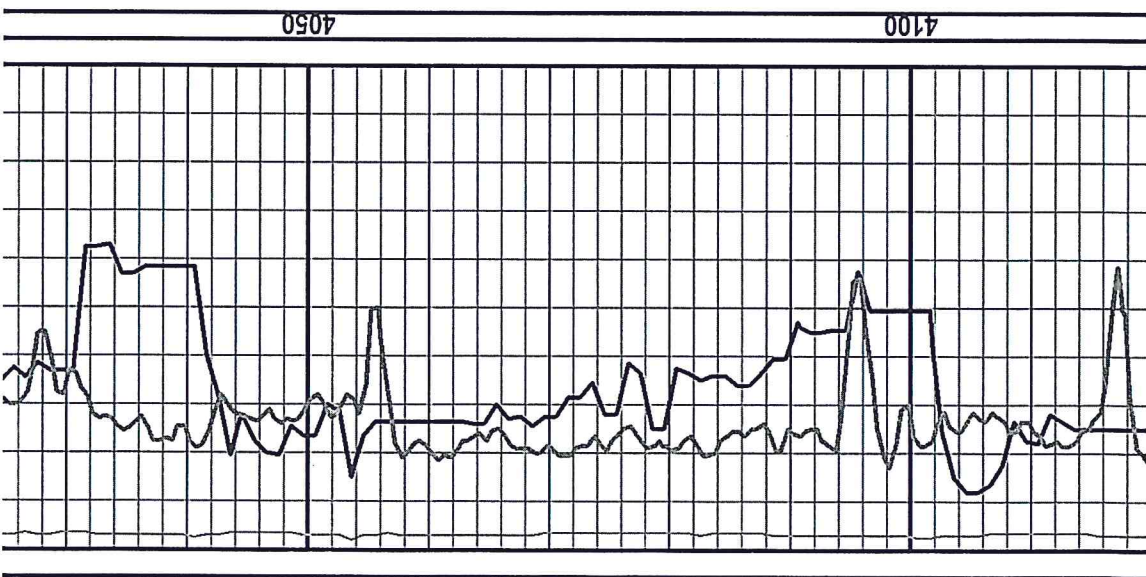
Lansing 3797 (-2349')

