

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (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	K3 Oil & Gas Operating Company
Well Name	NUGEN 1-6
Doc ID	1374284

All Electric Logs Run

Neutron Density
Microlog
Sonic Array
Annular Hole Volume
Compensated Resistivity

Form	ACO1 - Well Completion
Operator	K3 Oil & Gas Operating Company
Well Name	NUGEN 1-6
Doc ID	1374284

Tops

Name	Top	Datum
Howard	1405	- 178
Topeka	1556	- 329
Heebner	2131	- 904
Stalnaker	2454	-1227
LKC	3035	-1808
Marm	3208	- 1981
Cherokee	3335	- 2108
Miss	3487	- 2260
Kinderhook	3647	- 2420
Simpson	3743	- 2516
Arbuckle	3806	- 2579



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K3 Oil & Gas
24900 Pitkin Rd Ste 305
The Woodlands, TX 77386
ATTN: Susan Rainbolt

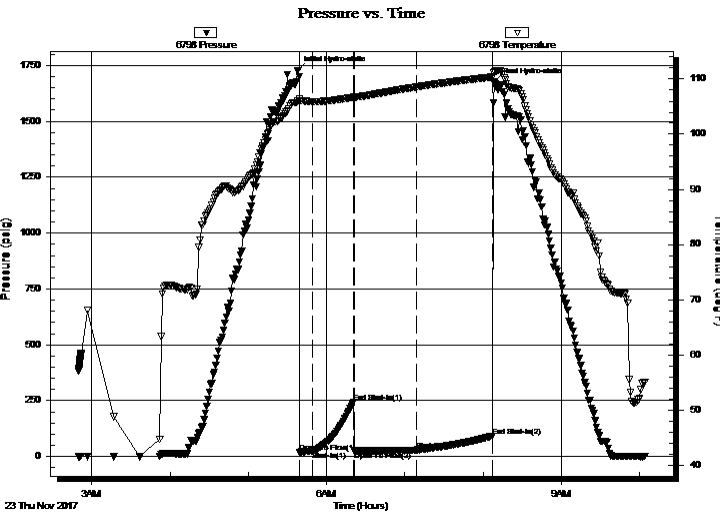
6-34S-2E Sumner
Nugen 1-6
Job Ticket: 63634 **DST#: 1**
Test Start: 2017.11.23 @ 02:49:48

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:39:33
Time Test Ended: 10:04:03
Interval: 3435.00 ft (KB) To 3480.00 ft (KB) (TVD)
Total Depth: 3480.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 1221.00 ft (KB)
1216.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6798 Inside
Press@RunDepth: 29.06 psig @ 3436.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.11.23 End Date: 2017.11.23 Last Calib.: 2017.11.23
Start Time: 02:49:49 End Time: 10:04:03 Time On Btm: 2017.11.23 @ 05:38:03
Time Off Btm: 2017.11.23 @ 08:08:48

TEST COMMENT: IF: Weak Surface Blow
IS: No Blow Back
FF: Weak Surface Blow , Dead @ 15 minutes
FS: No Blow Back



PRESSURE SUMMARY

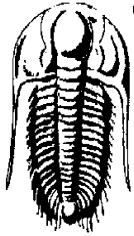
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1727.50	105.98	Initial Hydro-static
2	20.14	106.04	Open To Flow (1)
12	22.67	105.89	Shut-In(1)
43	243.93	106.72	End Shut-In(1)
44	24.50	106.68	Open To Flow (2)
91	29.06	108.57	Shut-In(2)
150	92.09	110.35	End Shut-In(2)
151	1675.24	111.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas
24900 Pitkin Rd Ste 305
The Woodlands, TX 77386
ATTN: Susan Rainbolt

6-34S-2E Sumner
Nugen 1-6
Job Ticket: 63634 **DST#: 1**
Test Start: 2017.11.23 @ 02:49:48

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 0.02 inches			

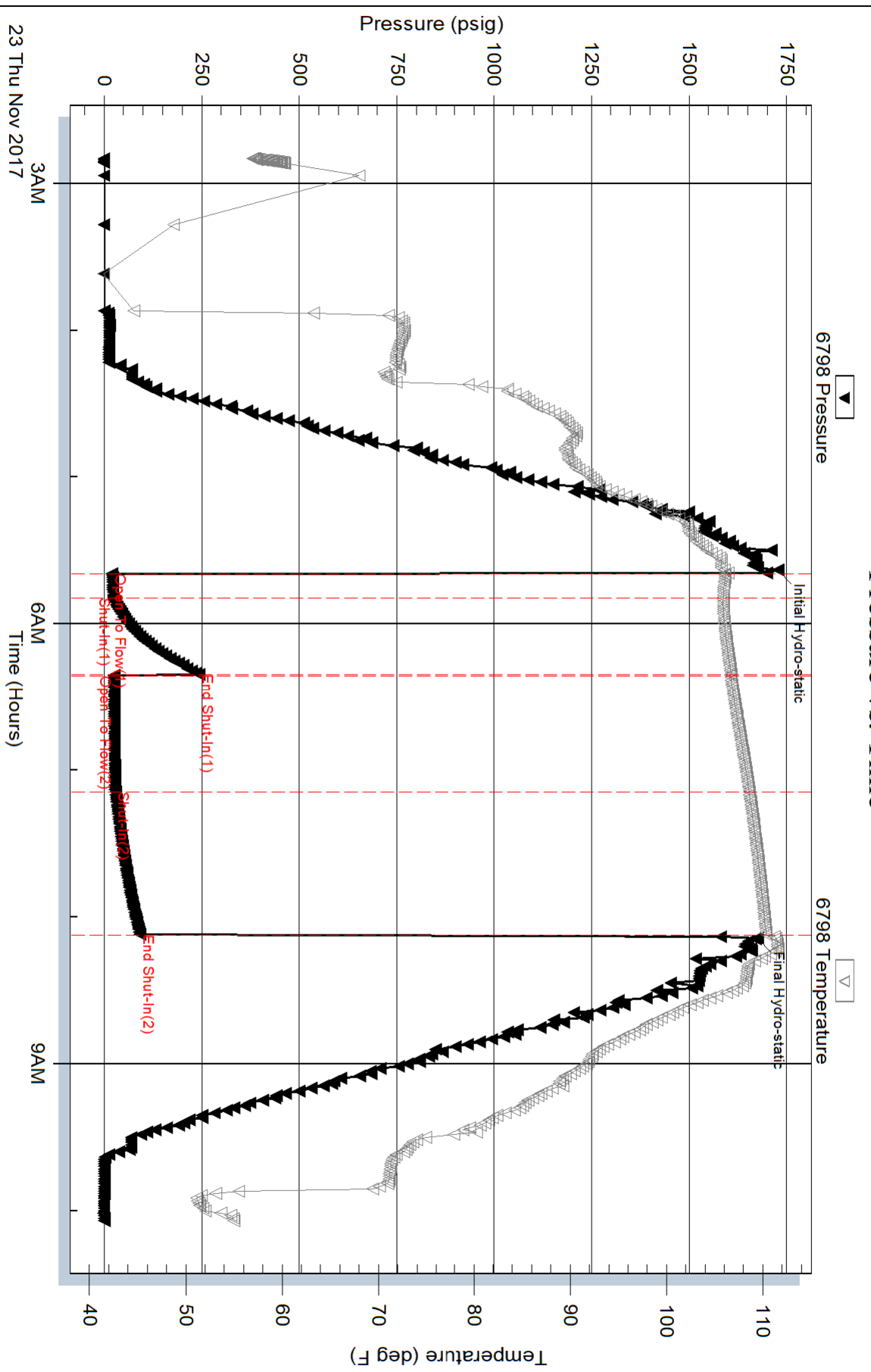
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

