

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 <table style="width:100%; border: none;"> <tr> <td style="width:60%; border: none;">Name</td> <td style="width:20%; border: none;">Top</td> <td style="width:20%; border: none;">Datum</td> </tr> </table>	Name	Top	Datum
Name	Top	Datum		

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	M & M Exploration, Inc.
Well Name	GUTHRIE FARMS 1
Doc ID	1487792

All Electric Logs Run

Dual Induction
Density Neutron
Sonic Log
Micro Log

Customer <i>M/M Exploration</i>		Lease No.		Date <i>10-15-2019</i>	
Lease <i>Guthrie Farms</i>		Well # <i>1</i>			
Field Order #	Station <i>Pratt 8 #1718</i>	Casing <i>2 7/8</i>	Depth <i>237 w/ht</i>	County <i>Harvey</i>	State <i>KS</i>
Type Job <i>50064</i>	Formation		Legal Description <i>7-25-28</i>		

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>2 7/8</i>	<i>2 1/2</i>			Pre Pad	Max		5 Min.
Depth	Depth	From	To	Pad	Min		10 Min.
<i>227</i>	<i>13.15</i>			Frac	Avg		15 Min.
Volume	Volume	From	To		HHP Used		Annulus Pressure
<i>150</i>	<i>150</i>			Flush	Gas Volume		Total Load
Max Press	Max Press	From	To				
<i>150</i>	<i>150</i>						
Well Connection	Annulus Vol.	From	To				
Plug Depth	Packer Depth	From	To				

Customer Representative <i>Diaz</i>		Station Manager <i>Justin Westerman</i>		Treater <i>Paul Balding</i>	
Service Units <i>7463</i>					
Driver Names <i>Ronb Tose Diaz</i>					

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
					<i>Rig up</i>
					<i>Run 8 7/8 casing</i>
					<i>Break circulation w/ Pig</i>
					<i>Rig up to cement</i>
<i>2:30 P</i>	<i>100</i>		<i>3</i>	<i>3</i>	<i>Start Freshwater</i>
	<i>150</i>		<i>35 1/2</i>	<i>5</i>	<i>start 165 ex 10:40: + Additives</i>
	<i>100</i>		<i>13.18</i>	<i>3</i>	<i>Displace with B.15 Bbls water</i>
<i>3:10 P</i>	<i>100</i>				<i>legage 20' cement in pipe</i>
					<i>Shot in</i>
					<i>Cement did circulate</i>



BASICSM
ENERGY SERVICES

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

PRESSURE PUMPING & WIRELINE

FIELD SERVICE TICKET

1718 18488 A

DATE _____ TICKET NO. 18488

DATE OF JOB <u>10-30-19</u>	DISTRICT <u>Pratt, KS 1718</u>	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER <u>M+M Exploration</u>	LEASE <u>Gothic Farms</u>						WELL NO. <u>1</u>		
ADDRESS	COUNTY <u>Harvey</u>	STATE <u>Kansas</u>							
CITY	STATE	SERVICE CREW <u>Carl B Eddie M</u>							
AUTHORIZED BY <u>Alan Viatil</u>	JOB TYPE: <u>5 1/2 Production</u>						<u>2-42</u>		
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>89980-20920</u>	<u>.50</u>					<u>10-30-19</u>	<u>4:00</u>	PM	
<u>70959-19860</u>	<u>.25</u>					ARRIVED AT JOB		AM	<u>6:00</u>
						START OPERATION		AM	<u>11:45</u>
						FINISH OPERATION		AM	<u>12:15</u>
						RELEASED		AM	<u>1:00</u>
						MILES FROM STATION TO WELL			<u>90</u>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
BC 145	AA2 Premium Cement	SX	125		2375
BC 132	60:40:Po2	SX	30		810
CC 102	celloflake	lb	32		128
CC 105	C-41P	lb	59		236
CC 111	salt	lb	683		341
CC 113	Gypsum	lb	590		590
CC 187	C-17	lb	48		1152
CC 201	Gilsonite	lb	752		752
CC 200	Cement Gel	lb	52		26
KCL 102	Clamax	Gal	4		124
ME 101	light vehicle mileage	Mi	90		450
ME 102	Heavy Equipment Mileage	Mi	180		1440
CE 504	Plug Container utilization charge	ea	1		250
CC 4	Depth Charge 3001-4000	HR	1		2200
CE 210	Blending + mixing charge	SX	155		217
CF 1251	Auto fill float shoe	ea	1		360
CF 607	Latch Down Plug + Baffle	ea	1		400
CF 1901	5 1/2 Basket	ea	1		290
CF 1051	5 1/2 Turbolizers	ea	8		880
(BC 145) (BC 144)	service supervisor / Driver change	ea	1		75
		ea	3		105
SUB TOTAL					13,201
CHEMICAL / ACID DATA:					
SERVICE & EQUIPMENT					%TAX ON \$
MATERIALS					%TAX ON \$
TOTAL					8123

