KOLAR Document ID: 1471342

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 # 35328
Name: Presley Operating LLC
Address 1: 101 PARK AVE SUITE 670
Address 2:
City: OKLAHOMA CITY State: OK Zip: 73102 + 7220
Contact Person: Travers Boughdadly
Phone: (405) 526-3000
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Gregg Alletag
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 #:

08/22/2019 Spud Date or Recompletion Date
08/29/2019 Date Reached TD
08/31/2019 Completion Date or Recompletion Date

API No.: 15-081-22192-00-00
Spot Description:
SW - NE - SE - SW Sec. 3 Twp. 28 S. R. 32 ☐ East ☑ West
850 Feet from ☐ North / ☑ South Line of Section
2305 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Haskell
Lease Name: SVT Well #: 1-3
Field Name:
Producing Formation: Dry Hole
Elevation: Ground: 2918 Kelly Bushing: 2929
Total Vertical Depth: 5600 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1773 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: 7400 ppm Fluid volume: 2400 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Triple LLC
Lease Name: GOERTZEN 31a-27 License #: 34889
Quarter NE Sec. 27 Twp. 29 S. R. 39 ☐ East ☑ West
County: Stanton Permit #: D32018.0

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: 09/10/2019
☐ **Confidential Release Date:** 09/09/2021
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 09/10/2019

Operator Name: Presley Operating LLC Lease Name: SVT Well #: 1-3

Sec. 3 Twp. 28 S. R. 32 ☐ East ☑ West County: Haskell

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 *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	24	1773	SMD	700	See Attached

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Presley Operating LLC
Well Name	SVT 1-3
Doc ID	1471342

All Electric Logs Run

Compact Photo Density Compensated Neutron Micro-Resistivity Log
Array Induction Shallow Focused Electric Log
Micro-Resistivity Log
Compensated Sonic Log

Form	ACO1 - Well Completion
Operator	Presley Operating LLC
Well Name	SVT 1-3
Doc ID	1471342

Tops

Name	Top	Datum
Stone Coral	1856	+1073
Hutchinson Salt	2410	+519
Heebner	4106	-1177
Lansing A	4205	-1276
Kansas City A	4586	-1657
Marmaton	4713	-1784
Ft Scott	4852	-1923
Atoka Shale	5062	-2133
Morrow	5108	-2179
Missippian	5208	-2279
St Genevieve	5300	-2371
St Louis	5482	-2553

Form	ACO1 - Well Completion
Operator	Presley Operating LLC
Well Name	SVT 1-3
Doc ID	1471342

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	1773	SMD	700	See Attached

SWIFT Services, Inc.
P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300

Invoice

DATE	INVOICE #
8/24/2019	27751

BILL TO

Presley Operating LLC
101 Park Ave, Ste 670
Oklahoma City, OK 73102

RECEIVED
SEP 03 2019
By

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-3	S.V.T.	Haskell	Murfin Rig #21	Oil	Development	Deep Surface	David E.

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	110	Miles	5.00	550.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars	1	Job	1,400.00	1,400.00
290	D-Air	7	Gallon(s)	42.00	294.00T
221	Liquid KCL (Clayfix)	2	Gallon(s)	25.00	50.00T
401-8	8 5/8" Insert Float Without Auto Fill	1	Each	210.00	210.00T
409-8	8 5/8" Turbolizer	3	Each	110.00	330.00T
410-8	8 5/8" Top Plug	1	Each	130.00	130.00T
194	Plug Container Rental	1	Each	200.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)	700	Sacks	17.00	11,900.00T
276	Flocele	175	Lb(s)	3.00	525.00T
581D	Service Charge Cement	700	Sacks	1.85	1,295.00
583D	Drayage	3,845	Ton Miles	0.95	3,652.75
	Subtotal				20,536.75
	Sales Tax Haskell County			7.00%	954.73

JOINT INTEREST BILLING
Approved_____ Date_____
Date To Be Paid_____
LOE___ IDC___ EQ___ LHC___ TCP___ ACP___
Description 71110 Surf Cmt
Lease 57087
Chk. No._____ Date Paid_____
JIB Date_____ WC_____

We Appreciate Your Business!

Total $21,491.48

SWIFT Services, Inc.

CHARGE TO: Presley Operating
ADDRESS
CITY, STATE, ZIP CODE

TICKET 27751

PAGE 1 OF 3

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Hays Ks	# 1-3	S.V.T	Haskell	Ks		8-24-19	
2. Ness City Ks	TICKET TYPE ☐ SERVICE ☐ SALES / CONTRACTOR: Murfin		RIG NAME/NO.: Rig 21	SHIPPED VIA: CT	DELIVERED TO: LOCATION	ORDER NO.	
3.	WELL TYPE: Oil	WELL CATEGORY: development	JOB PURPOSE: Deep Surface		WELL PERMIT NO.	WELL LOCATION	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575					MILEAGE TRK # 111	110	mi			5 00	550 00
576D					Pump Charge - Deep Surf.	1	EA			1400 00	1400 00
290					D-Air	7	Gal			42 00	294 00
221					Liquid KCL	2	Gal			25 00	50 00
401					Insert Float w/ Auto Fill	1	EA			210 00	210 00
409					Turbolizer	3	EA			110 00	330 00
418					Top Plug	1	EA			130 00	130 00
194					Plug Container Rental	1	EA			200 00	200 00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY,** and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X

DATE SIGNED | TIME SIGNED ☐ A.M. ☐ P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL p.1	3164 00
p.2	17372 75
	20536 75
Haskell	954 73
TOTAL	21491 48

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: DAVID EDGERTON | APPROVAL

Thank You!

SWIFT Services, Inc.

PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 27751

CUSTOMER: Presley Operating | WELL: S.V.T 1-3 | DATE: 8-24-19 | PAGE 2 | OF 3

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	TIME	DESCRIPTION	QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT
330		2				Swift Multi Density	700	sks			17 50	11900 00
276		2				Flocele	175	lbs			3 00	525 00
		2				SERVICE CHARGE Cement	CUBIC FEET 700 sks				1 85	1295 00
		2				MILEAGE CHARGE TOTAL WEIGHT 67923 LOADED MILES 110	TON MILES 3845				95	3652 75

CONTINUATION TOTAL 17372 75

JOB LOG

SWIFT Services, Inc.

DATE 8-24-19 | PAGE NO. 3

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Presley Operating	1-3	S.V.T	Deep Surf	

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	330							On location
								RTD - 1773
								Centralizers - 1, 3, 6
	530							START Running Csg
	725							Break Circ on Bottom
	800	5.5	20			200		Pump KCL spacer
		6	0			200		START CMT - 150 sks @ 11.8 PPG
		6	72			200		Raise wgt to 12.7 PPG for 350 sk
		5	200			200		Raise wgt to 13.5 PPG for 100 sk
		5	233			200		Raise wgt to 14.5 PPG for 100 sk
	905	5	259			200		END CMT
								Release Plug
	910	6	0			200		START Disp - CMT Circulating
	[illegible]	6	70			400		CATCH psi
	925	5	111			800/1000		LAND plug
								Lift psi - 800 #
								LAND psi - 1000 #
								Shut in
								JOB Complete
								Thanks
								Davis, Zach, Kirby & Preston
								★ Circulated 100 sks CMT to the pit.

SWIFT Services, Inc.

P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300

Invoice

DATE	INVOICE #
8/31/2019	32447

BILL TO

Presley Operating LLC
101 Park Ave, Ste 670
Oklahoma City, OK 73102

RECEIVED
SEP 06 2019
By

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-3	S.V.T.	Haskell	Murfin Rig #21	Oil	Development	PTA	Blaine

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	110	Miles	5.00	550.00
576D-P	Pump Charge - PTA	1	Job	925.00	925.00
328-4	60/40 Pozmix (4% Gel)	160	Sacks	11.00	1,760.00T
290	D-Air	1	Gallon(s)	42.00	42.00T
581D	Service Charge Cement	160	Sacks	1.85	296.00
583D	Drayage	736.56	Ton Miles	0.95	699.73
	Subtotal				4,272.73
	Sales Tax Haskell County			7.00%	126.14

BILLING
Date
IHC TCP ACP
Date Paid
WC

We Appreciate Your Business!

Total $4,398.87

SWIFT Services, Inc.

TICKET 032447

CHARGE TO: Presley Operating
ADDRESS
CITY, STATE, ZIP CODE

PAGE 1 OF 1

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Ness City, KS	1-3	S.V.T.	Haskell	KS	Sublette	31 AUG 19	
2.	TICKET TYPE ☐ SERVICE ☐ SALES	CONTRACTOR Murfin	RIG NAME/NO. 21	SHIPPED VIA CT	DELIVERED TO location	ORDER NO.	
3.	WELL TYPE oil	WELL CATEGORY PTA	JOB PURPOSE Plug to Abandon		WELL PERMIT NO.	WELL LOCATION 3-28-32	
4.							
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		1			MILEAGE TRK 114	110	mi			5 00	550 00
576P		1			Pump Charge	1	ea			925 00	925 00
328-4		1			60/40 pozmix (4% gel)	160	sk			11 00	1760 00
290		1			D-AIR	1	ea			42 00	42 00
581		1			Service charge	160	sk			1 85	296 00
683		1			Drayage	13392	lb	736.56	TM	0 95	699 73

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

X

DATE SIGNED | TIME SIGNED 1100 ☑ A.M. ☐ P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UNDECIDED	DISAGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO
☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	4272 73
Haskell	126 14
TOTAL	4398 87

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR (signature) APPROVAL (signature)

Thank You!

SWIFT Services, Inc.

DATE 31 AUG 19 | PAGE NO. 1

CUSTOMER Presley Operating | WELL NO. 1-3 | LEASE S.V.T. | JOB TYPE Plug & Abandon | TICKET NO. 32447

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
								160sk 60/40 pozmix (4% gel) 4½ drill pipe
								50sk - 1830
								40 sk - 930
								20 - 60
								RH 30 - MH 20
	0530							on loc RIK 114
								wait on cement - circulate well
	0907	3½	13				200	pump 1st plug 50sk
			27					Displace
	0925							pull to 930'
	0955		11					pump 2nd ply 40sk
			7					Displace
	1010							pull to 60'
	1040		6					pump 3rd ~~plug~~ 20sk
								Plug RH 30sk MH 20sk
	1058							wash truck
								Rack up
								job complete
								Thanks Blaine Hunt & crew

Presley Operating LLC
Est. 2015

101 Park Ave, Suite 670
Oklahoma City, OK 73102
405-526-3000

GEOLOGICAL REPORT
SVT #1-3
HASKELL COUNTY, KANSAS

Operator:	Presley Operating LLC
Well Name:	SVT #1-3
Location:	SW NE SE SW Section 3-T28S-R32W
Date Spudded:	August 21, 2019
Surface Casing:	8-5/8" @ 1773', 24#, J-55
Hole Size:	7-7/8"
Total Depth Reached:	August 29, 2019 @ 5:30 a.m.
Drilling Contractor:	Murfin Drilling Company, Rig 21
Geologist:	Gregg Alletag
Mud Logger:	Mid-Continent Well Logging, Nick Wier
Logging Services:	Weatherford: AIL/GR, 5600' - 1773' PDL/CNL/GR, 5569' - 1773' ML/GR, 5555' - 1773' SL/GR, 5590' - 1773
Elevations:	**GL:** 2918' **DF:** 2927' **KB:** 2929'
Status:	Plugged and Abandoned

Formation Tops	**Depth**	**Subsea**
Stone Coral	1856	+1073
Hutchinson	2410	+519
Herington (Chase)	2707	+222
Fort Wiley (Chase)	2886	+43
Wreford (Chase)	3018	-89
Council Grove	3050	-121
Neva	3250	-321
Wabaunsee	3436	-507
Topeka	3714	-785
Heebner	4106	-1177
Toronto	4128	-1199
Lansing A	4205	-1276
Lansing B	4252	-1323
Lansing C	4284	-1355
Lansing D	4332	-1403
Lansing E	4375	-1446
Lansing F	4430	-1501
Lansing G	4458	-1529
Lansing H	4520	-1591
Lansing J	4530	-1601
Kansas City A	4586	-1657
Kansas City B	4664	-1735
Marmaton	4713	-1784
Pawnee	4820	-1891
Ft. Scott	4852	-1923
Cherokee	4866	-1937
Atoka	5062	-2133
Morrow	5108	-2179
Uppermost Morrow Sand	5108	-2179
Upper Morrow Sand	5122	-2193
Mississippian	5208	-2279
St. Genevieve	5300	-2371
St. Louis	5482	-2553

101 Park Ave, Suite 670
Oklahoma City, OK 73102
405-526-3000

St. Louis (Mississippian)

The top of the St. Louis was encountered at 5482' (-2553). It was a tan-cream, some off-white limestone, fine to very fine crystalline, moderately firm to firm, some hard, some poor intercystalline porosity, slight trace fracture porosity, slightly chalky, some pyrite. The samples exhibited scattered-to-trace bright yellow/green fluorescence, poor faint dull milky white cut and very thin spotty residual ring cut. The zone recorded a continuous hotwire show of 58 unit show with C1 C2 on the gas chromatograph. The zone drilled off at a rate of 1 min/ft vs 3 min/ft in overlying limestone. Summary log calculations as follows (see attached detail log analysis):

5485'-5486'	1 porosity foot	7% porosity	9% Øml	74% Sw
5486'-5488'	2 porosity feet	9% porosity	9% Øml	84% Sw
5488'-5490'	2 porosity feet	8% porosity	9% Øml	72% Sw
5490'-5492'	2 porosity feet	7% porosity	7% Øml	64% Sw
	7 porosity feet	8% Avg Øcp	8.5%Avg Øml	74% Avg Sw

Øml = exhibited microlog effective porosity and permeability

Evaluation of Open Hole log calculations, samples and hotwire/chromatograph response indicates the St. Louis zone is wet and does not merit testing.