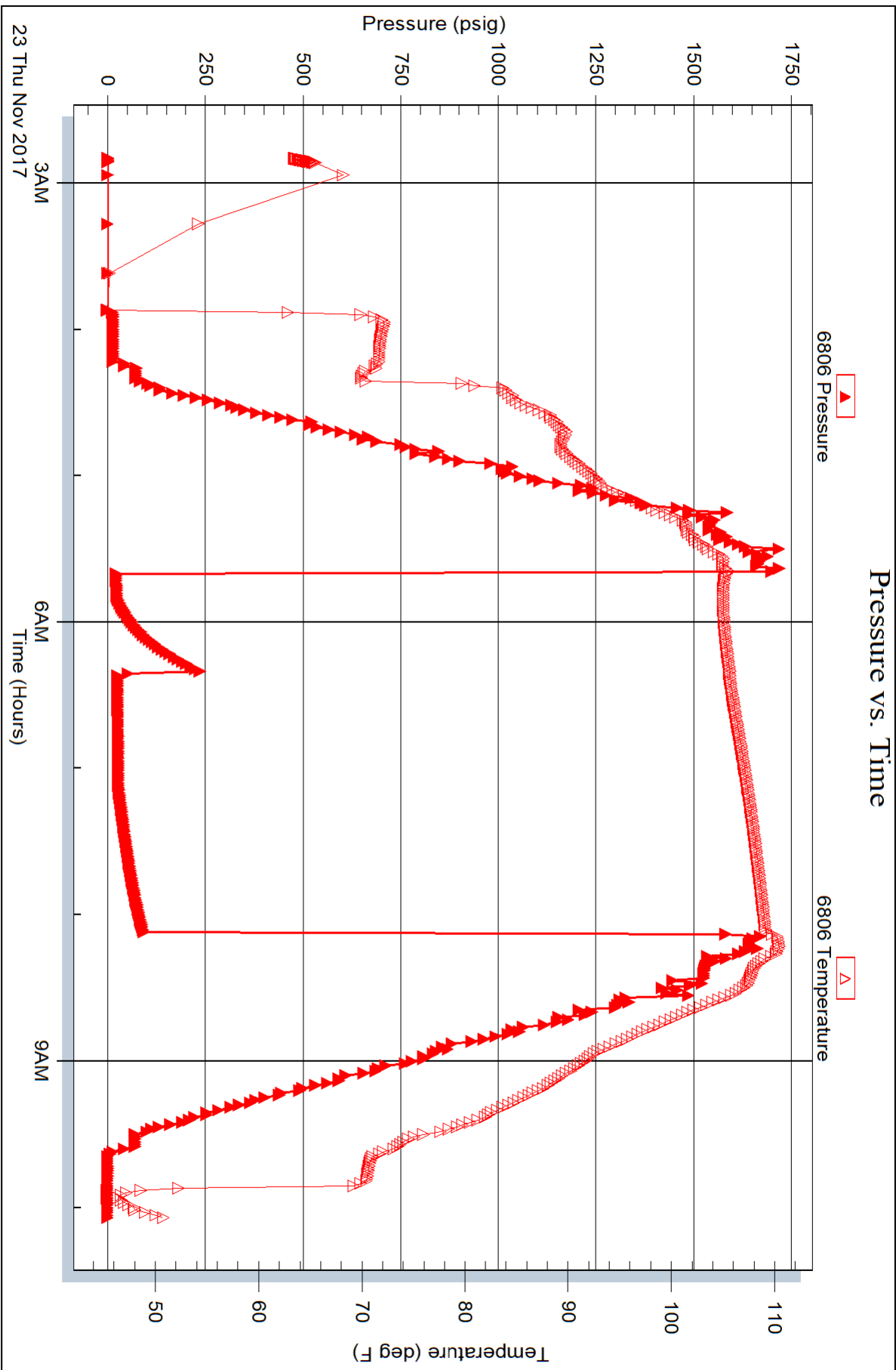


Serial #: 6806

Outside K3 Oil & Gas

Nugen 1-6

DST Test Number: 1





PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1009504	1718	11/22/2017
INVOICE NUMBER			
92576027			

Pratt (620) 672-1201
 B K3 OIL & GAS
 I 24900 PITKIN RD, SUITE 305
 L THE WOODLANDS
 L TX US 77386
 T
 O ATTN: SELIGMAN

J LEASE NAME Nugen #1-6
 O LOCATION
 B COUNTY Sumner
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41070893	19843		Net - 30 days	12/22/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 11/19/2017 to 11/19/2017</i>				
0041070893				
171816202A Cement-New Well Casing/Pi 11/19/2017 Cement-8 5/8" Surface				
60/40 POZ	175.00	EA	6.24	1,092.00 T
Celloflake	40.00	EA	1.92	76.96 T
Calcium Chloride	453.00	EA	0.55	247.34 T
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	2.34	234.00
Heavy Equipment Mileage		MI		
Proppant & Bulk Del. Chgs., per ton mil	755.00	EA	1.30	981.50
Depth Charge; 0-500'	1.00	EA	520.00	520.00
Blending & Mixing Service Charge	175.00	BAG	0.73	127.40
"Service Supervisor, first 8 hrs on loc.	1.00	EA	91.00	91.00
Company				
Well Name				
C/L Account				
Approval				

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,370.20
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	106.22
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,476.42
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

TTMH
(22)

FIELD SERVICE TICKET
1718 16202 A

DATE _____ TICKET NO. _____

DATE OF JOB 11-19-17 DISTRICT Pratt		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 H3 oil + GAS		LEASE Mug-on WELL NO. 1-6							
ADDRESS _____		COUNTY Sumner STATE KS							
CITY _____ STATE _____		SERVICE CREW MATTAI, OSBORN, BILKIN							
AUTHORIZED BY _____		JOB TYPE: 2-42 8 1/8 SURFACE							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19843	.5						11-19-17	PM	4:30
						ARRIVED AT JOB		PM	7:20
						START OPERATION		AM	8:02
19918	.5					FINISH OPERATION		AM	8:25
						RELEASED		AM	9:15
MILES FROM STATION TO WELL						115			

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: Walt Brown
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 P12	SK	175		2,100 00
CC 102	cellulose	lb	40		148 00
CC 109	Calcium chloride	lb	453		475 65
E 100	P.u. miles	mi	100		450 00
E 113	PROP + bulk del	7m	755		1,887 50
ce 200	Depth charge 0-500'	4hr	1		1,000 00
ce 240	blend + mix	SK	175		245 00
S 003	Supervisor	ea	1		175 00
SUB TOTAL					6,481 15

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		3,370 20

SERVICE REPRESENTATIVE Mike Mattai	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Walt Brown</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO. _____



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1009504	1718	11/22/2017
INVOICE NUMBER			
92576026			

Pratt (620) 672-1201
 B K3 OIL & GAS
 I 24900 PITKIN RD, SUITE 305
 L THE WOODLANDS
 L TX US 77386
 T
 O ATTN: SELIGMAN

J LEASE NAME Nugen #1-6
 O LOCATION
 B COUNTY Sumner
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41070888	19843		Net - 30 days	12/22/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 11/18/2017 to 11/18/2017</i>				
0041070888				
171816204A Cement-New Well Casing/Pi 11/18/2017 Cement-13 3/8"				
Common Cement	65.00	EA	8.32	540.80 T
Celloflake	17.00	EA	1.92	32.71 T
Calcium Chloride	186.00	EA	0.55	101.56 T
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	2.34	234.00
Heavy Equipment Mileage	200.00	MI	3.90	780.00
Proppant & Bulk Del. Chgs., per ton mil	310.00	EA	1.30	403.00
Depth Charge; 0-500'	1.00	EA	520.00	520.00
Blending & Mixing Service Charge	65.00	BAG	0.73	47.32
"Service Supervisor, first 8 hrs on loc.	1.00	EA	90.99	90.99
Company _____ Well Name _____ GA Account _____ Approval _____				

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	2,750.38
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	50.63
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	2,801.01
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

IT M 14
37

FIELD SERVICE TICKET
1718 16204 A

DATE _____ TICKET NO. _____

DATE OF JOB 11-18-17		DISTRICT Pratt		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 K3 oil + Gas				LEASE NUGON				WELL NO. 1-6			
ADDRESS				COUNTY SUMNER				STATE KS			
CITY				STATE				SERVICE CREW MATAI, OSBORN, DOMINY			
AUTHORIZED BY				JOB TYPE: 2-47 13 1/2 CONTRACT				2-47			
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE 11-18-17	AM/PM	TIME 7:30		
19843	.25					ARRIVED AT JOB		AM/PM	10:30		
19916	.25					START OPERATION		AM/PM	3:30		
						FINISH OPERATION		AM/PM	3:45		
						RELEASED		AM/PM	4:30		
						MILES FROM STATION TO WELL		115			

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
CP 100C	COMMON CNT	SK	65		1040 00
CC 102	CELLOFIBRE	LB	17		62 90
CC 109	CALCIUM CHLORIDE	LB	186		195 30
E100	P.W. MIX	MI	100		450 00
E101	heavy w. mix	MI	200		1,500 00
E113	PROP + bulk del	TM	310		775 00
CE 200	DEPTH CHARGE 0-500	4hr	1		1,000 00
CE 240	blend + MIX	MI	65		9175 00
S003	SUPERVISOR	EQ	1		175 00
SUB TOTAL					5289 20

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		2,750 30

SERVICE REPRESENTATIVE <i>Mike Matai</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. _____



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1009504	1718	11/30/2017
INVOICE NUMBER			
92580823			

Pratt (620) 672-1201
 B K3 OIL & GAS
 I 24900 PITKIN RD, SUITE 305
 L THE WOODLANDS
 L TX US 77386
 T
 O ATTN: SELIGMAN

J LEASE NAME Nugen 1-6
 O LOCATION
 B COUNTY Summer
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE		
41072689	19843		Net - 30 days	12/30/2017		
			QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 11/25/2017 to 11/25/2017</i>						
0041072689						
171816053A Cement-New Well Casing/Pi 11/25/2017 Cement PTA						
60/40 POZ 125.00 EA 5.88 735.00 T						
Celloflake 27.00 EA 1.81 48.95 T						
Cement Gel 216.00 EA 0.12 26.46 T						
"Unit Mileage Chg (PU, cars one way)" 100.00 MI 2.21 220.50						
Heavy Equipment Mileage 200.00 MI 3.68 735.00						
Proppant & Bulk Del. Chgs., per ton mil 540.00 EA 1.23 661.50						
Blending & Mixing Service Charge 125.00 BAG 0.69 85.75						
Depth Charge; 501'-1000' 1.00 EA 588.00 588.00						
"Service Supervisor, first 8 hrs on loc. 1.00 EA 85.75 85.75						
Company _____ Well Name _____ O/L Account _____ Approval _____						

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,186.91
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	60.78
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,247.69
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

6-345-2E

FIELD SERVICE TICKET
1718 16053 A

DATE _____ TICKET NO. _____

DATE OF JOB 11/25/2017 DISTRICT Prg & J, KS		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 K3 Oil & Gas Operating Co.		LEASE Nugen WELL NO. 1-6							
ADDRESS		COUNTY Sumner STATE KS							
CITY STATE		SERVICE CREW Degan, McGuire, Adams							
AUTHORIZED BY		JOB TYPE: Z42/PTA							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE 11/25	AM PM	TIME 5:30
19843	6					ARRIVED AT JOB	11/25	AM PM	9:30
19862	1					START OPERATION	11/25	AM PM	10:00
						FINISH OPERATION	11/25	AM PM	4:00
						RELEASED	11/25	AM PM	5:00
						MILES FROM STATION TO WELL	117		

