KOLAR Document ID: 1777924

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 # 4941
Name: Union Valley Petroleum Corporation
Address 1: 5302 N. US HWY 81
Address 2:
City: ENID State: OK Zip: 73701 + 9760
Contact Person: Dustin Johnson
Phone: (580) 237-3959
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Chuck Zorio
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 #:

03/18/2024	3/25/2024	04/24/2024
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-191-22863-00-00
Spot Description:
NE - NW - SE - NE Sec. 36 Twp. 33 S. R. 4 ☐ East ☑ West
1420 Feet from ☑ North / ☐ South Line of Section
870 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: Sumner
Lease Name: KING Well #: 1-36
Field Name:
Producing Formation: Kansas City
Elevation: Ground: 1221 Kelly Bushing: 1234
Total Vertical Depth: 4675 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 310 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: 55000 ppm Fluid volume: 480 bbls
Dewatering method used: Evaporated
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: 05/16/2024
☐ **Confidential Release Date:** 05/16/2026
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Kelsey Cox **Date:** 05/16/2024

Operator Name: Union Valley Petroleum Corporation Lease Name: KING Well #: 1-36

Sec. 36 Twp. 33 S. R. 4 ☐ East ☑ West County: Sumner

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
Kansas City	3476	-2242
Mississippi	4126	-2892
Woodford	4520	-3286
Simpson	4554	-3320

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
Conductor	20	16	65	40	8 Sk Grout	20	n/a
Surface	12.25	8.625	24	310	Class a	225	2% gel, 1/4# floral, 3% CaCl2
Production	7.875	5.5	15.5	4675	Class a	140	5# Kolseal, 1# Phenoseal, 1/4# CFl,

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: 05/15/2024

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	10	2	10	200	42

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☑ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
3702	3707

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)*
3	3702	3707			

TUBING RECORD: Size: 2.875 Set At: 3777 Packer At:

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

Form	ACO1 - Well Completion
Operator	Union Valley Petroleum Corporation
Well Name	KING 1-36
Doc ID	1777924

All Electric Logs Run

Dual Induction
Microlog
Density-Neutron
Sonic

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Operator	Union Valley Petroleum Corporation
Well Name	KING 1-36
Doc ID	1777924

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	20	16	65	40	8 Sk Grout	20	n/a
Surface	12.25	8.625	24	310	Class a	225	2% gel, 1/4# floral, 3% CaCl2
Production	7.875	5.5	15.5	4675	Class a	140	5# Kolseal, 1# Phenoseal, 1/4# CFl,

GEOLOGICAL WELL SITE SERVICE
OFFICE: 325-655-4356
WEB SITE: www.geosite.us E-MAIL: E-mail:geosite@geosite.us

HYDROCARBON LOG

Vertical Log

COMPANY:	UNION VALLEY PETROLEUM CORPORATION		
WELL:	KING #1-36		
FIELD:	N. CALDWELL		
COUNTY:	SUMNER	STATE:	KS
API #:	15-191-22863	AFE #:	

LEGAL LOCATION

SEC. 36-33S-4W NE/NW/SE/NE
1420' FNL & 870' FEL

LAT: LONG:
Latitude and Longitude are of Datum type: NAD27

ELEVATION

KB:	1234
DF:	1232
GL:	1221

Log Measured From
KB Elevation

LOGGING INTERVAL

START DATE:	3/20/2024	END DATE:	
HOLE START DEPTH:	1400	HOLE END DEPTH:	4675

LOGGING UNIT	LOGGERS	
Unit #12	RODDY ROSSON	BRICE WINTERS

RIG INFORMATION

CONTRACTOR:	DUKE
RIG NUMBER:	7
RIG PHONE:	620-617-0217

MUD INFORMATION

CONTRACTOR:	MUD-CO
ENGINEER:	RICK HUGHES
PHONE:	620-791-7623

TOOL PUSHER INFORMATION

TOOL PUSHER:	TIM ARELL
PUSHER PHONE:	620-617-0217

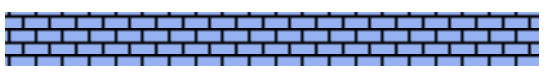
COMPANY INFORMATION

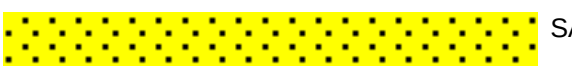
REP:	DUSTIN JOHNSON
PHONE:	580-541-6251

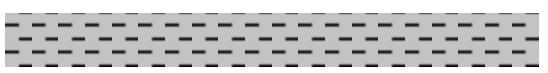
JOBID: 18256 comp76-PAWM9-5L084 Server Version: 4.24.4.196 Log Version: 4.24.4.196 AG


CHERT

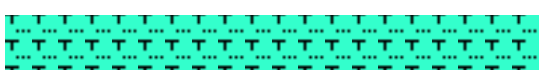

DOLOMITE


LIME


SAND


SHALE


SILTSTONE

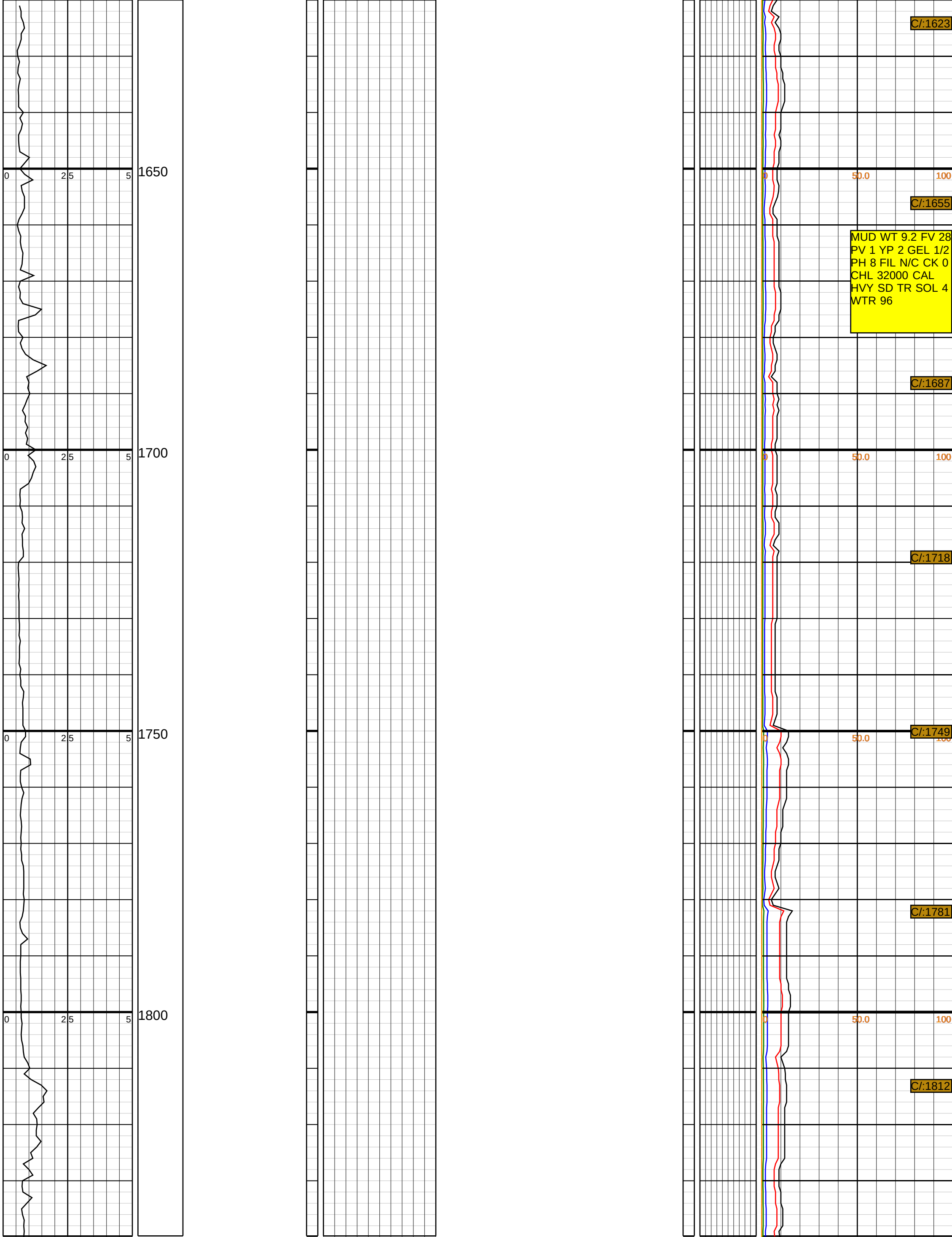

HOT SHALE


SHALEY LIME

C4 ISO
C3
C2
C1

DRILLRATE MIN/FT	DEPTH	NOTES	POR	LITHOLOGY	DESCRIPTIONS	CUT	FLUOR	HOT WIRE


0
2.5
5
1400
DEPTH: 1400
INC:0.25
RIGGED UP LOGGING UNIT AT 1420' ON 3/20/24
0
50.0
100
TRAP CHECK 175U
C/:1432
1450
C/:1464
C/:1496
1500
C/:1527
1550
C/:1559
C/:1591
1600


0
2.5
5
1650
1700
1750
1800
C/:1623
0
50.0
100
C/:1655
MUD WT 9.2 FV 28
PV 1 YP 2 GEL 1/2
PH 8 FIL N/C CK 0
CHL 32000 CAL
HVY SD TR SOL 4
WTR 96
C/:1687
C/:1718
C/:1749
C/:1781
C/:1812

0 2.5 5

1850

1900

1950

2000

2050

DEPTH: 1907
INC:.50

DEPTH: 2000
WOB:8K
RPM:120
SPM:56
PP:500

WELL SPUD ON 3/18/24. SET 8 5/8" CASING AT 310'. PRESENTLY DRILLING W/BIT #2, 7 7/8" JZ 616, JETS: 6-13S. DI. 310'. DP. 4 1/2" XH, DC. 6 1/4" 537'. PUMP: NATIONAL K-500A 6 X 15. MUD TYPE: NATIVE. STARTED FULL LOGGING PROCEDURES AT 1900' AT 8:00PM.

SH: LT GY-GY VF-F TEX AND SM SME ELG ANG AND SME BLKY SME CARB SCAT VF PYR SPECS TR MICA SFT-M HD SIL-SME SL CALC

SS: OFF WH-LT GY VF-F SUB ANG GR CONSOL TT MED-PRED WELL SORT FR-WELL CMT/SIL-CALC MTX SME CLN PRED SHY SME/CARB INCL SCAT MICA SME FRI M HD-FRM TR VP INTGRAN POR NO VIS FLOR NO CUT

SH: LT GRY TO GRY TO SME DRK GRY, VF TO F TEXT, SME SLTY TEXT, BLKY TO SUB BLKY TO ELNG, SME SS, SME LS, SME SLTST, VF PYR SPECS, SFT TO M HRD, SIL TO SLI CALC

LS: OFF WHT TO WHT TO CRM TO LT TAN TO TAN, VF TO F XLN TO VF CXLN, SUB BUIFF TO SME BUFF, SME CHLKY, SME CLN, SME AREN, SME SUC, SME SNDY, SME SS, SME FREE SH, SFT TO M HRD TO FRM, VP TO P TO SCAT FAIR INTERXLN POR, SCAT MINERAL FLUOR, NO CUTS

0 50.0 100

C/:1843

C/:1875

C/:1907

C/:1938

C/:1970

DEPTH: 1986
MW-IN:9.1
MW-OUT:28

CARBIDE LAG 139U
27:00 MIN.