SERVICE REPRESENTATIVE Carl Baldinger

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer <i>M + M Exploration</i>	Lease No.	Date <i>10-30-2019</i>	
Lease <i>Bohrer Farms</i>	Well # <i>1</i>		
Field Order #	Station <i>Pratt, KS #1718</i>	Casing <i>5 1/2</i>	Depth <i>3200</i>
Type Job <i>Production</i>	Formation	County <i>Harvey</i>	State <i>KS</i>
		Legal Description <i>4-225-2E</i>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <i>5 1/2</i>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>3270</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>77 1/4</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>1500</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>4 1/2</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <i>3258</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative <i>Alan Votic</i>	Station Manager <i>Justin Westerman</i>	Treater <i>PAUL BALDING</i>
Service Units <i>84950, 20920, 70959, 19860</i>		
Driver Names <i>Edic M. Jose</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>6:00 PM</i>					<i>on location + Rig on site JSA</i>
					<i>Ran 3270' 5 1/2 casing break circulation w/ rig</i>
					<i>Drop ball for float shoe circulate for 30 minutes</i>
					<i>Rig up to cement</i>
<i>11:45 PM</i>	<i>100</i>		<i>8.75</i>	<i>4</i>	<i>Pump 25.5K AA-2 sludgex</i>
	<i>150</i>		<i>27.42</i>	<i>4</i>	<i>Pump 100.5K AA-2 mixed (14.8) (PP6)</i>
<i>11:55 PM</i>					<i>Cement in stop pumps, wash pump + hives to pit</i>
					<i>Release plug</i>
<i>12:00 AM</i>	<i>50</i>			<i>5</i>	<i>start 2% KeL Displacement</i>
	<i>50</i>			<i>5</i>	<i>Steady Rate</i>
	<i>175</i>		<i>54 out</i>	<i>4.5</i>	<i>See Kift pressure stable out</i>
	<i>350</i>		<i>60 out</i>	<i>4.</i>	<i>slow Rate 60 Bbls out</i>
	<i>500</i>		<i>70 out</i>	<i>3.5</i>	<i>slow Rate 70 Bbls out</i>
	<i>1500</i>		<i>77 1/4 out</i>	<i>3.0</i>	<i>Brine Plug 77 1/4 Bbls out</i>
					<i>Release pressure (4) float HHP</i>



Company: M & M Exploration, Inc

Lease: Guthrie Farms #1

SEC: 9 TWN: 22S RNG: 2E
 County: HARVEY
 State: Kansas
 Drilling Contractor: Lighthouse Drilling LLC Rig #1
 Elevation: 1474 GL
 Field Name: NA
 Pool: WILDCAT
 Job Number: 411
 API #: 15-079-20719-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
29
 2019

DST #1 **Formation: Hunton** **Test Interval: 3108 - 3136'** **Total Depth: 3136'**
 Time On: 08:24 10/29 Time Off: 17:05 10/29
 Time On Bottom: 11:03 10/29 Time Off Bottom: 14:03 10/29

Electronic Volume Estimate:
 359'

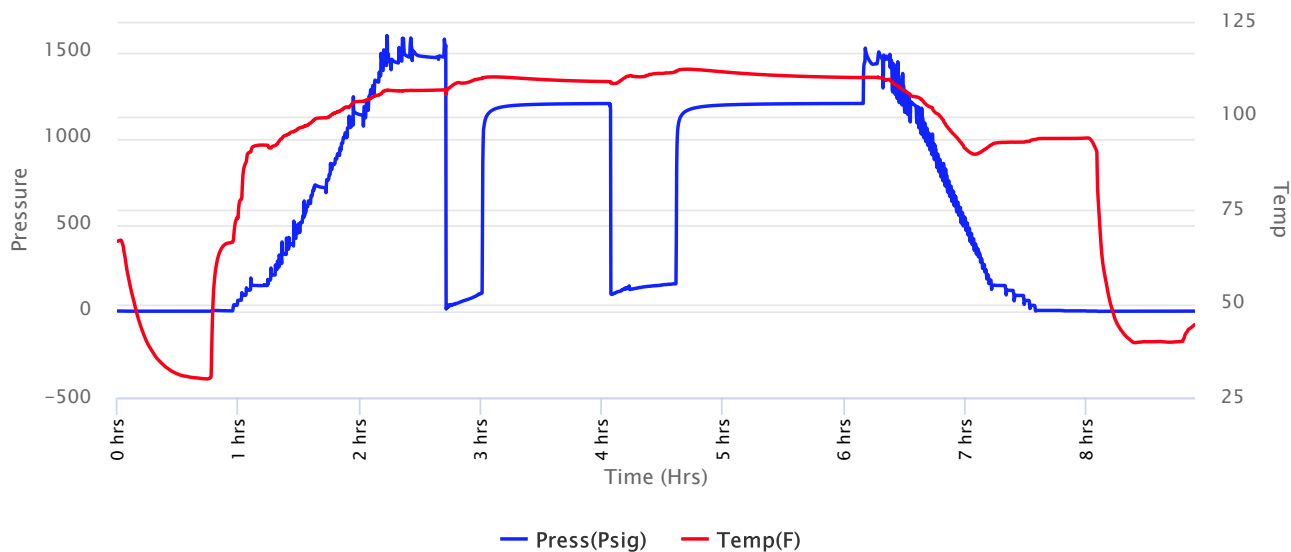
1st Open
 Minutes: 15
 Current Reading:
 8.2" at 15 min
 Max Reading: 8.2"

1st Close
 Minutes: 60
 Current Reading:
 0" at 60 min
 Max Reading: .1"

2nd Open
 Minutes: 30
 Current Reading:
 13" at 30 min
 Max Reading: 13"

2nd Close
 Minutes: 90
 Current Reading:
 0" at 90 min
 Max Reading: 0"

Inside Recorder





Company: M & M Exploration, Inc

Lease: Guthrie Farms #1

SEC: 9 TWN: 22S RNG: 2E
 County: HARVEY
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Recovered