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: Walt Brown
(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	125		1,500 00
CC102	Cellofiske	Lb	27		99 90
CC200	Cement Gel	Lb	216		34 00
E100	unit Mileage Charge - Pickups, Shuttles & Accs	M.	100		450 00
E101	Hesvy Equipment Mileage	M.	200		1,500 00
E113	Proppant on Bulk Delivery Charge, per load	Tons	540		1,350 00
CE201	Depth Charge; 501' - 1,000'	Lbs	1		1,200 00
CE240	Blending & Mixing Service Charge	SK	125		175 00
SO03	Service Supervisor, First 8 hrs on loc	E9	1		175 00
SUB TOTAL					6503 90

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL		3,186	91

SERVICE REPRESENTATIVE <u>David Frank</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Walt Brown</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
---	--

FIELD SERVICE ORDER NO.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

71011-47

FIELD SERVICE TICKET
1718 16053 A

6-345-21

DATE _____ TICKET NO. _____

DATE OF JOB: 11/21/11		DISTRICT: P...		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: 1502650...				LEASE: ... WELL NO. 16					
ADDRESS:				COUNTY: Sumner STATE: KS					
CITY: STATE:				SERVICE CREW: Dana P... Adams					
AUTHORIZED BY:				JOB TYPE: 242/PIA					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
19843	6						11/21	AM	5:30
19844	1						11/21	AM	9:30
							11/21	AM	10:00
							11/21	AM	4:00
							11/21	AM	5:00
						MILES FROM STATION TO WELL: 117			

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
CP103	60/40 Poz	SK	125		1,500.00
CC102	Cement	Lb	27		99.90
CC200	Cement 601	Lb	216		34.00
F100	W. Machine Charge	M	100		430.00
F101	W. Machine Charge	M	200		1,500.00
F103	Proppant	Lb	540		1,330.00
CF201	Diesel Charge	Gal	1		1,200.00
CF200	Blender & Mixing	SK	125		175.00
S003	...	FS	1		175.00
SUB TOTAL					6,503.90

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL		3,186.90	

SERVICE REPRESENTATIVE: _____	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
-------------------------------	--

FIELD SERVICE ORDER NO. _____

Customer K3 Oil & Gas Operations Co.	Lease No.	Date 11/25/2017
Lease Nugon	Well # 1-6	
Field Order # 16053	Station Pratt, KS	Casing
Type Job 2421 PTA	Depth	County Sumner
	Formation	State KS
		Legal Description 6-345-21

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
2 1/2				Pre Pad	Max		5 Min.	
Depth 3800	Depth	From	To	Pad	Min		10 Min.	
Volume 54	Volume	From	To	Frac	Avg		15 Min.	
Max Press	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	Flush water, mud	Gas Volume		Total Load	
Plug Depth 3646	Packer Depth	From	To					

Customer Representative Walt Brown	Station Manager Justin Westerman	Treater Darin Franklin
---------------------------------------	-------------------------------------	---------------------------

Service Units	92911	84981	19843	33708	19812				
Driver Names	Darin	McGuire	McGuire	Adams	Adams				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:30am					On location / safety meeting
					125 sk 60/40 P02, 2% Gel, 1/4" C/L
					14.00 pps, 1.35 void, 6.40 water
					3800 - 35 sk
9:30am	200		8	5	8 water
	200		9	5	9 cement
	200		3	5	3 water
	200		45	8	45 mud
					315' - 35 sk
	100		3	5	3 water
	100		9	5	9 cement
	100		1	5	1 water
					60' - 25 sk
	30		6	3	6 cement
					RH - 30 sk
	50		7	3	7 cement
4:00pm					Job complete / Degrind crew

API # 15-191-22790-00-00

Operator: K3 Oil & Gas Operating Company

Well Name & No: Nugen #1-6

Location: 852 FNL & 797' FEL Section 6-34s-2e

County: Sumner

State: Kansas

Rig No.: 4 Contractor: WW Drilling, LLC

Tool Pusher: Walter Brown 785-743-8585

Drill Collars: 14 Size 6.26 x 2.25

Rig Phone: 785-259-0038

Make Pump: N K-380

Liner & Stroke: 6x14

Spud 11/18/2017 @ 10:30 AM

Approx. TD: 4000 Elevation: 1,217 G.L.

1222 KB

Hole Complete: 11/24/2017 @ 2:00 PM

Mud Co.: Mudco

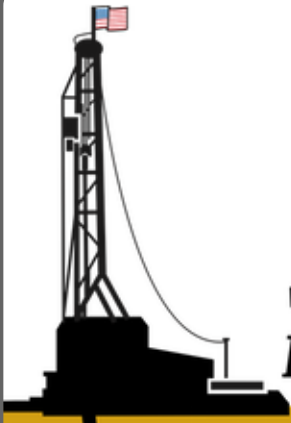
Mud Engineer:

Water

Date	11/18/17	11/19/17	11/20/17	11/21/17	11/22/17	11/23/17	11/24/17	11/25/17	11/26/17	11/27/17
Days	1-spud	2-Run csg	3-Drlg	4-CTCH	5-Drlg	6-DST #1	7-CFS	8-Plugging	9-Done	
Depth		264'	1160'	2473'	3185'	3480	3755	3845	3845	
Ft. Cut		264'	896'	1313'	712'	295	275	90		
Drill Time		5.75	10	19.25	18.5	11	16.5	5.75		
Down Time					1.25	1.5 pumprod	.5 rock	0.25		
Co. Time		WOC - 8	Woc - 12	3.5	3.75	11.25	6.5	18	13	
Bit Wt.	all	15,000	10,000	15,000	35,000	38,000	38,000	40,000		
RPM	100	120	120	100	90	85	85	85		
Pressure	450	300	500	650	1000	1000	1000	1000		
SPM	60	58	58	58	58	58	58	58		
Mud Cost			2480	4505	7725	\$8,708	\$9,610	10,959	11,429	
Mud Wt.		8.9	8.8	9.6	9.1	9.1	9.2	9.2		
Viscosity		32	27	28	50	50	50	60		
Water Loss					8	8.8	8.8	8.8		
Chlorides				2800	3500	2500	1500	2000		
L.C.M.		TRC			5#	4#	5#	6#		
Dev. Sur		.75°-264'		.5°-2473'		1.25-3480		1°-3845'		
Dev. Sur										
Fuel		1981	1690	1340	990	3030	2738	2505	2389	
Water-Pit		1/2	1/2	3/4	3/4	3/4	3/4	1/2		
ACC Bit Hrs.		4.5	10	29.25	18.5	29.5	46	51.75		
Formation	sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	sh-lm	sh-lm	sh-lm		
Weather		Clear	Clear	P/C	Cloudy	clear	clear	Clear	P/C	
No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops	
1	17 1/2"	Sm-tooth	41'	41'	1.25	1.25	RR			
2	12 1/4"	Sm-PDC	264'	223'	4.5	5.75		JE9625		
3	7 7/8"	Sm-PDC	2473'	2209'	29.25	35		JJ9292		
4	7 7/8"	Var-Button	3845'	1372'	51.75	86.75		1281833	ROP 44.32	
DEPTH	SIZE	SACKS	CEMENT MATERIAL			PLUG DOWN	DRILLED OUT	REMARKS		
40'	13 3/8"	65	Common, 3% cc & 2% gel			3:45 PM	11:45 PM	Basic Did Circ		
264'	8 5/8"	175				8:30 AM	8:30 PM	Basic Did Circ		
			As Ordered			4:00 PM		Basic Did Circ		
NO	INTERVAL	OPEN	SHUT	OPEN	SHUT	RECOVERY				
1	3435-3480	5	30	45	60	2' mud				
2										
3						35sx Top of Arb @ 3800'				
4						35sx @ 315'				
5						25sx @ 60' to surface				
6						30sx Rathole				
7										
8										
9										

Surface Casing Furnished by: Ran 1 joint of 13 3/8" tally 40'. Ran 6 joints of 8 5/8" 23# tally 253.64' set @ 264'

Remarks: Strap & weld surface by Hawkeye welding. Bit trip @ 2473' 3.5 hrs. Pipe strap .37 long. Displaced @ 2546' (700 bbls). Short trip @ 3480 (27stands)(2.25hrs). Pipe strap 2.21 long. Short trip @ 3845' (10 stands) .75 hrs. Logged by Haliburton (LTD 3842') 6.5 hrs. Plugged as ordered by Basic cem, Plug down @ 4:00 pm, 11/25/2017. Released rig @ 8:00 pm, 11/25/2017



MICWL

Mid Continent Well Logging Service, Inc.

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

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

Well Name: Nugen #1-6 K3 Oil & Gas
API: 15-191-22790
Location: Section 6, T34S R2E, Sumner Co., Ks
License Number: Region: Meils
Spud Date: 11/18/2017 Drilling Completed: 11/24/2017
Surface Coordinates: 852' FNL, 797' FEL Of Section 6, T34S, R2E, Sumner Co., Ks
NE SW NE NE
Bottom Hole 852' FNL, 797' FEL Of Section 6, T34S, R2E, Sumner Co., Ks
Coordinates: NE SW NE NE
Ground Elevation (ft): 1,217' K.B. Elevation (ft): 1,225'
Logged Interval (ft): 2,400' To: 3,845' Total Depth (ft): 1,445'
Formation: Simpson/Mississippi
Type of Drilling Fluid: Native Gels/Water

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

OPERATOR

Company: K3 Oil & Gas
Address: 24900 Pitkin Rd, Suite 305
The Woodlands, Texas 77386

GEOLOGIST

Name: Susan Rainbolt
Company: K3 Oil & Gas
Address: 24900 Pitkin Rd, Suite 305
The Woodlands, Texas 77386

Cores

DSTs

Performed By Trilobite Testing, INC.