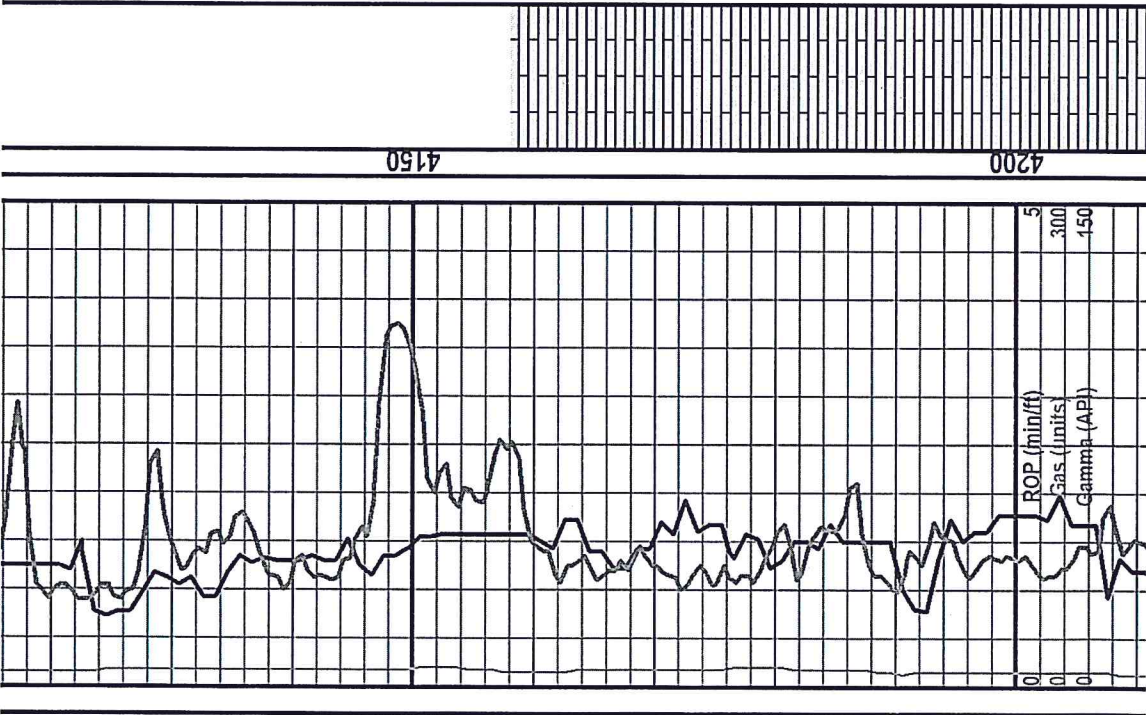
3800









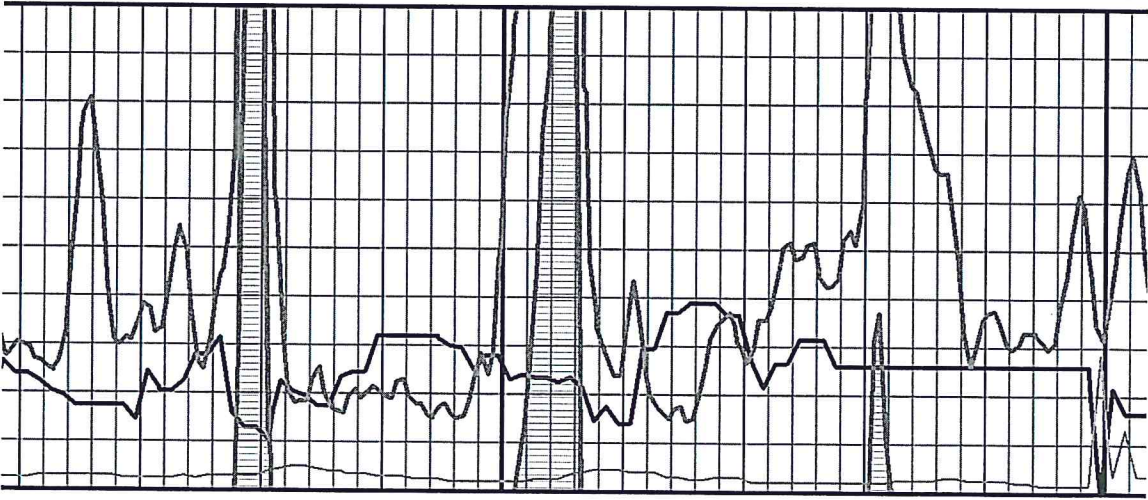
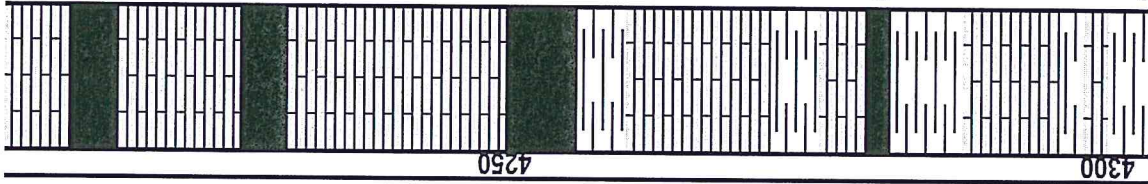


Shut Down for
Holiday 12.23.18
(4300')

Bruce A. Reed
on location
12/26/18 @ 1 pm

Shale: gray, green, red (trip cavings) with trace crm dense lime.

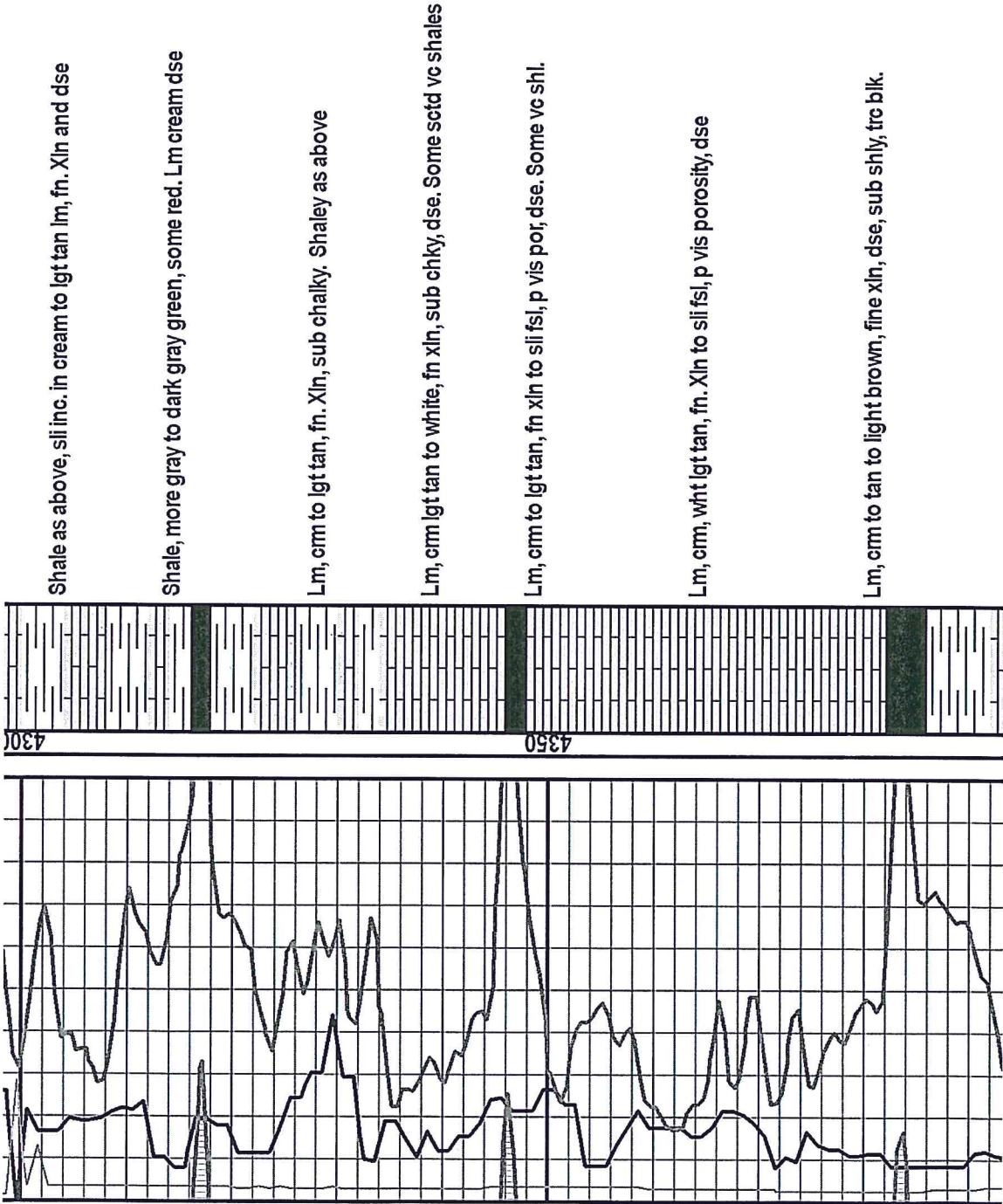
Chalcedony shale, lime in amount, limestone in thin and blue