Upper Morrow Sand

The top of the Upper Morrow Sand was encountered at 5122' (-2193). No sand was recovered in sample for examination through this interval, however, the zone did exhibit a 98 unit show on the continuous hotwire with C1 C2 recorded on the gas chromatograph. Summary log calculations as follows (see attached detail log analysis):

5126'-5128'	2 porosity feet	33% porosity	no Øml	60% Sw
5128'-5130'	2 porosity feet	22% porosity	no Øml	69% Sw
5130'-5132'	2 porosity feet	19% porosity	no Øml	79% Sw
	6 porosity feet	22.5% Avg Øcp		69% Avg Sw

Note: no microlog effective porosity nor perm was exhibited

Evaluation of Open Hole logs indicate the Upper Morrow Sand is wet and non-commercial. The Upper Morrow Sand does not merit testing,

Uppermost Morrow Sand

The top of the Uppermost Morrow Sand was encountered at 5108' (-2179). No sand was recovered in sample for examination through this interval, however, the zone did exhibit a 161 unit show on the continuous hotwire with C1 C2 recorded on the gas chromatograph. Summary log calculations as follows (see attached detail log analysis):

5111'-5112'	1 porosity foot	19% porosity	16% Øml	32% Sw
5112'-5114'	2 porosity feet	20% porosity	16% Øml	35% Sw
	3 porosity feet	19.5% Avg Øcp	16%Avg Øml	33% Avg Sw

Øml = exhibited microlog effective porosity and permeability

The Uppermost Morrow Sand calculates productive and recorded shows on the hotwire, however, it is a very thin zone which raises concern for EUR potential. Completion of the Uppermost Morrow is not recommended due to the lack of commercial reserve potential. The nearest correlative zone with significant Uppermost Morrow Sand is the Bedell Field, 10 miles to the northeast, which cum'd 506,000 BO after primary and secondary recovery from 30'-40' thick sand, average porosity of 23%.

101 Park Ave, Suite 670
Oklahoma City, OK 73102
405-526-3000

Middle Marmaton

The top of the Middle Marmaton was encountered at 4752' (-1823). It was a light grey, some dark grey limestone, fine to very fine crystalline, poor intercrystalline porosity, moderately firm to firm, some hard, with occasional sand stringers. The samples exhibited faint green fluorescence, very weak dull milky green-white cut and faint thin white to greenish residual ring cut. The zone drilled-off at 1 min/ft vs 4 min/ft in overlying limestone. No significant hotwire shows. Summary log calculations as follows (see attached detail log analysis):

4756'-4758'	2 porosity feet	14% porosity	11.5% Øml	61% Sw
4758'-4760'	2 porosity feet	13.5% porosity	12% Øml	63% Sw
4760'-4762'	2 porosity feet	15% porosity	12% Øml	54% Sw
4762'-4764'	2 porosity feet	19% porosity	11% Øml	50% Sw
4764'-4766'	2 porosity feet	14.2% porosity	12% Øml	67% Sw
	10 porosity feet	8% Avg Øcp	12%Avg Øml	60% Avg Sw

Øml = exhibited microlog effective porosity and permeability

Evaluation of Open Hole log calculations, weak sample shows and the lack of significant hotwire shows indicate the Middle Marmaton does not merit testing.

Upper Marmaton

The top of the Upper Marmaton porosity zone was encountered at 4741' (-1812). It was a light tan cream occasion buff limestone, medium to fine crystalline, argillaceous, and slightly sandy, with trace fracture porosity. The samples exhibited scattered dull-slightly bright greenish fluorescence, faint dull milky white cut and faint spotty white residual ring cut. A significant show of 339 units was recorded on the hotwire with C1 C2 C3 exhibited on the gas chromatograph. Summary Open Hole log calculations are as follows (see attached detail log analysis):

4742'-4744'	2 porosity feet	12% porosity	11% Øml	30% Sw
4744'-4745'	1 porosity foot	12% porosity	no Øml	28% Sw
	3 porosity feet	12% Avg Øcp	11%Avg Øml	29% Avg Sw

Øml = exhibited microlog effective porosity and permeability

Evaluation of Open Hole logs, samples, hotwire/chromatograph shows, and correlative relationship to offset wells indicates the Upper Marmaton should be productive, however, only a very thin, 3 porosity feet, was encountered in the SVT #1-3. The thin interval encountered raises concern for EUR potential. Completing of the Upper Marmaton is not recommended due to the lack of commercial reserve potential.

Kansas City B

The top of the Kansas City B was encountered at 4664' (-1735). It was a light tan-cream, scattered off-white limestone, medium to fine crystalline, occasional micro-crystalline, blocky, slightly argillaceous, slightly sandy, scattered poor intercrystalline porosity, and trace fracture porosity. The samples exhibited scattered faint dull greenish fluorescence, faint dull milky white cut and a very faint spotty white residual ring cut. A combination of connection gas/show gas of 183 units was recorded. The zone drilled-off at 1 min/ft vs overlying strata that drilled at 3-1/2 min/ft.. Summary Open Hole log calculations are as follows (see attached detail log analysis):

4666'-4668'	2 porosity feet	15% porosity	11% Øml	36% Sw
4668'-4670'	2 porosity feet	14% porosity	12% Øml	40% Sw
4670'-4571'	1 porosity foot	12% porosity	12% Øml	46% Sw
	5 porosity feet	14% Avg Øcp	12%Avg Øml	41% Avg Sw

Øml = exhibited microlog effective porosity and permeability

101 Park Ave, Suite 670
Oklahoma City, OK 73102
405-526-3000

Evaluation of Open Hole logs, weak sample shows and hotwire/chromatograph shows indicate the Kansas City B would only contribute limited reserves. A correlative offset, K & G #1-29, which has a thicker interval, 14 porosity feet, cum'd only 7,498 BO in 2 years prior to plugging.

Kansas City A

The top of the Kansas City A was encountered at 4586' (-1657). It was a tan-cream, some off-white limestone, fine to very fine crystalline, moderately firm to firm, some hard, occasional sand stringers, poor intercrystalline porosity and trace of fracture porosity. The samples exhibited scattered dull-bright white/green fluorescence, slow milky white cut with a thin spotty residual ring cut. There was no hotwire/chromatograph shows in the porosity interval. The porosity zone did drill-off at a rate of ½ min/foot. Summary log calculations are as follows (see attached detail log analysis):

4586'-4588'	2 porosity feet	25% porosity	11% Øml	21% Sw
4588'-4590'	2 porosity feet	24% porosity	13%Øml	24% Sw
	4 porosity feet	24.5% Avg Øcp	12%Avg Øml	22.5% Avg Sw

Øml = exhibited microlog effective porosity and permeability

The Kansas City A calculates productive on Open Hole logs, however, exhibited weak sample show and no recorded hotwire show. It should be noted this zone produced in a 3 mile offset well, however, the Kansas City A was commingled with 3 other zones with limited success; reported cum 1923 BO & 29 MCFD in 4 years. The limited offset performance and thin interval, 4 porosity feet, indicates the Kansas City A would yield a limited amount of reserves from the SVT #1-3.

Lansing J

The top of the Lansing J was encountered at 4530' (-1601). The porosity zone of interest was from 4558' to 4568'. It was a grey-light grey, some off-white limestone, mostly fine to very fine crystalline, occasional micro-crystalline, poor intercrystalline porosity, moderately firm to firm with some hard, some very fine to fine grained sandstone clusters with poor intergranular porosity. The samples exhibited poor scattered bright green-yellow fluorescence, very light and slow milky white cut and weak spotty residual cut. The continuous hotwire recorded a 191 unit show with C1 C2 on the gas chromatograph. Summary log calculations are as follows (see attached detail log analysis):

4558'-4560'	2 porosity feet	11% porosity	9% Øml	36% Sw
4560'-4562'	2 porosity feet	11.5% porosity	no Øml	35% Sw
4562'-4564'	2 porosity feet	10.5% porosity	8%Øml	55% Sw
4564'-4566'	2 porosity feet	10% porosity	9% Øml	47% Sw
4566'-4568'	2 porosity feet	11% porosity	no Øml	39% Sw
	10 porosity feet	11% Avg Øcp	8.5%Avg Øml	42% Avg Sw

Øml = exhibited microlog effective porosity and permeability

Evaluation of Open Hole logs, sample shows, hotwire/chromatograph shows combined with offset well control indicates the Lansing J would have limited recoveries.

Gregg Alletag
Certified Petroleum Geologist #5904
Licensed Professional Geoscientist #349

717 26th Ave NW, Norman, OK 73069
(405) 360-7333 | www.mcwlinc.com

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

Well Name:	SVT #1-3 PRESLEY OPERATING LLC		
API:	15-081-22192		
Location:	SEC. 3 - T28S - 32W, SW NE SE SW, OF HASKELL CO, KS		
License Number:		Region:	NW SANCHO
Spud Date:	08/22/2019	Drilling Completed:	08/30/2019
Surface Coordinates:	850' FSL, 2305' FWL OF SEC. 3 - T28S - 32W, SW NE SE SW,		
Bottom Hole Coordinates:	850' FSL, 2305' FWL OF SEC. 3 - T28S - 32W, SW NE SE SW,		
Ground Elevation (ft):	2,918'	K.B. Elevation (ft):	2,929'
Logged Interval (ft):	1,773' To: 5,600'	Total Depth (ft):	5,600'
Formation:	LANSING / KANSAS CITY / MISSISSIPPIAN		
Type of Drilling Fluid:	WATER BASED MUD		

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

OPERATOR

Company: PRESLEY OPERATING LLC
Address: 101 PARK AVE, SUITE 670
OKLAHOMA CITY, OK
73102

GEOLOGIST

Name: TRAVERS BOUGHDADLY / GREGG ALLETAG
Company: PRESLEY OPERATING LLC
Address: 101 PARK AVE, SUITE 670
OKLAHOMA CITY, OK
73102

Cores

DSTs

Comments

PRESLEY OPERATING LLC
101 PARK AVE, SUITE 670
OKLAHOMA CITY, OK
73102

WELLSITE MANAGERS:
BRYON CLIFTON

TRAVERS BOUGHDADLY - ENGINEER

MID CONTINENT WELL LOGGING SERVICE, INC.: NORMAN, OK
LOGGING UNIT: MC04
MCWL GAS BOX: 1037 IR/CO2

MUD LOGGER: NICK WIER

CALL OUT DATE: 08/24/2019
BEGAN LOGGING: 8/24/2019 @ 1,773' MD
DRILLING COMPLETED: 08/30/2019 @ 5,600' MD

ROCK TYPES

- Sndylm
- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol
- Shgy
- Ss
- Till
- Hotsh
- Sltst