DST #1

Directed For:

Interval: 3,435 MD - 3,480' MD

IF: Weak Surface Blow

ISI: No Blow Back

FF: Weak Surface Blow, Dead at 15 Minutes

FSI: No Blow Back

Results:

Chlorides: 2500 PPM

Time	Pressure	Temp	Annotation
0	1727.50	105.98	Initial Hydro-static
2	20.14	106.04	Open To Flow (1)
12	22.67	105.89	Shut-in (1)
43	243.93	106.72	End Shut-in(1)
44	24.50	106.68	Open To FLOW(2)
91	29.06	108.57	Shut-in(2)
150	92.09	110.35	End Shut-in(2)
151	1675.24	111.38	Final Hydro-static

Comments

K3 Oil& Gas
 24900 Pitkin Rd, Suite 305
 The Woodlands, Texas 77386

WW Drilling Rig No. 4

Wellsite Managers:
 N/A

Directional Services: N/A
 Daytime Directional Driller: N/A

MWD Engineers: N/A

Mud-Co / Service Mud, Inc.:
 Mud Engineer: Brad Bortz - (620) 793-2421

Mid Continent Well Logging Service, INC.; Norman, OK
 Logging Unit: Jeb 1
 Mcwl Box: Started With 1017 IR, Ended With 1017 IR
 Loggers: Aaron King/Marquise Dotson
 Called Out: 11/19/2017
 Begin Logging @ 2,400' On 11/21/2017
 Drilling Completed @ 3,845' on 11/24/2017

ROCK TYPES

	Qtz wash		Cht		Igne		Shcol
	Carb wash		Clyst		Lmst		Shgy
	Sndylm		Coal		Meta		Ss
	Anhy		Congl		Mrlst		Till
	Bent		Dol		Salt		Hotsh
	Brec		Gyp		Shale		Slstst

ACCESSORIES

FOSSIL

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

- Plant
- Strom

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp

- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

- Gyp
- Ls
- Mrst
- Ssstrg
- Sltstrg

TEXTURE

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

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

OIL SHOW

- Even
- Spotted
- Ques
- Dead

EVENT

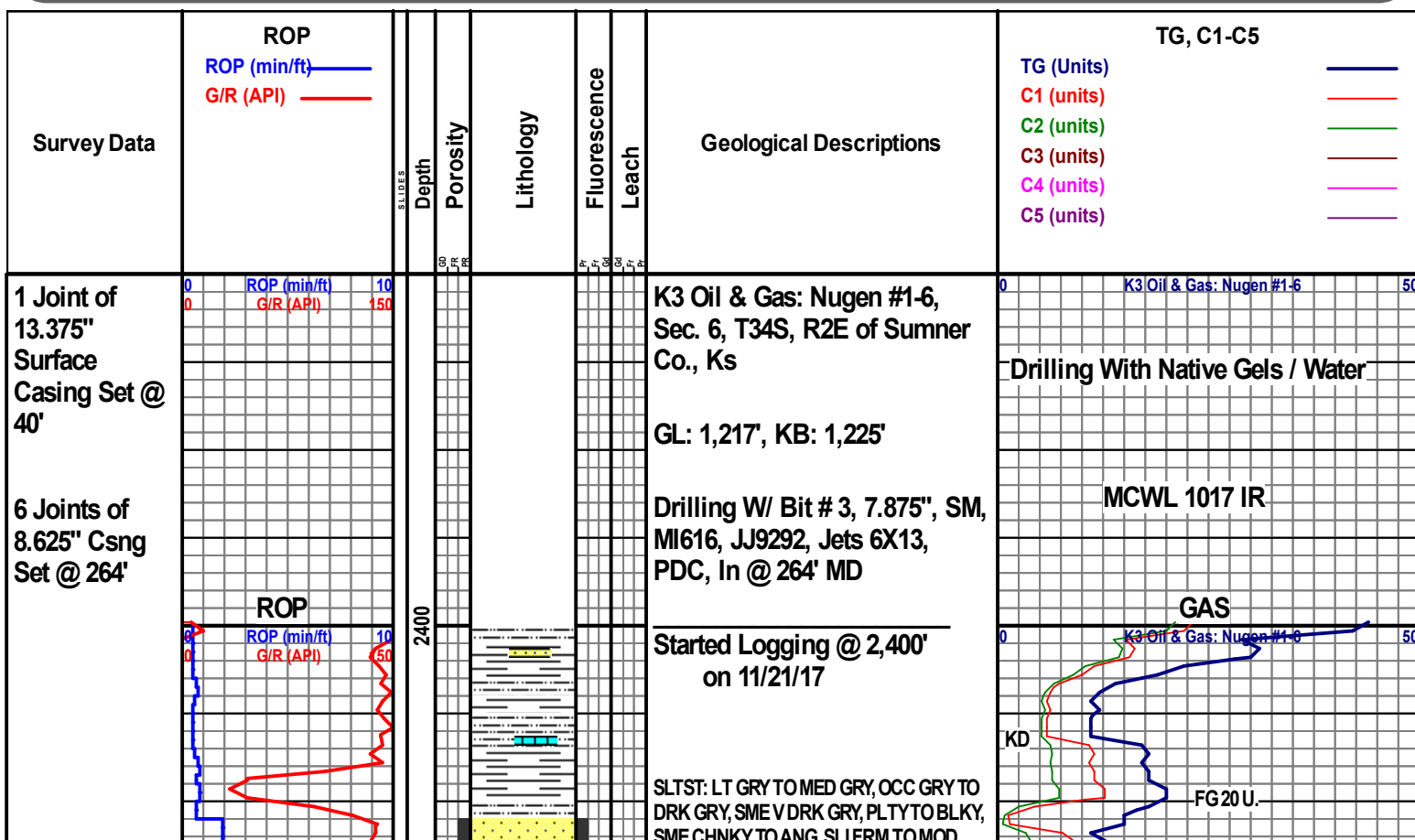
- Sidewall
- Rft
- Casing
- Sidewall

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

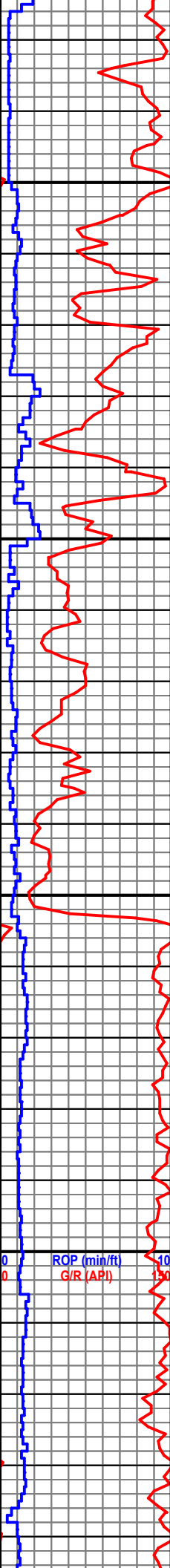
INTERVAL

- Core
- Dst

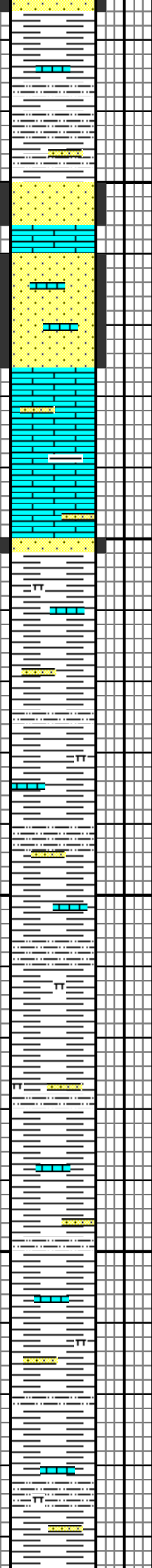


11/22/2017

MUD CHECK:
DEPTH: 2,564'
WT: 8.6
VIS: 79
PV: 23
YP: 27
GEL: 14/44
H2O: 98.0%
SOL: 2.0%
OIL: 0.0%
APIFIL: 8.0
PH: 12.0
CA: 80
CL: 3,500



2450
2500
2550
2600



SME CHNKY TO ANG, SET FRM TO MOD SFT, OCC BRIT, V SLTY TXT TO VFN TXT, LS: CRM TO TAN, SCAT GRY TO LT GRY, BLKY TO PLTY, OCC CHNKY, FRM TO MOD FRM, TR OF SS, V TR AMNTS OF LT YEL- FNT GLD MIN FLOR, NO SHOWS

STALNAKER @ 2,451' MD, (-1,226')

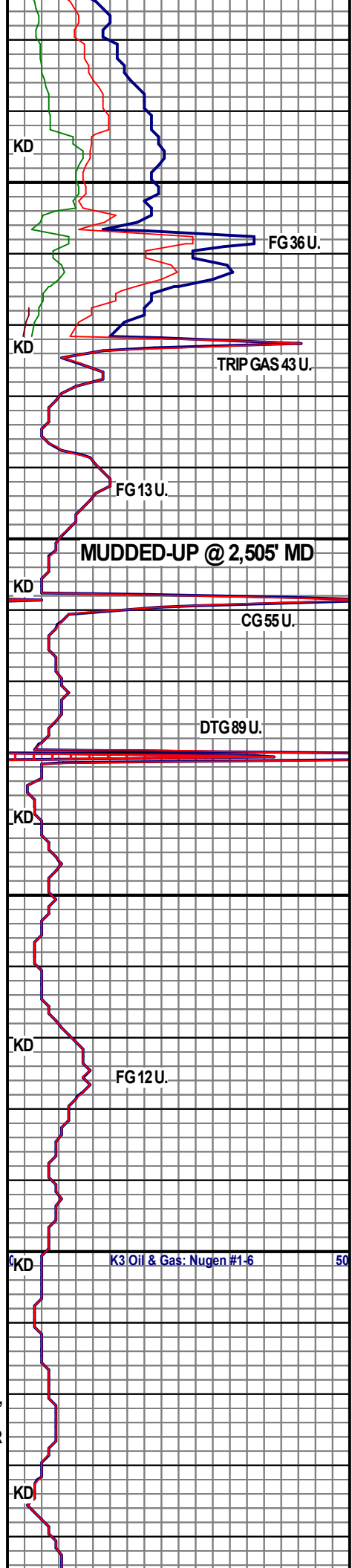
TOH FOR NEW BIT #4 @ 2,473' MD ON 11/21/2017