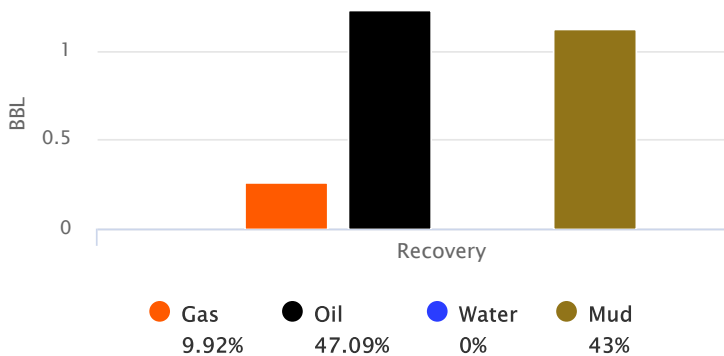
Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
20	0.2846	O	0	100	0	0
180	1.4253938	SLGCMCO	15	65	0	20
183	0.90036	SLOCSLGHOSM	5	2	0	93

Total Recovered: 383 ft
 Total Barrels Recovered: 2.6103538

Reversed Out
 NO

Initial Hydrostatic Pressure	1471	PSI
Initial Flow	13 to 107	PSI
Initial Closed in Pressure	1202	PSI
Final Flow Pressure	98 to 159	PSI
Final Closed in Pressure	1202	PSI
Final Hydrostatic Pressure	1473	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 1.45318



Company: M & M Exploration, Inc

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Job Number: 411
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Operation:
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DATE
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29
2019

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BUCKET MEASUREMENT:

1st Open: 1/4" Blow. Built to 8 1/4 inch in 15 mins
1st Close: Weak Blow Back
2nd Open: 1/4" Blow. BOB in 27 mins
2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 2% Oil 0% Water 98% Mud
Gravity: 23.4 @ 60 °F



Company: M & M Exploration, Inc

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Elevation: 1474 GL
Field Name: NA
Pool: WILDCAT
Job Number: 411
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Operation:
Uploading recovery & pressures

DATE
October
29
2019

DST #1 Formation: Hunton Test Interval: 3108 - 3136' Total Depth: 3136'
Time On: 08:24 10/29 Time Off: 17:05 10/29
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Down Hole Makeup

Heads Up: 33.7 FT	Packer 1: 3102.5 FT
Drill Pipe: 2811.02 FT <i>ID-3 1/2</i>	Packer 2: 3108 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3094.5 FT
Collars: 305.02 FT <i>ID-2 1/4</i>	Bottom Recorder: 3110 FT
Test Tool: 26.66 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 28	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 27 FT <i>4 1/2-FH</i>	



Company: M & M Exploration, Inc

SEC: 9 TWN: 22S RNG: 2E
County: HARVEY
State: Kansas
Drilling Contractor: Lighthouse Drilling LLC Rig #1

Operation:
Uploading recovery &
pressures

Lease: Guthrie Farms #1

Elevation: 1474 GL
Field Name: NA
Pool: WILDCAT
Job Number: 411
API #: 15-079-20719-00-00

DATE
October
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2019

DST #1 **Formation: Hunton** **Test Interval: 3108 - 3136'** **Total Depth: 3136'**
Time On: 08:24 10/29 Time Off: 17:05 10/29
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Mud Properties

Mud Type: Chem **Weight:** 9.1 **Viscosity:** 60 **Filtrate:** 8 **Chlorides:** 1100 ppm



Company: M & M Exploration, Inc

SEC: 9 TWN: 22S RNG: 2E
County: HARVEY
State: Kansas
Drilling Contractor: Lighthouse Drilling
LLC Rig #1
Elevation: 1474 GL

Operation:
Uploading recovery &
pressures

Lease: Guthrie Farms #1

Field Name: NA
Pool: WILDCAT
Job Number: 411
API #: 15-079-20719-00-00

DATE
October
29
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Time On: 08:24 10/29 Time Off: 17:05 10/29
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Gas Volume Report

1st Open

Time	Orifice	PSI	MCF/D
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2nd Open

Time	Orifice	PSI	MCF/D
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Musgrove

PETROLEUM CORPORATION
Clafin, Kansas

NOTES

Company: M&M EXPLORATION, INC.

Lease: GUTHRIE FARMS #1

Field: N/A

Location: (1090' FNL & 330' FWL)

Sec: 9 Twsp: 22S Rge: 2E

County: HARVEY State: KS

KB: 1486' GL: 1474'

Contractor: LIGHT HOUSE DRILLING (RIG #1)

Spud: 10/15/2019 Comp: 10/30/2019

RTD: 3300' LTD: 3300'

Mud Up: 1800' Type Mud: Chemical

Samples Saved From: 1800' to RTD
 Drilling Time Kept From: 1800' to RTD
 Samples Examined From: 1800' to RTD
 Geological Supervision from: 2100' to RTD
 Geologist on Well: Wyatt Urban

Surface Casing: 8 5/8" @ 212'
 Production Casing: 5 1/2" @ 3298'

