

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (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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Younkin F 1-34

Daily Report

API: 15-109-21571

STR: 34-13S-34W

County: Logan

KB: 2902

Location: 505 FSL 1686 FEL

State: KS

Zone	Sample Top	Log Top	Structural Position	Comments
Anhydrite	2303 (599)	2303 (599)	0	
Base Anhydrite	2324 (578)	2322 (580)	-1	
Heebner	3748 (-846)	3748 (-846)	-3	
Lansing	3801 (-899)	3797 (-895)	+1	
Stark Shale	4057 (-1155)	4057 (-1155)	-9	
Fort Scott	4326 (-1424)	4327 (-1425)	-14	
Johnson	4400 (-1498)	4402 (-1500)	-16	
Mississippian	4522 (-1620)	4524 (-1622)	-10	



PRESSURE PUMPING LLC
 PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

11860
 11738
FIELD TICKET & TREATMENT REPORT
CEMENT

TICKET NUMBER 55884
 LOCATION Oakley, KS
 FOREMAN Walt Dunkel

Invoice #814398

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-21-18	7937	Younkin Younkin F-34	34	13	34	Logan

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
Trans Pac	753	Carey Wilson		
	70	Miles Shaw		
	697	Walt Dunkel		

MAILING ADDRESS	CITY	STATE	ZIP CODE
100 South Main Street, suite 200	Wichita	KS	67202

JOB TYPE SurFace HOLE SIZE 12 1/4 HOLE DEPTH 222' CASING SIZE & WEIGHT 8 5/8 - 23 #
 CASING DEPTH 222' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 15-20'
 DISPLACEMENT 12 3/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BBL/min

REMARKS: Safety meeting, Rig up on Duke #2, Circ casing on Bottom
Mix 165 SKs com, 3%cc - 7%bl, Displace 12 3/4 BBL H₂O, Shut in

Cement Did Circ
Approx 2 BBL to RT

Waguk Yoo
Walt & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
C00471		PUMP CHARGE	1,150.00	1,150.00
C00002	35	MILEAGE	7.15	250.25
C00710	7.76	Tan Whitegas Delivery	1.75	660.00
C5871	165 SKs	SurFace Blend II	24.00	3,960.00
				6,020.25
			less 25%	1,505.06
				4,515.19
			SALES TAX	237.00
			ESTIMATED TOTAL	4752.19

Ravin 3737

AUTHORIZATION Dion Vargay TITLE Toolpusher DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



PRESSURE PUMPING LLC

PO Box 884, Chanute, KS 65720
620-431-9210 or 800-467-8676

11903

11780

TICKET NUMBER 55911

LOCATION Cockley Ks

FOREMAN Jerry Y

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice #81444

Ks

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-29-18	7937	Younkin F 1-34	34	13S	34W	Logan
CUSTOMER Trans Pac		Mounnit Stebriet 3 West		TRUCK #		DRIVER
MAILING ADDRESS 100 South Main Street, Suite 200		TRUCK #		DRIVER		
CITY Wichita		STATE Ks	ZIP CODE 67202	TRUCK #		DRIVER
				TRUCK #		DRIVER
				TRUCK #		DRIVER

JOB TYPE <u>Plug</u>	HOLE SIZE <u>7 7/8</u>	HOLE DEPTH <u>4760</u>	CASING SIZE & WEIGHT
CASING DEPTH	DRILL PIPE <u>4 1/2</u>	TUBING	OTHER
SLURRY WEIGHT <u>13.8</u>	SLURRY VOL <u>1.42</u>	WATER gal/sk	CEMENT LEFT in CASING
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE

REMARKS: Soft meeting a rig upon Duke 2 plug as ordered with 255 sks 60/45#
1/4 # 5/16

- 50 @ 2315'
- 100 @ 1300'
- 50 @ 275'
- 10 @ 40' with 8 5/8 wooden plug
- 30 RH
- 15 MH

Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	35	MILEAGE	7.15	250.25
CE0710	10.97	ton mileage delivery	1.75	671.91
CC5829	255 sks	lite bleed	16.00	4080.00
CC6075	64. #	fb seal	3.00	192.00
CP8228	1	8 5/8 wood plug	165.00	165.00
			Subtotal	7259.16
			-25%	1814.79
			Subtotal	5444.37
			SALES TAX	290.22
			ESTIMATED TOTAL	5710.59