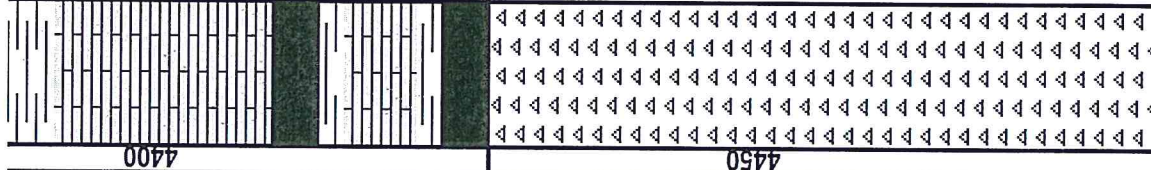
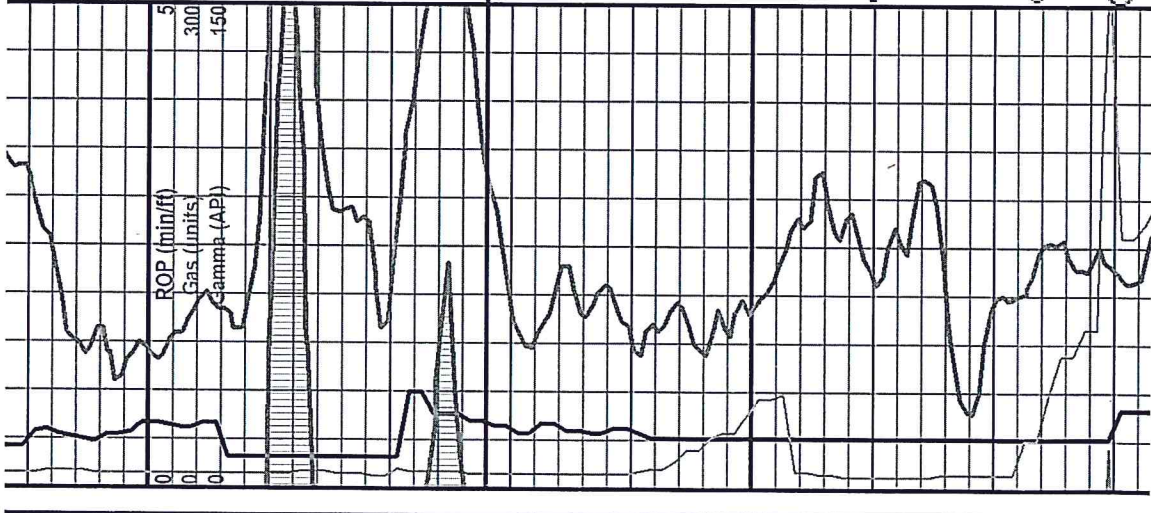


WILLIAMS
12/26/18 @ 1 pm

20' Wet & Dry
Samples @ 4320'

Changed out
extractor on Gas
Detector





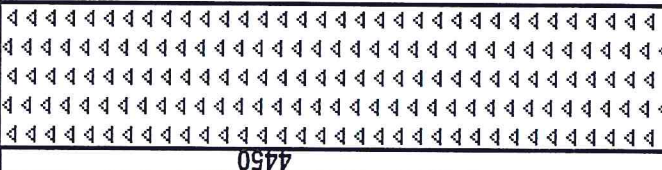
Mississippian 4428' (-2980')

Cherts, wht, tan, lgt gm, mostly vit, opq to semi trans, shp.

