

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

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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just

PAGE 1 of 1	CUST NO 1002800	YARD # 1718	INVOICE DATE 07/14/2018
INVOICE NUMBER 92756490			

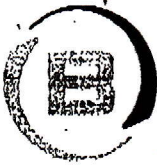
Pratt (620) 672-1201
 B M & M EXPLORATION INC
 I 4257 MAIN STREET SUITE 230
 L WESTMINSTER
 L CO US 80031
 T
 O ATTN: MIKE AUSTIN

J LEASE NAME Savage 1
 O LOCATION
 B COUNTY Marion *71730*
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41119723	20920		Net - 30 days	08/13/2018

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 07/13/2018 to 07/13/2018</i>				
0041119723				
171816989A Cement-New Well Casing/Pi 07/13/2018 Cement Surface				
60/40 POZ	175.00	EA	6.60	1,155.00 T
Celloflake	44.00	EA	2.04	89.54 T
Calcium Chloride	453.00	EA	0.58	261.61 T
"Unit Mileage Chg (PU, cars one way)"	75.00	MI	2.47	185.62
Heavy Equipment Mileage	150.00	MI	4.13	618.75
566---Propp & Bulk Del. Chgs per ton mil	1.00	EA	778.60	778.60
Blending & Mixing Service Charge	175.00	BAG	0.77	134.75
Depth Charge; 0-500'	1.00	EA	550.00	550.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	96.25	96.25

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,870.12
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	112.96
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,983.08
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

MH=28

FIELD SERVICE TICKET
1718 16989 A

DATE _____ TICKET NO. _____

DATE OF JOB 7-13-2018		DISTRICT		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 MEM EXPLORATION				LEASE SAVAGE				WELL NO. 1	
ADDRESS				COUNTY MARION		STATE Ks			
CITY				STATE		SERVICE CREW LESLEY, MARQUEZ, JOSE (R.H.)			
AUTHORIZED BY				JOB TYPE: 242 858" S.P.					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED		DATE	TIME
20920	.5					7-13-18 AM		10:00	
21010	.5					ARRIVED AT JOB		PM 2:30	
						START OPERATION		PM 3:00	
						FINISH OPERATION		PM 3:30	
						RELEASED		PM 4:00	
						MILES FROM STATION TO WELL			

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:
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 POZ	SK	175		2,100.00
CC 102	CELL FLAKE	lb	44		162.80
CC 109	CALCIUM CHLORIDE	lb	453		475.65
E 100	PICKUP MILEAGE	MI	75		337.50
E 101	HEAVY EQUIPMENT MILEAGE	MI	150		1,125.00
E 113	BULK DELIVERY	TM	5166		1,415.63
CE 200	DEPTH CHARGE, 0-500'	HR	1-4		1,000.00
CE 240	BLENDING & MIXING SERVICE	SK	175		245.00
S 003	SERVICE SUPERVISOR	EA	1		175.00

SUB TOTAL **7,036.58**

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL 3,870.12	

SERVICE REPRESENTATIVE 	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY
FIELD SERVICE ORDER NO.	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

50

BASIC

energy services, L.P.

TREATMENT REPORT

Customer M&M EXPLORATION	Lease No.	Date
Lease SAVAGE	Well # 1	7-13-2018
Field Order # 16989	Station PRATT, Ks.	Casing 8 5/8" Depth 2602' County MARION State KS
Type Job 8 5/8" S.P.	Formation	Legal Description 15-215-4E

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 8 5/8" x 23'	Tubing Size	Shots/Ft	CMT-	75 SK 60/40 P2	RATE	PRESS	ISIP
Depth 2602'	Depth	From	To	Pre Pad @ 1.21 CUMT	Max		5 Min.
Volume	Volume	From	To	Pad	Min		10 Min.
Max Press 500	Max Press	From	To	Frac	Avg		15 Min.
Well Connection S.V.	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 232'	Packer Depth	From	To	Flush 14.5 BBL	Gas Volume		Total Load