RAVIC 5737
AUTHORIZATION Dion Vargay TITLE Toolpusher DATE 10-29-2018

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



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

Well Name: YOUNKIN 'F' #1-34
 API: 15-109-21571
 Location: 512' FSL, 1657' FEL, SEC. 34-13S-34W
 License Number: 9408
 Spud Date: 10-20-2018
 Surface Coordinates: Y=212166 X=1123165
 Region: Logan County, KS.
 Drilling Completed: 10-29-2018

Bottom Hole Coordinates:
 Ground Elevation (ft): 2894
 K.B. Elevation (ft): 2902
 Logged Interval (ft): 3200 To: TD
 Total Depth (ft): 4598
 Formation: MISSISSIPPI
 Type of Drilling Fluid: CHEMICAL

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

OPERATOR

Company: TRANS PACIFIC OIL CORPORATION
 Address: 100 S. MAIN - SUITE #200
 WICHITA, KANSAS 67202

GEOLOGIST

Name: BRYCE BIDLEMAN
 Company: TPO
 Address:

Comments

The geologic feature observed on the seismic maps drilled out approximately as indicated by the seismic data. Unfortunately, we were slightly low to the Shakespeare #1-2 Younk in section 2-14s-34w which had similar shows in the Lansing which recovered water when tested in their well. Poor development was seen in Marmaton and Johnson zones. The Morrow section contained no sand development. After sample examination and log analysis, it was decided to plug the Younk 'F' #1-34 on October 29, 2018.

ROCK TYPES

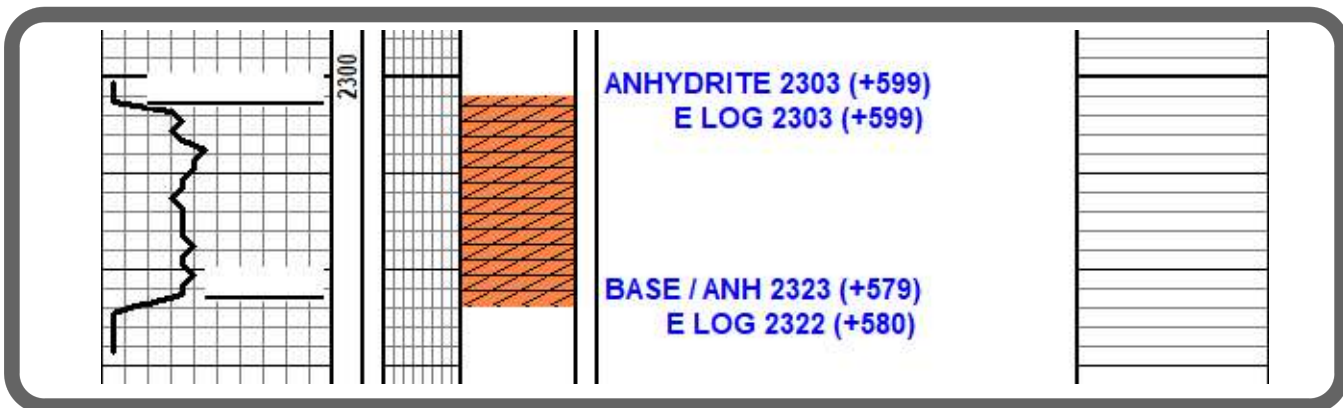
Anhy	Blksh	Sltstn	Mrlst	Sltst
Bent	Congl	Grysh	Salt	Ss
Brec	Dol	Dolm	Shale	Till
Cht	Gyp	Lmst	Shcol	
Clyst	Igne	Meta	Shgy	