60" sample, cherts as above with abundant red silty shale

few ps weathered with spng tex, vssfo and gas bubble, no fluor.

Chert, cm to tan, vit, opq, shp and blk. Trc dead oil, ques. Gb, no fluorescence



Shaley lime, pink to red, fine xln, lots of silty/sdy red/rust shale.

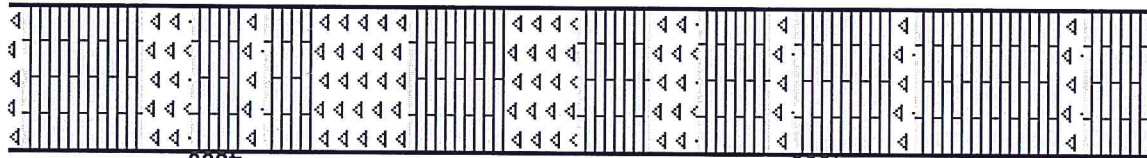
Shaley lm as above, few pieces wht, vit cht

Lm, rd to salmon, lgt tan, fn to sil md xln. Inc in silty/sdy rd shl.

Lm, crm to lgt tan, fn to sil micro xln. Lots of cht, wht vit shp

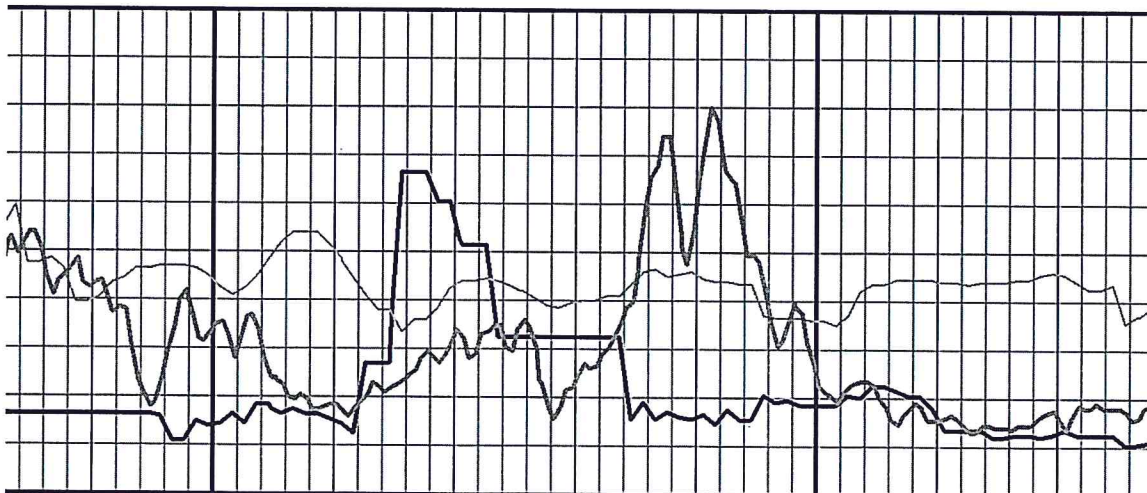
Chty lm as above

Lm, crm to wht, fn xln, p vis por, dse, sub-chky to trc cht, vit



4500

4550



Kinderhook Shale 4596' (-3148')