Customer Representative ALAN V.	Station Manager J.W.	Treater K. LESLEY
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Service Units	86531	78982	20980	19959	21010				
Driver Names	LESLEY	MARQUEZ	---	JOSE (R.H.)					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:30PM					ON LOCATION - SAFETY MEETING
2:50PM					CSG. ON BOTTOM/BREAKCRL. W/ RIG
3:15PM	75		38	4	MIX 175 SKS. 60/40 P2 @ 14.8 PPG
3:25PM	0		0	4	START DISPLACEMENT
3:27PM	50		7	4	LIFT PRESSURE
3:28PM	50		10	3	SLOW RATE
3:30PM	100		14.5	2	CMT @ DESIRED DEPTH
					CIRC. THRU JOB
					CIRC. 15 BBL TO PIT

JOB COMPLETE,
THANKS -
KEVEN LESLEY



JUST

PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1002800	1718	07/17/2018
INVOICE NUMBER			
92758107			

Pratt (620) 672-1201

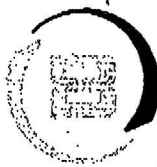
B M & M EXPLORATION INC
 I 4257 MAIN STREET SUITE 230
 L WESTMINSTER
 L CO US 80031
 T
 O ATTN: MIKE AUSTIN

J LEASE NAME Savage 1 *71730*
 O LOCATION
 B COUNTY Marion
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41120430	86779		Net - 30 days	08/16/2018

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 07/17/2018 to 07/17/2018</i>				
0041120430				
171817035A Cement-New Well Casing/Pi 07/17/2018 Cement/PTA				
60/40 POZ	85.00	EA	6.60	561.00 T
Cement Gel	148.00	EA	0.14	20.35 T
"Unit Mileage Chg (PU, cars one way)"	75.00	MI	2.47	185.62
Heavy Equipment Mileage	150.00	MI	4.13	618.75
278---Propp & Bulk Del Chgs per ton mil	1.00	EA	381.57	381.57
Depth Charge; 0-500'	1.00	EA	550.00	550.00
Blending & Mixing Service Charge	85.00	BAG	0.77	65.45
"Service Supervisor, first 8 hrs on loc.	1.00	EA	96.25	96.25

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	2,478.99
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	43.60
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	2,522.59
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

PL

TMA-26.5

FIELD SERVICE TICKET

0041120430
1718 17035 A

DATE _____ TICKET NO. _____

DATE OF JOB 7-17-18 DISTRICT Pratt/Kansas		NEW <input checked="" type="checkbox"/> WELL OLD <input type="checkbox"/> WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER M&M Exploration inc		LEASE Savage		WELL NO. 1					
ADDRESS		COUNTY Marion		STATE Kansas					
CITY STATE		SERVICE CREW Ferris Miller, Derrick							
AUTHORIZED BY		JOB TYPE PTA 2-42							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
66779	1						7-16-18	PM	1400
19660	1	2-				ARRIVED AT JOB		PM	2130
						START OPERATION		AM	2240
						FINISH OPERATION		PM	2330
						RELEASED	7-17-18	AM	0030
						MILES FROM STATION TO WELL			75

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
CP103	60/40 Poz	SK	65		1020 00
CC200	Cement Cret	lb	144		37 00
E100	Pickup mileage	Mi	75		337 50
E107	Heavy equipment mileage	Mi	150		1125 00
E113	Bulk delivery charge	TN/A	278		693 75
CB200	Depth charge 0-500'	4hr	1		1000 00
EE240	Blending & mixing charge	SK	85		119 00
5003	Service Supervisor first 8 hours on loc	EA	1		175 00
SUB TOTAL					4507 25

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
Discount		TOTAL	2478 99

SERVICE REPRESENTATIVE <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO.

BASIC

energy services, L.P.