C/:2002

C/:2034

SH GAS 14U

NO CUTS

SH: LT GRY TO GRY TO SME DRK GRY, VF TO F TEXT, SME SLTY TEXT, BLKY TO SUB BLKY TO ELNG, SME LS, SME SLTST, VF PYR SPECS, SFT TO M HRD, SIL TO SLI CALC

LS: OFF WHT TO WHT TO CRM TO LT TAN TO TAN, VF TO F XLN TO VF CXLN, SUB BUIFF TO SME BUFF, SME CHLKY, SME CLN, SME AREN, SME SUC, SME SNDY, SME SS, SME FREE SH, SFT TO M HRD TO FRM, VP TO P TO SCAT FAIR INTERXLN POR, SCAT MINERAL FLUOR, NO CUTS

SH: LT GRY TO GRY TO SME DRK GRY, VF TO F TEXT, SME SLTY TEXT, BLKY TO SUB BLKY TO ELNG, SME LS, SME SLTST, SCAT SS, VF PYR SPECS, SFT TO M HRD, SIL TO SLI CALC

LS: OFF WHT TO WHT TO CRM TO LT TAN TO TAN, VF TO F XLN TO VF CXLN, SUB BUIFF TO SME BUFF, SME CHLKY, SME CLN, SME AREN, SME SUC, SME SNDY, SME SS, SME FREE SH, SFT TO M HRD TO FRM, VP TO P TO SCAT FAIR INTERXLN POR, SCAT MINERAL FLUOR, NO CUTS

SH: LT GRY TO GRY TO SME DRK GRY, VF TO F TEXT, SME SLTY TEXT, BLKY TO SUB BLKY TO ELNG, SME LS, SME SLTST, SCAT SS, VF PYR SPECS, SFT TO M HRD, SIL TO SLI CALC

LS: OFF WHT TO CRM TO LT GRY, VF TO F XLN TO VF CXLN, SME SUB BUFF TO BUFF, PRED CLN, SME SLI SHLY, SME SUC, SME AREN, SCAT W/SEC RECXLN ON EDGES AND FACES, SME FREE SH, SFT TO M HRD TO FRM, VP TO P INTERXLN POR, SME MINERAL FLUOR, NO CUTS

0 2.5 5

2100

2150

2200

2250

3/21/2024

DEPTH: 2250
WOB:8
RPM:110-120
SPM:56
PP:500

C/:2064

C/:2095

0 50.0 100

SHOW 13U

CON GAS 11U

C/:2127

SHOW 11U

0 50.0 100

CON GAS 13U

C/:2159

SH GA 29U

SH GAS 22U

CON GAS 11U

C/:2191

0 50.0 100

CON GAS 13U

C/:2223

DEPTH: 2230
MW-IN:9.4
VIS:28

SHOW 13U

0 50.0 100

C/:2255

0 2.5 5

2300

2350

2400

2450

DEPTH: 2381
INC:0.75

LS: OFF WHT TO CRM TO LT GRY, VF TO F XLN TO VF CXLN, SME SUB BUFF TO BUFF, PRED CLN, SME SLI SHLY, SME SUC, SME AREN, SCAT W/SEC RECXLN ON EDGES AND FACES, SME FREE SH, SFT TO M HRD TO FRM, VP TO P INTERXLN POR, SME MINERAL FLUOR, NO CUTS

SH: LT GY-GY-PURPLE SME MOTT VF-F TEX AND SM SME ELG ANG AND SME FLKY SME CARB SCAT VF PYR SPECS TR MICA TR LMY SFT-M HD SIL-SME V CALC

SH: LT GY-GY-DK GY-SME RED SME PURPLE VF-F TEX AND SSM SME ELG ANG AND FLKY SME BLKY SME CARB SCAT VF PYR SPECS SFT-M HD SIL-SME CALC

LS: CRM-TAN-LT BRN-DK BRN SME MOTT SME SUB BUFF VF-F XL-F CXL DNS SME CLN SME SHY SME SUC SL ARG TR FOS SME/SEC RECXL ON EDGES SFT-M HD-FRM VP-P INTXL POR TR DULL GOLD MNRL FLOR NO CUT

LS: SME OFF WH-CRM-TAN-LT BRN-BRN SME V MOTT SME SUB BUFF VF-F XL-F CXL DNS-SME SUB CHLKY SME CLN SME SHY SME SUC SL AREN SL ARG TR FOS SME/SEC RECXL ON EDGES SFT-M HD-FRM VP-P INTXL POR TR V DULL GOLD MNRL FLOR NO CUT

SH: LT GY-GY-PURPLE SME MOTT VF-F TEX AND SM SME ELG ANG AND SME FLKY SME CARB SCAT VF PYR SPECS TR MICA TR LMY SFT-M HD SIL-SME V CALC

0 50.0 100

C/:2287

C/:2318

SH GAS 19U

C/:2350

C/:2381

SH GAS 18U

C/:2413

C/:2445

SL SHOW 17U

C/:2477

SH GAS 18U

0 2 5

2500

0 2 5

2550

0 2 5

2600

0 2 5

2650

0 2 5

2700

LS: WH-CRM-TAN-LT BRN-BRN SME V MOTT SME SUB BUFF VF-F XL-F CXL DNS-SME SUB CHLKY SME CLN SME SHY SME SUC SL AREN SL ARG TR FOS SME/SEC RECXL ON EDGES SFT-M HD-FRM VP-P INTXL POR TR V DULL GOLD MNRL FLOR NO CUT

SH: DK GY-BLK VF-F TEX AND SM SME VF GRAN TEX AND ASHY V CARB SCAT VF PYR SPECS SFT-M HD SIL-SME SL CALC

LS: CRM-TAN-LT BRN-DK BRN SME MOTT SME SUB BUFF VF-F XL-F CXL DNS SME CLN SME SHY SME SUC SL ARG TR FOS SME/SEC RECXL ON EDGES SFT-M HD-FRM VP-P INTXL POR TR DULL GOLD MNRL FLOR NO CUT

SH: LT GY-GY-LT GRN VF-F TEX AND SM SME VF GRAN TEX AND SLTY SME ELG ANG AND SME FLKY SME CARB SCAT VF PYR SPECS SCAT MICA SFT-M HD SIL-SME SL CALC

SH: LT GY-GY VF-F TEX AND SM SME VF GRAN TEX AND SLTY SME ELG ANG AND SME FLKY SME CARB SCAT VF PYR SPECS SCAT MICA SFT-M HD SIL-SME SL CALC

0 50.0 100

C/:2509

C/:2539

MUD WT 9.5 FV 33
PV 6 YP 10 GEL 3/5
FIL N/C PH 7
CHL 18,000 CAL
HVY SD N/C SOL 7.5 WTR 92.5

C/:2570

HOT SH GAS 52U

0 50.0 100

C/:2602

C/:2632

0 50.0 SH GAS 26U

C/:2664

SH GAS 30U

C/:2695

0 50.0 100

SH GAS 23U

0 2 5

2750

0 2 5

2800

BASE OF
HEEBNER
HOT SHALES
MD: 2806'
TVD; 2806'
SS; (-1572)

0 2 5

2850

DEPTH: 2845
WOB:8
RPM:110
SPM:56
PP:500

0 2 5

2900

DEPTH: 2915
INC:.75

SH: LT GY-GY-LT GRN-TRS LT BRN VF-F TEX AND SM SME ELG ANG AND SME FLKY SME BLKY SME CARB SCAT VF PYR SPECS TR MICA SME LMY SFT-M HD SIL-CALC

LS: TRS CRM-LT BRN-LT GREENISH GY SME MOTT SME SUB BUFF VF-F XL DNS SME CLN PRED SHY SL SUC M HD-FRM TR VP INTXL POR NO VIS FLOR NO CUT

SH: V DK GY-BLK VF-F TEX AND SM SME VF GRAN TEX AND ASHY V CARB SCAT VF PYR SPECS SFT-M HD SIL-SME CALC

LS: SME OFF WH-TRS CRM-LT BRN-LT GREENISH GY SME MOTT SME SUB BUFF VF-F XL DNS SME CLN PRED SHY SL SUC M HD-FRM TR VP INTXL POR NO VIS FLOR NO CUT

SH: LT GY-GY-DK GY-TRS BLK VF-F TEX AND SM SME VF GRAN TEX AND SL ASHY SME ELG ANG AND FLKY SME V CARB SCAT VF PYR SPECS SFT-M HD SIL-SME CALC

LS: OFF WH-PRED CRM-TAN-LT BRN-BRN-SME DK BRN SME MOTT SME SUB BUFF VF-F XL-F CXL DNS PRED CLN SME SHY SME SUC SL ARG TR AREN TRS FOS SME/SEC RECXL ON FACES AND EDGES SFT-M HD-FRM VP-P SME FR INTXL POR TRS FRAC POR SCAT DULL GOLD MNRL FLOR NO CUT

SH: LT GRY TO GRY TO SME DRK GRY, VF TO F TEXT, SME SLTY TEXT, ELNG TO SUB BLKY TO BLKY, SCAT VF PYR SPECS, SME SLTST, SFT TO M HRD, SIL TO SLI CALC

SH GAS 23U

C/:2726

SH GAS 19U

0 50.0 100

C/:2756

SH GAS 26U

HOT SH GAS 54U

C/:2788

HOT SH GAS 68U

0 50.0 100

SHOW 32U

SHOW 28U

CON GAS 30U

0 50.0 100

C/:2852

SH GAS 40U

CON GAS 38U

C/:2883

SHOW 33U

0 50.0 100

SHOW 32U

CON GAS 36U

C/:2915

C/:2820

C/:2947

2950

SH: LT GRY TO GRY TO SME DRK GRY, VF TO F TEXT, SME SLTY TEXT, ELNG TO SUB BLKY TO BLKY, SCAT VF PYR SPECS, SME SLTST, SCAT SS, SCAT LS, SFT TO M HRD, SIL TO SLI CALC

C/:2979

3000

DISPLACE MUD

C/:3011

SH GAS/CON GAS 18U

SH: LT GRY TO GRY TO SME DRK GRY, VF TO F TEXT, SME SLTY TEXT, ELNG TO SUB BLKY TO BLKY, SCAT VF PYR SPECS, SME SLTST, SCAT SS, SCAT LS, SFT TO M HRD, SIL TO SLI CALC

CON GAS 9U

C/:3043

3050

SH: LT GRY TO GRY TO SME DRK GRY, VF TO F TEXT, SME SLTY TEXT, ELNG TO SUB BLKY TO BLKY, SCAT VF PYR SPECS, SME SLTST, SFT TO M HRD, SIL TO SLI CALC

CON GAS 9U

C/:3074

SH: LT GRY TO GRY TO SME DRK GRY, VF TO F TEXT, SME SLTY TEXT, ELNG TO SUB BLKY TO BLKY, SCAT VF PYR SPECS, SME SLTST, SFT TO M HRD, SIL TO SLI CALC

3100

HASKEL LS
MD: 3106'
SS: (-1872)

CON GAS 9U

C/:3106

SH: LT GRY TO GRY TO SME DRK GRY, VF TO F TEXT, SME SLTY TEXT, ELNG TO SUB BLKY TO BLKY, SCAT VF PYR SPECS, SME SLTST, SFT TO M HRD, SIL TO SLI CALC

CON GAS 9U

C/:3138

TONKAWA
MD: 3138'
SS: (-1905)