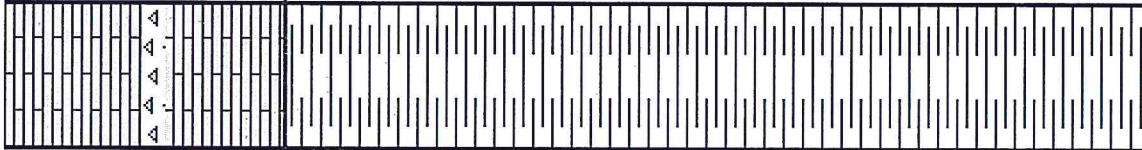
Lm as above, shale gry, bm, some rd

Shale, lgt gry, bm to rust rd, vy silty

Shale as above, spls wash dirty

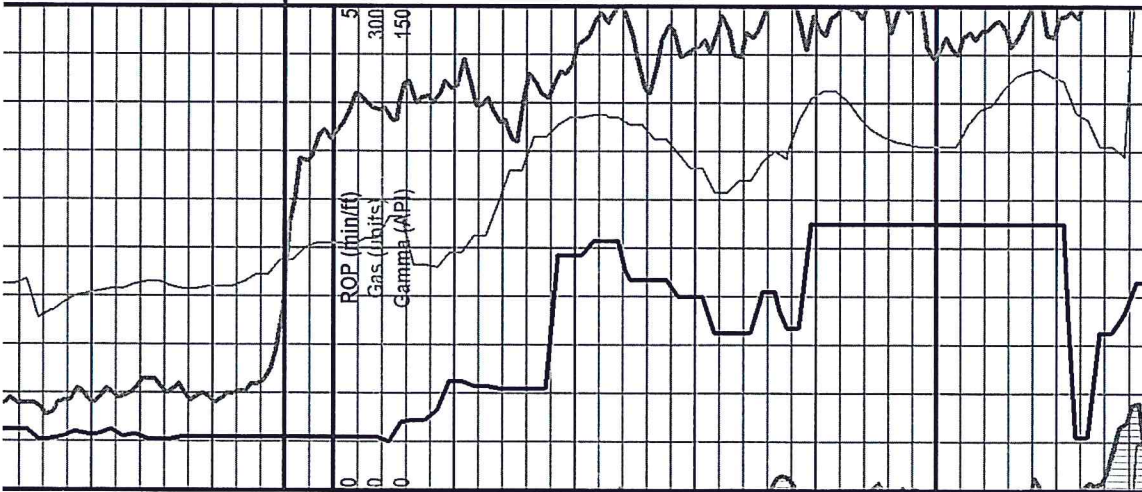
Shales, vari-colored, spls wash dirty

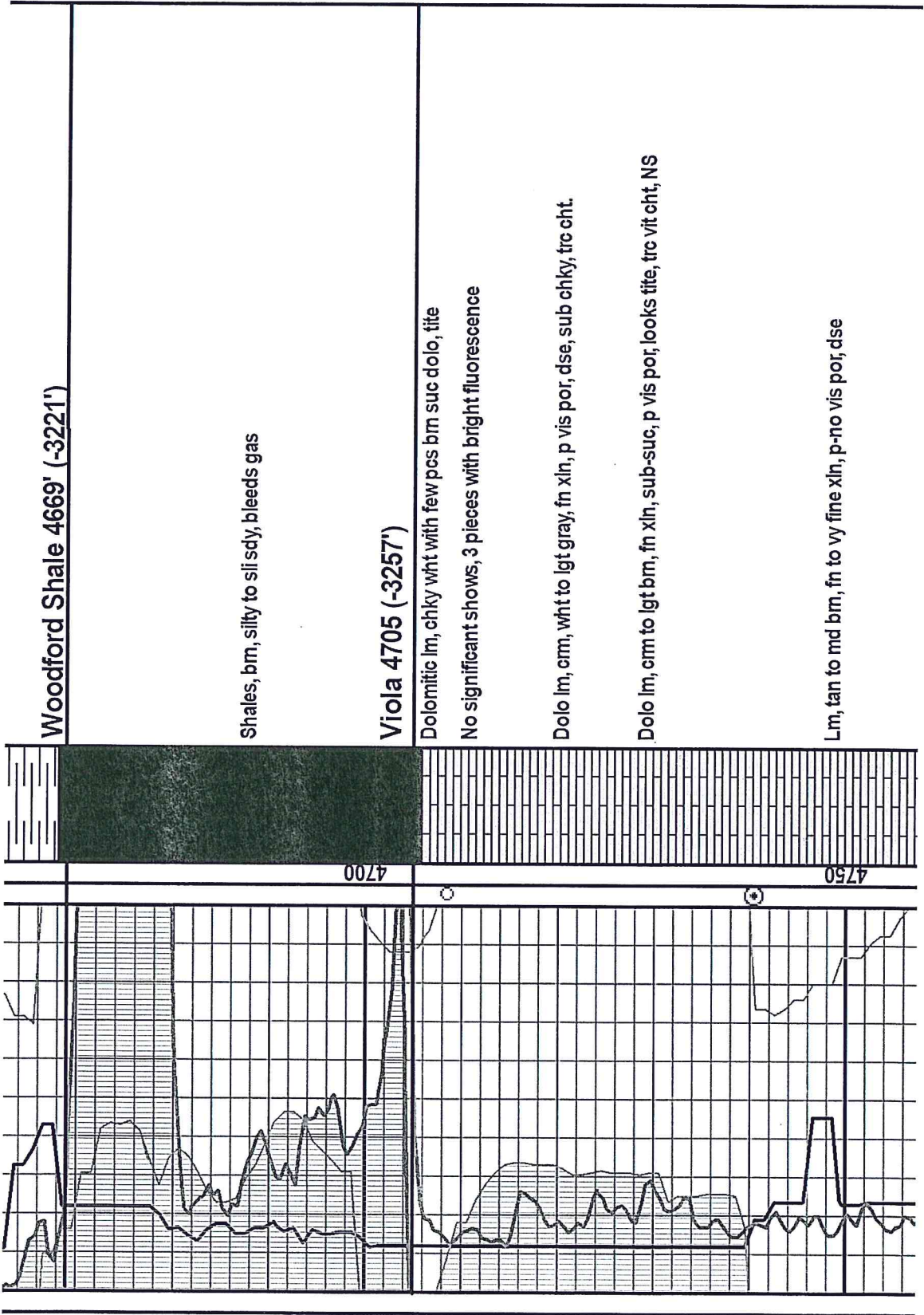
Woodford Shale 1220' (-3291')



4600

4650





Woodford Shale 4669' (-3221')

Shales, bm, silty to silsdy, bleeds gas

Viola 4705 (-3257')

Dolomitic lm, chky wht with few pcs bm suc dolo, tite
 No significant shows, 3 pieces with bright fluorescence

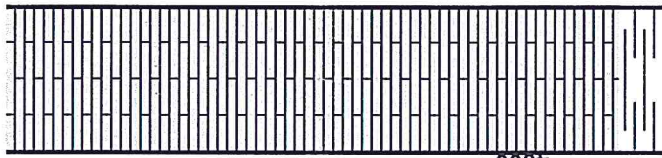
Dolo lm, crm, wht to lgt gray, fn xln, p vis por, dse, sub chky, trc cht.