Drilling W/ Bit # 4, 7.875", Varel, HE29HMRSV, 1281833, Jets 3X15, Tri-Cone, In @ 2,473' MD

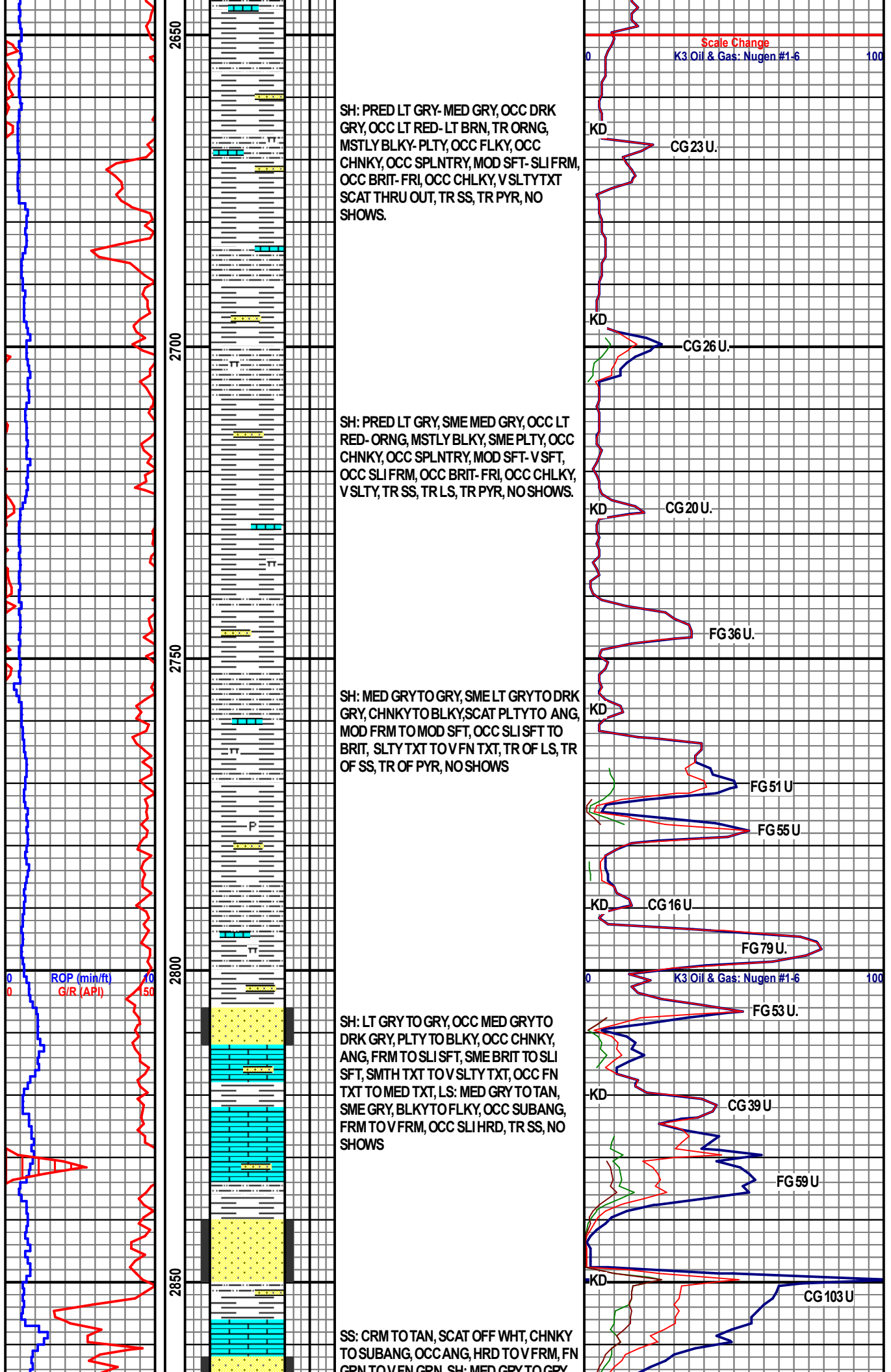
SH: PRED MED GRY, SME LT GRY, OCC DRK GRY, TR RED- LT BRN, MSTLY BLKY, SME PLTY, OCC CHNKY, OCC SPLNTRY, MOD FRM, SME SLI SFT, OCC CHLKY, OCC FRI- BRIT, V TR AMNTS OF CALC INCLD, TR SS, TR LS, NO SHOWS.

SH: PRED LT GRY- MED GRY, OCC LT BRN- DULL ORNG, MSTLY BLKY- PLTY, OCC FLKY, OCC CHNKY, OCC SPLNTRY, MOD SFT- SLI FRM, OCC BRIT- FRI, OCC CHLKY, V SLTY TXT SCAT THRU OUT, TR SS, TR PYR, NO SHOWS.

SH: PRED MED GRY- LT GRY, SME DRK GRY- MED BRN, TR LT RED- FNT ORNG, MSTLY BLKY, SME FLKY, OCC PLTY, OCC CHNKY, OCC SPLNTRY, MOD SFT- SLI FRM, OCC CMRBLTY, OCC FRI, OCC BRIT, TR CHLKY, V SLTY TXT THRU OUT, TR PYR, TR SS, NO SHOWS.



50



Scale Change

K3 Oil & Gas: Nugen #1-6

100

SH: PRED LT GRY-MED GRY, OCC DRK GRY, OCC LT RED- LT BRN, TR ORNG, MSTLY BLKY-PLTY, OCC FLKY, OCC CHNKY, OCC SPLNTRY, MOD SFT-SLI FRM, OCC BRIT- FRI, OCC CHLKY, V SLTYTXT SCAT THRU OUT, TR SS, TR PYR, NO SHOWS.

KD
CG 23 U.

SH: PRED LT GRY, SME MED GRY, OCC LT RED- ORNG, MSTLY BLKY, SME PLTY, OCC CHNKY, OCC SPLNTRY, MOD SFT- V SFT, OCC SLI FRM, OCC BRIT- FRI, OCC CHLKY, V SLTY, TR SS, TR LS, TR PYR, NO SHOWS.

KD
CG 26 U.

KD
CG 20 U.

FG 36 U.

SH: MED GRY TO GRY, SME LT GRY TO DRK GRY, CHNKY TO BLKY, SCAT PLTY TO ANG, MOD FRM TO MOD SFT, OCC SLI SFT TO BRIT, SLTY TXT TO V FN TXT, TR OF LS, TR OF SS, TR OF PYR, NO SHOWS

KD
FG 51 U
FG 55 U

KD
CG 16 U
FG 79 U.

ROP (min/ft)
G/R (API)

2800

SH: LT GRY TO GRY, OCC MED GRY TO DRK GRY, PLTY TO BLKY, OCC CHNKY, ANG, FRM TO SLI SFT, SME BRIT TO SLI SFT, SMTH TXT TO V SLTY TXT, OCC FN TXT TO MED TXT, LS: MED GRY TO TAN, SME GRY, BLKY TO FLKY, OCC SUBANG, FRM TO V FRM, OCC SLI HRD, TR SS, NO SHOWS

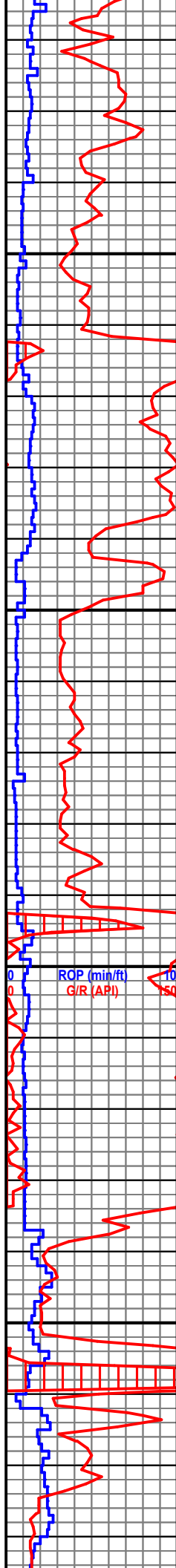
K3 Oil & Gas: Nugen #1-6
FG 53 U.