ACCESSORIES

MINERAL

- 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
- Sulphur
- Tuff

FOSSIL

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

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Ssstrg
- Sltstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy
- New symbol

- New symbol
- Sndylm
- New symbol

SORTING
- Well
- Moderate
- Poor

ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

OIL SHOW
- Even
- Spotted
- Ques

- Dead

INTERVAL
- Core
- Dst

EVENT
- Rft
- Sidewall

Survey Data	ROP	MD	Porosity	Lithology	Fluorescence	Leach	Geological Descriptions	TG, C1-C5	Photos
	ROP (min/ft) 0–10 G/R (API) 0–150	SLIDES	GD FR PR		Pr Fr Gd	PR FR Gd		TG (Units) C1 (units) C2 (units) C3 (units) C4 (units) C5 (units)	

8.625" J-55 42 JTS SURFACE CASING SET TO 1,773'

MUD REPORT
Depth 1,773'
WT 9.4
VIS 40
PV 11
YP 19
GEL 21/32
API 100
CK 3/32
SOLIDS 7.9
CHL 3,000
PH 8.5
OIL/WAT. 0.0/92.1

ENGINEERING DATA

WOB: 12K
RPM: 90
SPM: 60
PP: 600

ROP 0 - 10

1750
1800
1850

PRESLEY OPERATING LLC

SVT #1 - 3

SEC. 3 - T28S - 32W, SW NE SE SW OF HASKELL CO., KS

GL: 2,918' KB: 2,929'

DRILLING W/ BIT #2: 7.875" T506 PDC, SN: 5303846; JETS: 3X15'S
DEPTH IN: 1,773' MD

BEGIN LOGGING @ 1,773' MD ON 8/24/2019

SH: RED-BRN, TRC GRY/BRN, PRED FRM-SFT, SLI ERTHY SFT, RND-BLKY, FN-MED FN TXT, SLI CALC, V SNDY THRU OUT, W/SS: WHI-OFF WHI, SME GRY, FR STD, PRED FN-MED FN GRNS, OCC CRSE GRNS, WELL SRTD, V WELL CONSOL, MSTLY CALC CMT, SLI DOLC CMT, PR INTRGRNLR POR, NO FLUOR,

SH: RED-BRN, LT-MED GRY, DK BRN, SME LT GY, TR MAUVE, PLTY-FLKY, SME SPLNTY, CNKY-SUB BLKY, FRM-SLI FRM, OCC SLI SFT, FN-MED FN TXT, SME SLTY TXT, SS: PRED WHT-OFF WHT, FR STD-LT GRY, CNKY-SUB RND, FR SRT, FR-GD CONSL, MED FN-FN GRNS, FRM-MOD FRM, V PR INTRGRNLR POR, NO FLUOR

STONE CORRAL @ 1,856' MD (1073' SS)

TG, C1-C5 scale: 0 – PRESLEY OPERATING LLC SVT #1 - 3 – 100

MCWL 1037 IR/CO2

DRILLING WITH WATER-BASED MUD

GAS 0 - 100 UNITS

KD CG 3 U.
BG 2 - 4 U.
KD CG 3 U.
BG 2 - 4 U.
KD CG 5 U.

MUD WT: 8.9
VIS: 26

WOB: 12K
RPM: 90
SPM: 60
PP: 650

MUD REPORT
Depth 1,933'
WT 9.0
VIS 26
PV 1
YP 2
GEL 4/3
API 100
CK 0/32
SOLIDS 4.91
CHL 65,000
PH 11
OIL/WAT. 0.0/95.09

MUD WT: 9.2
VIS: 27

MUD WT: 9.2
VIS: 29

WOB: 12K
RPM: 80
SPM: 60
PP: 615

MUD WT: 9.2
VIS: 29

0 ROP (min/ft) 10
0 G/R (API) 150

1900
1950
2000
2050

KD CG 3 U.

ANHY: WHI-OFF WHI, V FN-MICRO FN XLN, BLKY-CHNKY, MSTLY FRM-MOD FRM, OCC HRD, SLI CALC, OCC DOLC, SS: WHI-OFF WHI, CRM-SLI CLR, SME OPQ, MED FN-FN GRNS, SME V FN GRNS, OCC CRSE GRNS, WELL SRTD, MSTLY CONSOL CLSTRS, CALC CMT, SLI DOLC CMT, FRM-MOD FRM, SLI FRI, PR INTRGRNLR POR, NO FLUOR, NO CUT, NO RES RING

BG 2 - 4 U.

KD CG 5 U.

TRIP GAS 4 U.

GAS TEST 213 U. @ TRAP <GOOD>

TOOH FOR NEW BIT ON 08/25/2019 @ 1,935' MD (994' SS)

DRILLING W/ BIT #3: 7.875" BAKER HUGHES 6X22 TRICONE, SN: 5298069;
JETS: 3X15'S
DEPTH IN: 1,773' MD

KD CG 2 U.

ANHY: WHI-OFF WHI, V FN-MICRO FN XLN, BLKY-CHNKY, MSTLY FRM-MOD FRM, OCC HRD, SLI CALC, OCC DOLC, W/SS: WHI-OFF WHI, CRM-SLI CLR, SME OPQ, MED FN-FN GRNS, SME V FN GRNS, RND-SUBRND, WELL SRTD, MSTLY CONSOL CLSTRS, SCAT UNCONSOL V FN GRNS, V CALC CMT, SLI FRI, PR INTRGRNLR POR, W/SH: PRED RED-BRN, OCC GRY-MED GRY, BLKY-CHNKY, SLI SMTH-SLI SLTY, SLI FRM-SFT, NO FLOUR, NO CUT, NO RES RING

KD CG 5 U.

BG 2 - 4 U.

0 PRESLEY OPERATING LLC SVT #1 - 3 100

KD

ANHY: WHI-OFF WHI, V FN-MICRO FN XLN, BLKY-CHNKY, MSTLY FRM-MOD FRM, OCC HRD, SLI CALC, OCC DOLC, W/SS: WHI-OFF WHI, FRSTD, CRM-SLI CLR, SME OPQ, FN-VFN GRNS, OCC CRSE GRNS, WELL SRTD, PRED UNCONSOL, V PR INTRXLN POR, PR INTRGRNLR POR, NO FLUOR, NO CUT, NO RES RING

KD

BG 1 - 3 U.

KD

SS: WHI-OFF WHI, CRM-SLI CLR,

SAMPLE @ 1,950' MD

MUD WT: 9.3
VIS: 30

WOB: 11K
RPM: 80
SPM: 60
PP: 625

MUD WT: 9.2
VIS: 34

DEV SVY @ 2,229'
MD - 0.9°

MUD WT: 9.0
VIS: 35

0 ROP (min/ft) 10
0 G/R (API) 150

2100
2150
2200
2250
2300

SME OPQ, MED FN-FN GRNS, SME V FN GRNS, OCC CRSE GRNS, WELL SRTD, MSTLY CONSOL CLSTRS, SCAT UNCONSOL V FN GRNS, CALC CMT, SCAT-SME LS STRNGRS I.P., FRM-MOD FRM, SLI FRI, PR INTRGRNLR POR, TRC DULL YEL/GLD FLUOR, SLI TRC BRI YEL FLOR, NO CUT, NO RES RING

KD

BG2-4U.

SS: OFF WHT-LT GY, SME WHT-TRNSL, FN-MED FN GRNS, FRM-HD, SUBANG-SUBBLKY, PR-MOD SRTD, MSTLY UNCONSL V FN GRNS, OCC CONSOL FN GRN CLSTRS, W/SH: PRED RDDSH/BRN, MED-DK GY-LT GY, TR BLK, SME RD, PRED CHNKY-PLTY, SME SUB BLKY, FRM-SFT, SLTY/SLI RGH TXT, LS: OFF WHT-GRY, SME LT TAN-CRM, SME QTZ AND ARG INCL., SUB ANG-ANG, MOD FRM-V FRM, TRC YEL FLOR, N/S

KD

KD

BG2-4U.

SS: WHI-OFF WHI, CRM-SLI CLR, SME OPQ, PRED V FN GRNS, SCAT MED FN-SLI CRS GRNS, WELL SRTD, MSTLY CONSOL CLSTRS, SME UNCONSOL V FN GRNS, CALC CMT, OCC DOLC CMT, SCAT-SME LS STRNGRS I.P., FRM-MOD FRM, SCAT FRI, PR INTRGRNLR POR, NO FLUOR, NO CUT, NO RES RING

KD

0 PRESLEY OPERATING LLC SVT #1 - 3 100
CG3U.

KD BG1-3U.

TOOH FOR NEW BIT ON 08/25/2019 @ 2,232' MD (697' SS)

DRILLING W/ BIT #4: 7.875" BAKER HUGHES DP506 PDC, SN: 55302598; JETS: 3X15'S
DEPTH IN: 2,232' MD

KD

SS: WHI-OFF WHI, CRM-SLI CLR, SME OPQ, MED FN-FN GRNS, SME V FN GRNS, OCC CRSE GRNS, SCAT QRTZC THRU OUT, WELL SRTD, MSTLY CONSOL CLSTRS, SCAT UNCONSOL V FN GRNS, CALC CMT, SCAT-SME LS STRNGRS I.P., FRM-MOD FRM, SLI FRI, PR INTRGRNLR POR, W/SH: PRED RDDSH/BRN, OCC GRY-MED GRY, MED F N-FN TXT, ABNDNT SNDY THRU OUT, PLTY-FLKY, OCC BLKY, FMR-MOD FRM, OCC BRTL NO FLUOR, NO CUT, NO RES RING

BG1-3U.

KD

SAMPLE @ 2,150' MD

MUD WT: 9.2
VIS: 29

WOB: 10K
RPM: 80
SPM: 60
PP: 660

0 ROP (min/ft) 10
0 GR (API) 150

2350
2400
2450
2500

SS: MSTLY WHI-OFF WHI, MED-LT GRY, OCC CLR, SUBRND-SLI SUBANG, WELL SRTD, FN-MED FN GRNS, SCAT CRSE GRNS, PRED CONSOL FN GRN CLSTRS, OCC UNCONSOL V FN GRNS, CALC CMT, PR INTRGRNLR POR, W/SH: PRED GRY-DRK GRY, V SLTY THRU OUT, MSTLY FRM-MOD FRM, SME SFT, BLKY-CHNKY, V CALC, TRC INTRBDD LS I.P., NO FLUOR, NO CUT, NO RES RING

SS: PRED OFF WHI-WHI, FRSTD, SME CLR-SLI OPQ, SUBANG-ANG, OCC SUBRND, MSTLY FN-MED FN GRNS, SME V FN GRNS, SLI QRTZC, MOD-WELL SRTD, FN CONSOL CLSTRS, TRC V FN UNCONSOL GRNS THRU OUT, SLI-MOD CALC CMT, SME SILC CMT, PR INTRGRNLR POR, W/SH: MED-LT GRY, MED FN-SLTY TXT, SCAT SMTH-V FN TXT, PLTY-FLKY, SME BLKY, TRC-SCAT LS STRNGRS I.P., NO FLUOR, NO CUT, NO RES RING

HUTCHINSON (SALT) @ 2,428' MD (501' SS)

SS: OFF WHT-LT GY, SME WHT-TRNSL, FR-WELL CONSL, FN-MED FN GRNS, FRM-HD, PRED RND-SUBRND, SME UNCONSL FN GRNS, PRED SILC-SLI CALC CMT, PR INTRGRNLR POR, W/SH: MED-LT GY, SCAT DRK GRY-TR BLK, PRED CHNKY-PLTY, SME SUB BLKY, FRM-SFT, SLTY/SLI RGH TXT, OCC LS STRNGRS THRU OUT, NO FLUOR, NO CUT, NO RES RING

SALT: WHI-OFF WHI, SME CLR-TRNSL CNT, FN-MED FN GRNS, MED FN-CRSE QRTZC GRNS, MSTLY SUBANG-ANG, SME SUBRND, MOD-WELL SRTD, GD CONSOL CLSTRS, SLI CALC THRU OUT, SCAT LS STRNGRS, OCC SS I.P., SCAT-SME DRK GRY-MED GRYSH/SLTSTN THRU OUT, V PR-PR INTRGRNLR POR,

BG1-3U.
KD
KD
BG1-2U.
KD
0 PRESLEY OPERATING LLC SVT #1 - 3 100
KD
PREPPING PITS FOR DISPLACEMENT / MUDDING UP
BG1-2U.
KD
KD CG2U.
FG3U.
KD

SAMPLE @ 2,350' MD

MUD REPORT
Depth 2,479'
WT 9.4
VIS 38
PV 4
YP 7
GEL 15/11
API 100
CK 3/32
SOLIDS 7.9
CHL 51,000
PH 8.5
OIL/WAT. 0.0/92.1

MUD WT: 9.3
VIS: 29

TRC INTRXLN POR, SCAT SLI DULL-BRI YEL FLUOR, NO CUT, NO RES RING

BG 1 - 2 U.