Electronic Surveys: Logged by ELI WIRELINE SERVICES, ,DIL/BHCS, CNL/CDL+ PE, MEL



Musgrove

Petroleum Geology
212 Main Street, Clafin KS

DRILLING				DRY				DRY				DRY				
M&M EXPLORATION				RITCHIE - CLINTON MADEIRA				AINSWORTH				FLOWERS PRODUCTION CO.				
GUTHRIE FARMS # 2				Guthrie# A1				GUTHRIE #2				EVELYN V. SMITH				
9-22S-2E				9-22s-2E				9-22-2E				15-22S-2E				
KB	1486	GL	1474	KB	1465			KB	1504			DF	1460			
LOG	SAMPLE			LOG	LOG	SMPL.	LOG ADJ.	LOG	SMPL.	LOG	LOG	LOG	SMPL.			
FORMATION	DEPTH	S.S	DEPTH	S.S	DEPTH	S.S	DEPTH	CORR.	DEPTH	S.S	CORR.	CORR.	DEPTH	S.S	CORR.	CORR.
LANSING	2156	-670	2158	-672	2148	-683	+ 13	+ 11	2186	-682	+ 12	+ 10	2132	-672	+ 2	+ 0
KANSAS CITY	2385	-899	2390	-904	2382	-917	+ 18	+ 13								
BKC	2547	-1061	2550	-1064	2537	-1072	+ 11	+ 8	2578	-1074	+ 13	+ 10	2512	-1052	- 9	- 12
MARMATON	2587	-1101	2587	-1101	2578	-1113	+ 12	+ 12								
CHEROKEE SH.	2750	-1264	2757	-1271	2748	-1283	+ 19	+ 12					2731	-1271	+ 7	+ 0
MISSISSIPPI	2804	-1318	2824	-1338	2796	-1331	+ 13	- 7	2873	-1369	+ 51	+ 31	2798	-1338	+ 20	+ 0
KINDERHOOK	3014	-1528	3008	-1522	2997	-1532	+ 4	+ 10	3043	-1539	+ 11	+ 17	2963	-1503	- 25	- 19
HUNTON	3131	-1645	3129	-1643	3116	-1651	+ 6	+ 8	3162	-1658	+ 13	+ 15	3082	-1622	- 23	- 21
VIOLA	3200	-1714	3198	-1712												
SIMPSON SAND	3258	-1772	3258	-1772												
RTD	3300	-1814	3300	-1814					3164	-1660	- 154	- 154	3159	-1699	- 115	- 115
LTD	3300	-1814	3300	-1814												

ROCK TYPES

	Cht vari		Dolsec		Lmst fw7>		Carbon Sh		Ss
	Chtcongl		sdy lmst		shale, grn		shale, red		
	Dolprim		Lmst fw<7		shale, gry		Shcol		