TREATMENT REPORT

Customer	MJM Exploration, Inc	Lease No.		Date	7-16-18 7-17-18
Lease	Savage	Well #	1		
Field Order #	17035	Station		Casing	
Type Job	P.A 2-42	Formation		Depth	
				County	Marion
				State	KS
				Legal Description	15-215-4E

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
	4							5 Min.
Depth	Depth	From	To	Pre Pad	Max			
	290							10 Min.
Volume	Volume	From	To	Pad	Min			
	3.14							15 Min.
Max Press	Max Press	From	To	Frac	Avg			
	500							
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
	13.81							
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative	Alan Kraft	Station Manager	Justin Westerman	Treater	Ferris Gordino
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Service Units	76666	77666	807A	AA03	19860					
Driver Names	Ferris	Mike	Mike	Derrick	Derrick					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2130					arrived on location / safety meeting
2145					Rig up equipment
2240		20	10	3	Pump H2O ahead
2243		20	7.5	3	mix 35% 60/40 @ 14.5 pps - Plug set @ 290'
2246		20	1.7	3	Pump H2O Behind / Shut down pump & joints
2310		10	3	3	Pump H2O ahead
2314		10	5.4	2	mix 25% 60/40 Ptz @ 14.5 pps - Plug set @ 60'
2320		10	5.4	2	Pull 1 joint
					mix 25% 60/40 Ptz @ 14.5 pps - Plug set @ 60'
					Rig down, Leave location
					1st Plug 120'-290' 2nd plug success-60'
					Thank you !!!
					Ferris Gordino

JUSTIN D. CARTER

CONSULTING GEOLOGIST

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

Well Name: SAVAGE #1
Well Id:
Location: SW, SE, SW Sec. 15 - 21S - 4E Marion Co., KS
License Number: 15-115-21504-0000
Spud Date: 07/13/18
Surface Coordinates: 330' FSL & 1650' FWL
Region: Savage
Drilling Completed: 07/16/18

Bottom Hole Coordinates: 718': 1/4 DEG, 1493': 1/2 DEG, 2350': 0 DEG
Ground Elevation (ft): 1292' K.B. Elevation (ft): 1298'
Logged Interval (ft): 1300' To: 2460' Total Depth (ft): 2460'
Formation: SWOPE, MISS, HUNTON
Type of Drilling Fluid: Chemical Mud

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

OPERATOR

Company: M&M EXPLORATION, INC
Address: 4257 Main St., #230
Westminister, CO 80031
Co. Geo.: Mr. Mike Austin

GEOLOGIST

Name: Justin D. Carter
Company: Consulting Geologist
Address: 1640 N. Roosevelt Ave.
Liberal, KS 67901
Phone: 620-655-1187

Comments

Drilling Contractor: C&G Drilling Rig #1
Tool Pusher: Chris Nelson

8 5/8" surface casing set at 252'

Mud: Fud Mud
Engineer: Aaron Rush

Open-Hole Loggers: Weatherford Wireline Services

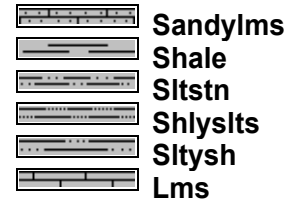
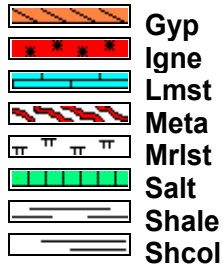
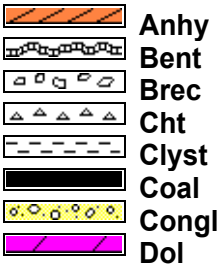
Remarks

After careful review of the sample log and electric logs, the decision was made to P&A the Savage #1.

Respectfully submitted,

Justin D. Carter
Consulting Geologist

ROCK TYPES

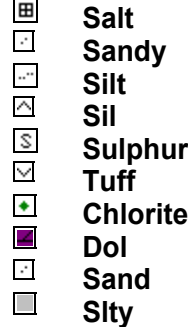


ACCESSORIES

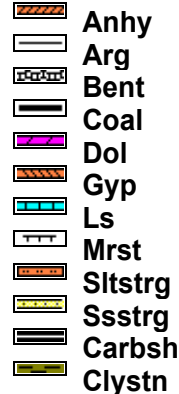
FOSSIL



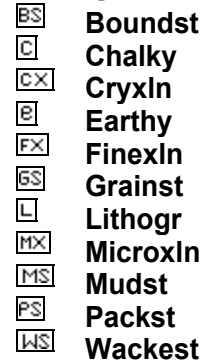
MINERAL



STRINGER



TEXTURE

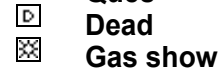
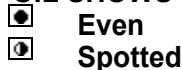