3150

SS: OFF WHT TO WHT TO SME CLR TO LT GRY TO TRC LT BRWN, VF TO F SUB ANG TO SUB RND GR CONSOL, SME TT, MOD TO WELL SORT, FAIR TO WELL CMT W/SIL TO SLI CALC MTX, SME CLN, SME

SHLY, SME W/CARB SPECS IMBED, SME SLTY, SME SLTST, SCAT SH, FRI, SFT TO M HRD TO SME FRM, VP TO P TO SME FAIR INTERGRN POR, NO FLUOR OR CUTS

CON GAS 10U

C/:3170

SS: OFF WHT TO WHT TO SME CLR TO LT GRY TO TRC LT BRWN, VF TO F SUB ANG TO SUB RND GR CONSOL, SME TT, MOD TO WELL SORT, FAIR TO WELL CMT W/SIL TO SLI CALC MTX, SME CLN, SME SHLY, SME W/CARB SPECS IMBED, SME SLTY, SME SLTST, SCAT SH, FRI, SFT TO M HRD TO SME FRM, VP TO P TO SME FAIR INTERGRN POR, NO FLUOR OR CUTS

CON GAS 12U

0 2.5 5

3200

0 50.0 100

C/:3202

SHOW 13U

SH GAS 11U

SHOW 11U

C/:3234

SH: LT GRY TO GRY TO SCAT DRK GRY, VF TO F TEXT, SME SLTY TEXT, ELNG TO SUB BLKY TO BLKY, SME SLTST, SME SS, SCAT VF PYR SPECS, SFT TO M HRD, SIL TO SLI CALC

MW-IN:8.8
VIS:54
LCM:4#
HULLS

0 2.5 5

3250

0 50.0

CON GAS 11U

C/:3265

SH GAS 13U

3/22/2024

SH GAS 13U

SH: LT GRY TO GRY TO SCAT DRK GRY, VF TO F TEXT, SME SLTY TEXT, ELNG TO SUB BLKY TO BLKY, SME SLTST, SME SS, SCAT VF PYR SPECS, SFT TO M HRD, SIL TO SLI CALC

CON GAS 13U

C/:3297

0 2.5 5

3300

0 50.0 100

SH: LT GRY TO GRY TO SCAT DRK GRY, VF TO F TEXT, SME SLTY TEXT, ELNG TO SUB BLKY TO BLKY, SME SLTST, SME SS, SCAT VF PYR SPECS, SFT TO M HRD, SIL TO SLI CALC

CON GAS 12U

C/:3329

CARBIDE LAG 137U
33:50 MIN.

SH: LT GRY TO GRY TO SCAT DRK GRY, VF TO F TEXT, SME SLTY TEXT, ELNG TO SUB BLKY TO BLKY, SME SLTST, SME SS, SCAT VF PYR SPECS, SFT TO M HRD, SIL TO SLI CALC

MW-IN:9.0
VIS:54
LCM:4#
HULLS

0 2.5 5

3350

0 50.0

CON GAS 15U

C/:3361

SH GAS 46U

SH: LT GRY TO GRY TO SCAT DRK GRY

0 2 5

3400

DEPTH: 3393
INC:.75

SH: LT GRY TO GRY TO SCAT DRK GRY, VF TO F TEXT, SME SLTY TEXT, ELNG TO SUB BLKY TO BLKY, SME SLTST, SME SS, SCAT VF PYR SPECS, SFT TO M HRD, SIL TO SLI CALC

CON GAS 28U

C/:3393

SH GAS 28U

0 50.0 100

CFS @3425'

SH: LT GRY TO GRY TO SCAT DRK GRY, VF TO F TEXT, SME SLTY TEXT, ELNG TO SUB BLKY TO BLKY, SME SLTST, SCAT SS, SCAT LS, SCAT VF PYR SPECS, SFT TO M HRD, SIL TO SLI CALC

SH GAS 32U

CON GAS 31U

C/:3425

DEPTH: 3430
WOB:8
RPM:110
SPM:56
PP:550

SH: LT GRY TO GRY TO SCAT DRK GRY, VF TO F TEXT, SME SLTY TEXT, ELNG TO SUB BLKY TO BLKY, SME SLTST, SCAT SS, SCAT LS, SCAT VF PYR SPECS, SFT TO M HRD, SIL TO SLI CALC

SH GAS 28U

3450

BASE OF AVANT HS
MD: 3466'
SS: (-2232)

SH: DK GY-BLK VF-F TEX AND SM SME VF GRAN TEX AND ASHY V CARB SCAT VF PYR SPECS SFT-M HD SIL-SME CALC

C/:3457

HOT SH GAS 40U

KANSAS CITY
MD: 3476'
TVD: 3476'
SS: (-2242)

LS: WH-CRM-TAN-LT BRN SME SUB BUFF VF-F XL-SME F CXL SME CHLKY TEX PRED CLN SME SUC SL AREN SME ARG TRS FOS TR/SEC RECXL ON EDGES SFT-M HD-FRM VP-P-TR FR INTXL POR TR POS FRAC POR TR PALE YEL FLOR/WEAK MILKY YEL CUT/FAINT YEL RING ABUNDANT DULL GOLD MNRL FLOR

SHOW 29U

C/:3488

CIRC.
SAMPLES
3488'

3500

SHOW 24U

C/:3520

LS: WH-OFF WH-CRM-TAN-LT BRN-BRN SME MOTT SME SUB BUFF VF-F XL-F CXL SME F CHLKY TEX SME DNS PRED CLN SME SHY SME SUC ARG SME SL AREN SME FOS SME/SEC RECXL ON EDGES SFT-M HD-FRM VP-P-FR INTXL POR SCAT VIS FRAC POR ABUNDANT DULL GOLD MNRL FLOR NO CUT

MUS WT 9.0 FV 47
PV 13 YP 13 GEL
6/22 PH 11.5 FIL
8.0 CK 2 CHL
2200 CAL 40
SD TR SOL 4.9
WTR 95.1 LCM 2#

3550

C/:3552

SHOW 19U

LS: TRS WH-OFF WH-PRED TAN-LT BRN-SME DK BRN SME V MOTT SME SUB BUFF VF-F XL-F CXL SME DNS SME SUB CHLKY PRED V CLN SME SUC SL AREN SME ARG TRS FOS SME/SEC RECXL ON EDGES AND TR ON FACES SFT-M HD-FRM VP-P-TR FR INTXL POR TRS VIS FRAC POR ABUNDANT V DULL GOLD MNRL FLOR NO CUT

SL SHOW 16U

C/:3584

SHOW 20U

3600

LS: OFF WH-PRED TAN-LT BRN-BRN-SME DK BRN SME V MOTT SME SUB BUFF VF-F XL-F CXL SME DNS SME SUB CHLKY PRED V CLN SME SUC SL AREN SME ARG TRS FOS SME/SEC RECXL ON EDGES AND TR ON FACES SFT-M HD-FRM VP-P-TR FR INTXL POR TRS VIS FRAC POR ABUNDANT V DULL GOLD MNRL FLOR NO CUT

C/:3615

HOT SH GAS 57U

LS: TR WH-CRM-LT BRN-DK BRN SME MOTT SME BUFF-PRED SUB BUFF VF-F XL-F CXL DNS-TRS SUB CHLKY PRED CLN SME SHY SME SUC SL ARG SME SL AREN SME/SEC RECXL ON EDGES TRS FOS SFT-M HD-FRM VP-P-TR FR INTXL POR TR POS FRAC POR TR PALE YEL FLOR/WEAK SLOW SL STRMING YEL CUT/FAINT YEL RING NO ODOR

C/:3647

3650

SHOW 25U

SHOW 55U

BASE OF CHECKERBOARD HOT SH
MD: 3688'
TVD: 3688'
SS: (-2454)

SH: V DK GY-BLK VF-F TEX AND SM SME VF GRAN TEX AND ASHY V CARB SCAT VF PYR SPECS SFT-M HD SIL-SME SL CALC

C/:3679

HOT SH GAS 71U

SCALE CHANGE

0 - 200

LS: TRS OFF WH-CRM-PRED TAN-LT BRN SUB BUFF VF-F XL-PRED F CXL SME DNS SME SUB CHLKY PRED V CLN SME V SUC SME AREN TR/SEC RECXL ON EDGES/TR ON FACES TR FOS SCAT LT BRN O-STNING SFT-M HD-SME FRM P-FR-TR GOOD INTXL POR SCAT VUG POR SCAT FRS POS FRAC POR ABUNDANT MED-BRITE YEL FLOR/STRONG FLASH-STRMING YEL CUT/HVY YEL RING MED-SL STRONG OIL ODOR

3700

DST

3/23/2024

CIRC. SAMPLES AT 3711'

DEPTH: 3711
INC:1.00

SHOW 114U

BOTTOMS UP GAS AFTER DST 816U.

STOPPED AT 3711' FOR DST, HAD 116 UNITS OF TRIP GAS ON THE SHORT TRIP, DST #1 INTERVAL: 3698'-3711', FOR DST #1 INFORMATION SEE NOTES. NEW BIT #3 7 7/8" JZ616 JETS:6X13S DEPTH IN: 3711', OBF:3401', HRS:54. BOTTOMS UP GAS AFTER DST 816 UNITS WITH NOTICABLE OIL ODOR ON THE PITS.

CON GAS 184U

C/:3742

RECYCLED DST GAS 202U

3750

MUD WT 8.9
FV 63 PV 20 YP 17 GEL 11/39
PH 10.5 FIL 7.6
CK 2 CHL 5000
CAL 40 SD TR
SOL 4 WTR 96
LCM 2#

SH: LT GY-LT GRN VF-F TEX AND SM SME VF GRAN TEX AND V SLTY/SME GRADING TO SLTSN SME/SS INCL SCAT VF PYR SPECS SCAT CARB INCL SFT-M HD SIL-SME CALC