ACCESSORIES

STRINGER

Limestone

OTHER SYMBOLS

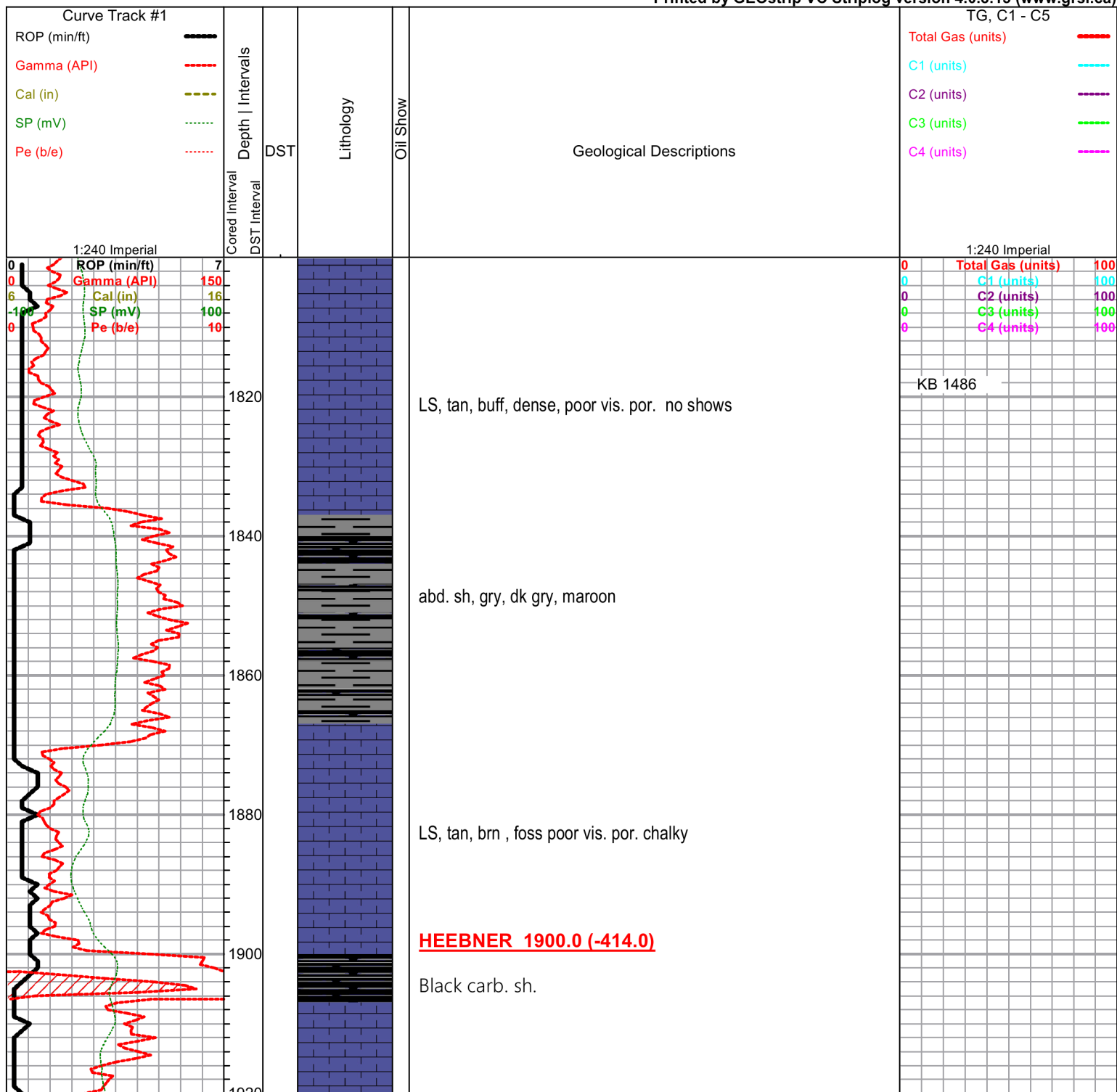
Oil Show

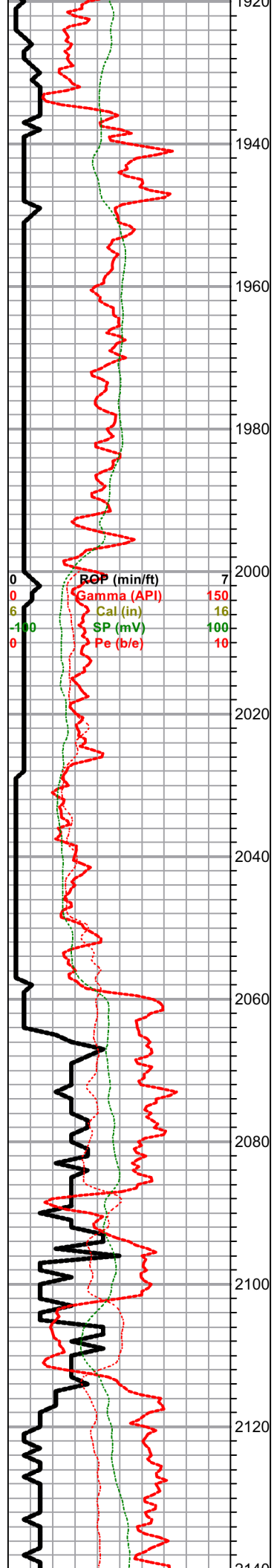
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Strn
- D Dead Oil Stn
- Fluorescence
- * Gas

DST

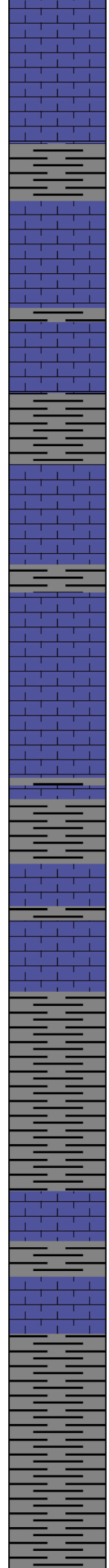
- DST Int
- DST alt
- Core
- tail pipe

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





0 ROP (min/ft) 7
 0 Gamma (API) 150
 6 Cal (in) 16
 -100 SP (mV) 100
 0 Pe (b/e) 10



Abd. black sh.
 LS, cream, white, chalky, no shows

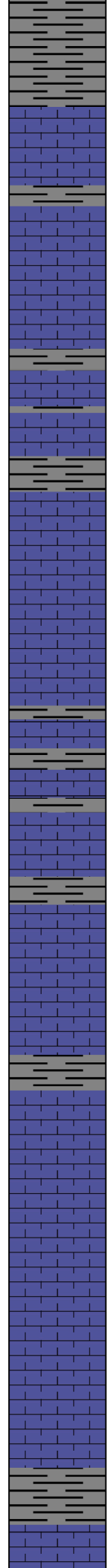
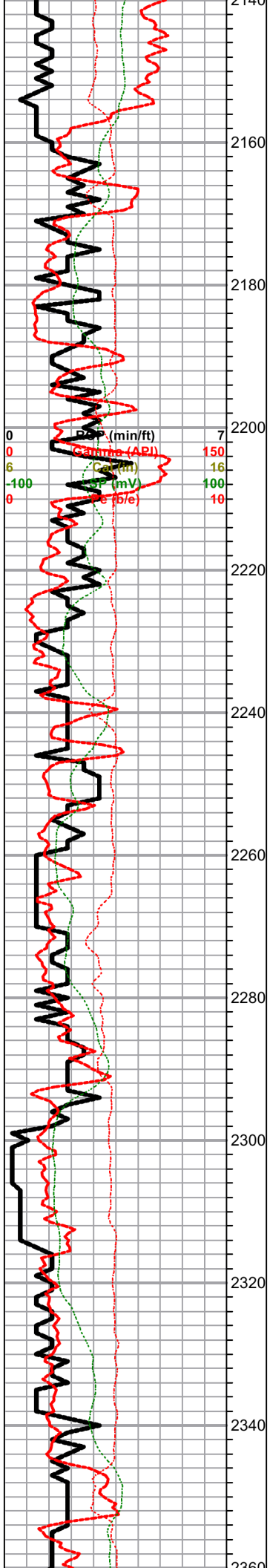
Sh, a/a

Sh, gry, blk dk gry

Sh, a/a, dk gry, silty mca

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

START OF 10' SAMPLES



LANSING 2158.0 (-672.0)

LS, tan, buff, fxl dense

LS, tan, crm, dense, poor scattered por. dk blk stain nsfo

LS, white, foss, ool, poorly dev. vuggy por. chalky,

LS, tan, foss, poor porosity, p.p. --> vuggy por., chalky, tr. blk sh. stain (discoloration) , no odor

LS, ool, poor developed chalky, tr. blk carb sh.

LS, tan, buff, fxl, sl. chalky, nsfo, no odor

Slug gry sh.