OTHER SYMBOLS

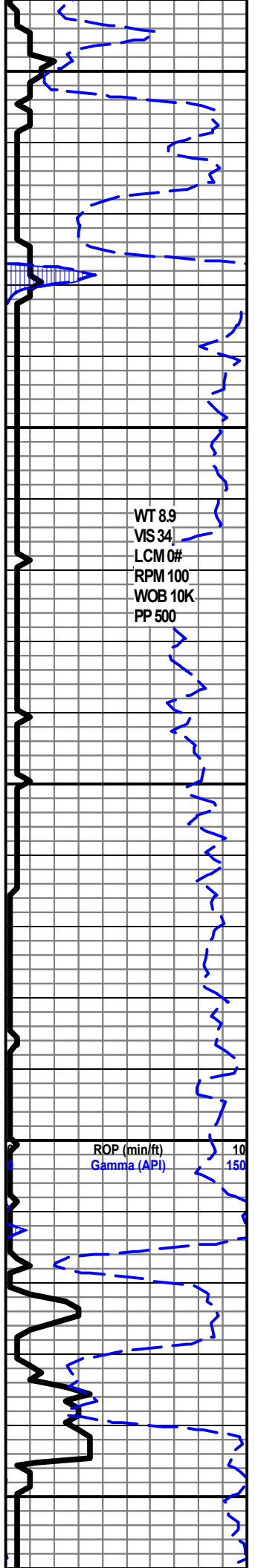
INTERVALS



OIL SHOWS



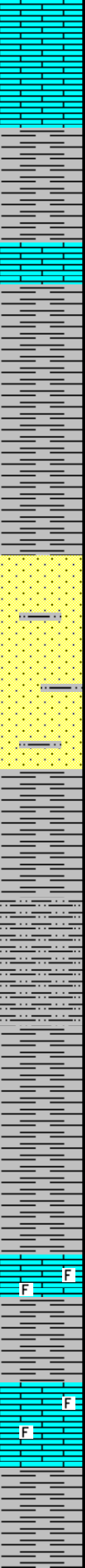
Curve Track 1		Depth	Lithology	Geological Descriptions	Remarks
ROP (min/ft)	Gamma (API)				
0	10	12			
0	150				
BIT #2 LOGIC PDC 7 7/8" RB 616 SN: 4126 2/18s, 1/12, 6/20s IN @ 252'				DISPLACE HOLE @ 1200'	
				GEOLOGIST ON LOCATION 12:30 P.M. 07/14/18	
		1300			1:45 P.M. 07/14/18
WT 8.7 VIS 32 LCM 0# RPM 100 WOB 10K PP 500				LS- CRM LT GY, HRD, VF-XLN, RE-XLN MTRX IP TO SUB-SUCRO MTRX IP, IMBED FOSS FRAGS SCAT THRU, NO FLO, NO VIS POR	CN
				LS- CRM, HRD TO BRITT IP, VF-XLN, SUB-SUCRO MTRX THRU, IMBED FOSS FRAGS IP, NO FLO, NO VIS POR	CN
		1350		SLTST- GY, TT, F-GRNS, MICA BLK SH IP, PR INTER-GRN POR	CN
				SHLY SLTST- GYGRN, TT, F-GRNS, LAM GRN SH IP, MICA BLK SH IP, NO VIS POR	CN
		1400		LS- TN BFF, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR	CN
				LS- LT GY BFF, HRD DNS, SUCOR MTRX IP TO RE-XLN MTRX IP, TR IMBED FOSS FRAGS, NO FLO, TR INTER-FOSS POR, NS	CN
				HEEBNER 1428' (-130')	CN



WT 8.9
 VIS 34
 LCM 0#
 RPM 100
 WOB 10K
 PP 500

ROP (min/ft) 10
 Gamma (API) 150

1450
 1500
 1550
 1600
 1650



LS- OFF WHT, HRD, F/VF-XLN, SUB-SUCRO MTRX IP TO SUB-CHLKY MTRX IP, TR MED CALC XLS, NO FLO, TR INTER-XLN POR TO NO VIS POR THRU, NS