C/:3774

SH GAS 91U

SH GAS 98U

3800

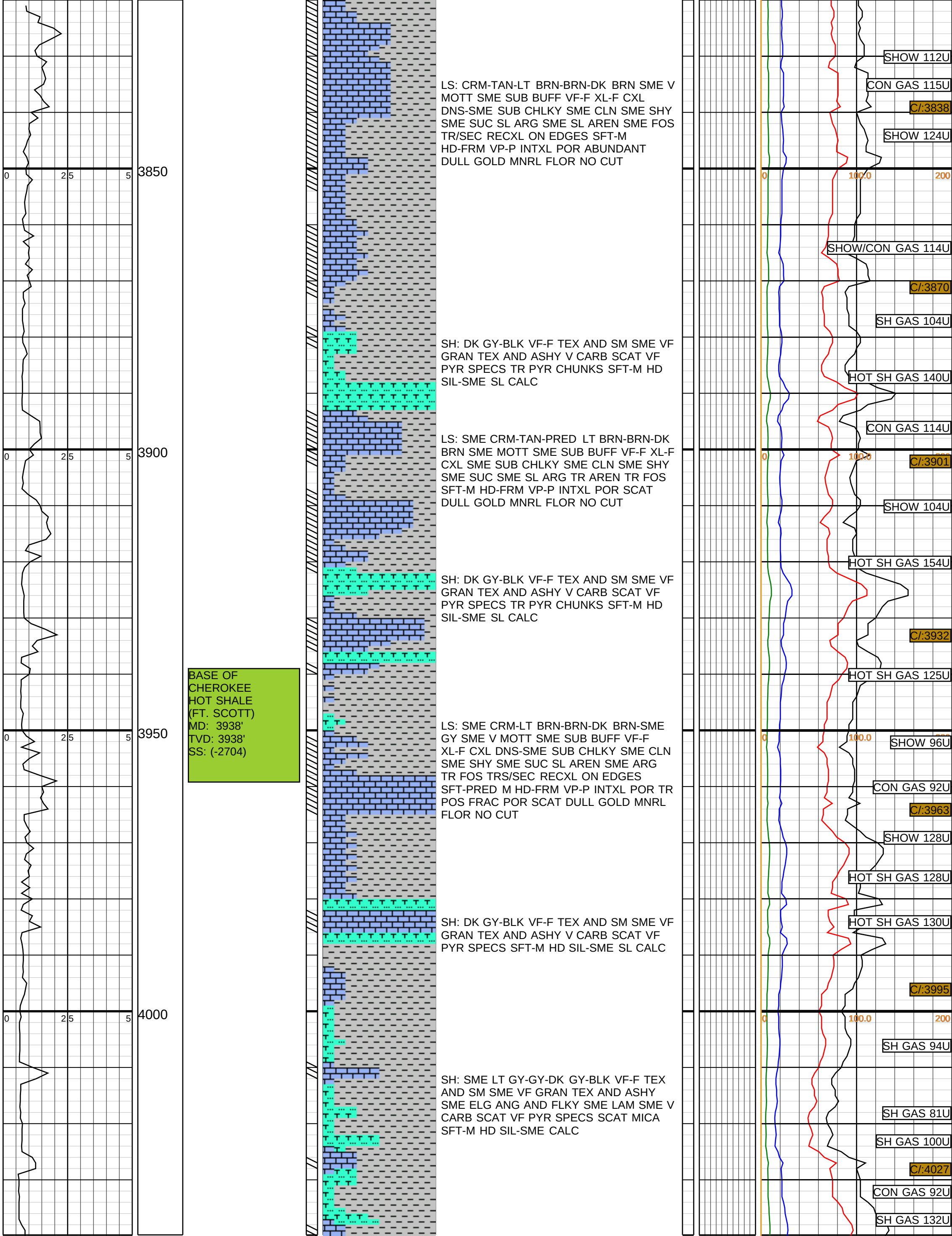
MARMATON
MD: 3800'
TVD: 3800'
SS: (-2566)

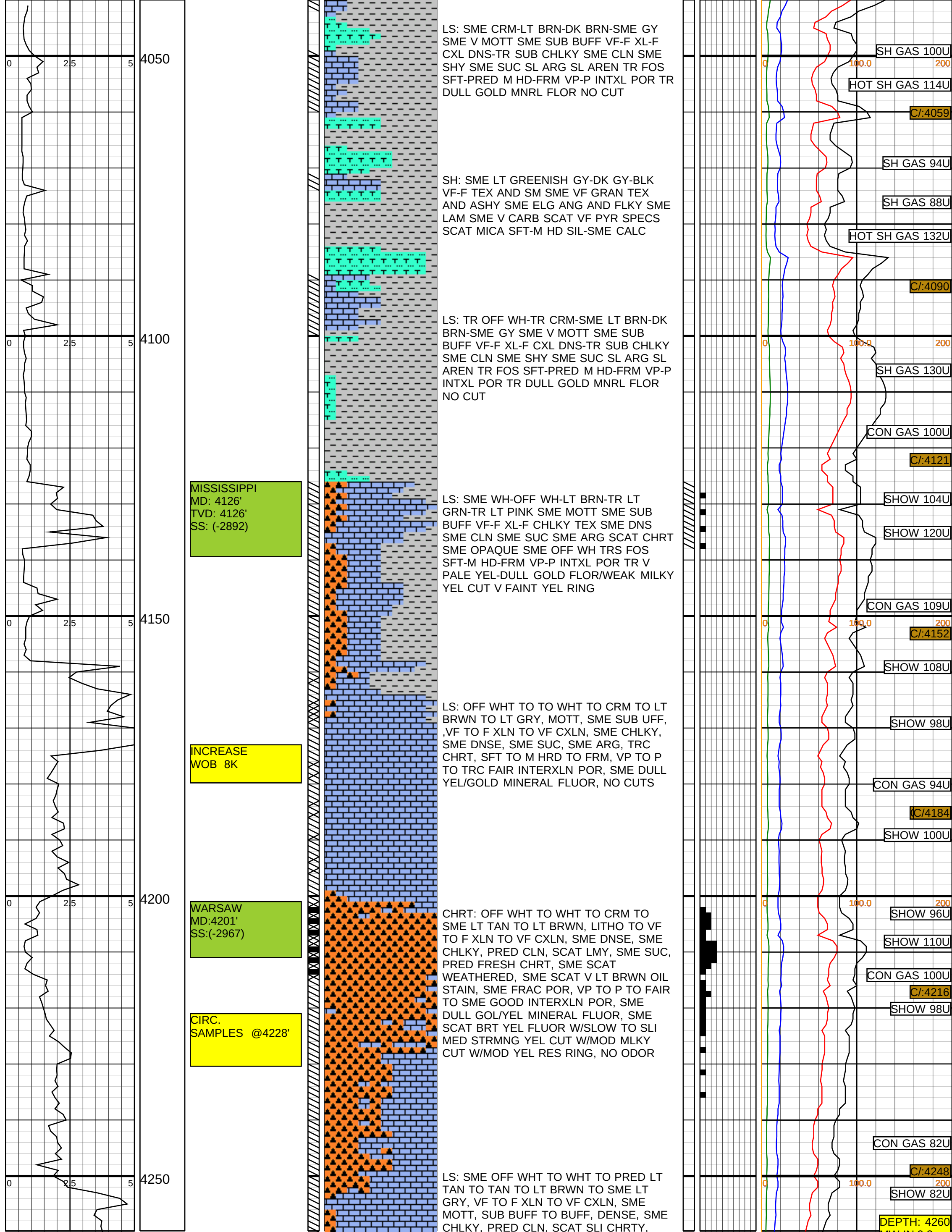
LS: SME CRM-LT BRN-BRN-TR DK BRN SME V MOTT SME SUB BUFF VF-F XL-F CXL DNS PRED CLN SME SL SHY SME SUC SL AREN TR ARG TR FOS TR/SEC RECXL ON EDGES SFT-PRED M HD-FRM VP-P INTXL PORR TR POS FRAC POR TR PALE YEL FLOR/WEAK MILKY YEL CUT/FAINT YEL RING ABUNDANT DULL GOLD MNRL FLOR

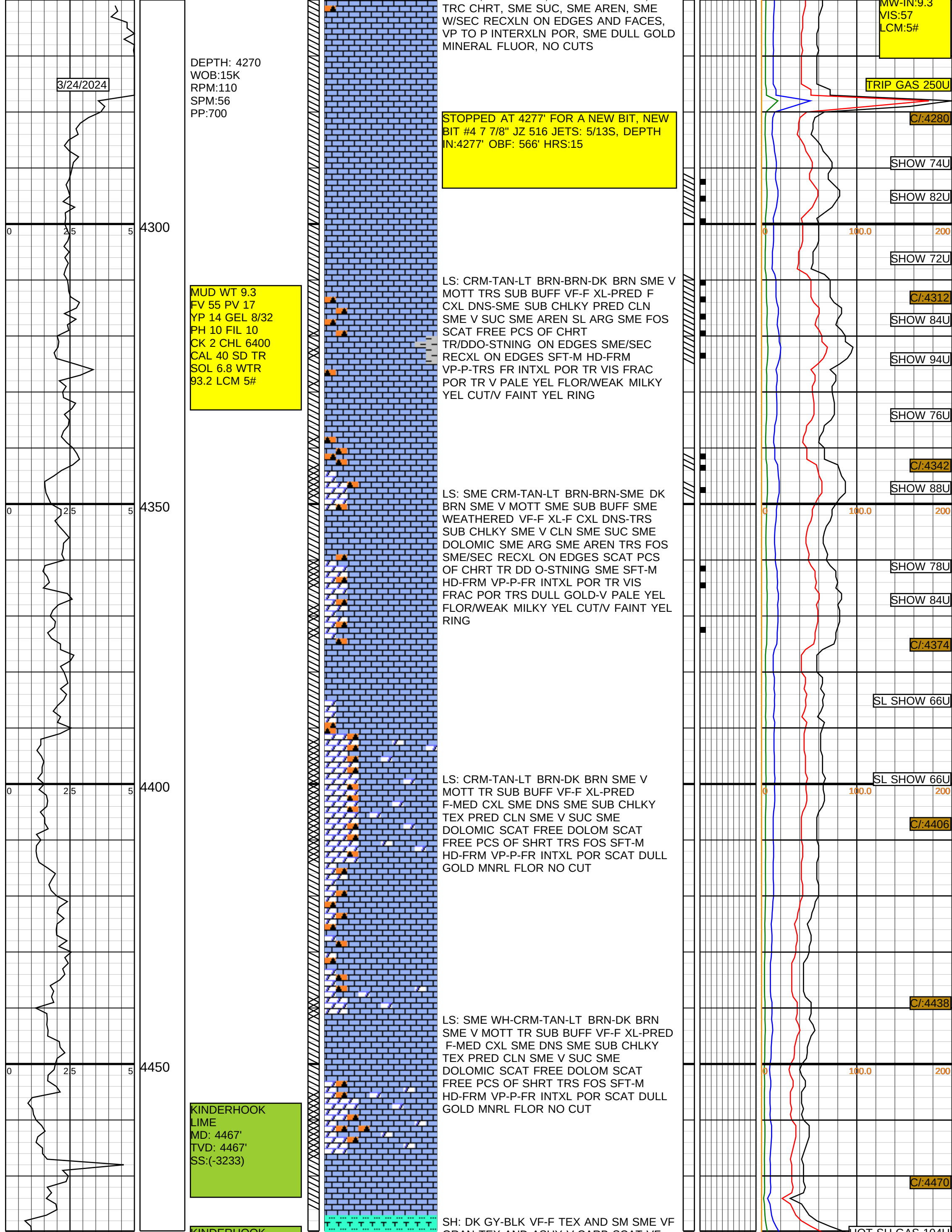
SHOW 106U

C/:3806

HOT SH GAS 141U


0
2.5
5
3850
3900
3950
4000
BASE OF CHEROKEE HOT SHALE (FT. SCOTT)
MD: 3938'
TVD: 3938'
SS: (-2704)
LS: CRM-TAN-LT BRN-BRN-DK BRN SME V MOTT SME SUB BUFF VF-F XL-F CXL DNS-SME SUB CHLKY SME CLN SME SHY SME SUC SL ARG SME SL AREN SME FOS TR/SEC RECXL ON EDGES SFT-M HD-FRM VP-P INTXL POR ABUNDANT DULL GOLD MNRL FLOR NO CUT
SH: DK GY-BLK VF-F TEX AND SM SME VF GRAN TEX AND ASHY V CARB SCAT VF PYR SPECS TR PYR CHUNKS SFT-M HD SIL-SME SL CALC
LS: SME CRM-TAN-PRED LT BRN-BRN-DK BRN SME MOTT SME SUB BUFF VF-F XL-F CXL SME SUB CHLKY SME CLN SME SHY SME SUC SME SL ARG TR AREN TR FOS SFT-M HD-FRM VP-P INTXL POR SCAT DULL GOLD MNRL FLOR NO CUT
SH: DK GY-BLK VF-F TEX AND SM SME VF GRAN TEX AND ASHY V CARB SCAT VF PYR SPECS TR PYR CHUNKS SFT-M HD SIL-SME SL CALC
LS: SME CRM-LT BRN-BRN-DK BRN-SME GY SME V MOTT SME SUB BUFF VF-F XL-F CXL DNS-SME SUB CHLKY SME CLN SME SHY SME SUC SL AREN SME ARG TR FOS TRS/SEC RECXL ON EDGES SFT-PRED M HD-FRM VP-P INTXL POR TR POS FRAC POR SCAT DULL GOLD MNRL FLOR NO CUT
SH: DK GY-BLK VF-F TEX AND SM SME VF GRAN TEX AND ASHY V CARB SCAT VF PYR SPECS SFT-M HD SIL-SME SL CALC
SH: SME LT GY-GY-DK GY-BLK VF-F TEX AND SM SME VF GRAN TEX AND ASHY SME ELG ANG AND FLKY SME LAM SME V CARB SCAT VF PYR SPECS SCAT MICA SFT-M HD SIL-SME CALC
SHOW 112U
CON GAS 115U
C/:3838
SHOW 124U
0
100.0
200
SHOW/CON GAS 114U
C/:3870
SH GAS 104U
HOT SH GAS 140U
CON GAS 114U
C/:3901
SHOW 104U
HOT SH GAS 154U
C/:3932
HOT SH GAS 125U
SHOW 96U
CON GAS 92U
C/:3963
SHOW 128U
HOT SH GAS 128U
HOT SH GAS 130U
C/:3995
SH GAS 94U
SH GAS 81U
SH GAS 100U
C/:4027
CON GAS 92U
SH GAS 132U