Dolo lm, crm to lgt bm, fn xln, sub-suc, p vis por, looks tite, trc vit cht, NS

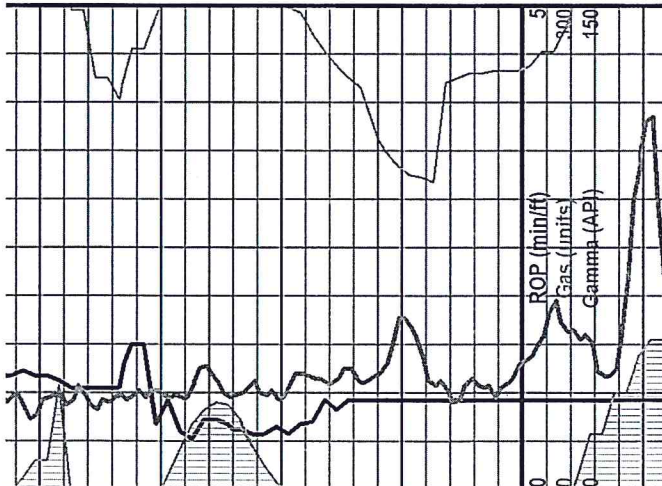
Lm, tan to md bm, fn to vy fine xln, p-no vis por, dse

4700

4750



4800



Simpson Sand 4812' (-3364)

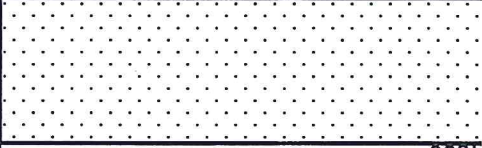
Shale, pale green, turq blue with fro wht sst clusters, no odor in fresh

mostly dead oil, no odor or fluor.

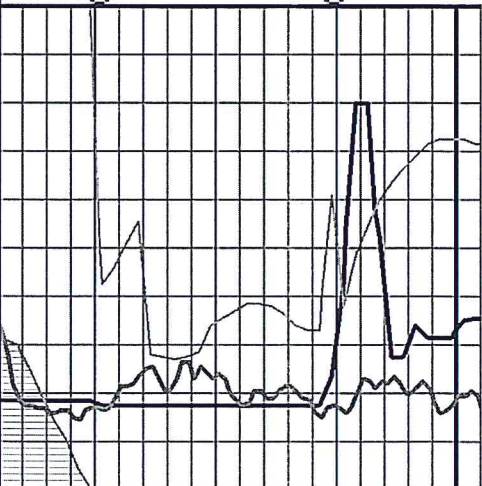
trace dead oil, very dull fluor. 60" spl. Inc in clusters, fn gmd, mod fri, rare show light brown fo

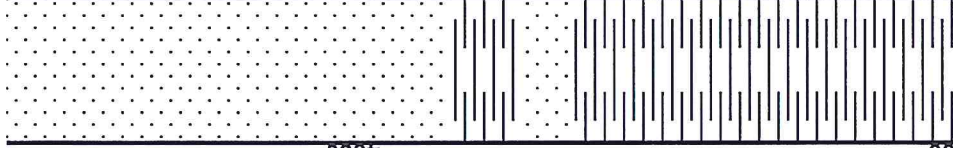
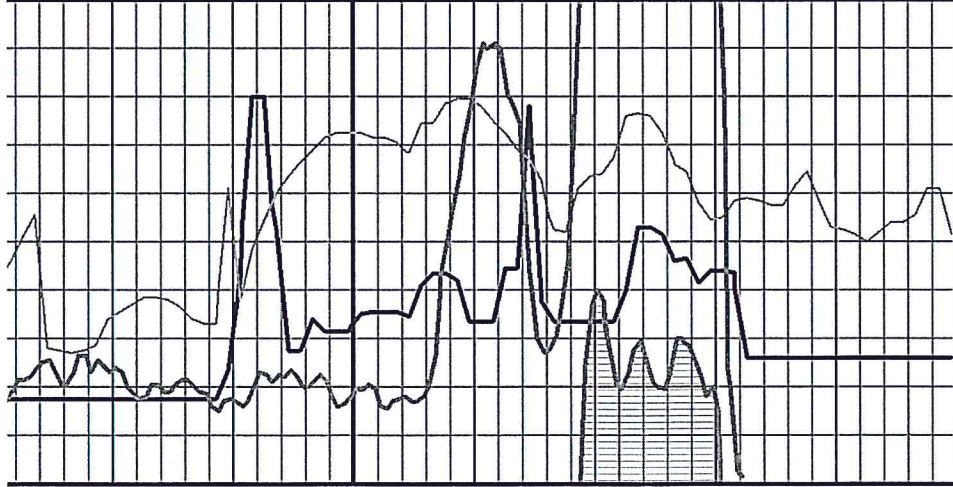
Sst, fro wht to lgt bm, fn gmd, sub md, mod friable Odor in fresh on break, show blk tany oil, no fluor. 60" Sample as above