KD
CG 39 U
FG 59 U

2850

SS: CRM TO TAN, SCAT OFF WHT, CHNKY TO SUBANG, OCC ANG, HRD TO V FRM, FN GPN TO VEN GPN. SH: MED GRY TO GRY

KD
CG 103 U



2900
2950
3000
3050



GRN TO V FN GRN, SH: MED GRN TO GRN,
SME LT GRY TO DRK GRY, BLKY TO
CHNKY, OCC PLTY, SLI FRM TO MOD SFT,
FN TXT TO SLTY TXT, TR LS, TR PYR, NO
SHOWS

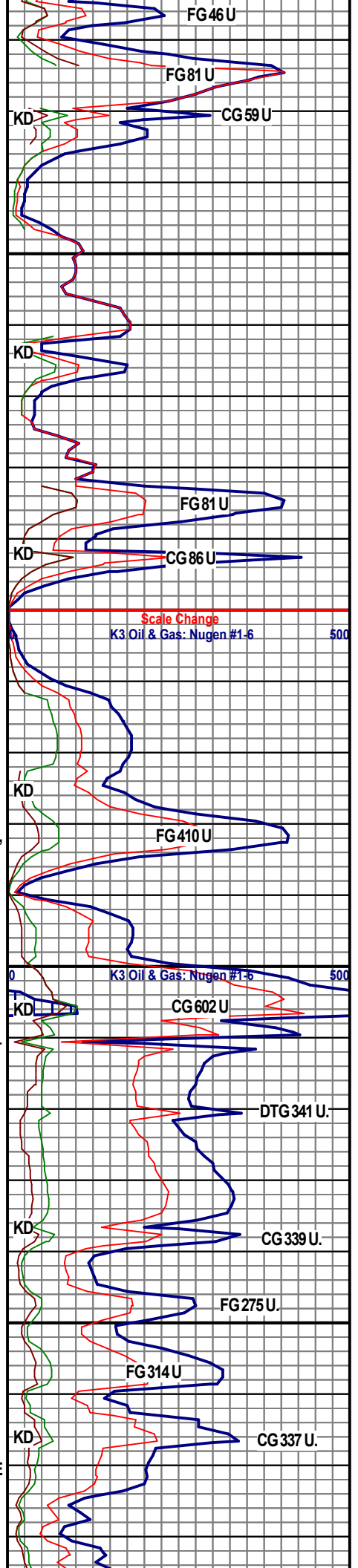
SS: OFF WHT TO CRM, SME TAN TO WHT,
SUBRND TO SUBANG, OCC CHNKY TO
BLKY, FN GRN TO V FN GRN, SME MED
GRN, SH: GRY TO MED GRY, SME LT GRY
TO DRK GRY, CHNKY TO PLTY, OCC BLKY,
FN TXT TO SLTY TXT, SCAT V FN TXT, MOD
FRM TO MOD SFT, SME SFT, TR LS, TR
PYR,

SH: MED GRY TO GRY, SCAT LT GRY TO
DRK GRY, CHNKY TO BLKY, OCC PLTY, SLI
FRM TO SLI SFT, SME SFT TO MOD SFT,
SMTH TXT TO V SLTY TXT, OCC MED TXT
TO FN TXT, SS: TAN TO CRM, SME OFF
WHT TO WHT, SUBRND TO SUBANG, OCC
CHNKY, V FRM TO MOD HRD, OCC MOD
FRM TO HRD, FN GRN TO V FN GRN, TR LS,
TR PYR, NO SHOWS

SS: OFF WHT TO CRM, OCC TAN TO WHT, FRM TO V
FRM, SME SLI HRD TO HRD, ANG TO SUBANG, V FN
GRN, TO FN GRN, OCC MED GRN, SH MED GRY TO
GRY, SME LT GRY TO DRK GRY, CHNKY TO
BLKY, SCAT PLTY TO ANG, MOD FRM TO MOD SFT,
OCC SLI SFT TO SFT, SLTY TXT TO V FN TXT, TR
OF LS, FR YEL GLD FLOR, V PR DUL MLKY BLU WHT
SLO CUT, V THN GRN YEL RES RING

**LANSING / KANSAS CITY
@ 3,037' MD, (-1,812')**

LS: CRM TO TAN, SME LT GRY TO GRY,
SCAT OFF WHT TO MOTT GRY, CHNKY TO
BLKY, OCC ANG, SLI HRD TO FRM, SME
MOD FRM, SH: MED GRY TO DRK GRY, SME
V DRK GRY, BLKY TO ANG, OCC
CHNKY, SFT TO MOD SFT, SCAT V SFT.
SMTH TXT TO V FN TXT, SME V SLTY TXT,
TR SS, TR PYR, FNT YEL GLD FLOR, V PR
DUL YEL GLD SLO CUT, V THN SFTY GRN

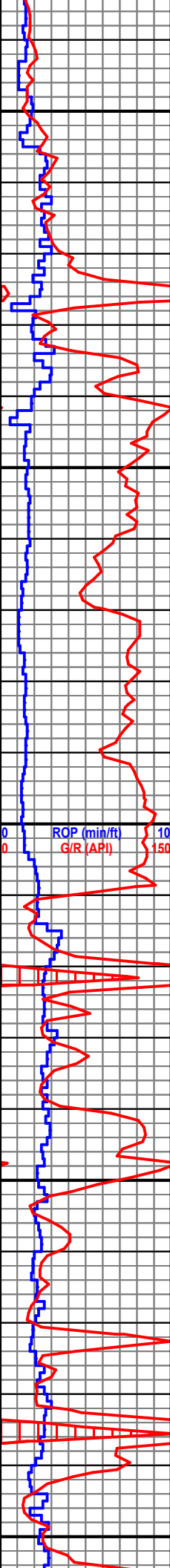


Scale Change
K3 Oil & Gas: Nugen #1-6 500

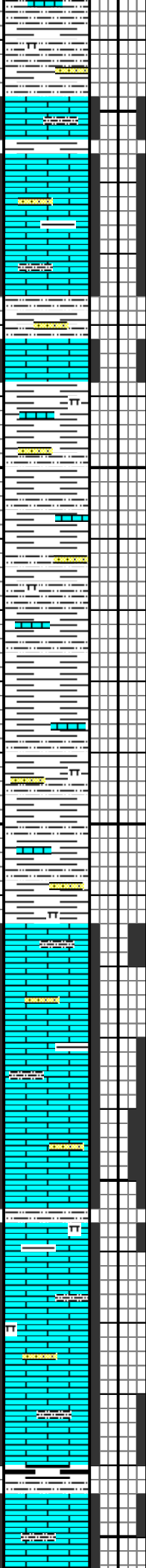
K3 Oil & Gas: Nugen #1-6 500

DUL YEL GLD SLO CUT, V THN SPTTY GRN
BLU RES RNG

MUD CHECK:
DEPTH: 3,282'
WT: 9.0
VIS: 51
PV: 17
YP: 18
GEL: 11/36
H2O: 95.2%
SOL: 4.8%
OIL: 0.0%
APIFIL: 8.8
PH: 10.5
CA: 100
CL: 2,500



3100
3150
3200
3250
3300



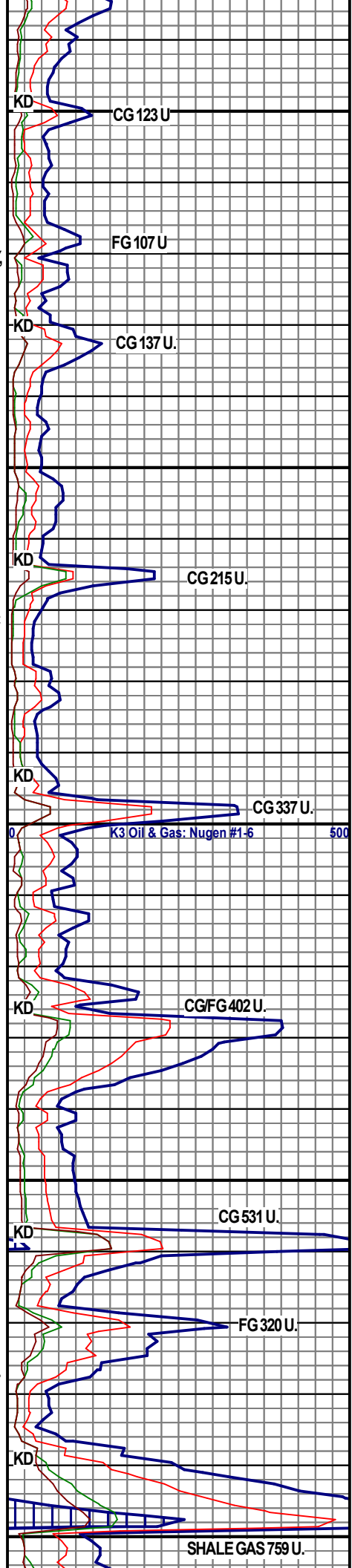
LS: MOTT CRM TO TAN, SCAT OFF WHT TO CRM, LT GRY TO GRY, CHNKY TO BLKY, SME PLTY, FRM TO V FRM, OCC SLI HRD TO MOD FRM, SH: V DRK GRY TO DRK GRY, SME MED GRY TO GRY, BLKY TO CHNKY, PLTY, MOD FRM TO SLI FRM, OCC BRIT, TR OF SS, TR OF PYR, FNT GLD YEL FLOR, V PR DUL BLU - MLKY WHT SLO CUT, V THN GRN YEL RES RNG

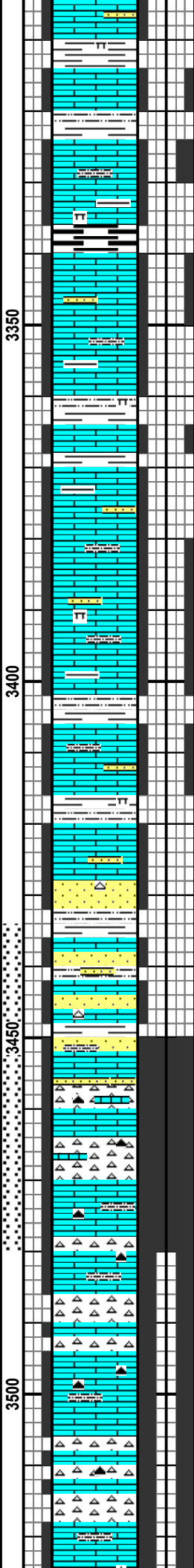
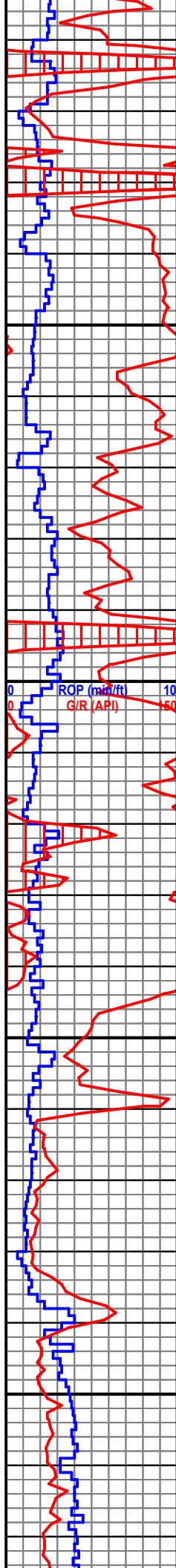
SH: PRED MED GRY, SME LT GRY-DRK GRY, TR BLK, TR VLT RED-V LT ORNG, MSTLY BLKY, SME PLTY, OCC CHNKY, OCC SPLNTRY, TR SUBANG-ANG, MOD SFT-SLI FRM, OCC SLI HRD, OCC V BRIT-FRI, TR CHLKY, SCAT CALC INCLS THRU OUT, TR SS, TR MRLSTN, NO SHOWS.