4050
4100
4150
4200
4250
0
2.5
5
MISSISSIPPI
MD: 4126'
TVD: 4126'
SS: (-2892)
INCREASE
WOB 8K
WARSAW
MD:4201'
SS:(-2967)
CIRC.
SAMPLES @4228'
LS: SME CRM-LT BRN-DK BRN-SME GY SME V MOTT SME SUB BUFF VF-F XL-F CXL DNS-TR SUB CHLKY SME CLN SME SHY SME SUC SL ARG SL AREN TR FOS SFT-PRED M HD-FRM VP-P INTXL POR TR DULL GOLD MNRL FLOR NO CUT
SH: SME LT GREENISH GY-DK GY-BLK VF-F TEX AND SM SME VF GRAN TEX AND ASHY SME ELG ANG AND FLKY SME LAM SME V CARB SCAT VF PYR SPECS SCAT MICA SFT-M HD SIL-SME CALC
LS: TR OFF WH-TR CRM-SME LT BRN-DK BRN-SME GY SME V MOTT SME SUB BUFF VF-F XL-F CXL DNS-TR SUB CHLKY SME CLN SME SHY SME SUC SL ARG SL AREN TR FOS SFT-PRED M HD-FRM VP-P INTXL POR TR DULL GOLD MNRL FLOR NO CUT
LS: SME WH-OFF WH-LT BRN-TR LT GRN-TR LT PINK SME MOTT SME SUB BUFF VF-F XL-F CHLKY TEX SME DNS SME CLN SME SUC SME ARG SCAT CHRT SME OPAQUE SME OFF WH TRS FOS SFT-M HD-FRM VP-P INTXL POR TR V PALE YEL-DULL GOLD FLOR/WEAK MILKY YEL CUT V FAINT YEL RING
LS: OFF WHT TO TO WHT TO CRM TO LT BRWN TO LT GRY, MOTT, SME SUB UFF, ,VF TO F XLN TO VF CXLN, SME CHLKY, SME DNSE, SME SUC, SME ARG, TRC CHRT, SFT TO M HRD TO FRM, VP TO P TO TRC FAIR INTERXLN POR, SME DULL YEL/GOLD MINERAL FLUOR, NO CUTS
CHRT: OFF WHT TO WHT TO CRM TO SME LT TAN TO LT BRWN, LITHO TO VF TO F XLN TO VF CXLN, SME DNSE, SME CHLKY, PRED CLN, SCAT LMY, SME SUC, PRED FRESH CHRT, SME SCAT WEATHERED, SME SCAT V LT BRWN OIL STAIN, SME FRAC POR, VP TO P TO FAIR TO SME GOOD INTERXLN POR, SME DULL GOL/YEL MINERAL FLUOR, SME SCAT BRT YEL FLUOR W/SLOW TO SLI MED STRMNG YEL CUT W/MOD MLKY CUT W/MOD YEL RES RING, NO ODOR
LS: SME OFF WHT TO WHT TO PRED LT TAN TO TAN TO LT BRWN TO SME LT GRY, VF TO F XLN TO VF CXLN, SME MOTT, SUB BUFF TO BUFF, DENSE, SME CHLKY, PRED CLN, SCAT SLI CHRTY,
SH GAS 100U
HOT SH GAS 114U
C/:4059
SH GAS 94U
SH GAS 88U
HOT SH GAS 132U
C/:4090
SH GAS 130U
CON GAS 100U
C/:4121
SHOW 104U
SHOW 120U
CON GAS 109U
C/:4152
SHOW 108U
SHOW 98U
CON GAS 94U
C/:4184
SHOW 100U
SHOW 96U
SHOW 110U
CON GAS 100U
C/:4216
SHOW 98U
CON GAS 82U
C/:4248
SHOW 82U
DEPTH: 4260
0
100.0
200


3/24/2024
0
2.5
5
4300
4350
4400
4450
DEPTH: 4270
WOB:15K
RPM:110
SPM:56
PP:700
MUD WT 9.3
FV 55 PV 17
YP 14 GEL 8/32
PH 10 FIL 10
CK 2 CHL 6400
CAL 40 SD TR
SOL 6.8 WTR
93.2 LCM 5#
KINDERHOOK LIME
MD: 4467'
TVD: 4467'
SS:(-3233)
TRC CHRT, SME SUC, SME AREN, SME W/SEC RECXLN ON EDGES AND FACES, VP TO P INTERXLN POR, SME DULL GOLD MINERAL FLUOR, NO CUTS
STOPPED AT 4277' FOR A NEW BIT, NEW BIT #4 7 7/8" JZ 516 JETS: 5/13S, DEPTH IN:4277' OBF: 566' HRS:15
LS: CRM-TAN-LT BRN-BRN-DK BRN SME V MOTT TRS SUB BUFF VF-F XL-PRED F CXL DNS-SME SUB CHLKY PRED CLN SME V SUC SME AREN SL ARG SME FOS SCAT FREE PCS OF CHRT TR/DDO-STNING ON EDGES SME/SEC RECXL ON EDGES SFT-M HD-FRM VP-P-TRS FR INTXL POR TR VIS FRAC POR TR V PALE YEL FLOR/WEAK MILKY YEL CUT/V FAINT YEL RING
LS: SME CRM-TAN-LT BRN-BRN-SME DK BRN SME V MOTT SME SUB BUFF SME WEATHERED VF-F XL-F CXL DNS-TRS SUB CHLKY SME V CLN SME SUC SME DOLOMIC SME ARG SME AREN TRS FOS SME/SEC RECXL ON EDGES SCAT PCS OF CHRT TR DD O-STNING SME SFT-M HD-FRM VP-P-FR INTXL POR TR VIS FRAC POR TRS DULL GOLD-V PALE YEL FLOR/WEAK MILKY YEL CUT/V FAINT YEL RING
LS: CRM-TAN-LT BRN-DK BRN SME V MOTT TR SUB BUFF VF-F XL-PRED F-MED CXL SME DNS SME SUB CHLKY TEX PRED CLN SME V SUC SME DOLOMIC SCAT FREE DOLOM SCAT FREE PCS OF SHRT TRS FOS SFT-M HD-FRM VP-P-FR INTXL POR SCAT DULL GOLD MNRL FLOR NO CUT
LS: SME WH-CRM-TAN-LT BRN-DK BRN SME V MOTT TR SUB BUFF VF-F XL-PRED F-MED CXL SME DNS SME SUB CHLKY TEX PRED CLN SME V SUC SME DOLOMIC SCAT FREE DOLOM SCAT FREE PCS OF SHRT TRS FOS SFT-M HD-FRM VP-P-FR INTXL POR SCAT DULL GOLD MNRL FLOR NO CUT
SH: DK GY-BLK VF-F TEX AND SM SME VF
MW-IN:9.3
VIS:57
LCM:5#
TRIP GAS 250U
C/:4280
SHOW 74U
SHOW 82U
0
100.0
200
SHOW 72U
C/:4312
SHOW 84U
SHOW 94U
SHOW 76U
C/:4342
SHOW 88U
SHOW 78U
SHOW 84U
C/:4374
SL SHOW 66U
SL SHOW 66U
C/:4406
C/:4438
C/:4470

KINDERHOOK SHALE
MD: 4477'
TVD: 4477'
SS: (-3243)

WOODFORD
MD: 4520'
TVD: 4520'
SS:(-3286)

CIRC. SAMPLES @4544'

MIESNER
MD: 4541'
TVD: 4541'
SS: (-3307)

WILCOX
MD: 4554'
SS: (-3320)

CIRC. SAMPLES @ 4551' AND 4560'

INCREASE WOB

3/25/2024

4500
4550
4600
4650

GRAN TEX AND ASHY V CARB SCAT VF PYR SPECS SFT-M HD SIL-TRS SL CALC

SH: LT GY-GY-TRS GRN GY VF-F TEX AND SM SME ELG ANG AND SME BLKY SME CARB SCAT VF PYR SPECS SFT-M HD SIL-TR SL CALC

SH: DK GY-PREDBLK VF-F TEX AND SM SME VF GRAN TEX AND ASHY V CARB SCAT VF PYR SPECS TRS PYR CHUNKS TR GLAU SFT-M HD SIL-TRS SL CALC

SS: CLR-FRSTD-LT BRN VF-F-SME MED SUB ANG GR CONSOL PRED TT MED SORT FR-WELL CMT/SIL MTX PRED CLN AND VIT TR/VF SH PART IMBD SCAT LT BRN-MED BRN O-STNING SME FRI TRS SFT-M HD-SME V FRM VP-P-TR FR INTGRAN POR TR MED YEL FLOR/SME V DULL YL FLOR/SL STRMING YEL CUT/FAINT-MED YEL RING NO ODOR

WILCOX SS: CLR TO SME TRNSL TO FRSTED, VF TO F TO MED GR SME CONSOL TO UNCONSOL, MOD SORT, P TO SME FARI TO WELL CMT W/SIL TO SLI CALC MTX, PRED CLN, FRI, SFT TO M HRD TO FRM, NO OIL STAIN, P TO FAIR INTERGRN POR, SCAT BRT YEL FLUOR W/SLOW SLI STRMNG YEL CUT W/V FAINT YEL RES RING, NO ODOR

SS: OFF WHT TO WHT TO PRED CLR TO TRNSL TO FRSTED, VF TO F TO SME MED GR CONSOL TO SME UNCONSOL, MOD TO WELL SORT, SME P TO MSTLY FAIR TO WELL CMT W/SIL TO SLI CALC MTX, MSTLY CLN, SME SLI SHLY, SME W/CARB SPECS IMBED IN THE CLUSTERS, SME SH, FRI, SFT TO M HRD TO FRM, VP TO P TO FAIR INTERGRN POR, TRC BRT YEL FLUOR W/V SLOW SLI STRMNG YEL CUT W/V FAINT YEL RES RING, NO ODOR

SH: LT GRY TO GRY TO GRNSIH GRY, VF TO F TEXT, ELNG TO SUB BLKY TO BLKY, SME SS, SCAT VF PYR SPECS, SFT TO M HRD, SIL TO SLI CALC

SS: OFF WHT TO WHT TO PRED CLR TO TRNSL TO FRSTED, VF TO F TO SME MED GR CONSOL TO UNCONSOL, MOD TO WELL SORT, P TO SME FAIR TO WELL CMT W/SIL TO SLI CALC MTX, MSTLY CLN, SME SLI SHLY, SME W/CARB SPECS IMBED IN THE CLUSTERS, SME SH, FRI, SFT TO M HRD TO FRM, VP TO P TO FAIR INTERGRN POR, NO FLUOR OR CUTS

TD WELL @ 4675', MAKE SHORT TRIP,

HOT SH GAS 104U
C/:4502
HOT SH GAS 142U
HOT SH GAS 162U
HOT SH GAS 156U
C/:4533
SHOW 134U
SHOW 111U
SHOW 80U
SHOW 74U
CON GAS 66U
C/:4565
C/:4597
SHOW 78U
CON GAS 52U
C/:4629
SH GAS 56U
CON GAS 47U
C/:4661
SH GAS 50U
SHOW 68U

CIRC HOLE CLEAN TO TOH FOR LOGS, 72 UNITS OF GAS ON SHORT TRIP. RUNNING 'E' LOGS. THANKS FOR USING GEOSITE.