Sst, clear to fro white, fn to med gmd, poorly sorted, dec in fri, some dead oil in spl tray, no odor or fluorescence



4850





trace dead oil, very dull fluor. 60" spl. Inc in clusters, fn gmd, mod fri, rare show light brown fo

Sst, fro wht to lgt bm, fn gmd, sub md, mod friable Odor in fresh on break, show blk tany oil, no fluor. 60" Sample as above

Sst, clear to fro white, fn to med gmd, poorly sorted, dec in fri, some dead oil in spl tray, no odor or fluorescence

Shly sst as above, no shows

Sh, multi colored with trc sst clusters, tite NS

* Couldnt get logging tools to bottom. TIH w/ bit to condition hole and logged next day.

RTD @ 4900'
10:30 AM
12/27/2018

LTD 4910'
8:00 AM
12/28/2018



Pratt Yard #1718
 PO Box 8613
 (620) 672-1201
 Pratt, KS 67124

Inv. # 92899095

Field Ticket **TMH 120**

Customer:	Griffin Management	Customer No:		Invoice No:	1718-17396A ZBZ
Address:	P.O. Box 347	AFE No.:		P.O. No.:	
City, State, Zip:	Pratt, Kansas	Job Type:	12 tank slick water	Stage #:	1
Service District:	Pratt, Kansas 67124	Well Type:	Oil		38749 9 hrs
Well Name and No:	Mildred 1	County/Parish:	Barber	State:	Kansas

Product Code	Invoice Code	Description	Unit of Measure	Quantity	List Price/Unit	Item Discount	Gross Amount	Net Amount
Products								
PB3050	0	30-50 Mesh Brown	Cwt	618.00	\$45.00	76.00%	\$27,810.00	\$6,674.40
PB1630	0	16-30 Mesh Brown	Cwt	303.00	\$50.00	76.00%	\$15,150.00	\$3,636.00
PRC1630	0	Resin Coated, 16/30 mesh	Cwt	75.00	\$142.00	76.00%	\$10,650.00	\$2,556.00
FR102	0	BES: C-Plexslick 957	Gal	153.00	\$30.00	76.00%	\$4,590.00	\$1,101.60
SF104	0	BES: C-Plexsurf 580 ME	Gal	52.00	\$62.00	76.00%	\$3,224.00	\$773.76
BK103	0	BES: C-Plexgel Breaker XPA	Gal	108.00	\$20.00	76.00%	\$2,160.00	\$518.40
KCL114	0	BES: C-Clayplex 650	Gal	22.00	\$60.00	76.00%	\$1,320.00	\$316.80
BIO102	0	BES: C-Plexcide P5	Gal	45.00	\$28.00	76.00%	\$1,260.00	\$302.40
Equipment and Services								
ME102	0	Heavy Equipment Mileage	Mi	315.00	\$8.00	76.00%	\$2,520.00	\$604.80
ME101	0	Light Vehicle Mileage	Mi	70.00	\$5.00	76.00%	\$350.00	\$84.00
DC104	0	Proppant and Bulk Delivery Charges	Tn/Mi	1,803.00	\$3.00	76.00%	\$5,409.00	\$1,298.16
BE100	0	Pump Truck	hr	6.00	\$10,000.00	76.00%	\$60,000.00	\$14,400.00
BE105	0	Blender	hr	1.50	\$2,000.00	76.00%	\$3,000.00	\$720.00
BE125	0	Densimeter	hr	1.50	\$200.00	76.00%	\$300.00	\$72.00
BE119	0	Computerized Liquid Chemical Additive Unit	hr	1.50	\$200.00	76.00%	\$300.00	\$72.00
ME134	0	Generic Proppant Pump Charge	Cwt	1,030.00	\$4.00	76.00%	\$4,120.00	\$988.80
BE111	0	Sand Field Storage Unit	hr	1.50	\$200.00	76.00%	\$300.00	\$72.00
ME106	0	Rental: 4" Frac Valve	Job	1.00	\$500.00	76.00%	\$500.00	\$120.00
BE132	0	Treatment Van, (Computerized Data monitor	hr	1.50	\$200.00	76.00%	\$300.00	\$72.00
BE129	0	Service Supervisor	hr	1.50	\$100.00	76.00%	\$150.00	\$36.00
BE113	0	Iron Truck	hr	1.50	\$200.00	76.00%	\$300.00	\$72.00
BE121	0	Manifold Trailer	hr	1.50	\$500.00	76.00%	\$750.00	\$180.00
ME113	0	Rental: Suction Manifold	Ea	12.00	\$250.00	76.00%	\$3,000.00	\$720.00
TERMS: Cash in advance unless Basic Energy Services has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts may pay interest on the balance past due at the rate of 1 1/4% per month or the maximum allowable by applicable state or federal laws if such laws limit interest to a lesser amount. In the event it is necessary to employ an agency and/or attorney to affect the collection of said account, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with BES becomes delinquent, BES has the right to revoke any and all discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount will become immediately due and owing and subject to collection.							Gross Amount	\$147,463.00
SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH TERMS AND CONDITIONS (INCLUDING INDEMNIFICATION OBLIGATIONS) LISTED HERE OR IN THE CUSTOMER CONTRACT FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.							Net Amount	\$35,391.12
Customer Comments or Concerns: <i>[Signatures]</i>							Customer Representative:	Andy Musgrove
							Basic Representative:	M.L. McGuire
							Date of Service:	January 28, 2019