ACCESSORIES

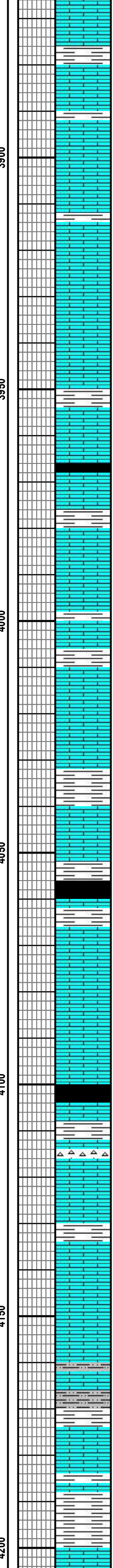
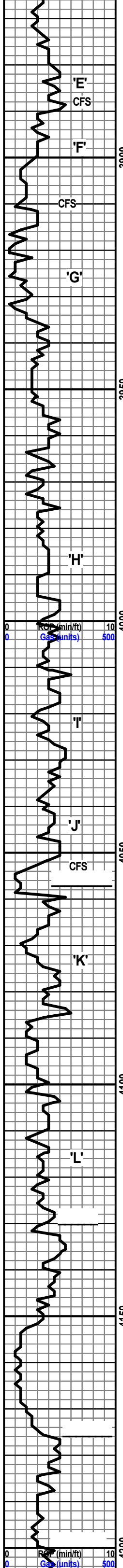
MINERAL	Gyp	FOSSIL	Ostra	Sltstrg
Anhy	Hvymin	Algae	Pelec	Ssstrg
Arggrn	Kaol	Amph	Pellet	TEXTURE
Arg	Marl	Belm	Pisolite	Boundst
Bent	Minxl	Bioclst	Plant	Chalky
Bit	Nodule	Brach	Strom	Cryxln
Brecfrag	Phos	Bryozoa	STRINGER	Earthy
Calc	Pyr	Cephal	Anhy	Finexln
Carb	Salt	Coral	Arg	Grainst
Chtdk	Sandy	Crin	Bent	Lithogr
Chtlt	Silt	Echin	Coal	Microxln
Dol	Sil	Fish	Dol	Mudst
Feldspar	Sulphur	Foram	Gyp	Packst
Ferrpel	Tuff	Fossil	Ls	Wackest
Ferr		Gastro	Mrst	
Glau		Oolite		

OTHER SYMBOLS

POROSITY	Vuggy	ROUNDING	Even	EVENT
Earthy		Rounded	Spotted	Rft
Fenest	SORTING	Subrnd	Ques	Sidewall
Fracture	Well	Subang	Dead	
Inter	Moderate	Angular	INTERVAL	
Moldic	Poor		Core	
Organic		OIL SHOW	Dst	
Pinpoint		Gas		



Curve Track 1 ROP (min/ft) ——— Gas (units) - - - - -	Depth Porosity Type	Porosity 24% 18% 12% 8%	Lithology Oil Shows	Geological Descriptions	Comments
ROP (min/ft) 10 Gas (units) 500	36				
	3650				
	3700			LM- TN-GY, FX, FOSS, DSE.	
				LM- TN-GY, FX, FOSS, DSE, CHKY IN PT.	
				LM- CRM-TN, FX, FOSS SCATT VGGY POR, INCR IN CHK.	
				LM- TN-GY, FX DSE, HARD.	
				LM- TN, F-MX, FEW FOSS, MOST DSE, FRAAMT SOFT CHK. SH- RD-GY.	
				LM- AA.	
	3750			HEEBNER 3748 (-846) E LOG 3747 (-845)	
				SH- BLK, CARB. LM- GY to GY-TN, FX, FOSS, DSE3, ARG IN PT.	
				LM-TN - GY-TN, FX, FOSS, MOST DSE, FEW SCATT VGS & FOSSMLDS. SH- GY. SOME GY CLAY.	
				LM- CRM-TN, FX FEW FOSS, MOST DSE, FR AMT CHK.	
				LM- AA. SH- GRN - GY.	
	3800			LANSING 3799 (-897) E LOG 3797 (-895)	
				LM- TN - GY-TN, FX, FOSS, SCATT VGGY & FOSSMLD POR, FEW OOLITES & OOMLDS. NS.	
				LM- CRM - TN, FX FOSS, OOLIT IN PT, PR VGGY & FOSSMLD POR, FEW OOMLDS. NS.	
				LM- TN, F-MX, FEW SCATT VGS & FOSSMLDS, DSE IN PT. NS.	
				SH- RD - GY. LM- TN, FX, PR -FR VGGY POR, FR SHOW DK BWN - BLK HVY FO & BLK STN, WK ODOR, DULL FLU.	
				LM- TN, FX, FOSS, FEW OOL., PR VGGY & PIN PT & INT-OOL POR, FS, HVY BLK DEAD O AND BLK STN, SMALL AMT FO, NO ODOR OR FLU. TR WH CHT.	
	3850			LM- TN, FX - MX, PR VGGY & INT-XLN POR, ABUN CHK, SPL WASH WH. NS. WH CHT.	
				LM- TN, FX-MX, FOSS, PR VGGY & INT-XLN POR, CHKY	



IN PT. NS.

LM - AA.

LM- TN, FX, SCATT PR PIN PT & VGGY POR, 4 PC W/ SS HVY BLK DEAD O, BLK STN, NO FO, NO ODOR.

LM- TN, FX, SCATT PR PIN-PT POR, 1 PC W/ SH BWN LIVE O & TN STN. SH- RD - GY - BLK.

LM- CRM - TN, FX, FEW FOSS, ABUN SOFT WH CHK. NS.