0 2 5 5

4700

0 2 5 5

4750

0 2 5 5

4800

0 2 5 5

4850

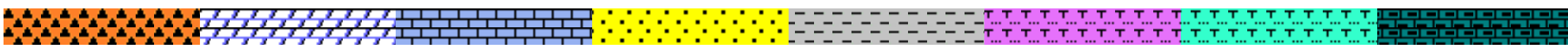
0 100.0 200

0 100.0 200

0 100.0 200

0 50.0 100

DRILLRATE	DEPTH	NOTES	POROSITY	LITHOLOGY	DESCRIPTIONS	CUT	FLUOR	HOT WIRE
								C1
								C2
								C3
								C4 ISO



Well Notes for KING #1-36

DST #1
INTERVAL-3698'-3711'
TOTAL DEPTH: 3711'
PRESS @RUN DEPTH: 21.22 PSIG @ 3699', CAPACITY:PSIG

START DATE:3/22/24, END: DATE:3/23/24
START TIME: 20:11:00, END TIME: 4:15:02
LAST CALIB: 1899.12.30
TIME ON BOTTOM: 3/22/24 @22:29:02
TIME OFF BOTTOM: 3/23/24 @02:26:32

TEST COMMENT: IF: 30 MIN., BOB 7 MIN,, STRONG BUILDING BLOW, 21 INCHES
IST: 45 MIN., NO BLOW BACK
FF: 60 MIN., BOB 20 MIN., STRONG BUILDING BLOW, 17 INCHES
FST: 90 MIN., NO BLOW BACK

PRESSURE SUMMARY:
0 MIN.-1768.35 PSIG, TEMP-102.48 F, INITIAL HYDRO-STATIC
3 MIN.-18.83 PSIG, TEMP-102.89 F, OPEN TO FLOW (1)
34 MIN.-21.05 PSIG, TEMP-105.61 F, SHUT-IN (1)
80 MIN.-184.82 PSIG, TEMP-107.14 F, END SHUT-IN (1)
81 MIN.-18.25 PSIG, TEMP-107.16 F, OPEN TO FLOW (2)
140 MIN.-21.22 PSIG, TEMP-110.42 F, SHUT-IN (2)
235 MIN.-230.26 PSIG, TEMP-112.41 F, END SHUT-IN (2)
238 MIN.-1757.33 PSIG, TEMP-113.09 F, FINAL HYDRO-STATIC

RECOVERY:
LENGTH: 15.00'-OIL SPOTTED MUD, VOLUME: 0.21 BBL
LENGTH: 190.00'-GIP, VOLUME: 2.67 BBL
TOTAL LENGTH: 205.00'
TOTAL VOLUME: 2.875 BBL
RECOVERY COMMENTS: 190' GIP

Mudlogging Definitions

AZI	Azimuth
BG	Background Gas
BP	By Pass
C/O	Change Out
CALC	Calculated
CHK	Check
CHL	Chloride
CO	Circulate Out
CS	Cutting Size
DC	Drill Collar
Dir TLS	Directional Tools
DP	Drill Pipe
DST	Drill Stem Test
DTG	Down Time Gas
DVSG	Deviation Survey Gas or Survey Gas
ELEC.	Electrical
FC	Flow Check (requires + or -; + means flow, - no flow)
FIT	Formation Integrity Test
GC	Gas Chromatograph
HCL	Hydrochloric Acid
INC	Inclination or angle
LAT	Log After Trip
LWD	Logging While Drilling
MM	Mud Motor
MWD	Measurement While Drilling
NB	New Bit
NR	No Returns or Lost Returns
PDC	Polycrystalline Diamond Compact
PP	Pump Pressure
PWR	Power
Rig Ser.	Rig Service
RPL	Replace
RRB	Re-Run Bit
SCP	Surface Casing Point
SHKR	Shaker
SPR	Slow Pump Rate
STPG	Short Trip Gas or Wiper Trip Gas
SVYG	survey Gas
SYS	System
TFNB	Trip for New Bit
THA	Total Hydrocarbon Analyzer
TOH	Trip Out of Hole
TPG	Trip Gas
TVD	True Vertical Depth
VS	Vertical Section
W/	With
WT	Mud Weight
BB	Blow Back
BHA	Bottom Hole Assembly or Lateral Assembly
C	Connection
CAL	Calibration
CG	Connection Gas
CHK FL	Check Flow (requires + or -; + means flow, - no flow)
CHNG	Change
CONN	Connection
CSG	Casing
DEN	Density
DISPL	Displace
DRLG	Drilling
DT	Down Time
DVS	Deviation Survey or Directional Survey
ECD	Equivalent Circulating Density
EMW	Equivalent Mud Weight
FIL	Filtrate
GB	Gas Buster
GR	Gamma Ray
ICP	Intermediate Casing Point
KB	Kelly Bushing
LOT	Leak Off Test
MD	Measured Depth
MON	Monitor
MWT	Mud Weight
NCB	New Core Bit
OBM	Oil Base Mud
PH	Potential Hydrogen
PPM	Parts Per Million
R	Rotate
ROP	Rate Of Penetration
RPM	Revolutions Per Minute
S	Slide
SCRN	Screen
SPM	Strokes Per Minute
STP	Short Trip or Wiper Trip
SVY	Survey
SWP	Sweep
TD	Total Depth
TG	Total Gas
TIH	Trip In Hole
TP	Trip
TRANS	Transfer
VIS	Viscosity
Vsec	Vertical Section
WOB	Weight On Bit

HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

UNION VALLEY PETROLEUM CORP
5302 N US HWY 81
ENID, OK 73701-6932

Invoice Date:	3/25/2024
Invoice #:	0375441
Lease Name:	King
Well #:	1-36 (New)
County:	Sumner, Ks
Job Number:	EP12854
District:	Eureka

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
Depth Charge 4001'-5000'	1.000	2,500.000	2,500.00
Heavy Equipment Mileage	115.000	4.000	460.00
Light Eq Mileage	115.000	2.000	230.00
H842 Thickset	170.000	30.000	5,100.00
KOL Seal	700.000	0.750	525.00
Pheno Seal	340.000	1.750	595.00
Cement Fluid Loss	40.000	10.000	400.00
KCL-CS701	2.500	30.000	75.00
Ton Mileage	981.000	1.500	1,471.50
Guide Shoe - 5 1/2"	1.000	250.000	250.00
5 1/2" Float Shoe	1.000	375.000	375.00
5 1/2" LD Plug & Baffle	1.000	350.000	350.00
Cement baskets 5 1/2"	1.000	300.000	300.00
Centralizers 5 1/2"	13.000	60.000	780.00
Service Supervisor	1.000	275.000	275.00

Total 13,686.50

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!

Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202

Customer	**Union Valley Petroleum Corp**		**Lease & Well #**	**King #1-36**		**Date**	**3/25/2024**
Service District	**Eureka**		**County & State**	**Sumner, KS**	**Legals S/T/R**		**Job #**	
Job Type	**Longstring**	☑ PROD ☐ INJ ☐ SWD			**New Well?**	☑ YES ☐ No	**Ticket #**	**EP12854**

Equipment #	**Driver**
1004	Kevin M
1201	Alan M
1213	Dan B

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☐ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☑ Slip/Trip/Fall Hazards	☑ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☑ Overhead Hazards	☑ Muster Point/Medical Locations
☐ Hearing Protection	☑ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Longstring 7 7/8" well Bore TD = 4675' KB, 5 1/2" 15.50# casing set @ 4656' = 2' above KB. SJ = 39.12' PBTD = 4616' KB. Centralizers ran on #2,3,4,7,10,13,19,21,25,27,28,29,31. Cement basket ran on top of #16. Cemented w/ 140sx Thick Set Cement w/ additives = 46bbl slurry = 1490' Fill up +/-

Product/ Service Code	Description	Unit of Measure	Quantity			Net Amount
D015	Depth Charge: 4001'-5000'	job	1.00			$2,500.00
M010	Heavy Equipment Mileage	mi	115.00			$460.00
M015	Light Equipment Mileage	mi	115.00			$230.00
CP062	H-842 Thick Set Cement (140sx on production string)	sack	170.00			$5,100.00
CP110	Kol Seal 5#/sx	lb	700.00			$525.00
CP125	Pheno Seal 2#/sx	lb	340.00			$595.00
CP131	Cement Fluid Loss 1/4%	lb	40.00			$400.00
Af055	KCL (in first 30bbl of displacement water)	gal	2.50			$75.00
M020	Ton Mileage	tm	981.00			$1,471.50
FE140	5 1/2" Guide Shoe	ea	1.00			$250.00
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00			$375.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00			$350.00
FE130	5 1/2" Cement Basket	ea	1.00			$300.00
FE125	5 1/2" Centralizer	ea	13.00			$780.00
R061	Service Supervisor	day	1.00			$275.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

1 2 3 4 5 6 7 8 9 10

			Net:	$13,686.50
Total Taxable	$ -	**Tax Rate:**		
			Sale Tax:	$ -
			Total:	$ 13,686.50

State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.

HSI Representative: *Thank You Kevin McCoy*

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results fom the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well informaiton in determining taxable services.