LS, gry , foss, poor porosity, chalky, no shows

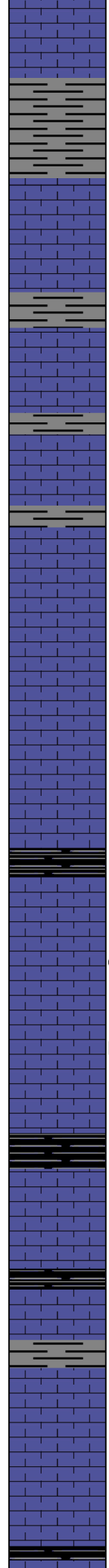
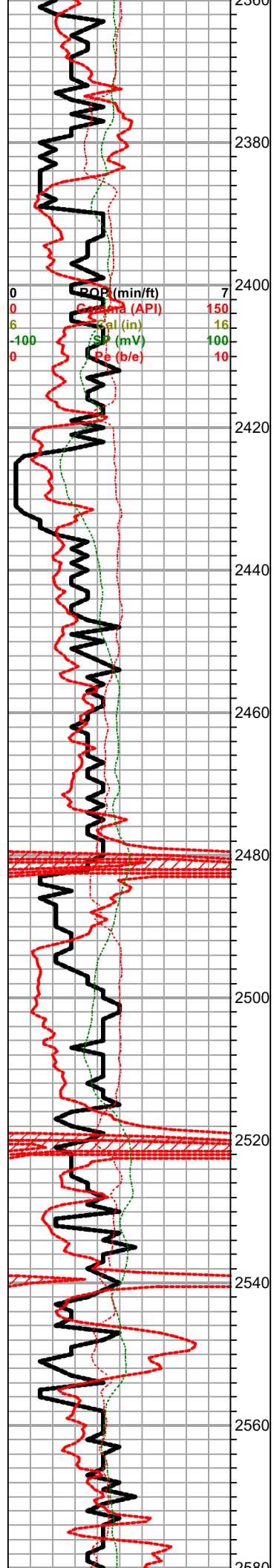
LS, tan, ool, foss, poorly developed oom porosity, chalky, nsfo, no odor

LS, white, foss, poor vis. porosity, sl. chalky, no shows dense, no shows

LS, tan, brn, fxl, dense, poor vis. porosity, no sfo, sparry calcite cement few dense, cherty, no shows

Slug dk gry , gry silty sh.

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



LS, tan, buff, foss, few vuggy porosity, chalky, tr. blk stain, (discoloration???) , nsfo, no odor

Sh, gry

LS, tan, brn, dense, few foss, scattered p.p. porosity, sl. chalky, no shows
KC 2390.0 (-904.0)

LS, tan, crm, dense, poor vis. porosity,

LS, tan, crm, oom, good vuggy porosity, chalky, barren,

LS, tan, foss, poorly developed, por. no shows

Sh, black carb

LS, white, fxl, scattered p.p. por., sl. dol in pts, tr. brn stain , nsfo, ??? odor in samples

Tr. LS, a/a, tr. blk flky stain , nsfo, no odor

Sh, black carb

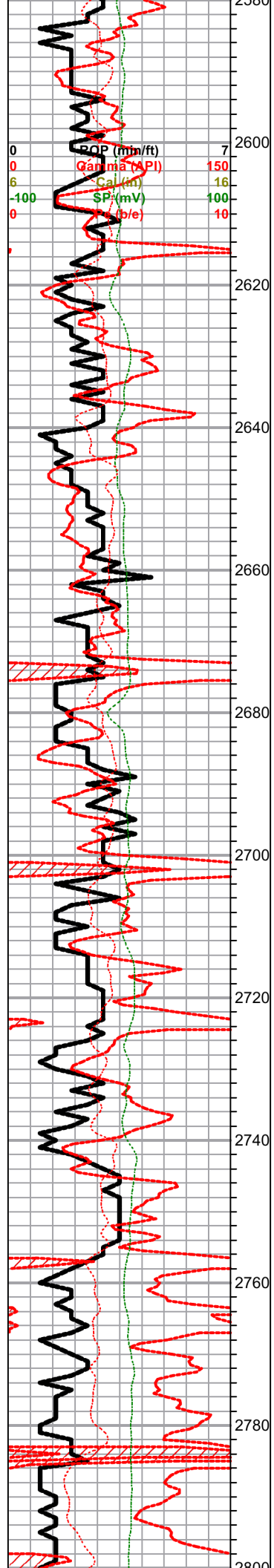
LS, gry, dense, abd. dk. gry sh in samples

Sh, black carb

LS, tan, buff, ool, scattered vuggy oom porosity, sl. chalky, nsfo no odor

Slug black carb sh .

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



MARM 2587.0 (-1101.0)

LS, tan, suc./ dol., fari inxln por. tr. (v. wk) lt. brn sptty sfo, no odor , no stain

Slug aqua green sh

LS, tan, buff, gry, sdy, poor vis. porosity, dense

Sh, black carb

Tr. sd. white, gry, f- med grain , well sorted, sub rounded, nsfo

Sh. dk brn/ blk

LS, buff, gry, oom, good vuggy porosity, sl. chalky, nsfo

LS, tan, fxl, dense, poor vis. porosity, chalky in pts.

Sh, black carb

LS, tan, buff, tr. pyrite , no shows

slug black carb sh .

LS, brn tan, fxl, gran. dense, no shows

slug black carb sh.

Tr. gry, LS, dense, no shows

Abd. dark brn, gry sh.

LS, tan, buff dense, poor vis. porosity, no sfo

Abd. sh, dk gry, blue / green sh.