**MARMATON @ 3,214' MD,
(-1,989')**

LS: PRED WHT-LT TN, SME LT CRM, TR LT GRY, TR V LT GRY, MSTLY BLKY-PLTY, OCC FLKY, OCC CHNKY, MOD HRD-V DNSE, OCC CRMBLY, TR FRI, MED XLN, V TR AMNTS PYR INCL, OCC HL FRAC POR, TR SS, TR MRLSTN, PR LT GLD FLOR, SLI FR MLKY WHT-FNT YEL SLO CUT, V THN LT YEL-FNT GN RESD RNGS, SH: PRED MED GRY, SME DRK GRY, OCC LT GRY, TR BLK, MSTLY BLKY-PLTY, OCC SPLNTRY, MOD FRM, OCC FRI-BRIT, V SLTY THRU OUT.

LS: MSTLY CRM-LT TN, TR MOT OFF WHT-OFF WHT, BLKY, OCC PLTY, MOD FRM-SLI FRM, SME BRITL, MIC FN XLN-V FN XLN, SME HL FRAC, OCC FRAC POR, TR MRLSTN, TR SS, PR LT YEL-DULL GLD FLOR, V PR MLKY WHT SLO CUT, V THN LT YEL RESD RNGS, SH: PRED MED GRY, SME LT GRY, MSTLY BLKY-PLTY, MOD SFT-SLI FRM, SCAT BRIT, OCC SLTYTXT.





LS: PRED LT TN- CRM, TR MOT OFF WHT, BLKY- PLTY, SLI FRM- MOD FRM, SCAT HRD- BRIT, V FN XLN- MICROFN XLN, SME CRYPTO XLN, SME FRAC POR, TR MRLSTN, TR SS, SLI FR MLKY WHT- FNT GN SLO CUT, V THN LT YEL- FNT GN RESD RNGS, SH: MSTLY LT GRY- MED GRY, PLTY- FLKY, OCC BLKY, SLTY TXT THRU OUT, SLI SFT- MOD FRM, OCC HRD.

CHEROKEE @ 3,340' MD, (-2,115')

LS: PRED WHT- V LT TN, SME V LT CRM, OCC OFF WHT, OCC LT GRY, MSTLY BLKY, SME CHNKY, OCC FLKY, OCC PLTY, MOD HRD, SME V HRD- V DNSE, OCC CRMBLY, TR CHLKY, SCAT FRAC POR, TR SS, TR MRLSTN, PR LT GLD FLOR, V PR MLKY WHT SLO CUT, V THN LT YEL- DULL GN RESD RNGS, SH: PRED MED GRY, SME DRK GRY, OCC LT GRY, MSTLY PLTY- BLKY, OCC CHNKY, TR SPLNTRY, MOD FRM, OCC CHLKY, OCC FRI, V SLTY TXT THRU OUT.

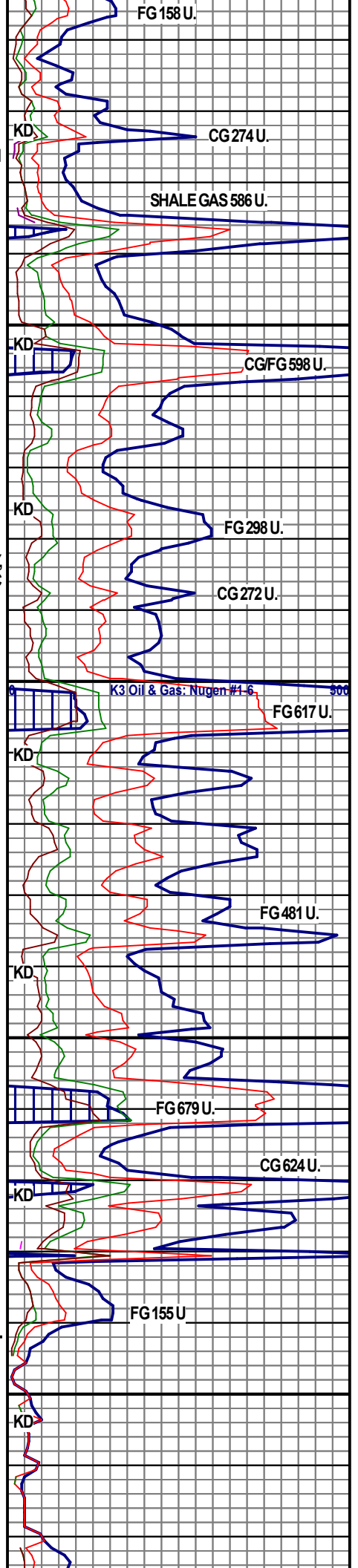
LS: CRM TO LT TAN, SME OFF WHT TO GRY, MOD FRM TO FRM, OCC SLI HRD, CHNKY TO BLKY, SCAT ANG TO SUBANG, TR OF PLTY, SH: MED GRY TO GRY, OCC RED TO MED BRN, BLKY TO CHNKY, SLI FRM TO MOD SFT, SME SFT, MED TXT TO FN TXT, OCC SMTH TXT, TR OFSS, TR OF CHT, FR YEL GLD FLOR, GD MLKY BLU WHT CUT, BRI YEL RES RNG,

MISS. @ 3,456', (-2,231')

LS: LT GRY TO MED GRY, OCC CRM TO LT TAN, SLI FRM TO FRM, SME MOD FRM, BLKY TO PLTY, OCC CHNKY, CHT: OFF WHT TO WHT, SME CRM, BLKY TO SUBANG, SCAT CHNKY, HRD TO V HRD, TR OFSS, TR OF SH, GD YEL GLD FLOR, GD BRT MLKY BLU WHT STMG CUT, V THK YEL- GRN RES RNG, ODOR PRESENT ON SAMPLES

PERFORM DRILL STEM TEST @ 3,480' MD. PACKER SET AT 3,435' W/ APPROX. 45' OF ANCHOR

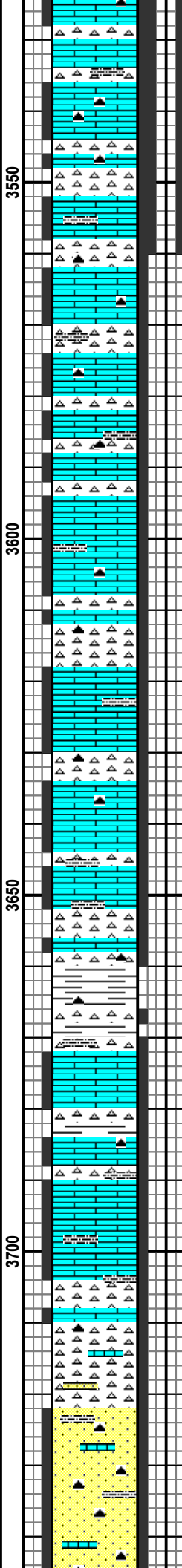
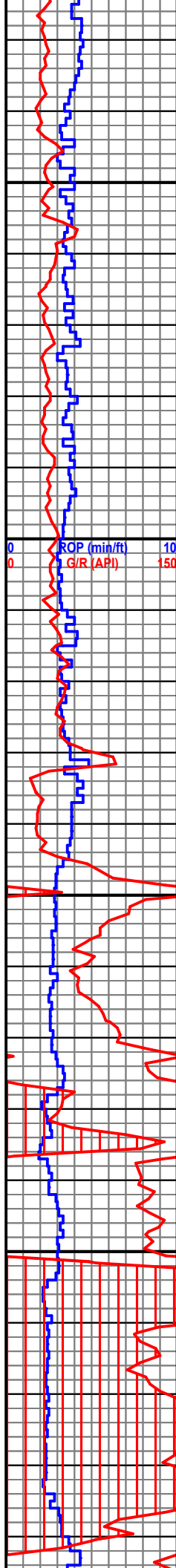
CHT: OFF WHT TO WHT, OCC CRM TO LT TAN, BLKY



MUD CHECK:
 DEPTH: 3,480'
 WT: 9.3+
 VIS: 51
 PV: 18
 YP: 17
 GEL: 9/34
 H2O: 93.0%
 SOL: 7.0%
 OIL: 0.0%
 APIFIL: 8.8
 PH: 10.0
 CA: 80
 CL: 1,500

11/23/2017

11/24/2017



TO CHNKY, OCC PLTY, V HRD TO HRD, LS: MOTT CRM TO GRY, SCAT TAN, LT GRY TO GRY, CHNKY TO BLKY, SME PLTY, FRM TO V FRM, OCC SLI HRD TO MOD FRM, SH: V DRK GRY TO DRK GRY, SME MED GRY TO GRY, BLKY TO CHNKY, PLTY, MOD FRM TO SLI FRM, SLI FR YEL GLD CUT, BRI MLKY BLU WHT CUT, THK YEL RES RNG