Dustin

CUSTOMER AUTHORIZATION SIGNATURE

ftv: 16-2022/08/12
mplv: 407-2023/08/16

CEMENT TREATMENT REPORT

Customer:	Union Valley Petroleum Corp	**Well:**	King #1-36	**Ticket:**	EP12854
City, State:	5302 N. US Hwy 81 Enid, Ok 73701	**County:**	Sumner, KS	**Date:**	3/25/2024
Field Rep:	Dustin	**S-T-R:**		**Service:**	Longstring

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4675 KB ft
Casing Size:	5 1/2 in
Casing Depth:	4656 KB ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	111.0 bbls

Calculated Slurry - Lead	
Blend:	Thick Set Cement
Weight:	13.8 ppg
Water / Sx:	9.0 gal / sx
Yield:	1.85 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	46.0 bbls
Total Sacks:	140 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
			-	-	Safety Meeting:
				-	7 7/8" Well Bore TD = 4675 KB
				-	5 1/2" 15.50# casing set @ 4656' KB, SJ = 39.12' PBTD = 4616' 2' above KB
				-	Centralizers ran on #2,3,4,7,10,13,19,21,25,27,28,29, 31. Cement Basket ran on top of #16
				-	Rig up to 5 1/2" casing
				-	Break circulation w/ 15bbl fresh water
				-	Mixed 140sx Thick Set Cement w/ 5# Kol Seal/sx, 2# Pheno Seal/sx, 1/4 % FL @ 13.8#/ gal, yield 1.85 = 46bbl slurry
				-	Wash out pump & Lines, shut down, relase latch down plug
				-	Displace plug to seat w/ 111bbl fresh water (first 30 w/ KCL in it)
				-	Final pumping pressure 1000psi, Bump plug 1500psi
				-	Wait 2 mins, release pressure, float & plug held
					Good circulation @ all times while cementing
					RH 15sx MH 15sx
					Job Complete, Rig down

	CREW	UNIT
Cementer:	Kevin M	1004
Pump Operator:	Alan M	1201
Bulk #1:	Dan B	1213
Bulk #2:		

SUMMARY		
Average Rate	**Average Pressure**	**Total Fluid**
0.0 bpm	- psi	- bbls

HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

UNION VALLEY PETROLEUM CORP
5302 N US HWY 81
ENID, OK 73701-6932

Invoice Date:	3/19/2024
Invoice #:	0375134
Lease Name:	King
Well #:	1-36 (New)
County:	Sumner, Ks
Job Number:	EP12763
District:	Eureka

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Depth Charge 0'-500'	1.000	1,000.000	1,000.00
Heavy Equipment Mileage	115.000	4.000	460.00
Light Eq Mileage	115.000	2.000	230.00
Ton Mileage	1,280.240	1.500	1,920.36
Cement Class A	225.000	20.000	4,500.00
Calcium Chloride	635.000	0.750	476.25
Bentonite Gel	425.000	0.450	191.25
Cello Flake	55.000	1.750	96.25
8 5/8" Centralizer x 12 1/4"	1.000	100.000	100.00
Wooden plug 8 5/8"	1.000	150.000	150.00

Total 9,124.11

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!

Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202

Customer	Union Valley Petroleum Corporatio	**Lease & Well #**	King #1-36			**Date**	3/19/2024
Service District	Eureka	**County & State**	Sumner, KS	**Legals S/T/R**	36 33S 4W	**Job #**	
Job Type	Surface	☑ PROD ☐ INJ ☐ SWD		**New Well?**	☑ YES ☐ No	**Ticket #**	EP12763

Equipment #	Driver
1003	David
1203	Broker
1210	Danny

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☐ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☑ Slip/Trip/Fall Hazards	☑ Specific Job Sequence/Expectations
☐ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☑ Overhead Hazards	☑ Muster Point/Medical Locations
☐ Hearing Protection	☑ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

API# 15-191-22863. TD-310' KB. 8 5/8"-295.13' GL. 16" Conductor-38' set previously.

Product/ Service Code	Description	Unit of Measure	Quantity			Net Amount
D010	Depth Charge: 0'-500'	job	1.00			$1,000.00
M010	Heavy Equipment Mileage	mi	115.00			$460.00
M015	Light Equipment Mileage	mi	115.00			$230.00
M020	Ton Mileage	tm	1,280.24			$1,920.36
CP010	Class A Cement	sack	225.00			$4,500.00
CP100	Calcium Chloride	lb	635.00			$476.25
CP095	Bentonite Gel	lb	425.00			$191.25
CP120	Cello-flake	lb	55.00			$96.25
FE250	8 5/8" Centralizer	ea	1.00			$100.00
FE290	8 5/8" Wooden Plug	ea	1.00			$150.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

1 2 3 4 5 6 7 8 9 10

				Net:	$9,124.11
Total Taxable	$ -	**Tax Rate:**			
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.				**Sale Tax:**	$ -
				Total:	$ 9,124.11

HSI Representative: *David Gardner*

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Dustin

CUSTOMER AUTHORIZATION SIGNATURE

ftv: 16-2022/08/12
mplv: 444-2024/03/04

CEMENT TREATMENT REPORT

Customer:	Union Valley Petroleum Corporation	**Well:**	King #1-36	**Ticket:**	EP12763
City, State:		**County:**	Sumner	**Date:**	3/19/2024
Field Rep:	Dustin	**S-T-R:**	36 33S 4W	**Service:**	Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	310 ft
Casing Size:	8 5/8 in
Casing Depth:	295.13 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	18.0 bbls

Calculated Slurry - Lead	
Blend:	Class A,3,2,1/4#Cello
Weight:	15.2 ppg
Water / Sx:	gal / sx
Yield:	1.39 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	56.0 bbls
Total Sacks:	225 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
				-	Safety Meeting:
				-	Rig up to 8 5/8" casing.
	4.0	50.0	10.0	10.0	Break circulation w/ 10 bbl fresh water.
	5.0	50.0	56.0	66.0	Mixed 225 sks Class A Cement w/ 3% Calcz, 2% Gel, 1/4# Celloflake/sk @ 15.2#/gal, yield 1.39 = 56 bbl slurry.
				66.0	Shut down. Release plug.
	5.0	150.0	18.0	84.0	Displace plug w/ 18 bbl fresh water. Shut down. Close casing in.
				84.0	Good cement returns to surface = 11 bbl slurry to pit.
				84.0	Job complete. Rig down.
				84.0	
				84.0	
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				84.0	

	CREW	UNIT
Cementer:	David	1003
Pump Operator:	Broker	1203
Bulk #1:	Danny	1210
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.7 bpm	83 psi	84 bbls

DRILL STEM TEST REPORT

Prepared For: **Union Valley Petroleum Corp.**

5302 N. US HWY 81
Enid, OK 73701

ATTN: Dustin Johnson

King #1-36

36-33s-4w Sumner,KS

Start Date: 2024.03.22 @ 20:11:00
End Date: 2024.03.23 @ 04:15:02
Job Ticket #: 70543 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.03.27 @ 09:22:17

DRILL STEM TEST REPORT

Union Valley Petroleum Corp.

5302 N. US HWY 81
Enid, OK 73701

ATTN: Dustin Johnson

36-33s-4w Sumner,KS

King #1-36

Job Ticket: 70543 **DST#: 1**

Test Start: 2024.03.22 @ 20:11:00

GENERAL INFORMATION:

Formation: **Kansas City**
Deviated: No Whipstock: 1232.00 ft (KB)
Time Tool Opened: 22:31:02
Time Test Ended: 04:15:02

Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Hagman
Unit No: 69

Interval: 3698.00 ft (KB) To 3711.00 ft (KB) (TVD)
Total Depth: 3711.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

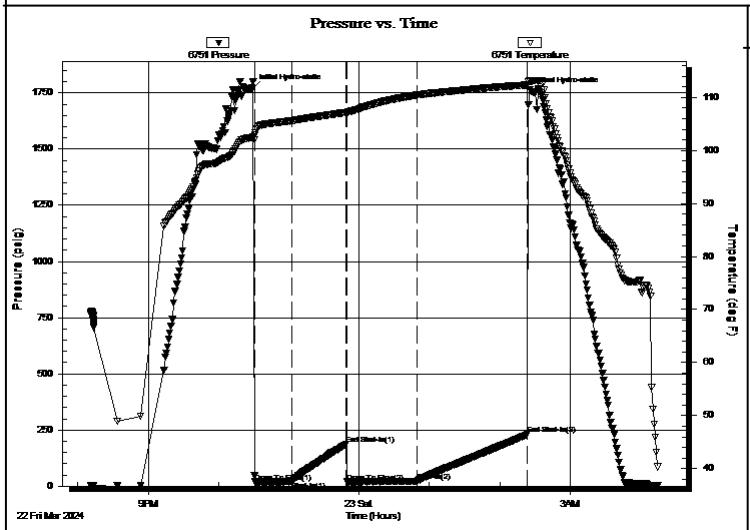
Reference Elevations: 1232.00 ft (KB)
1221.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6751 **Outside**

Press@RunDepth: 21.22 psig @ 3699.00 ft (KB)
Start Date: 2024.03.22 End Date: 2024.03.23
Start Time: 20:11:01 End Time: 04:15:02

Capacity: psig
Last Calib.: 2024.03.27
Time On Btm: 2024.03.22 @ 22:29:02
Time Off Btm: 2024.03.23 @ 02:26:32

TEST COMMENT: IF: 30 min., BOB 7 min., strong building blow , 21 inches
ISI: 45 min., no blow back
FF: 60 min., BOB 20 min., strong building blow , 17 inches
FSI: 90 min., no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1768.35	102.48	Initial Hydro-static
3	18.83	102.89	Open To Flow (1)
34	21.05	105.61	Shut-In(1)
80	184.82	107.14	End Shut-In(1)
81	18.25	107.16	Open To Flow (2)
140	21.22	110.42	Shut-In(2)
235	230.26	112.41	End Shut-In(2)
238	1757.33	113.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	oil spotted mud	0.21
190.00	GIP	2.67

Gas Rates

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

DRILL STEM TEST REPORT

Union Valley Petroleum Corp.

5302 N. US HWY 81
Enid, OK 73701

ATTN: Dustin Johnson

36-33s-4w Sumner,KS

King #1-36

Job Ticket: 70543 **DST#: 1**

Test Start: 2024.03.22 @ 20:11:00

GENERAL INFORMATION:

Formation: **Kansas City**
Deviated: No Whipstock: 1232.00 ft (KB)
Time Tool Opened: 22:31:02
Time Test Ended: 04:15:02

Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Hagman
Unit No: 69

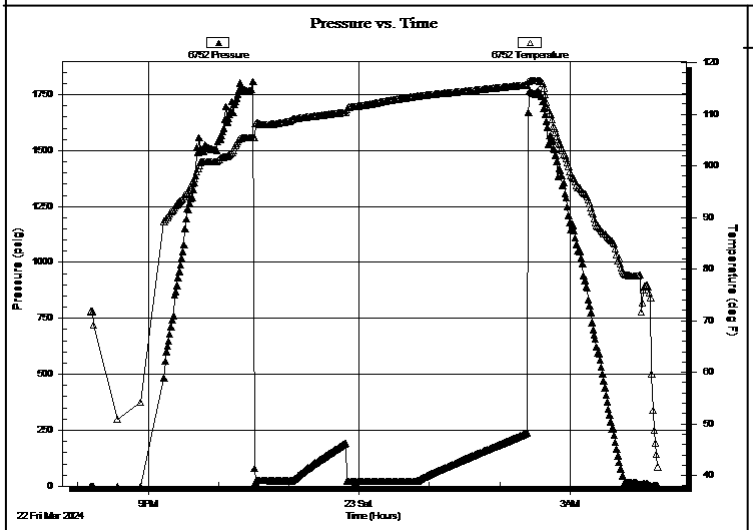
Interval: 3698.00 ft (KB) To 3711.00 ft (KB) (TVD)
Total Depth: 3711.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1232.00 ft (KB)
1221.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6752 **Inside**
Press@RunDepth: psig @ 3699.00 ft (KB)
Start Date: 2024.03.22 End Date: 2024.03.23
Start Time: 20:11:01 End Time: 04:15:02

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 30 min., BOB 7 min., strong building blow , 21 inches
ISI: 45 min., no blow back
FF: 60 min., BOB 20 min., strong building blow , 17 inches
FSI: 90 min., no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
15.00	oil spotted mud	0.21
190.00	GIP	2.67

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Union Valley Petroleum Corp.