CHEROKEE 2757.0 (-1271.0)

Sh, black carb

Sh,V.C. yellow, dk gry, waxey few silty, tr. tan, v. c. cherts,

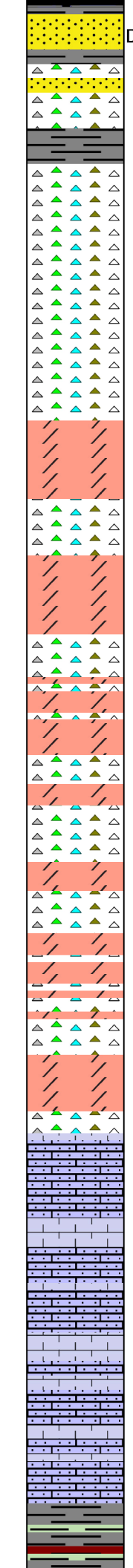
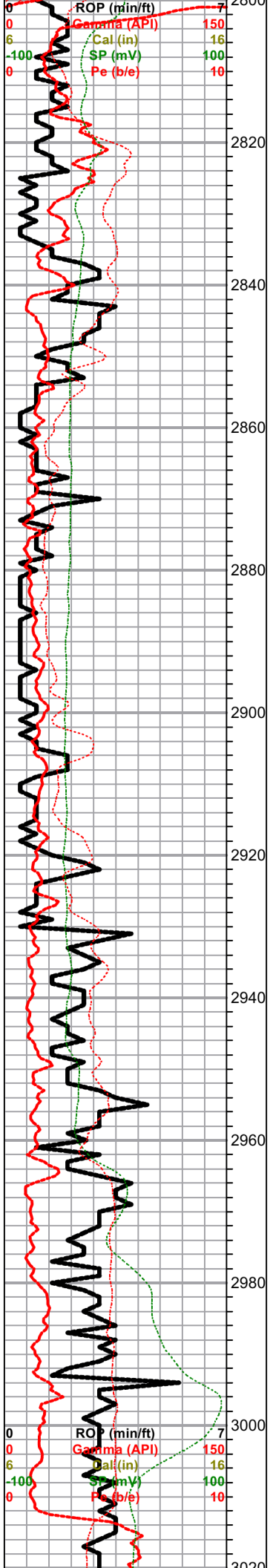
Sh. a/a, tr. v.c cherts sh, a/a

Sh, black carb

BURGESS SD. 2792.0 (-1306.0)

V.C. Sh maroon, aqua green tr. sd. med grain, poorly sorted, angular . tr. tan, cherts, tr. org.

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



Tr. Sh, dk gry, silty, tr. sd. white, coars grain , sub angular, poorly sorted qtz, tr. med grain sand., white, f-med grain , tr. blk fakes (dead in app.) nsfo, no odor

MISS. 2824.0 (-1338.0)

V.C. cherts, white, opaque , red, orange, tripolitic, vuggy por. nsfo, no odor

Chert, white, yellow, tan, vuggy no shows

V. C. chert, white, boney, trip oolitic, tr. white, sandy, dol. nosfo , no odor

Cherts, a/a , (abd. slug aqua green sh??)

Dense, tripolitic. white cherts, scattered vuggy porosity, no shows . Tr. LS. tan, white, chalky, no shows

V.C. cherts, yellow, boney , tan , smokey gry, tr. LS, dol. cream, tan, chert

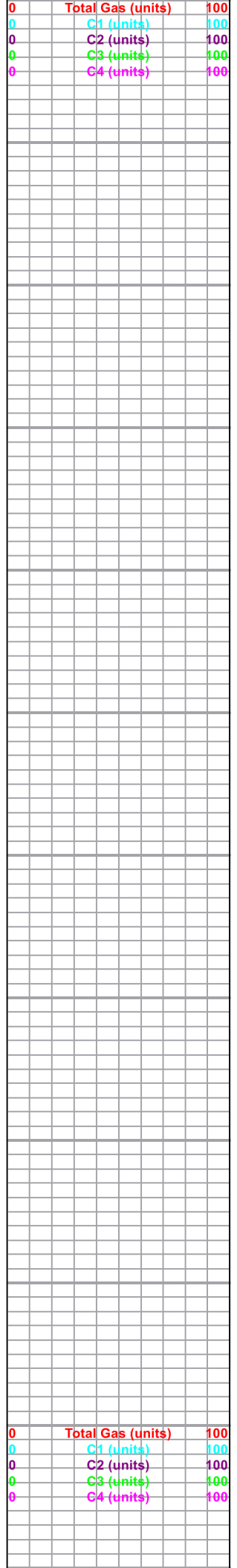
Cherts, a/a, (abd. gry, sh, green , silty, waxey), tr. LS, tan, buff, dolomitic.

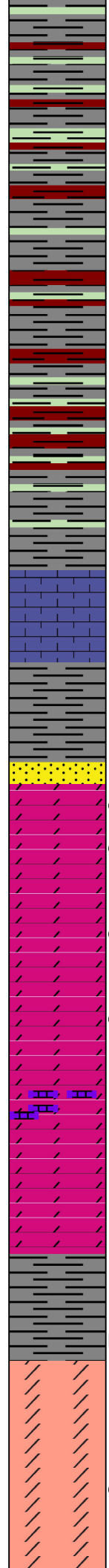
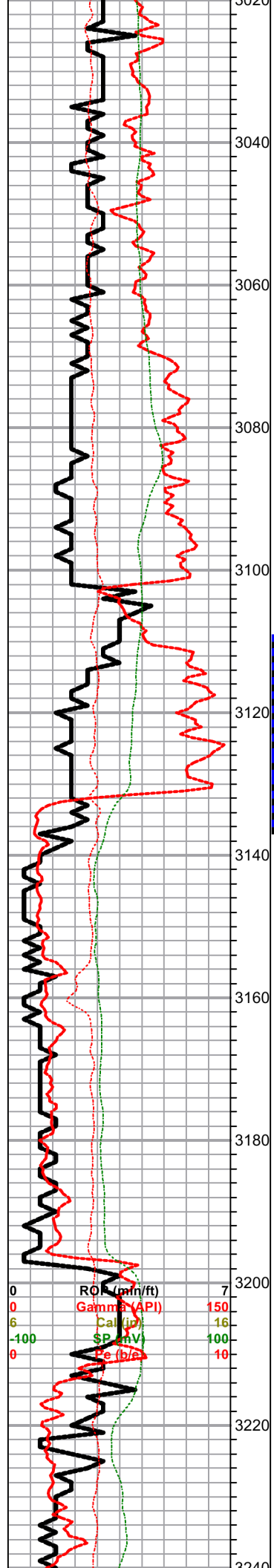
V.C. cherts, tr. LS, white, tan, foss, ool, dolomitic. poorly developed porosity, chalky, dense.