All applicable Federal, State and Local Taxes will be added to final invoice.

Basic Energy Services appreciates any Comments, Concerns or Criticism's from our valuable customers as Safety and Customer Satisfaction are our Number 1 goal.

All comments are confidential and will be used in a constructive manner to improve our Safety and Job Performance. We welcome them as a useful tool to improve our service.



Treatment Report

Customer:	Griffin Management	District:	Pratt, Kansas	Job #	1718-17396A ZBZ
Date:	1/28/2019	API #		Formation	Mississippi
Lease/Well Name:	Mildred 1	Well Type:	Oil	Field	
County, State:	Barber, Kansas	Job Type:	12 Tank Slickwater	Stage #	1

Well Data			Set From	Set To	Capacities		Totals		
Casing Size	5.50" 15.50#	BBL/FT	0.0238	0 ft	3,740 ft	Casing bbls	106 bbls	Clean	5,112 bbls
Casing Size		BBL/FT				Tubing bbls		Slurry	5,211 bbls
Tubing Size		BBL/FT				Flush Volume gals	5,964 gals	Proppant	95,445 lbs
Tubing Size		BBL/FT				Flush Volume bbls	142 bbls		
# of Perfs:	36	Perf Size:	0.42 in	Interval @	4,438 ft	4,450 ft			

Job Details					
Stage Name	Slurry BBLs	Stage Name	Slurry BBLs	Proppant	Total
				start .1	0 lbs
				on bottom	0 lbs
				start .2	0 lbs
				start .3	0 lbs
				start .4	0 lbs

ISIP	864	Min	Max	Average	Pumps on Location	5	Time	
5 Min		Treating Pressure	1,505 psi		Fluid Ends Lost	0		
10 Min		Treating Rate	60 psi	60 psi	Basic Energy Service Rep:	M.L. McGuire		
15 Min		Frac Gradient	0.66 psi/ft		Customer Rep:	Andy Musgrove		

Treatment Data

Time (Military)	STP	Rate	Clean BBLs		Slurry BBLs		Proppant lbs		Stage Name	Proppant	PPG
			Stage	Total	Stage	Total	Stage	Total			
11:35									Safety Meeting		
11:46	3,900 psi								Test Lines		
11:53		60.3				87			start pad/ loaded		
12:23	1,480 psi	60.3				1,048			start .1		
12:24	1,459 psi	60.3				1,155			on bottom		
12:27	1,447 psi	60.3				1,335			start .2		
12:30	1,482 psi	60.3				1,442			on bottom		
12:33	1,488 psi	60.3				1,671			start .3		
12:35	1,486 psi	60.3				1,778			on bottom		
12:39	1,476 psi	60.3				2,009			start .4		
12:41	1,464 psi	59.7				2,116			on bottom		
12:47	1,447 psi	62.7				2,494			start .5		
12:49	1,505 psi	62.7				2,601			on bottom		
12:54	1,499 psi	59.8				2,981			start .6		
12:57	1,435 psi	59.7				3,088			on bottom		
13:03	1,424 psi	59.7				3,470			start .7		
13:05	1,412 psi	59.7				3,577			on bottom		
13:10	1,400 psi	59.7				3,912			start .8		
13:12	1,383 psi	59.7				4,019			on bottom		
13:16	1,377 psi	59.7				4,256			start .9 16/30		
13:18	1,353 psi	59.7				4,363			on bottom		
13:23	1,324 psi	59.7				4,677			start 1 # 16/30		
13:25	1,301 psi	59.7				4,784			on bottom		
13:28	1,284 psi	59.7				4,890			start 16/30 resin coat		
13:29	1,271 psi	59.7				4,997			on bottom		
13:30	1,202 psi	59.7				5,069			start flush		
13:34	864 psi	0.0				5,211			shut down		

Griffin Management
Mildred # 1 - Mississippi - Slickwater

