KOLAR Document ID: 1715509

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 # 35625
Name: Talon Group LLC
Address 1: PO BOX 700
Address 2:
City: HAYS State: KS Zip: 67601 + 0700
Contact Person: Jason Clark
Phone: (785) 656-2644
CONTRACTOR: License # 32592
Name: Wild West Well Service, Inc.
Wellsite Geologist: Vern Schrag
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 #:

04/27/2023 Spud Date or Recompletion Date
05/02/2023 Date Reached TD
05/22/2023 Completion Date or Recompletion Date

API No.: 15-009-26392-00-00
Spot Description:
NW - NE - SW - NW Sec. 1 Twp. 16 S. R. 14 ☐ East ☑ West
1452 Feet from ☑ North / ☐ South Line of Section
740 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: Barton
Lease Name: BOGNER Well #: 1-1
Field Name: Trapp
Producing Formation: L-KC
Elevation: Ground: 1854 Kelly Bushing: 1864
Total Vertical Depth: 3382 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 433 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 1573 Feet
If Alternate II completion, cement circulated from: 1573
feet depth to: 0 w/ 200 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 41000 ppm Fluid volume: 240 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: SEC Reclaiming Inc, dba H&W Oil Company
Lease Name: Boxberger A License #: 35487
Quarter NW Sec. 32 Twp. 13 S. R. 14 ☐ East ☑ West
County: Russell Permit #: D23310.0

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

Submitted Electronically

KCC Office Use ONLY
☐ **Confidentiality Requested**
Date: 06/09/2023
☐ **Confidential Release Date:** 06/08/2025
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** David Befort **Date:** 06/15/2023

Operator Name: Talon Group LLC Lease Name: BOGNER Well #: 1-1

Sec. 1 Twp. 16 S. R. 14 ☐ East ☑ West County: Barton

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:

Dual ind
Dual comp porosity
Micro

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

Name	Top	Datum
Anhy	844	+1020
B Anhy	869	+995
Topeka	2750	-886
Heebner	2979	-1115
Lansing	3044	-1180
Arbuckle	3279	-1415

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	20	433	Class A	225	2% gel, 3% cc
Production	7.875	5.5	15.5	3380	EA-2	170	5%calseal, 10%salt,1%halad-322

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☑ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
0-1531	SMD	200	NA
-			

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: 06/08/2023

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

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

DISPOSITION OF GAS:
☐ 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
3064	3222

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)*
Attached	Attached	Attached	Attached	Attached	Attached

TUBING RECORD: Size: Set At: Packer At:

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

Form	ACO1 - Well Completion
Operator	Talon Group LLC
Well Name	BOGNER 1-1
Doc ID	1715509

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSetAt	Material Record
4	3279	3282	CIBP Cast Iron Bridge Plug	3240	NA
4	3218	3222			
4	3202	3204			
4	3186	3190			1500 gal 15%
4	3145	3149			
4	3121	3125			
4	3074	3080			
4	3064	3070			3000 gal 15%

Form	ACO1 - Well Completion
Operator	Talon Group LLC
Well Name	BOGNER 1-1
Doc ID	1715509

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	20	433	Class A	225	2% gel, 3% cc
Production	7.875	5.5	15.5	3380	EA-2	170	5%calseal, 10%salt,1 %halad-322

SWIFT Services, Inc.

CHARGE TO: Talon Group
ADDRESS
CITY, STATE, ZIP CODE

TICKET 35970

PAGE 1 OF

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Hays 2. Ness City 3. 4.	1	Bogner	Barton	KS		5/9/23	
TICKET TYPE ☐ SERVICE ☐ SALES	CONTRACTOR C+B	RIG NAME/NO.	SHIPPED VIA Cr	DELIVERED TO location	ORDER NO.		
WELL TYPE Oil	WELL CATEGORY Development	JOB PURPOSE Port Collar	WELL PERMIT NO.	WELL LOCATION			
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		1			MILEAGE Trk # 111	40	mi.			8 00	320 00
576D		1			Pump Charge - Port Collar	1	EA			1700 00	1700 00
290		1			D-Air	2	Gal			42 00	84 00
330		2			Swift Multi-Density	200	SK			21 00	4200 00
276		2			Flocele	50	lbs			4 00	200 00
581		2			Service Charge Cmt	200	SK			2 00	~~400 00~~
583		2			Drayage	747	sm	75	mi.	1 00	747 00

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

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

X

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

REMIT PAYMENT TO:

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

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

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

PAGE TOTAL	7651 00
TAX Barton	336 30
TOTAL	7987 30

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

SWIFT OPERATOR David Edgerton | APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 5/9/23 | PAGE NO.