SAMPLE @ 2,550' MD

KD CG 2 U.

2550

SALT: PRED MED-LT GRY, SME WHI-OFF WHI, OCC CLR, SUBRND-SLI SUBANG, WELL SRTD, FN-MED FN GRNS, SCAT CRSE GRNS, PRED CONSOL FN GRN CLSTRS, OCC UNCONSOL V FN GRNS, CALC CMT, PR INTRGRNLR POR, W/SS: WHI-OFF WHI, CRM-SLI CLR, SME OPQ, MED FN-FN GRNS, SME V FN GRNS, OCC CRSE GRNS, WELL SRTD, MSTLY CONSOL CLSTRS, SCAT UNCONSOL V FN GRNS, TRC INTRBDD LS I.P., SCAT BRI YEL/GRNSH FLUOR, NO CUT, NO RES RING

KD CG 3 U.

WOB: 10K
RPM: 90
SPM: 60
PP: 690

0 ROP (min/ft) 10
0 G/R (API) 150

2600

0 PRESLEY OPERATING LLC SVT #1 - 3 100

KD CG 7 U.

DISPLACING PITS / MUDDING UP

SS: WHI-OFF WHI, CRM-SLI CLR, SME OPQ, MED FN-FN GRNS, SME V FN GRNS, RND-SUBRND, SME SUBANG, OCC CRSE GRNS, WELL SRTD, MSTLY CONSOL CLSTRS, SCAT UNCONSOL V FN GRNS, V CALC CMT, W/LS: WHI-OFF WHI, LT TAN-BUFF, V FN-MICRO FN XLN, FRM-MOD FRM, SLI FRI, PR INTRGRNLR POR, TRC DULL YEL-BRI GRNSH/YEL FLOR, NO CUT, NO RES RING

KD CG 6 U.

2650

LS: PRED BUFF-LT TAN, MTT LD TAN/BUF/LT GY, OCC OPQ BRN, V FN-MICRO FN XLN, V SNDY I.P., SUB ANG-ANG, SUB BLKY, SME HL FRAC/FRAC POR, V FN XLN, SH: PRED MED GY, CNKY, SLI SMTH-SLI SLTY, FRM, SCAT GRY-OFF WHI SS STRNGRS THRU OUT, BRI YEL/PALE GRN FLOR SCAT THRU OUT, NO CUT, NO RES RING

KD CG 7 U.

FG 19 U.

MUD WT: 8.6
VIS: 55
LCM: #2

2700

KD CG 11 U. Scale Change

0 PRESLEY OPERATING LLC SVT #1 - 3 500

GAS SCALE CHANGE 0 - 500 U.

SAMPLE @ 2,750' MD

CHASE (HERINGTON @ 2,707' MD (222' SS)

FG 38 U.

DEV SVY @ 2,733' MD - 0.6°

KD CG 132 U.

LS: LT TAN-CRM, OCC BUFF-LT GY, MTT LD TAN/CRM/BUFF/GY, ANG SUB BLKY PLTY OCC FLKY

FG 306 U.

WOB: 10K
RPM: 90
SPM: 60
PP: 700

MUD WT: 8.8
VIS: 45
LCM: #2

MUD WT: 9.0
VIS: 48
LCM: #2

ROP (min/ft) 0 10
G/R (API) 0 150

2750
2800
2850
2900
2950

ANG-SUB BLKY, PLTY, OCC PLKY, SME ARG, OCC SLI SNDY, H L FRAC/FRAC POR SCAT, PRED V FN-MICRO FN XLN, MED-DK GY SH STRNGRS, DULL-BRI YEL FLUOR, FNT DULL GRNSH WHI CUT, V THIN FNT SPTTY RES RING

SH: PRED DK-MED GY, TRC BLK, PLTY-SUB BLKY, CNKY, OCC FLKY, SLI RGH/SLTY TXT, OCC SLI SMTH TXT, FRM-MOD FRM, TR BRTL, OCC SUB WXY LSTR, SS: PRED OFF WHT-TRNSL/OPQ, DRTY WHT-WHT, TR ARG INCL, CNKY-SUB BLKY, OCC SUB RND, TR SUB ANG, MED-FN GRNS, OCC V FN/DNSE, PR-FR SRT, PRED WELL CONSL, TR LS STRNGRS, BRI YEL-DULL GRNSH/YEL FLUOR, SLO DULL MLKY WHI CUT, FNT THIN SPTTY YEL/GRN RES RING

LS: PRED BUFF-LT TAN, MTT LD TAN/BUF/LT GY, OCC OPQ BRN, V FN-MICRO FN XLN, SUB ANG-ANG, SUB BLKY, SME HL FRAC/FRAC POR, V FN XLN, SH: PRED MED GY, CNKY, SLI SMTH-SLI SLTY, FRM, SCAT GRY-OFF WHI SS STRNGRS THRU OUT, SCAT DULL-SLI BRI YEL/GRN FLUOR, SLO WK DULL WHI/YEL CUT, V THIN SPTTY WHI RES RING

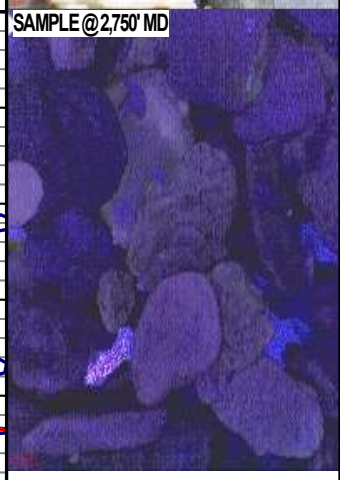
FT WILEY @ 2,886' MD (43' SS)

LS: MSTLY GRY-MED GRY, BUFF, SME WHT-OF F WH T/CRM, SLI QRTZC, V FN-MICRO FN XLN, PRED SUBBLKY-SUBANG, OCC PLTY-BLKY, MOD-A BD NT ARG I.P., OCC SLI SNDY TXT, TR SS, WSH: GRY-MED GRY, SME D RK GRY-BLK, V FN-MED FN TXT, SLI SLTY TXT THRU OUT, PRED PLTY-FLKY, OCC SUB BLKY, FRM-MOD FRM, OCC SLI SFT, SLI SUBWXY-ERTHY LSTR I.P., V LT DUL YEL FLUOR, V WK SLO DULL MLKY WHI CUT, V PR FNT SPTTY THIN YEL/GRN RES RING

PRESLEY OPERATING LLC SVT #1 - 3
0 500

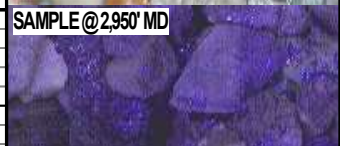
FG 332 U.
KD
CG 328 U.
FG 506 U.
FG 499 U.
KD
CG 525 U.
KD
CG 500 U.
FG 414 U.
KD
CG 506 U.
KD
CG 502 U.
FG 334 U.
KD
CG 421 U.
KD
CG 269 U.

SAMPLE @ 2,750' MD



SAMPLE @ 2,950' MD

SAMPLE @ 2,950' MD



WOB: 10K
RPM: 90
SPM: 60
PP: 710

MUD WT: 9.1
VIS: 45
LCM: #2

MUD WT: 9.1
VIS: 45
LCM: #2

0 ROP (min/ft) 10
0 G/R (API) 150

3000
3050
3100
3150

LS: PRED LT TAN-CRM, OCC BUFF-MTTLD, SCAT OFF WHI-WHI, MED FN-V FN XLN, OCC MICRO FN XLN, BLKY-CHNKY, SCAT PLTY, SLI ARG THRU OUT, SLI SNDY THRU OUT, SCAT PR INTRXLN POR, TRC HL-FRAC POR, W/SH: PRED MED GRY W/ OCC DRK GRY, PRED BLKY-SUBBLKY, PLTY-SLI SPLNTRY, MOD FRM-SL FRM, TR SLI SFT, PRED SMTH TXT, SCAT WXY-SUBWXY LSTR, OCC SLTY TXT, SCAT FNT DULL-SLI BRI GRNSH/WHI FLUOR, FNT DULL MLKY WHI CUT, V FNT SPTTY WHI RES RING

WREFORD @ 3,030' MD (-101' SS)

LS: PRED BUFF-LT TAN, MTTLD TAN/BUF/LT GY, OCC OPQ BRN, V FN-MICRO FN XLN, SUB ANG-ANG, SUB BLKY, SME HL FRAC/FRAC POR, V FN XLN, SH: PRED MED GY, CNKY, SLI SMTH-SLI SLTY, FRM, SCAT GRY-OFF WHI SS STRNGRS THRU OUT, SCAT BRI YEL/PALE GRN FLUOR, V PR FNT MLKY WHI/PALE GRN CUT, NO RES RING

COUNCIL GROVE @ 3,060' MD (-131' SS)

LS: PRED BUFF-LT TAN, MTT LD TAN/BUF/LT GY, OCC OPQ BRN, V FN-MICRO FN XLN, V SNDY I.P., SUB ANG-ANG, SUB BLKY, SME HL FRAC/FRAC POR, V FN XLN, SH: PRED MED GY, CNKY, SLI SMTH-SLI SLTY, FRM, SCAT GRY-OFF WHI SS STRNGRS THRU OUT, DULL YEL/PALE GRN FLOR SCAT THRUOUT, NO CUT, NO RES RING

LS: MOTT-WHI, SLI BUFF-LT CRM, V FN-MICRO FN XLN, MSTLY BLKY-PLTY, SME CHNKY, PR-V PR INTRXLN POR, TRC HL FRAC POR, W/SH: MED GRY-LT GRY, FN-MED TXT, SLI SLTY TXT, MSTLY FRM-MOD FRM, SME BRTL, SCAT MICRO MICA, SLI CALC, SCAT V FN GRN SS STRNGS I.P., DULL WHI/YEL FLUOR, NO CUT, NO RES RING

0 PRESLEY OPERATING LLC SVT #1 - 3 500

KD CG 211 U.
KD CG 110 U.
KD CG 117 U.
KD CG 81 U.
FG 106 U.
KD CG 105 U.
KD CG 104 U.
KD CG 87 U.