SH- RD - GRN- GY. LM- WH - TN, FX, FEW FOSS, ABUN SOFT WH CHK. NS.

LM- TN - GY-TN, FX, OOLIT, FR-GD OOMLD POR. NS.

LM- TN, FX-MX, OOLIT, FR-GD OOMLD & INT-XLN POR. NS.

LM- WH - TN, FX, DSE IN PT, FR AMT SOFT CHK. SH- RD - GY.

LM- AA. INCR IN SH- RD - GRN - GY.

SH- BLK, CARB. LM- GY - GY-TN, FX, DSE, HARD.

LM- AA. SH-AA.

LM- TN - BWN, FX, FEW FOSS, DSE, CHKY IN PT. NS. TR CHT - GY, FOSS.

LM- CRM - TN, FX, FEW FOSS, DSE, CHKY IN PT. NS. TR WH CHT.

LM- TN - BWN, FX DSE, HARD.

LM- TN, FX, FEW FOSS, SCATT PR VGGY & PIN PT POR, SS BWN FO & SPPTY STN, WK ODOR, VY DULL FLU.

LM- AA, FEW FOSSMLDS, PR-FS BWN FO & SPOTTY STN, WK ODOR.

LM- AA. PSFO & STN, WK ODOR.

LM- GRN, FX, DSE. SH- RD - GRN - GY, SOME GY CLAY.

LM- TN - GY-TN, FX, DSE. NS.

STARK 4057 (-1155)
ELOG 4057 (-1155)

SH- BLK, CARB, SOFT.

SH- RD - GRN - GY, PYR. LM- TN - BWN, FX-MX, FEW FOSS, DSE INT PT, SCATT PR VGGY & INT-XLN POR. NS.

LM- TN - GY-TN, FX-MX, FOSS, FEW OOLITES, SCATT PR VGGY & INT-XLN & FOSSMLD POR, FS DK BWN FO & STN, NO ODOR OR FLU.

LM- GY-TN, FX-MX, FOSS, DSE IN PT, PSFO & STN, - AA.

LM- CRM - TN - LT GY, FX, MOST DSE, SOME SOFT CHK, NS.

LM- CRM- TN, FX, DSE, CHKY IN PT. CHT- WH - LT GY.

SH- BLK, CARB.

LM- TN - BWN - GY-BWN, FX, DSE, HARD. NS.

LM- CRM - TN - LT GY, FX, FOSS, OOLIT IN PT, DSE. NS. TR CHT - GY.

LM- TN - GY, FX, FOSS, DSE. TR GY CHT. SH- RD - GY - BLK.

BKC 4130 (-1228)
E LOG 4129 (-1227)

LM- TN - BWN - GY, FX, DSE, HARD.

LM - TN - GY, FX, FOSS, CHKY. SH- GRN - GY. SLTSTN- BWN - MAR.

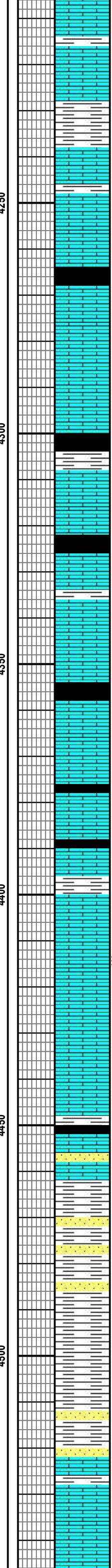
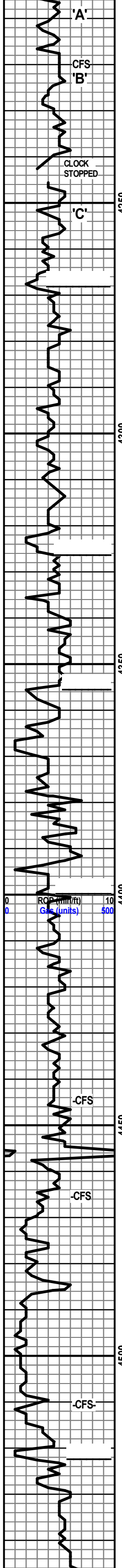
LM- AA, CHKY. SH- RD - GY. ABUN SLTSTN - AA. ABUN GY CLAY.

MARMATON 4176 (-1274)
E LOG 4177 (-1275)

LM- TN, FX, DSE.

SH- GY - BLK, FR AMT GUMMYGY CLAY.

ALTAMONT 4200 (-1298)
E LOG 4201 (-1299)



SH-AA. LM-TN-GY, FX, FOSS IN PT, CHKY IN PT, REST DSE, NS.