5302 N. US HWY 81
Enid, OK 73701

ATTN: Dustin Johnson

36-33s-4w Sumner,KS

King #1-36

Job Ticket: 70543 **DST#: 1**

Test Start: 2024.03.22 @ 20:11:00

Tool Information

Drill Pipe:	Length:	3700.00 ft	Diameter:	3.80 inches	Volume:	51.90 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	51.90 bbl	

Drill Pipe Above KB:	32.00 ft
Depth to Top Packer:	3698.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	13.00 ft
Tool Length:	43.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		60000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	52000.00 lb
	Final	52000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3673.00		
Hydraulic tool	5.00			3678.00		
Isolator Sub	3.00			3681.00		
Jars	5.00			3686.00		
Safety Joint	3.00			3689.00		
Packer	5.00			3694.00	30.00	Bottom Of Top Packer
Packer	4.00			3698.00		
Stubb	1.00			3699.00		
Recorder	0.00	6752	Inside	3699.00		
Recorder	0.00	6751	Outside	3699.00		
Pickup sub perf	5.00			3704.00		
Perforations	4.00			3708.00		
Bullnose	3.00			3711.00	13.00	Bottom Packers & Anchor
Total Tool Length:	**43.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Union Valley Petroleum Corp.

5302 N. US HWY 81
Enid, OK 73701

ATTN: Dustin Johnson

36-33s-4w Sumner,KS

King #1-36

Job Ticket: 70543 **DST#: 1**

Test Start: 2024.03.22 @ 20:11:00

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:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2200.00 ppm				
Filter Cake:	inches				

Recovery Information

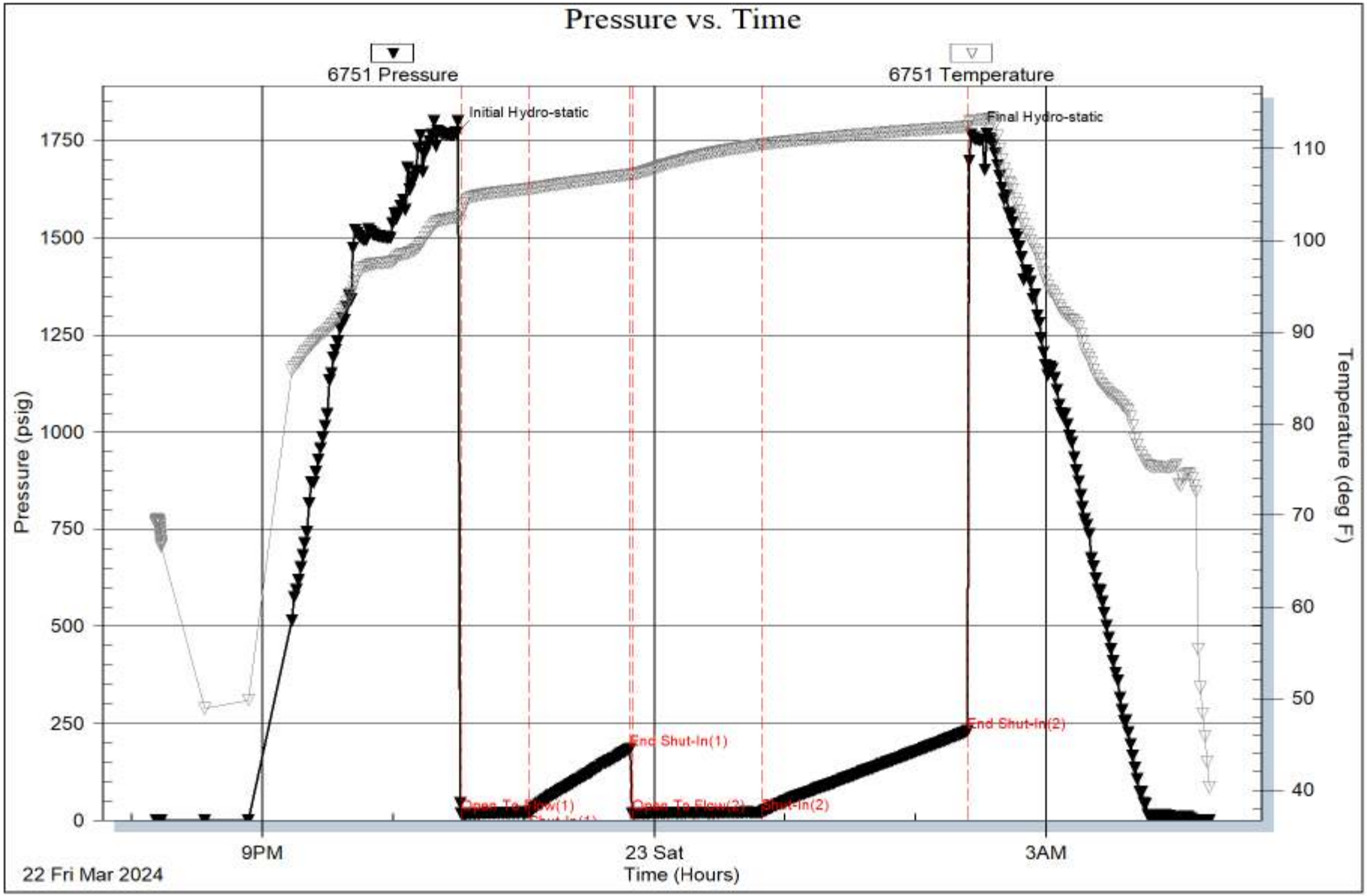
Recovery Table

Length ft	Description	Volume bbl
15.00	oil spotted mud	0.210
190.00	GIP	2.665

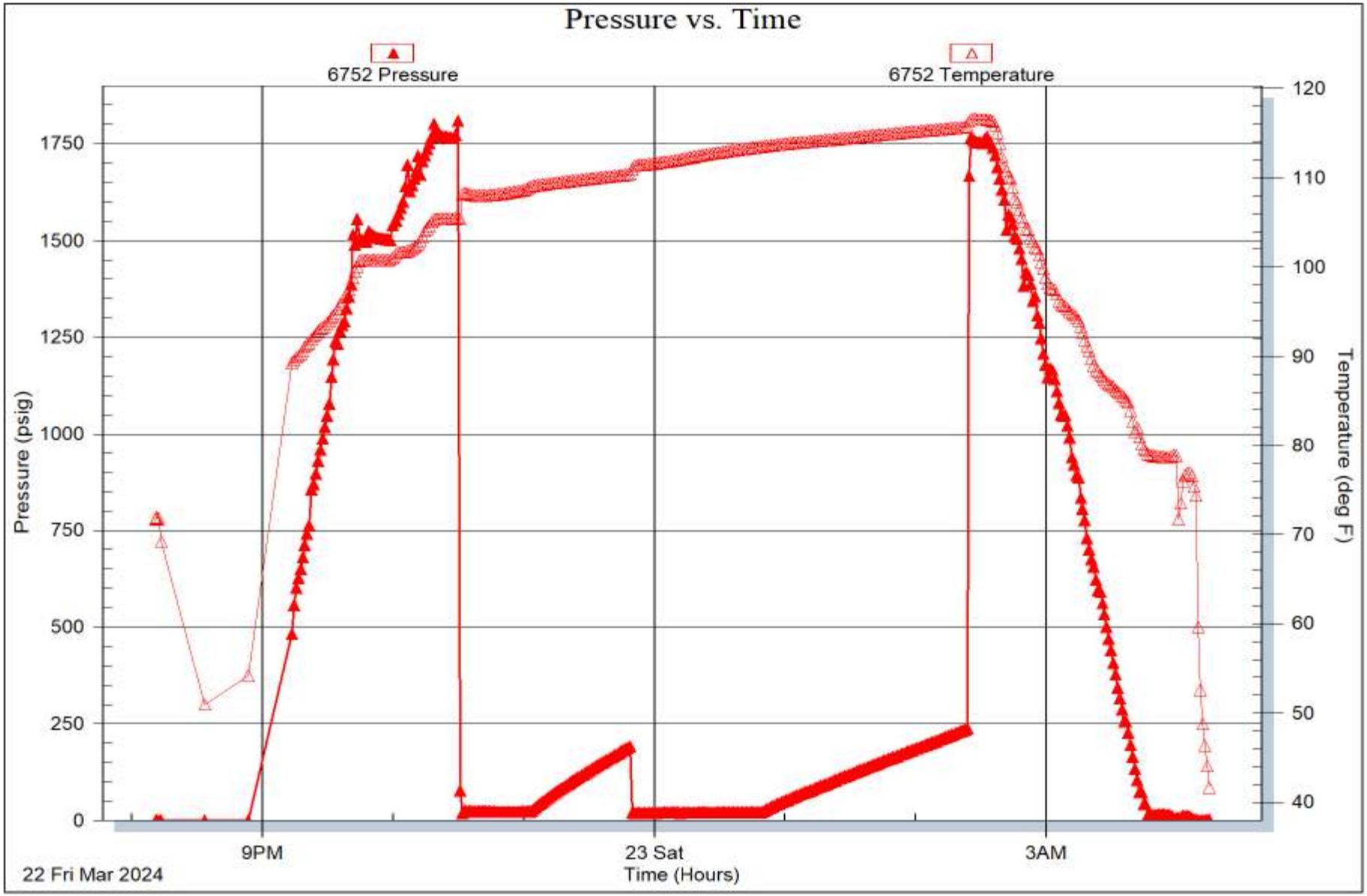
Total Length: 205.00 ft Total Volume: 2.875 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 190' GIP

Serial #: 6751 **Outside** Union Valley Petroleum Corp. King #1-36 DST Test Number: 1



Serial #: 6752 **Inside** Union Valley Petroleum Corp. King #1-36 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 70543 Printed: 2024.03.27 @ 09:22:18

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket NO. 70543

Well Name & No. King 1-36 Test No. 1 Date 03-22-24

Company Union Valley Petroleum Corp. Elevation 1232 KB 1221 GL

Address 5302 N. US HWY 81 Enid, OK 73701

Co. Rep / Geo Dustin Johnson Rig Duke #7

Location: Sec. 36 Twp 33 Rge. 4 Co. Sumner State KS

Interval Tested 3698-3711 Zone Tested KC

Anchor Length 13' Drill Pipe Run 3700 Mud Wt. 9.0

Top Packer Depth 3693 Drill Collars Run 0 Vis 47

Bottom Packer Depth 3698 Wt. Pipe Run N.A. WL 8.0

Total Depth 3711 Chlorides 2200 ppm System LCM 2#

Blow Description IF: 30 min, BOB 7 min, strong building blow, 21 inches

ISI: 45 min no blow back

FF: 60 min, BOB 20 min, strong building blow, 17 inches

FSI: 90 min, no blow back

Rec 15	Feet of 0.1 spotted mud	%gas	1 %oil	%water 99	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec 190	Feet of GIP	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 15 BHT 112 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

Initial Hydrostatic 1768	☒ Test conv. 1800	☐ Ruined Shale Packer	
Initial Flow 19 to 21	☒ Jars 300	☐ Ruined Packer	
Initial Shut-In 185	☐ Circ Sub	☒ Hotel	
Final Flow 18 to 21	☐ Hourly Standby	☒ EM Tool Successful ok -175	
Final Shut-In 230	☒ Mileage 182mi 318.50 54mi 94.50	☐ Accessibility	
Final Hydrostatic 1757	☐ Sampler	☐ Gas Sample	
T- On Location 1800	☐ Straddle	☐ Oversized Hole	
Initial Flow 30 T-Started 2030	☐ Shale Packer	☐ Sub Total 800 - 175	
Initial Shut-In 45 T-Open 2240	☐ Extra Packer	☐ Total 3138	
Final Flow 60 T-Pulled 0225	☐ Extra Recorder	☐ Tool Loaded 3/25 @ 2:30	
Final Shut-In 90 T-Out 0400	☐ Day Standby 1d 21.5h	☐ MP/DST Disc't	

Comments Tool 2011

785-656-3947

Approved By ____ Our Representative Chris Hagner

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.