SH- GY BLK, SFT TO FRM IP, FISS, WXY, TR SLTY SH

SH- GY, FRM, BLKY, SLTY IP TO LMY IP

SH- GY, A/A

SS- OFF WHT LT GY, TT, F-GRNS, FR SRT, SUB-RND GRNS, DISS BLK SH SCAT THRU, TR LAM SLTST, NO FLO, PR INTER-GRN POR THRU, NS

SH- GY, FRM, FISS TO BLKY IP, SLTY

SLTST- LT GY OFF WHT, TT, F-GRNS, NO VIS POR

SH- LT GY, HRD, VF-XLN, DISS BLK SH IP, SLTY

LS- LT TN, HRD DNS, VF-XLN, SUB-SUCRO MTRX THRU, TR IMBED FOSS FRAGS, NO FLO, NO VIS POR

LS- CRM, LT TN, HRD DNS, VF-XLN, RE-XLN MTRX IP TO SUB-SUCRO MTRX IP, TR FOSS FRAGS, NO FLO, NO VIS POR

CN

CN

CN

CN

CN

CN

CN

LANSING 1685' (-387')

LS- TN, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX THRU, IMBED SH IP, NO FLO, NO VIS POR

CN

LS- WHT, HRD DNS, VF-XLN, SUB-SUCRO MTRX IP TO TR SUB-CHLKY, TR OOL, NO FLO, NO VIS POR

CN

LS- BFF LT GY, HRD TO BRITT IP, F/VF-XLN, SUB-SUCRO MTRX THRU TO TR SUB-CHLKY, TR OOL, NO FLO, NO VIS POR

CN

LS- BFF LT TN, HRD DNS, F/VF-XLN, SUB-SUCRO MTRX IP, TR OOL, NO FLO, TR INTER-XLN POR TO NO VIS POR THRU, NS

CN

LS- CRM TN, HRD DNS, VF-XLN, SUCRO MTRX THRU TO TR RE-XLN MTRX, NO FLO, NO VIS POR

12:00 A.M. 07/15/18

LS- LT TN, BRITT, MD/F-XLN, GRST, TR OOL, NO FLO, FR INTER-XLN POR THRU TO TR INTER-OOL POR, NS

CN

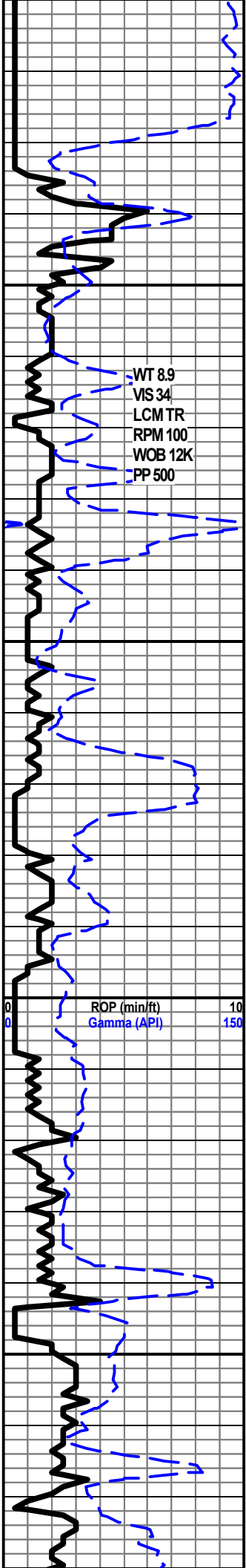
LS- GY, HRD DNS, VF-XLN, SUB-SUCRO MTRX THRU TO TR RE-XLN MTRX, NO FLO, NO VIS POR