SAMPLE @ 3,150' MD

WOB: 10K
RPM: 90
SPM: 60
PP: 725

DEV SVY @ 3,238'
MD - 0.5°

MUD WT: 9.2
VIS: 45
LCM: #2

MUD WT: 9.2
VIS: 45
LCM: #2

WOB: 11K
RPM: 90
SPM: 60
PP: 750

0 ROP (min/ft) 10
0 G/R (API) 150

3200
3250
3300
3350
3400

SH: PRED DRK-MED GRY, OCC LT GRY, SC AT TRC BLK, FN-MED FN TXT, SLI SLTY, MSTLY FRM-MOD FRM, SLI SFT I.P., V CALC, TRC LOOSE-INTRBD PYR, MICRO MICA, W/LS: CRM-LT TAN, OCC DRK TAN-BUFF, TRC MTTLD, MED FN-V FN XLN, TRC MICRO FN XLN, BLKY-CHNKY, SCAT LOOSE-SLI INTRBDD SS STRNGRS THRU OUT, PR INTRGRNLR POR, V PR INTRXLN POR, TRC HL FRAC POR, V DULL GRNSH/YEL FLUOR, NO CUT, NO RES RING

NEVA @ 3,250' MD (-321' SS)

LS: TAN-CRM, SME MTTLD CRM/OPQ BRN/OFF WHT, V FN-MICRO FN XLN, FRM-V FRM, OCC HD, SME SNDY, ARG-V ARG INCL, BLKY-CNKY, OCC PLTY-SUB ANG, PR INTRXLN POR, SS: PRED OFF WHT-TRNSL, SME WHT-DRTY WHT, OCC GLAU INCL, OCC SH INCL, MED-FN GRNS, GD SRT/CONSL, V FRM, SH: MED-DK GY, SME LT GY, OCC BLK, CNKY-SUB BLKY, SME BLKY-PLTY, PRED SLTY, SME SLI SMTH, SCAT DULL YEL/GRNSH FLUOR, NO CUT, NO RES RING

LS: PRED BUFF-LT TAN, MTT LD TAN/BUF/LT GY, OCC OPQ BRN, V FN-MICRO FN XLN, SUBANG-ANG, BLKY, SME HL FRAC/FRAC POR, V PR INTRXLN POR, W/SH: PRED MED GY, CNKY, SLI SMTH-SLI SLTY, FRM, SCAT GRY-OFF WHI SS STRNGRS THRU OUT, V PR SCAT DULL YEL FLUOR, NO CUT, NO RES RING

LS: WHI-LT BUFF, OFF WHI-MOTTLD, V FN-MICRO FN XLN, PLTY-CHNKY, SLI ARG, TRC HL FRAC POR, PR INTRXLN POR, W/SH: MED GRY-LT GY, FN-MED TXT, SLI SNDY/SLTY TXT, FRM-MOD FRM, MICRO MICA INCLUS I.P., SLI CALC, W SS: WHI-FRSTD, LT GRY-MED GRY, BLKY-BLDRY, SLI SUBANG THRU OUT, FRM-MOD FRM, OCC FRI, V WELL CONSOL/DENSE, WELL SRTD FN-CRS TRNSLCNT QTZ GRNS, PRED SILC CMT, SME CALC CMT, PR-V PR INTRGRNLR POR, SLI PR DULL YEL/GRNSH FLUOR, NO CUT, NO RES RING

FG 79 U.

PRESLEY OPERATING LLC SVT #1 - 3

0 500

KD CG 104 U.

DUMP SAND TRAP

KD CG 76 U.

GAS SCALE CHANGE 0 - 100 U.

Scale Change

PRESLEY OPERATING LLC SVT #1 - 3

0 100

KD CG 59 U.

KD CG 38 U.

DUMP SAND TRAP

KD CG 38 U.

KD CG 23 U.

KD CG 25 U.

PRESLEY OPERATING LLC SVT #1 - 3

0 100

SAMPLE @ 3,350' MD

SAMPLE @ 3,350' MD

MUD WT: 9.1
VIS: 45
LCM: #2

MUD REPORT
Depth 3,537'
WT 9.15
VIS 43
PV 15
YP 16
GEL/18/14
API 24
CK 2/32
SOLIDS 6.0
CHL 6,000
PH 9.0
OIL/WAT. 0.0/94.0

WOB: 11K
RPM: 90
SPM: 60
PP: 750

MUD WT: 8.8
VIS: 40
LCM: #4

3450
3500
3550
3600

SH: GRY-DRK GRY, OCC D RK BRN-BLK, RGH SLTY TXT, V FN-FN TXT, SME WXY-SUBWXY, FRM-MOD FRM, SME SFT, BLKY-C HNKY, SME PLTY-FLKY, W/SS: CLR-TRNSLCNT, SME TN-DK TN, OCC BRN, FN-V FN GRNS, SME MICRO FN GRNS, RND-SUBRND, FRM-MOD FRM, SME BRTL, DUL-SLI BRI WHI/GRNSH FLUOR, NO CUT, NO RES RING

KD CG 31 U.

KD CG 26 U.

WABAUNSEE @ 3,461' MD (-532' SS)

FG 28 U.

LS: CRM -TAN, SME LT GRY-DK TN, SME 0FF WHT-CLR, FN TO V FN XLN, SUBANG-ANG, VRY FRM TO FRM, SME HRD, OCC BRTL, BLKY-C HNKY, W/SH: PRED LT-MED GRY, OCC V DRK GRY, TRC BLK, SUB WXY, SLI FRM-FRM, OCC SFT, PRED FLKY-CHNKY, SCAT IN TER BED ED LS, TRC SS STRNGRS THRU OUT, SLI DULL-BRI WHI/GRN FLUOR, NO CUT, NO RES RING

KD CG 34 U.

DUMP SAND TRAP

KD CG 25 U.

DUMP SAND TRAP

LS: PRED GY-OFF WH, OCC DK BRN, SME CRM-TN, VF-FN XLN, MICRO FN XLN THRU OUT, PRED CHNKY, PRED MOD FRM-FRM, SME V FRM, PR POR, W/SS: PRED OFF WHT-WHT, SME CLR-TRANSLU, MOD-RGH GRN, SME FN GRN THRU OUT, UNCONSOL, SBANG-SBRD, PR-FR SRT, CALC CMT, W/SH: PRED DK GY, SME MED GY, VF-FN TXT, PRED MOD FRM-FRM, SME V FRM, PRED CHNKY, SME PLTY, FNT DULL-SLI BRI WHI FLUOR, NO CUT, NO RES RING

KD CG 18 U.

KD CG 7 U.

SAMPLE @ 3,550' MD

0 ROP (min/ft) 10
0 G/R (API) 150

0 PRESLEY OPERATING LLC SVT #1 - 3 100

SH: PRED LT GY, SME MD GY, MOD FRM TO FRM, SLTY TXT TO FN TXT, BLKY TO PLTY, SS: WHT TO

KD CG 9 U.

LCM: #4

OFF WHT, VF TO FN GRN, TR MED GRN, CONSOL, SME UNCONSOL GRNS, SB ANG, SB RD, FR SRT, SLI CALC, LS: OFF WHT TO CRM, FN TO V FN XLN, FLKY, MOD FRM TO FRM, PR FRAC POR, SCAT DULL-SME BRI WHI/GRNSH FLUOR, NO CUT, NO RES RING

KD CG 9 U.

3650

KD CG 8 U.

LS: PRED TAN-CRM, SME OFF WHT -WHT THRU OUT, FN-VF XLN, PR XLN POR, MOD FRM-FRM, SME HRD THRU OUT, SH: PRED DK GY, SME MED-LT GY THRU OUT, VF-FN TXT, MED-HRD, SME SFT THRU OUT, PRED CHNKY, OCC SS STRNGRS THRU OUT,SME SCAT YEL/GRN FLUOR, NO CUT, NO RES RING

KD CG 11 U.

3700

MUD WT: 9.1+
VIS: 46
LCM: #2

KD CG 10 U.

SAMPLE @ 3,750' MD

DEV SVY @ 3,742'
MD - 0.2°

TOPEKA @ 3,737' MD (-808' SS)

KD CG 13 U.

LS: PRED TAN-CRM, SME WHT TO OFF WHT THRU OUT, FN-VF XLN, PR XLN POR, MOD FRM-FRM, SME HRD THRU OUT, W/SH: PRED DK GY, SME MED-LT GY THRU OUT, VF-FN TXT, MED-HRD, SME SFT THRU OUT, PRED CHNKY, OCC SS STRNGRS THRU OUT, FNT GRN FLUOR, NO CUT, NO RES RING

3750

KD CG 7 U.

WOB: 11K
RPM: 90
SPM: 60
PP: 775

0 ROP (min/ft) 10
0 G/R (API) 150

0 PRESLEY OPERATING LLC SVT #1 - 3 100

MUD WT: 8.7
VIS: 45
LCM: #4

LS: PRED TAN-CRM, SME LT BRN THRU OUT, FN-VF XLN, FR XLN POR, MOD FRM-FRM, SME HRD THRU OUT, W/SH: PRED DK GY, SME MED-LT GY THRU OUT, VF-FN TXT, MED-HRD, OCC SFT, PRED CHNKY, SME BLKY, OCC SS STRNGRS THRU OUT, V PR DULL WHI FLUOR, NO CUT, NO RES RING

KD CG 9 U.

3800

KD CG 5 U.

MUD WT: 9.0
VIS: 45
LCM: #4

MUD WT: 9.0
VIS: 45
LCM: #4

WOB: 12K
RPM: 90
SPM: 60
PP: 800

0 ROP (min/ft) 10
0 G/R (API) 150

3850
3900
3950
4000
4050

SH: DRK GRY-GRY,SME BLK-DRK BRN, FN-V FN TXT, SLI SILTY TXT, ABNDNT WXY-SUBWXY, MOD FRM-FRM, SCAT V FRM, OCC SFT, BLKY-CHNKY, SCAT SS STRNGRS THRU OUT, W/LS: LT TAN-CRM, SME DK TN, V FN-MICRO FN XLN, SME FN XLN, FRM-MOD FRM, SCAT HD, OCC BRTL, V FNT DULL GRNSH FLOUR, GRN/WHT MLKY CUT, PR-NO RES RING

LS: PRED LT GY-MED GY, CRM-TAN, OCC OFF WHT-CLR, CHLKY, SME SUBCHLKY, SLI FRM-FRM, SME MOD SFT, VFN-FN XLN, DULL EARTHY,ARG IP, SME VRY AREN, GLAUC, SME MICA; SH: PRED MED GY- DK GY, OCC BRN, SILKY, OCC SMTH, VFN-FN TXT, SLI FRM-FRM, SLTY, AREN, CALC INCLUS, MICRO MICA, BLKY, PLTY, SS: SCAT WHT-TN, PR FLOR, WK GRN-WHT CUT, THIN RES RING

LS: PRED LT TAN-CRME, OCC OFF WHT-WHT, V FN TO FN XLN, SLI SNDY TXT, SUBANG-ANG, V FRM-HRD, SME OCC BRTL, PRED CHNKY-BLKY, W/SH: DRK GRY-BLK, SME BRN-LT BRN, SCAT LT GRY, FRM-MOD FRM, SME ERTHY SFT, FN-V FN TXT, SCAT SLI SILTY TXT, BLKY-CHNKY, W SCAT SS, NO VIS FLOR, NO CUT, NO RES RING

SH: PRED LT-MD GY, SME DK GY THRU OUT,PRED FRM-V FRM, SME MOD FRM THRU OUT, SLTY, PRED CHNKY, PLTY THRU OUT, W/SS: PRED WH-OFF WH, VF-FN GRN, SME MD GRN THRU OUT, UNCONSOL THRU OUT, SBANG-SB RD, FR SRT, ABNDNT

KD CG 6 U.
KD CG 5 U.
KD CG 7 U.
KD CG 16 U.
KD CG 16 U.
KD CG 24 U.
KD CG 14 U.

0 PRESLEY OPERATING LLC SVT #1 - 3 100

SAMPLE @ 3,950' MD

INTRBDD LS THRU OUT, CALC CMT, W/LS: PRED LT GY-CRM, VF-FN XLN, PRED FLKY, PRED MOD FRM-FRM, SME V FRM, SCAT DULL-BRI WHI/GRN FLUOR, NO CUT, NO RES RING

FG 18 U.

MUD WT: 9.0+
VIS: 47
LCM: #4

KD

4100

SH GAS 115 U.

HEEBNER SHALE @ 4,106' MD (-1,177' SS)

KD

TORONTO @ 4,126' MD (-1,197' SS)

FG 31 U.

LS: PRED GY-OFF WH, OCC DK BRN, SME CRM-TN, VF-FN XLN, MICRO FN XLN THRU OUT, PRED CHNKY, PRED MOD FRM-FRM, SME V FRM, PR INTRXLN POR, W/SH: PRED DK GY, SME MED GY, VF-FN TXT, PRED MOD FRM-FRM, SME V FRM, PRED CHNKY, SME PLTY, SCAT DULL WHI/YEL FLUOR, NO CUT, NO RES RING

4150

KD

CG 24 U.

FG 20 U.

SH: PRED LT-MD GY, SME DK GY, PRED FRM-V FRM, SME MOD FRM THRU OUT, SLTY, PRED CHNKY, PLTY THRU OUT, W/LS: PRED LT GY-CRM, OCC WHT, VF-FN XLN, PRED FLKY, PRED MOD FRM-FRM, OCC V FRM, PR INTRXLN POR, FNT SCAT WHI/GRNSH FLUOR, NO CUT, NO RES RING

MUD WT: 9.0+
VIS: 47
LCM: #4

KD

CG 22 U.