A/A , tr. LS, tan, buff, dol., scattered p.p. porosity, nsfo, no odor

KINDERHOOK 3008.0 (-2997.0)

Sh. maroon, purple, few cl. dol. tr. pyrite





Sh, maroon, purple, few sl. dol. tr. pyrite

Sh, gry, green, waxey, few dolomitic

Sh, a/a tr. opaque chert

Sh, gry, dk gry, waxey, few banded,

Sh, gry,

Tr. LS, white, dol. poor vis. porosity, chalky

Sh, a/a,
tr. sd. clr, ang. poorly sorted, no shows, no odor

HUNTON 3131.0 (-1645.0)

Dol. tan, dense, poor vis. porosity, tr. spty sfo, odor

Dol, white, f- med xln, fair, porosity, dk brn stain, sfo, strong odor

Dol, white, f- med xln, fair inxln por. tr. brn stain, sfo, good flor. cut, strong odor

Dol, white, med xln--> coarse, dense, poor inxln porosity, tr. brn stain, nsfo, tr. flur. cut., odor

Tr. LS, tan, buff, cherty, tr. chert, white, boney

Dol., tan, buff, dense scattered vuggy porosity, sl. chalky, sfo/sat., faint odor, Abd. dk gry, sh in sampes.

Sh, green gry, silty waxey
Tr. sd. clr., med grain, sub rounded, blk stain nsfo, no odor

VIOLA 3208.0 (-1722.0)

Dol, coarse grain dense, poor inxln porosity, inc. pyrite. tr. glauc. in few

Dol., sdy. brn, tan, poorly developed, mica, ?? nsfo, no odor, tr. brn stain

SIMPSON 3245.0 (-1759.0)

WIPER TRIP @ 3087'

DST#1 3108-3136

1st Open: 1/4" blow building to 8.25"

1st Close: weak blow

2nd Open: 1/4" blow building to BOB in 27 mins.

2nd Close: no return

Recovery: 20' Clean Oil

180' SLGCMCO (15%G, 65%O, 20%M)

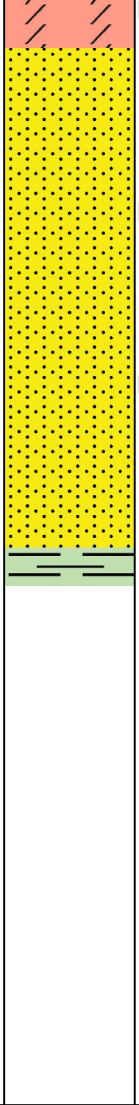
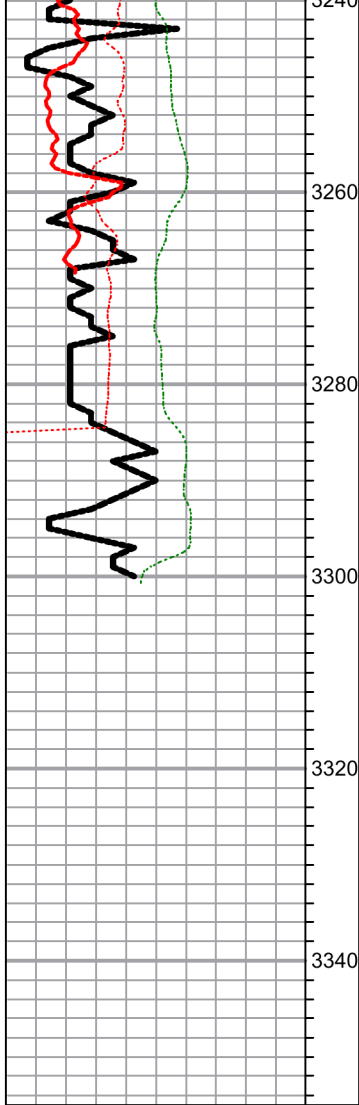
183' G&OCM (5%G, 2%O, 93%M)

TOTAL REC. 383'

Pressures:
ISIP 1202 psi
FSIP 1202 psi
IFP 13-107 psi
FFP 98- 159 psi
HSH 1471-1473 psi

Temp: 113(F)
Gravity: 23.5 @ 60 (F)

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



3245.0 (-1755.0)

Sd, white, clr., med grain, well sorted, sub rounded, blk - redish flakey (dead) sfo, no odor, no flur.

Sd. a/a, tr.

D

Sd. tan, buff, med grain, dense, sub rounded poor vis. porosity, tr. blk flakes , nsfo ,no odor

D

Sd, white, clr. med grain, sub ang, well sorted, nsfo, black flakes (micaious??) in app. no odor, no flur.

Sd. a/a, tr. LS, dol., tan, brn, foss, dense, cherty, poor visl. porosity no shows, tr. aqua green sh.

RTD 3300.0 (-1814.0)

LTD 3300.0 (-1814.0)

3240

3260

3280

3300

3320

3340