CN

LS- LT BRN, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

LS- LT BRN, A/A

CN

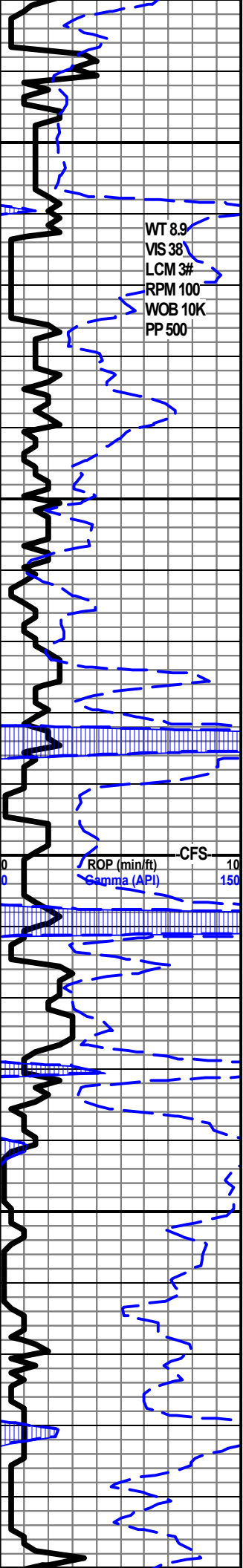


1700

1750

1800

1850



1900

1950

2000

2050

00

WT 8.9
VIS 38
LCM 3#
RPM 100
WOB 10K
PP 500

ROP (min/ft)
Gamma (API)

CFS 10
150

LS- GY, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

CN

LS- CRM DK TN, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

CN

LS- OFF WHT, BRITT, VF-XLN, SUB-SUCRO MTRX THRU TO TR SUB-CHLKY, TR SFT WHT CHLK, NO FLO, NO VIS POR

LS- TN BRN, HRD, FVF-XLN, SUB-SUCRO MTRX THRU TO TR RE-XLN MTRX, TR OOL, TR FINE CALC XLS, NO FLO, TR INTER-XLN POR TO TR INTER-FOSS POR, NS

CN

LS- OFF WHT LT CRM, HRD, VF-XLN, SUB-CHLKY MTRX IP TO SUB-SUCRO MTRX IP, TR IMBED OOL, NO FLO, NO VIS POR

STARK SH 1985' (-687')

LS- TN GY, MOTT, FVF-XLN, SUCRO MTRX THRU, IMBED OOL IP, TR DLL YEL FLO, NO VIS CUT, V/PR INTER-XLN POR IP, TR BLK RESIDUAL STAIN, NO ODOR

CN

MUD CHECK @ 2000'

WT 8.9
VIS 37
LCM 3#
PV 10
YP 5
PH 10.0
FIL 8.8
CAL 80
CHL, 1,200

CN

LS- TN GY, HRD DNS, MD/VF-XLN, GRST IP TO RE-XLN MTRX IP, IMBED DK GY SH IP, TR IMBED FOSS FRAGS, NO FLO, NO VIS POR

BKC 2041' (-743')

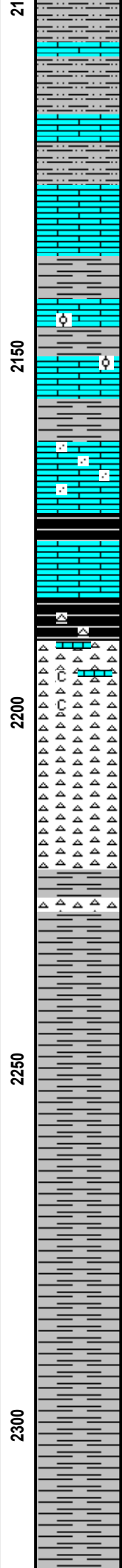
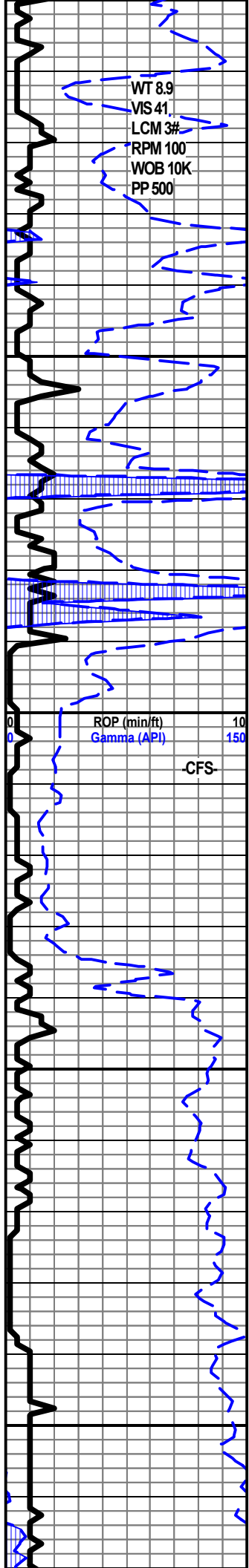
SH- DK GY BLK, SFT, BLKY TO SLI GMMY IP, LMY, TR PYR