WOB: 11K
RPM: 90
SPM: 60
PP: 825

0 ROP 4 min/ft 10
0 G/R (API) 150

4200

0 PRESLEY OPERATING LLC SVT #1 - 3 100

FG 43 U.

LANSING A @ 4,207' MD (-1,278' SS)

CG / FG 80 U.

KD

LS: PRED TAN-CRM, SME OFF WHT-WHT THRU OUT, FN-VF XLN, MOD FRM-FRM, SME HRD THRU OUT, SH: PRED DK GY, SME MED-LT GY THRU OUT, VF-FN TXT, MED-HRD, SME SFT THRU OUT, PRED CHNKY, OCC SS STRNGRS THRU OUT, PR INTR XLN POR, TRC HL FRAC POR, SME SCAT DULL WHI-BRI GRN FLUOR, NO CUT, NO RES RING

DEV SVY @ 4,249'
MD - 0.7°

4250

KD

CG 42 U.

LANSING B @ 4,252' MD (-1,323' SS)

FG 35 U.

LS: MSTLY WHI-OFF WHI, SCAT TAN-LT CRM, OCC MTTLD THRU OUT, FN-VF XLN, PRED MOD FRM-FRM, OCC HRD THRU OUT, SCAT MED-DRK GRY SH I.P., TRC SCAT SS STRNGRS, V PR INTRXLN POR, TRAC HL FRAC POR, PR DULL-SLI BRI WHI FLUOR, NO CUT, NO RES RING

CLEAN SUCTION PIT

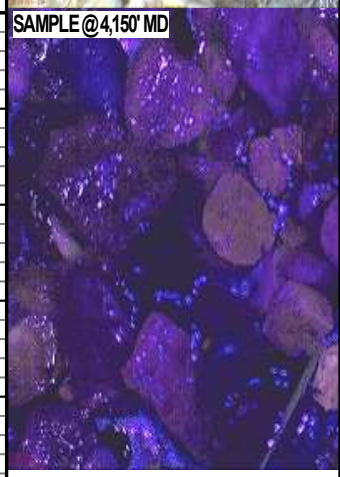
MUD WT: 9.0+
VIS: 50
LCM: #4

KD

CG 53 U.

SAMPLE @ 4,150' MD

SAMPLE @ 4,150' MD



MUD WT: 9.0
VIS: 48
LCM: #4

WOB: 11K
RPM: 90
SPM: 60
PP: 850

0 ROP (min/ft) 10
0 G/R (API) 150

MUD REPORT
Depth 4,452'
WT 9.05
VIS 38
PV 13
YP 9
GEL /35/22
API 9
CK 1/32
SOLIDS 5.3
CHL 5,000
PH 10.0
OIL/WAT. 0.0/94.7

MUD WT: 9.0+
VIS: 43
LCM: #4

4300
4350
4400
4450
4500

LANSING C @ 4,284' MD (-1,355' SS)

LS: PRED GY-OFF WH, DRK BRN SCAT THRU OUT,SME CRM, VF-FN XLN, MICRO FN XLN THRU OUT, PRED CHNKY, PRED MOD FRM-FRM, SME V FRM,PR POR, W/SS: PRED WH-OFF WH, MD-RGH GRN, SME FN GRN THRU OUT, UNCONSOL THRU OUT, SBANG-SB RD, PR-FR SRT, CALC CMT, W/SH: PRED DK GY, SME MED GY, VF-FN TXT, PRED MOD FRM-FRM, SME V FRM THRU OUT, PRED CHNKY, SME PLTY, SCAT BRI WHI/GRNSH FLUOR, NO CUT, NO RES RING

LANSING D @ 4,331' MD (-1,402' SS)

LS: PRED TAN-CRM, SME DRK TAN-BUFF, OCC WHI-OFF WHI, CHLKY THRU OUT, FN-VF XLN, FR XLN POR, MOD FRM-FRM, SME HRD THRU OUT, SH: PRED DK GY, SME MED-LT GY THRU OUT, VF-FN TXT, MED-HRD, OCC SFT , PRED CHNKY, SME BLKY, OCC SS STRNGRS THRU OUT, SCAT PR DULL WHI-BRI GRN FLUOR, NO CUT, NO RES RING

LANSING E @ 4,375' MD (-1,446' SS)

LS: PRED TAN-MTTLD, SME WHI-OFF WHT THRU OUT, CHLKY, FN-VF XLN, OCC MICRO FN XLN, SLI DNSE, MOD FRM-FRM, ABNDNT SFT/GUMMY, OCC SS STRNGRS THRU OUT, PR INTRXLN POR, SCAT PR-SLI FR BRI YEL/GRN FLUOR, NO CUT, NO RES RING

LANSING F @ 4,430' MD (-1,501' SS)

LANSING G @ 4,451' MD (-1522' SS)

LS: PRED GY-OFF WH, OCC LT TAN-MTTLD, SCAT BUFF, SME CRM-TN, VF-FN XLN, MICRO FN XLN THRU OUT, PRED CHNKY, PRED MOD FRM-FRM, SME V FRM, PR POR, W/SS: PRED OFF WHT-WHT, SME CLR-TRANSLU, MOD-RGH GRN, SME FN GRN THRU OUT, UNCONSOL, SUBANG-SBRD, PR-FR SRT, CALC CMT, SCAT PR-FR BRI GRNSH/WHI FLUOR, NO CUT, NO RES RING

0 PRESLEY OPERATING LLC SVT #1 - 3 100

CHANGE VALVE ON MUD PUMP

KD CG 18 U.

KD CG 10 U.

KD CG 10 U.

KD CG 15 U.

FG 11 U.

KD CG 10 U.

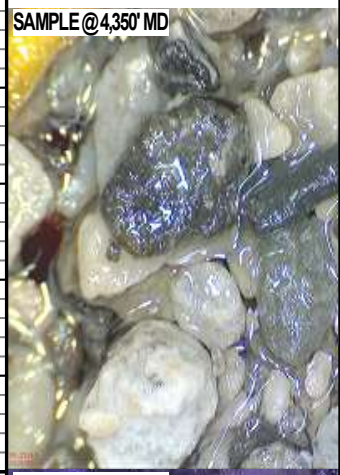
DUMPING SAND TRAP / CLEANING PIT

KD

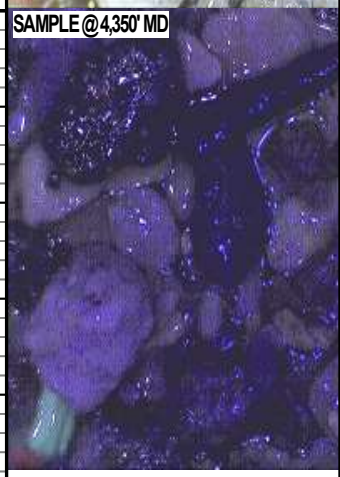
DTG 20 U.

FG 19 U.

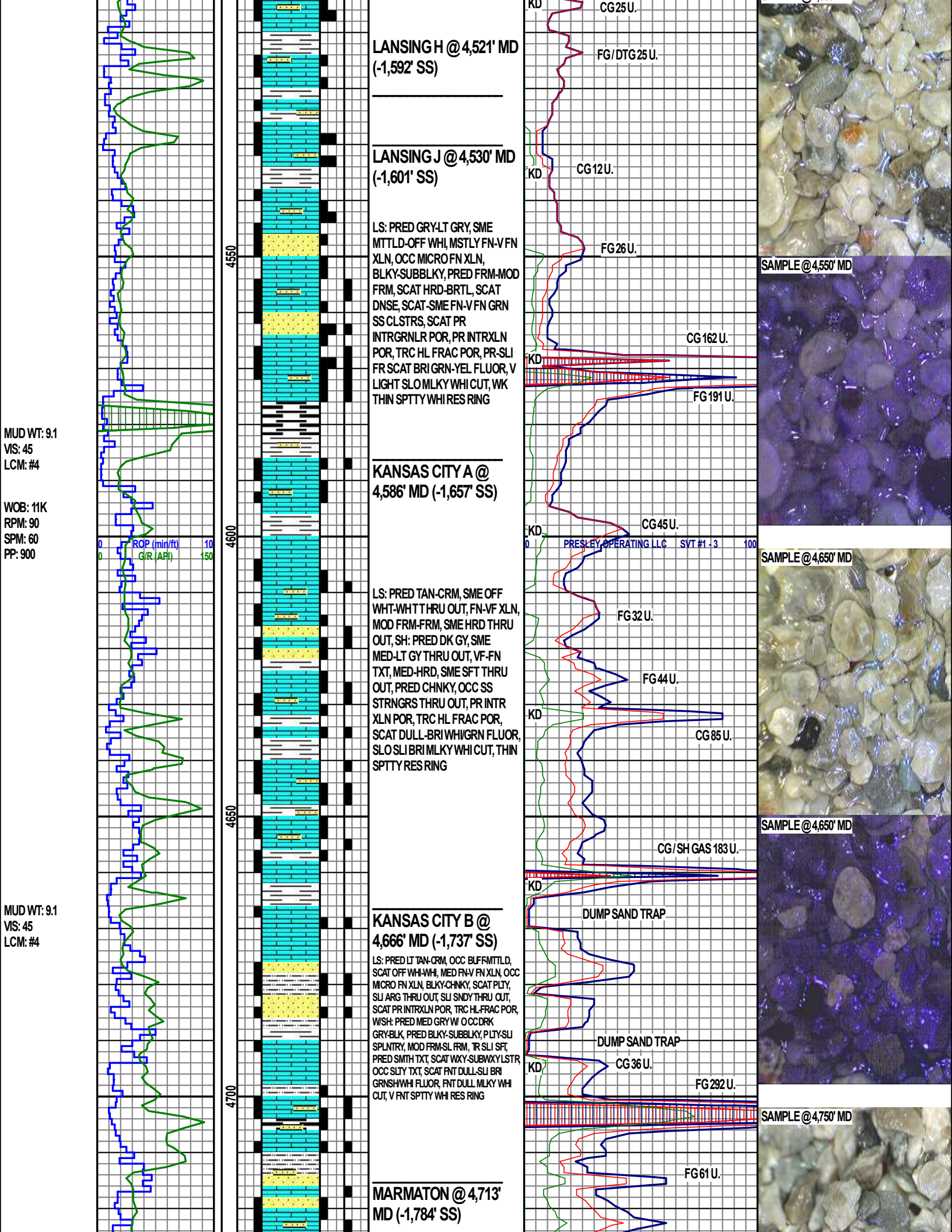
SAMPLE @ 4,350' MD



SAMPLE @ 4,350' MD



SAMPLE @ 4,550' MD


LANSING H @ 4,521' MD (-1,592' SS)
LANSING J @ 4,530' MD (-1,601' SS)
LS: PRED GRY-LT GRY, SME MTTLD-OFF WHI, MSTLY FN-V FN XLN, OCC MICRO FN XLN, BLKY-SUBBLKY, PRED FRM-MOD FRM, SCAT HRD-BRTL, SCAT DNSE, SCAT-SME FN-V FN GRN SS CLSTRS, SCAT PR INTRGRNLR POR, PR INTRXLN POR, TRC HL FRAC POR, PR-SLI FR SCAT BRI GRN-YEL FLUOR, V LIGHT SLO MLKY WHI CUT, WK THIN SPTTY WHI RES RING
KANSAS CITY A @ 4,586' MD (-1,657' SS)
LS: PRED TAN-CRM, SME OFF WHT-WHT THRU OUT, FN-VF XLN, MOD FRM-FRM, SME HRD THRU OUT, SH: PRED DK GY, SME MED-LT GY THRU OUT, VF-FN TXT, MED-HRD, SME SFT THRU OUT, PRED CHNKY, OCC SS STRNGRS THRU OUT, PR INTR XLN POR, TRC HL FRAC POR, SCAT DULL-BRI WHI/GRN FLUOR, SLO SLI BRI MLKY WHI CUT, THIN SPTTY RES RING
KANSAS CITY B @ 4,666' MD (-1,737' SS)
LS: PRED LT TAN-CRM, OCC BUFF-MTTLD, SCAT OFF WHI-WHI, MED FN-V FN XLN, OCC MICRO FN XLN, BLKY-CHNKY, SCAT PLTY, SLI ARG THRU OUT, SLI SNDY THRU OUT, SCAT PR INTRXLN POR, TRC HL-FRAC POR, W/SH: PRED MED GRY W/ OCC DRK GRY-BLK, PRED BLKY-SUBBLKY, PLTY-SLI SPLNTRY, MOD FRM-SL FRM, TR SLI SFT, PRED SMTH TXT, SCAT WXY-SUBWXY LSTR, OCC SLTY TXT, SCAT FNT DULL-SLI BRI GRNSH/WHI FLUOR, FNT DULL MLKY WHI CUT, V FNT SPTTY WHI RES RING
MARMATON @ 4,713' MD (-1,784' SS)
MUD WT: 9.1
VIS: 45
LCM: #4
WOB: 11K
RPM: 90
SPM: 60
PP: 900
MUD WT: 9.1
VIS: 45
LCM: #4
0 ROP (min/ft) 10
0 G/R (API) 150
4550
4600
4650
4700
KD
CG 25 U.
FG / DTG 25 U.
CG 12 U.
FG 26 U.
CG 162 U.
FG 191 U.
CG 45 U.
PRESLEY OPERATING LLC SVT #1 - 3
FG 32 U.
FG 44 U.
CG 85 U.
CG / SH GAS 183 U.
DUMP SAND TRAP
DUMP SAND TRAP
CG 36 U.
FG 292 U.
FG 61 U.
SAMPLE @ 4,550' MD
SAMPLE @ 4,650' MD
SAMPLE @ 4,650' MD
SAMPLE @ 4,750' MD