LM- TN, FX, SCATT PR FOSSMLD POR, CHKY IN PT. NS.

LM- CRM - TN, FX, FOSS, DSE, CHKY IN PT. NS.

SH- RD - GRN - GY, SILTY IN PT. LM- TN, FX, FOSS, DSE, CHKY IN PT. NS.

LM- TN, FX, FOSS, OOLIT IN PT, MOST DSE, SOME CHK. NS.

LM- TN - GY-TN, FX, DSE, CHKY IN PT. NS. TR CHT- GY-TN.

PAWNEE 4268 (-1366)
E LOG 4267 (-1365)

LM- TN, FX, FEW FOSS, MOST DSE, TR PR PIN-PT POR, 2 PC W/SS BLK HVY FO & BLK STN, NO ODOR, NO FLU.

LM- TN - GY-TN, FX, FEW FOSS, DSE. CHKY IN PT. NS. TR GYCHT.

LM- TN, FX, FOSS, SCATT PR VGGY & FOSSMLD POR, REST DSE. 2 PC W/SS DK DEAD O & STN, NO ODOR.

LM- TN - BWN - BWN-GY, FX, FOSS, DSE, HARD. TR CHT- BWN. SH- BLK, CARB.

LM- DK BWN, FX, FOSS, DSE, HARD, TR PYR. SH- RD - GRN - BLK.

LM- TN, FX, FEW FOSS, MOSTLY DSE, CHKY IN PT. TR TAN CHT. NS.

SH- BLK, CARB.

FORT SCOTT 4326 (-1424)
E LOG 4327 (-1425)

LM- GY-TN - GY-BWN, FX, OOLIT, PR PINPT & INT-OOLIT POR, FS FO & G & WK ODOR ON BREAK.

LM- CRM - TN - LT GY, FX FOSS, FEW OOLITES, DSE. NS.

LM- BWN - DK BWN, FX, DSE, VY HARD. NS.

CHEROKEE SH 4355 (-1453)
E LOG 4355 (-1453)

SH- BLK, CARB.

LM- TN, FX, FOSS, FR AMT CHK, SCATT PR PIN-PT POR. NS. SH- RD - GY - BLK,

LM- TN - LT GY, FX, FOSS, DSE, CHKY IN PT. SHLY- GRN - GY - BLK.

LM- TN, FX, ABUN FOSS, DSE, HARD, CHKY IN PT. SHLY - AA.

JOHNSON 4400 (-1498)
E LOG 4402 (-1500)

LM- TN, FX, DSE, SOME CHK. NS.

LM- TN, FX, SCATT PR PIN-PT POR, FEW FRAC, PSFO & GAS BUB, WHEN BRKN, VY FT ODOR, TR DULL FLU. TR BWN CHT.

LM- TN, FX, MOST DSE, SCATT PR PIN-PT POR, 4 PC W/SFO ON BRK. TR CHT-AA.

LM- TN, FX, FEW FOSS, FEW FRAC, MOST DSE, FEW FRAC, TR PR PIN-PT POR, CHKY IN PT. TR TN CHT. NS.

LM- TN, FX, FOSS, FEW SCATT VGS, FEW FRAC, DSE. NS. TR CHT.

LM- TN, FX, FOSS, SCATT PR PIN-PT POR, 3 PC W/ STN, NO FO. LM- GRN, FX, FOSS, DSE. NS.

BASE JOHNSON 4452 (-1550)
E LOG 4451 (-1594)

SD- WH - LT GRN, VFG, W-SRT, RND, FR-CEM, FRLY LARGE CLUST, TR PYR & GLAUC, PR POR. CHT-RD - TN - BWN, FRESH, SHP.

SH- RD - GRN - GY - BLK. FR AMT CHT- OR - TN - RD-TN, FR, SHP. NS.

SH- BRITE GRN - GRN, SOME GUMMY GY CLAY. SH- RD - OR - RD-BWN. NS.

SH- GRN - GY - BLK. ABUN GUMMY GY CLAY.

SH & CLAY - AA. NO SAND.

FEW PC SD- WH, SMALL CLUST, VFG, W-SRT, FRI, FR POR. NS. LM- TN - GY-TN, FX-MX, SDY IN PT, DSE. NS.

MISSISSIPPI 4522 (-1620)
E LOG 4524 (-1622)

LM- GY-TN - LT GY, FX, FOSS, DSE. NS.

LM- AA.

LM- TN, FX-MX, FOSS, DSE, CHKY IN PT, SDY IN PT.