CN

SH- BLK, FRM, BLKY, SLTY IP TO LMY IP, TR OXIDZ SH, VF-XLN LS IP

CN

LS- TN, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR



RO NOT POR
SLTST- LT GRN, TT, VF-GRN, NO VIS POR CN

LS- CRM BFF, HRD DNS, VF-XLN, RE-XLN MTRX THRU TO TR SUCROMTRX, TR SNDY LS, NO FLO, NO VIS POR

LS- BFF TN, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX THRU, TR OOL, NO FLO, NO VIS POR CN

LS- LT GY, HRD DNS, VF-XLN, SUCROMTRX THRU, SLI SNDY THRU, NO FLO, NO VIS POR

LS- TN, HRD DNS, F/CRYPTO-XLN, RE-XLN MTRX IPTO TR GRST, NO FLO, NO VIS POR CN

MISS 2190' (-892')

CHRT- WHT, TT, TR TRIPOL, TR PYR, TR SFT WHT CHLK, VDLL YEL FLO IN 10%, V/FAINT YEL STRM CUT, TR INTER-XLN POR, TR VLT TN STAIN, V/FAINT ODOR CN

CHRT- WHT, TT, TR TRIPO, TR VDLL YEL FLO, NO VIS CUT, TR INTER-XLN POR, TR VLT TN STAIN, NO ODOR

KINDERHOOK SH 2227' (-929')

SH- GRN, SFT TO FRM IP, FISS IPTO BLKY, SLI SNDY THRU, DISS PYR SCAT THRU CN

SH- GY, FRM TO SFT IP, BLKY, SLTY IPTO LMY IP

SH- GY, A/A CN

SH- BRN GY, SFT, BLKY IP TO FISS IP

SH- GY, SFT TO FRM IP, BLKY CN

BIT #3
 TZ 7 7/8"
 527
 S/N: 304658
 IN 2350'

-CFS-

WT 9.1
 VIS 51
 LCM 1#
 RPM 60
 WOB 28K
 PP 700

-CFS-

-CFS-

-CFS-

-CFS-

ROP (min/ft)
 Gamma (API)

2350

2400

2450

SH- GY, FRM, BLKY, SLTY

T.O.H. FOR BIT @2350'

DOLO- WHT, HRD DNS, F-XLN, SUCRO MTRX THRU, WHT
 CHRT IP, PYR IP, TR BRIT YEL. GLD FLO, FAINT SLO BLU STRM
 CUT, PR INTER-XLN POR THRU TO TR VUG POR, TR STAIN,
 FAIR ODOR

HUNTON 2397' (-1099')

SNDY DOLO- TN, HRD DNS, MD-XLN, SUCRO MTRX THRU,
 ABDT CLR QTZ GRNS, 1 SMPLE W/ BRIT YEL GLD FLO, V/FAINT
 SLO BLU STRM CUT, FR INTER-XLN POR THRU, NO STAIN,
 FAINT ODOR

VIOLA 2419' (-1121')

DOLO- WHT, HRD DNS, MED/CORSE-XLN, RE-XLN MTRX THRU,
 NO FLO, GD INTER-XLN POR THRU, NS

DOLO- WHT, HRD DNS, CORSE/F-XLN, RE-XLN MTRX THRU, NO
 FLO, GD INTER-XLN POR THRU

DOLO- TN, HRD DNS, F-XLN, SUCRO MTRX THRU, NO FLO, PR
 INTER-XLN POR THRU, NS

R.T.D. 2460'

L.T.D. 2455'

CN

-12:00 A.M. 07/16/18-

CN

CN

MUD CHECK @2424'

WT 9.2

VIS 47

LCM 3#

PV 25

YP 8

PH 10.0

FIL 8.8

CAL 80

CHL, 1,200

CN

CN

-10:11 A.M. 07/16/18-