DEV SVY @ 4,756'
MD - 0.2°

MUD WT: 9.1
VIS: 45
LCM: #4

WOB: 11K
RPM: 90
SPM: 60
PP: 950

MUD WT: 9.0
VIS: 45
LCM: #4

MUD WT: 9.1
VIS: 41
LCM: #6

0 ROP (min/ft) 10
0 G/R (API) 150

4750
4800
4850
4900

LS: PRED LT-MED GRY, OCC CRM-OFF WHI, MTTLD, SLI CHLKY, FN-VF XLN, OCC MICRO FN XLN, SLI DNSE, MOD FRM-FRM, TRC SFT/GUMMY, OCC SS STRNGRS THRU OUT, PR INTRXLN POR, SCAT PR-SLI FR BRI YEL/GRN FLUOR, SLO SLI BRI MLKY WHI/GRNSH CUT, V THIN SPTTY GRN RES RING

LS: PRED LT GRY-MED GRY, SME DRK GRY, SME WHI-OFF WHT THRU OUT, FN-VF XLN, PR XLN POR, MOD FRM-FRM, SME HRD THRU OUT, SH: PRED DK GY, SME MED-LT GY TRC SCAT GRN-PALE GRN, VF-FN TXT, MED-HRD, SME SFT THRU OUT, PRED CHNKY, OCC SS STRNGRS THRU OUT, FNT GRN FLUOR, V WK-DULL MLKY GRN/WHT CUT, FNT THIN WHI/GRNSH RES RING

LS: PRED LT TAN- TAN, OCC OFF WHT-WHT, SME CRM, V FN-FN XLN, MICRO FN XLN I.P., FRM- MOD FRM, SME HRD, ANG, SCAT TRNSLU- OPQ SS GRNS THRU OUT, PP VUG POR, TR HL FRAC POR, INGRNLR POR, ABDNDT BLK-DRK GRY SH SCAT THRU OUT, DULL SCAT FLUOR, WK MLKY WHI CUT, SPTTY WHI RES RING

PAWNEE @ 4,814' MD (-1,885' SS)

LS: CRM-TAN, SME LT GRY-DKTN, SME OFF WHT-CLR, FN-V FN XLN, SUB ANG-ANG, V RY FRM-FRM, SME HRD, OCC BRTL, BLKY-CHNKY, W/SH: PRED LT/MED GRY, OCC V DRK GRY, TRC BLK, SUB WXY, SLI FRM-MOD FRM, OCC SFT, PRED FLKY-CHNKY, SCAT GRY-MED GRY SS STRNGRS THRU OUT, SCAT BRI-SME DULL WHI-GRN FLUOR, PR MLKY WHI CUT, V THIN SPTTY WHI RES RING

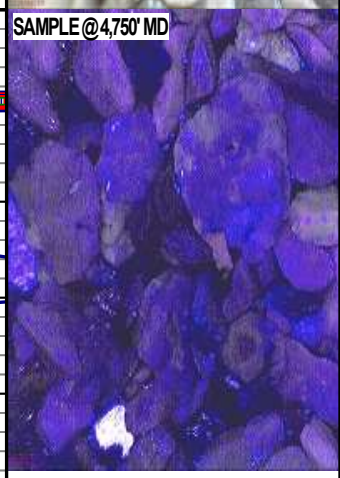
FT SCOTT @ 4,852' MD (-1,923' SS)

CHEROKEE @ 4,867' (-1,938' SS)

LS: PRED BUFF-LT TAN, SME MTTLD CRM/TAN/BUFF, OCC LT TAN-CRM, V FN-MICRO FN XLN, FRM-HD, SME SNDY, ARG, PLTY-SUB ANG, SME SUB BLKY-ANG, PRINT RXL N POR, SS: PRED OFF WHT-TRNSL, DRTY WHT-WHT, OCC ARG INCL, TR GLAUC INCL, CNKY-SUB BLKY, OCC SUB RND, TR SUB ANG, MED-FN GRNS, WELL SRT/CONSL, MED-DK GY SLTY SH, SCAT DULL YEL-SLI BRI WHI FLUOR, SLO MLKY WHI CUT, NO RES RING

KD
CG 70 U.
FG 339 U.
JETTING PITS
CG 514 U.
FG 136 U.
CG / DTG
86 U.
PRESLEY OPERATING LLC SVT #1 - 3
FG 158 U.
FG 154 U.
FG 146 U.
CG 132 U.
FG 56 U.
FG 57 U.
FG 49 U.
CG 106 U.

SAMPLE @ 4,750' MD



SAMPLE @ 4,950' MD

WOB: 12K
RPM: 90
SPM: 60
PP: 1000

MUD WT: 9.1
VIS: 44
LCM: #6

MUD REPORT
Depth 5,043'
WT 9.1
VIS 44
PV 14
YP 13
GEL 41/27/
API 7
CK 1/32
SOLIDS 5.66
CHL 3,500
PH 10.5
OIL/WAT. 0.0/94.34

MUD WT: 9.1
VIS: 48
LCM: #6

0 ROP (min/ft) 10
0 G/R (API) 150

4950
5000
5050
5100
5150

LS: PRED GY-OFF WHT, SME BRN, OCC TN-CRM, VF-FN XLN, MICRO FN XLN THRU OUT, PRED CHNKY, MOD FRM-FRM, OCC V FRM, PR INTRXLN POR, TRC HL FRAC POR, W/SH: PRED DK GRY-ED GRY, VF-FN T XT, SCAT-ABNDNT BLK, MOD FRM-FRM, SME V FRM THRU OUT, PRED CHNKY-PLTY, TRC DULL GLD FLUOR, NO CUT, NO RES RING

KD

CG 57 U.

FG 44 U.

CG 66 U.

KD

LS: PRED OFF WHI-CRM, SCAT MTTLD-WHI THRU OUT, OCC LT TAN, MED FN-VF XLN, SME MICRO FN XLN, MOD FRM-FRM, SME HRD THRU OUT, OCC DNS, PR-V PR INTRXLN POR, W/SH: PRED DK GY-BLK, SME MED-LT GY THRU OUT, VF-FN TXT, MOD FRM-FRM, SME SFT I.P., PRED CHNKY, TRC SS STRNGRS THRU OUT, TRC BRI YEL/GRN FLUOR, WK SLO PR WHI CUT, NO RES RING

0 PRESLEY OPERATING LLC SVT #1 - 3 100

FG / DTG 51 U.

KD

DUMPING PITS / CLEANING SAND TRAP

LS: PRED LT GRY-MED GRY, CRM-TAN, OCC OFF WHT-MTTLD, SLI CHLKY, SLI FRM-FRM, OCC HRD, SLI DNS, V FN-FN XLN, SME MICRO XLN, SLI ARG I.P, V PR-PR I NTRXLN POR, W/SH: PRED MED GY-DK GY, ABNDNT BLK, V FN-FN TXT, SME SLI SMTH TXT, PRED FRM-MOD FRM, AREN, CALC INCLUS, SCAT MICRO MICA, BLKY-PLTY, SCAT BRI GRN-WHI FLUOR, SLO WK MLKY WHI CUT, THIN SPTTY WHI RES RING

KD

FG 54 U.

ATOKA SH @ 5,062' MD (-2,133' SS)

SH: PRED DRK GRY-BLK, OCC LT GRY, ABNDNT BLK CARB, V FN-FN TXT, SUBWXY-WXY LSTR, MOD FRM-FRM, SME SFT MED-FRM, MSTLY CHNKY-BLKY, W LS: PRED CRM-LT TAN, MTTLD, SME TAN-BUFF, V FN-MICRO FN XLN, SME FN XLN, FRM-MOD FRM, SCAT HD, OCC BRTL, PR-V PR INTRXLN POR, TRC HL FRAC POR, NO FLUOR, NO CUT, NO RES RING

KD

CG 65 U.

SH GAS 407 U.

KD

CG 561 U.

FG 161 U.

MORROW @ 5,109' MD (-2,180' SS)

FG 98 U.

KD

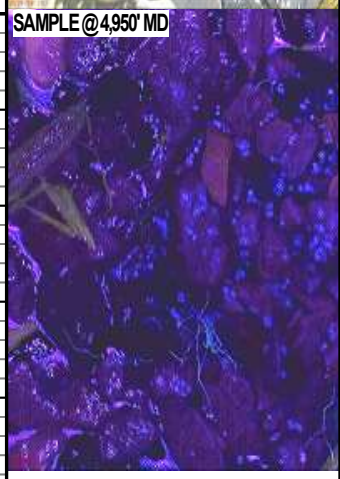
CG 557 U.

FG 101 U.

SH: PRED DRK GRY-BLK, OCC MED GRY-GRY, PRED FN-V FN TXT, TRC SLI SLTY TXT, OCC WXY-SUBWXY, MOD FRM-FRM, SME SLI SFT, W/LS: OFF WHI-LT GRY, SC AT CRM-LT TAN, MTTLD, V FN-MICRO FN XLN, OCC FN XLN, MSTLY CHNKY-BLKY, FRM-MOD FRM, OCC HRD, PR-V PR INTRLXLN POR, NO FLUOR

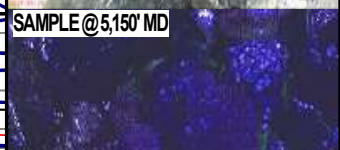
FG 112 U.