CHT: MOTT GRY TO MED GRY, CRM TO TAN, PLTY TO BLKY, OCC CHNKY, HRD TO V HRD, SME MOD HRD, LS: LT GRY, TO GRY, SME LT TAN, FLKY TO BLKY, OCC PLTY, SLI FRM TO MOD FRM, TR OF SLTST, SLI FR YEL GLD CUT, DUL BLU WHT CUT,

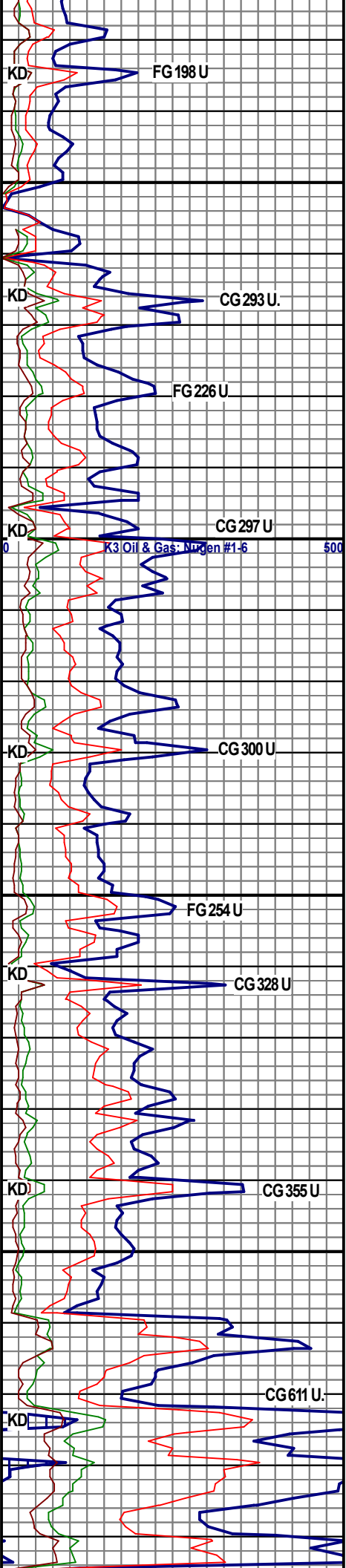
CHT: MED GRY TO MOTT GRY, OCC LT TAN TO CRM, BLKY TO CHNKY, SME PLTY, HRD TO V HRD, OCC V FRM, LS: MOTT CRM TO TAN, SCAT OFF WHT TO CRM, LT GRY TO GRY, CHNKY TO BLKY, SME PLTY, FRM TO V FRM, OCC SLI HRD TO MOD FRM, SCAT DUL YEL FLOR, PR DUL MLKY BLU WHT CUT, DUL THN YEL GLD RES RNG

KINDERHOOK @ 3,661', (-2,436')

CHT: GRY TO MED GRY, SME OFF WHT TO CRM, TR DRK GRY, CHNKY TO BLKY OCC PLTY, HRD TO V HRD, OCC MOD HRD, LS: LT GRY TO GRY, SLI FRM TO FRM, SME MOD FRM, SUBANG TO CHNKY, OCC PLTY, SCAT PR DUL GLD FLOR, PR DUL BLU CUT, V THN LT YEL RESD RNGS

SIMPSON @ 3,722' MD, (-2,497')

SS: PRED V DRK BRN, OCC MED-DRK TN, MSTLY BLKY, SME CHNKY, OCC SUBANG-ANG, MOD HRD-V HRD, V DNSE MASS, ABUN SIL CMNT, TRARG INCLS, V PR INTERGRAN POR, TR LS, TR V DRK GRY CHRT, V PR LT YEL-FNT GLD FLOR, V PR MLKY WHT SLO CUT, NO RESD RNGS.



KD7 FG 198 U

KD CG 293 U.

FG 226 U

KD CG 297 U

K3 Oil & Gas: Nugen #1-6 500

KD CG 300 U

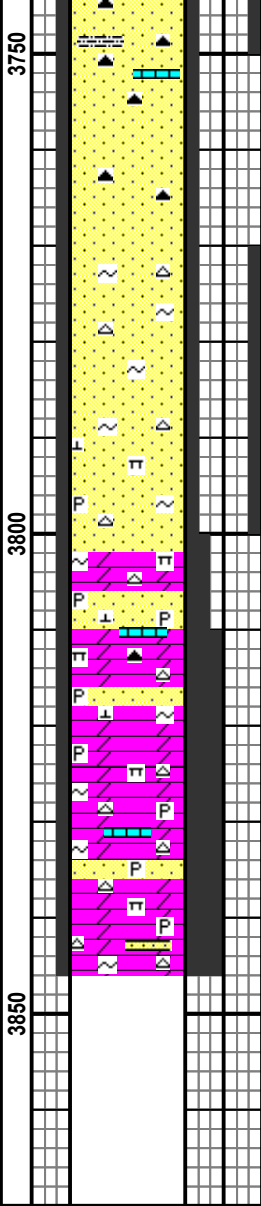
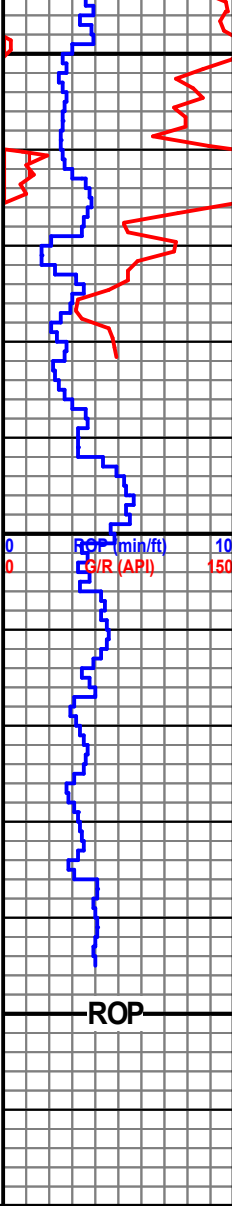
FG 254 U

KD CG 328 U

KD CG 355 U

KD CG 611 U.

MUD CHECK:
 DEPTH: 3,776'
 WT: 9.3
 VIS: 58
 PV: 20
 YP: 19
 GEL: 12/42
 H2O: 93.0%
 SOL: 7.0%
 OIL: 0.0%
 APIFIL: 8.8
 PH: 10.0
 CA: 100
 CL: 2,000



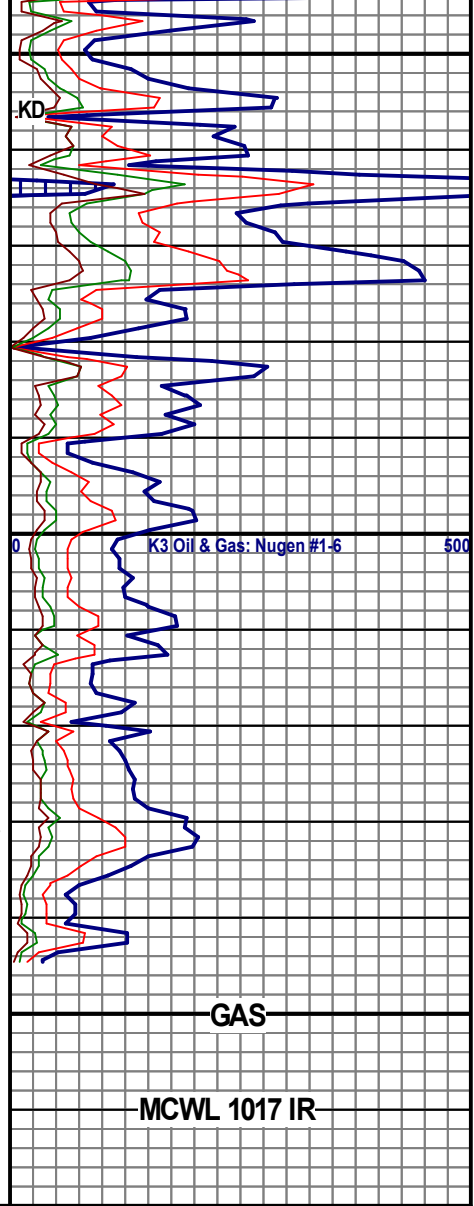
SS: PRED V DRK BRN, SME V DRK GRY, TR CRM, MSTLY BLKY, SME CHNKY, OCC SUBANG- ANG, TR PLTY, MOD HRD, SME V HRD, OCC V BRIT, TR CRMBLY, TR CALC INCLS, TR V DRK MIN CHRT, TR GLAU, TR PYR, TR LS, TR MRLSTN, TR LT CHRT, TR SLTST, V PR LT GLD FLOR, V PR MLKY WHT- FNT GN SLO CUT, NO RESD RNGS.

**ARBUCKLE @ 3,802' MD,
 (-2,577')**

DOL: PRED WHT- OFF WHT, TR TRNSLU, MSTLY BLKY- PLTY, OCC CHNKY, OCC SUBANG- ANG, MOD HRD- V HRD, OCC CRMBLY, OCC FRI, TR CALC INCLS, V SUCRO, TR LT MIN CHRT, TR GLAU, TR PYR, TR LS, TR MRLSTN, TR SLTST, SLI GD DULL GLD- LT YEL FLOR, NO LEACHING, V PR LT YEL- FNT GN RESD RNGS.

**DRILLERS TD OF 3,845'
 MD ON 11/24/2017**

**K3 Oil & Gas: Nugen #1-6,
 Sec. 6, T34S, R2E of Sumner
 Co., Ks**



MCWL 1017 IR