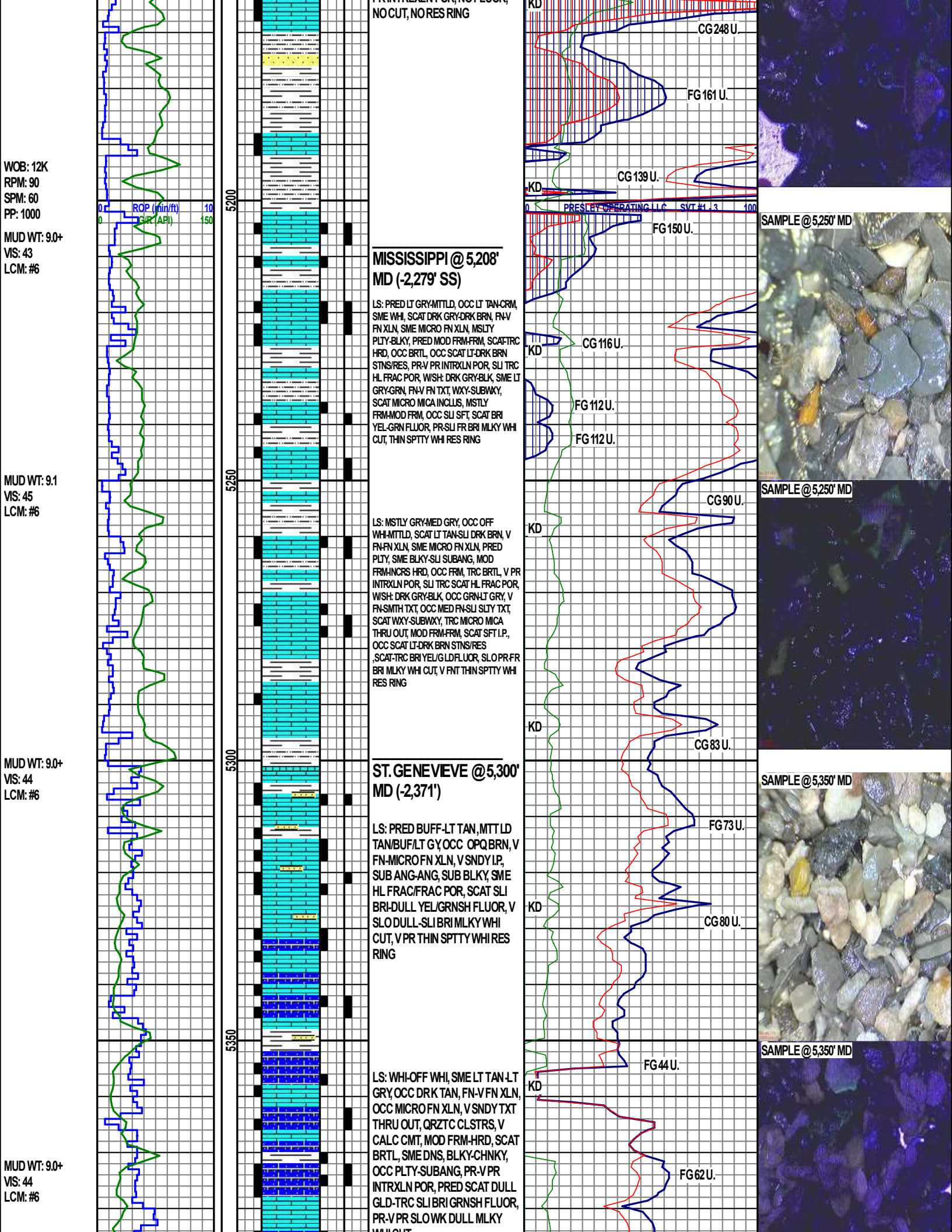
SAMPLE @ 4,950' MD



SAMPLE @ 5,150' MD

SAMPLE @ 5,150' MD




NO CUT, NO RES RING
KD
CG 248 U.
FG 161 U.
CG 139 U.
KD
WOB: 12K
RPM: 90
SPM: 60
PP: 1000
0
ROP (min/ft)
10
0
GR (API)
150
5200
0
PRESLEY OPERATING LLC SVT #1 - 3
100
FG 150 U.
SAMPLE @ 5,250' MD
MUD WT: 9.0+
VIS: 43
LCM: #6
MISSISSIPPI @ 5,208' MD (-2,279' SS)
LS: PRED LT GRY-MTTLD, OCC LT TAN-CRM, SME WHI, SCAT DRK GRY-DRK BRN, FN-V FN XLN, SME MICRO FN XLN, MSLTY PLTY-BLKY, PRED MOD FRM-FRM, SCAT-TRC HRD, OCC BRTL, OCC SCAT LT-DRK BRN STNS/RES, PR-V PR INTRXLN POR, SLI TRC HL FRAC POR, W/SH: DRK GRY-BLK, SME LT GRY-GRN, FN-V FN TXT, WXY-SUBWXY, SCAT MICRO MICA INCLUS, MSTLY FRM-MOD FRM, OCC SLI SFT, SCAT BRI YEL-GRN FLUOR, PR-SLI FR BRI MLKY WHI CUT, THIN SPTTY WHI RES RING
CG 116 U.
KD
FG 112 U.
FG 112 U.
MUD WT: 9.1
VIS: 45
LCM: #6
5250
CG 90 U.
SAMPLE @ 5,250' MD
LS: MSTLY GRY-MED GRY, OCC OFF WHI-MTTLD, SCAT LT TAN-SLI DRK BRN, V FN-FN XLN, SME MICRO FN XLN, PRED PLTY, SME BLKY-SLI SUBANG, MOD FRM-INCRS HRD, OCC FRM, TRC BRTL, V PR INTRXLN POR, SLI TRC SCAT HL FRAC POR, W/SH: DRK GRY-BLK, OCC GRN-LT GRY, V FN-SMTH TXT, OCC MED FN-SLI SLTY TXT, SCAT WXY-SUBWXY, TRC MICRO MICA THRU OUT, MOD FRM-FRM, SCAT SFT I.P., OCC SCAT LT-DRK BRN STNS/RES ,SCAT-TRC BRI YEL/G LD FLUOR, SLO PR-FR BRI MLKY WHI CUT, V FNT THIN SPTTY WHI RES RING
KD
CG 83 U.
MUD WT: 9.0+
VIS: 44
LCM: #6
5300
ST. GENEVIEVE @ 5,300' MD (-2,371')
SAMPLE @ 5,350' MD
LS: PRED BUFF-LT TAN ,MTT LD TAN/BUF/LT GY, OCC OPQ BRN, V FN-MICRO FN XLN, V SNDY I.P., SUB ANG-ANG, SUB BLKY, SME HL FRAC/FRAC POR, SCAT SLI BRI-DULL YEL/GRNSH FLUOR, V SLO DULL-SLI BRI MLKY WHI CUT, V PR THIN SPTTY WHI RES RING
FG 73 U.
KD
CG 80 U.
5350
FG 44 U.
SAMPLE @ 5,350' MD
KD
MUD WT: 9.0+
VIS: 44
LCM: #6
LS: WHI-OFF WHI, SME LT TAN-LT GRY, OCC DRK TAN, FN-V FN XLN, OCC MICRO FN XLN, V SNDY TXT THRU OUT, QRZTC CLSTRS, V CALC CMT, MOD FRM-HRD, SCAT BRTL, SME DNS, BLKY-CHNKY, OCC PLTY-SUBANG, PR-V PR INTRXLN POR, PRED SCAT DULL GLD-TRC SLI BRI GRNSH FLUOR, PR-V PR SLO WK DULL MLKY
FG 62 U.

WHI CUT

WOB: 12K
RPM: 90
SPM: 60
PP: 1000

0 ROP (min/ft) 10
0 G/R (API) 150

5400

KD

CG 78 U.

0 PRESLEY OPERATING LLC SVT #1 - 3 100

FG 84 U.

LS: PRED BUFF-LT TAN OCC CRM-OFF WHI, SME SCAT WHI, TRC BRN SCAT THRU OUT, VF-FN XLN, OCC MICRO FN XLN THRU OUT, PRED CHNKY, SCAT PLTY, PRED MOD FRM-FRM, SME V FRM-TRC HRD, SCAT PR INTRXLN POR, OCC-TRC HL FRAC POR, TRC BRI GRN-DULL GLD FLOUR, SLO DULL WK MLKY WHI CUT, THIN SPTTY WHI RES RING

KD

CG 60 U.

MUD WT: 9.1+
VIS: 49
LCM: #4

FG 98 U.

5450

LS: PRED TAN-CRM, SME OFF WHT-WHT THRU OUT, FN-VF XLN, MOD FRM-FRM, SME HRD THRU OUT, SLI DOLC I.P., SME PR INTRXLN POR, SLI TRC HL FRAC POR, SCAT-TRC BRI YEL/GRN FLUOR, PR FNT DULL MLKY WHI CUT, V THIN WHI SPTTY RES RING

KD

FG 85 U.

MUD WT: 9.2
VIS: 55
LCM: #4

KD

CG 77 U.

ST. LOUIS @ 5,484' MD (-2,555' SS)

FG 79 U.

5500

SAMPLE @ 5,550' MD

LS: PRED OFF WHI-CRM, SCAT LT TAN-TAN, BUFF, FN-V FN XLN, SCAT MICRO FN XLN, MSTLY FRM-MOD FRM, OCC HRD, TRC SFT, SLI BRTL, SCAT-SME DOLMC CLSTRS/STRNGRS, TRC HL FRAC POR, PR-SLI FR INTRXLN POR, SLI TRC BRI GRN/DUL GLD FLUOR, SLO DULL MLKY WHI CUT, PR SPTTY WHI RES RING

KD

FG 50 U.

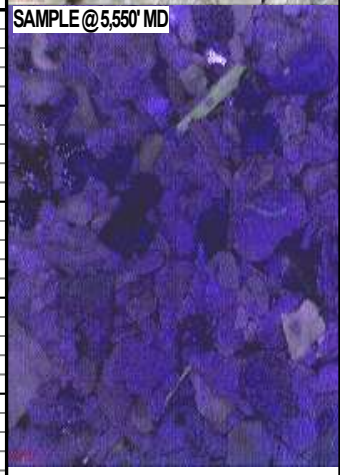
FG 51 U.

MUD WT: 9.2
VIS: 57
LCM: #4

KD

5550

SAMPLE @ 5,550' MD



LS: MSTLY OFF WHI-CRM, BUFF-LT TAN, OCC WHI, TRC BRN, V FN-MICRO FN XLN, OCC FN XLN, PRED FRM-MOD FRM, SME HRD, BRTL, SCAT TRC DOLMC I.P., PR INTRXLN POR, SCAT-TRC HL FRAC POR, V SLI TRC DULL GLD/YEL FLUOR, NO CUT, NO RES RING

FG 90 U.

KD

CG 43 U.

MUD WT: 9.2
VIS: 57
LCM: #4

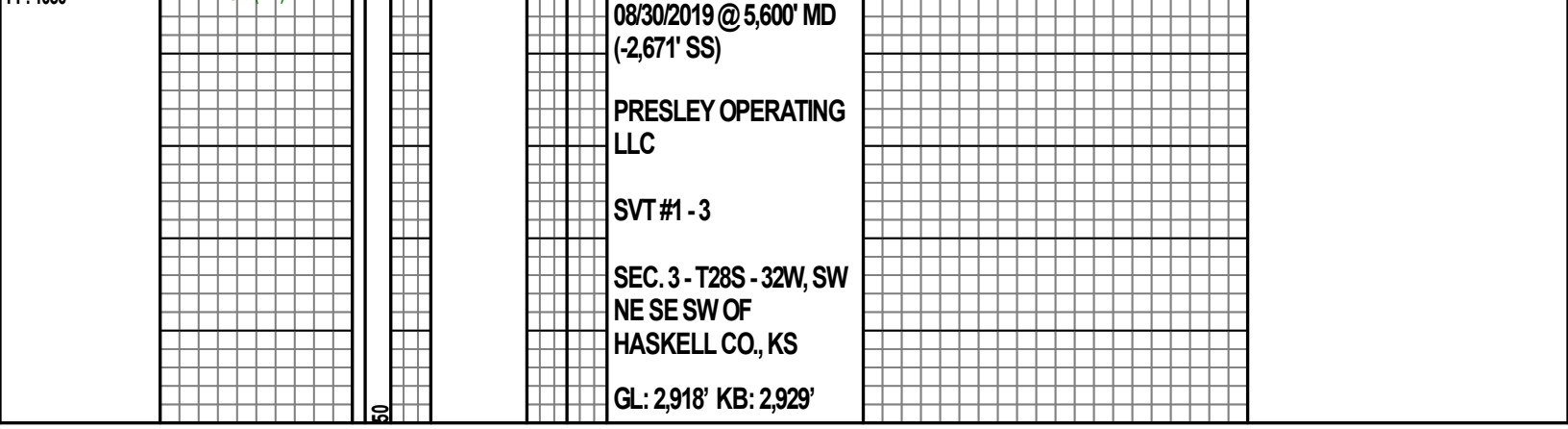
WOB: 12K
RPM: 90
SPM: 60
PP: 1050

0 ROP (min/ft) 10
0 G/R (API) 150

5600

DRILLER'S TD ON

0 PRESLEY OPERATING LLC SVT #1 - 3 100


08/30/2019 @ 5,600' MD
(-2,671' SS)
PRESLEY OPERATING
LLC
SVT #1 - 3
SEC. 3 - T28S - 32W, SW
NE SE SW OF
HASKELL CO., KS
GL: 2,918' KB: 2,929'