CUSTOMER Thron Group | WELL NO. 1-1 | LEASE Bogner | JOB TYPE Port Collar | TICKET NO. 35970

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1100							On location
								TBG - 2 3/8
								Csg - 5 1/2
								Port Collar - 1575
	1330							locate Port Collar
								Wait for Storm to pass
						1200		Test Tools - Held
								open port Collar
		5	0			600		Start Cmt
		5	96			1200		Circ Cmt - Raise wgt - 180 sx
		5	105			1000		End Cmt - 20 sx to pit
		5	4.5			1000		Disp
								Close Port Collar
						1200		Test Tools - Held
								Rev 5 Jts
			20					Reverse Out
								Pull 10 Jts & Shut Down
								Job Complete
								Thanks
								Davis, Seth & Brett

SWIFT Services, Inc.

CHARGE TO: Talon Coronp
ADDRESS
CITY, STATE, ZIP CODE

TICKET 35990

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Hays, KS	1-1	Bogner	Barton	KS		05/02/23	same
2. Ness City, KS	TICKET TYPE ☒ SERVICE ☐ SALES	CONTRACTOR Southwind Drilling	RIG NAME/NO. #8	SHIPPED VIA CT	DELIVERED TO Location	ORDER NO.	
3.	WELL TYPE Oil	WELL CATEGORY Development	JOB PURPOSE Cement Long String		WELL PERMIT NO.	WELL LOCATION	
4.							
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		1			MILEAGE #114	50	mi			8 00	400 00
578		1			Pump Charge - Long String	1	EA			1700 00	1700 00
290		1			D-Air	2	gal			4/2 00	126 00
281		1			Mud flush	500	gal			2 50	1250 00
221		1			Liquid KCL	2	gal			25 00	50 00
419		1			Rotating Head Rental 5½	1	EA			300 00	300 00

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X

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

REMIT PAYMENT TO:

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

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

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

PAGE ~~TOTAL~~ Page 2	3,826 40 / 9,505 63
sub total	13,331 63
Barton	762 26
TOTAL	14093 89

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

SWIFT OPERATOR Jon Knight | ~~APPROVAL~~

Thank You!

SWIFT Services, Inc.

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

TICKET CONTINUATION

TICKET No. 35990

CUSTOMER: Talon Group | WELL: Bogner 1-1 | DATE: 05/02/23 | PAGE 2 | OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	TIME	DESCRIPTION	QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT
325		2				Standard Cement	225	SKS			16.00	3600.00
284		2				Calseal	21	SKS			50.00	1050.00
283		2				Salt	1200	lbs			0.25	300.00
292		2				Halad 322	200	lbs			9.00	1800.00
277		2				Coal Seal (Coilsonite)	1125	lbs			1.50	1687.50
581		2				SERVICE CHARGE Cement	GAING FEE 225 SKS				2.00	450.00
583		2				MILEAGE CHARGE TOTAL WEIGHT 24725 LOADED MILES 50	TON MILES 618.13				1.00	618.13

CONTINUATION TOTAL 9,505.63

JOB LOG

SWIFT Services, Inc.

DATE 05/02/23 | PAGE NO. 1

CUSTOMER: Talon Group | WELL NO.: 1-1 | LEASE: Bogner | JOB TYPE: Long String | TICKET NO.: 35990

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0830							On location, Rig Running Casing
								Total Pipe 3381' USED
								Shoe Jt - 42'
								647' of 15.5# on Bottom
								2734' of 14# on Top
								P.C. @ - 1575'
	0930							Break Circulation on Bottom
	1030							Hook up to Swift
		2	7					Plug Rathole w/ 30 sxs
		2	4					Plug Mousehole w/ 15 sks
		4½	12				300	Pump Mud Flush
	1055	4½	20				300	Pump KCL Spacer
		4	45					Pump EA-2 Cement
								Drop Plug
								Wash out Pump & Lines
	1120	7¼						Start Displacement
		7¼	62				500	Catch Pressure
		7¼	80				1000	Lift PSI
	1130	7¼	82				1700	Land Plug
								Release truck, Dry
								Wash up
	1145							Rack up
	1200							Job Complete
								Thank
								Jon, Joe, & Brett

SWIFT Services, Inc.

CHARGE TO: Talon Group
ADDRESS
CITY, STATE, ZIP CODE

TICKET 35964

PAGE 1 OF

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Hays 2. Ness City	1-1	Bogner	Barton	KS		4-28-23	
	TICKET TYPE ☐ SERVICE ☐ SALES — CONTRACTOR: Southwind	RIG NAME/NO.	SHIPPED VIA: CT	DELIVERED TO: Location		ORDER NO.	
3.	WELL TYPE: Oil	WELL CATEGORY: development	JOB PURPOSE: Shallow Surface		WELL PERMIT NO.		WELL LOCATION
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		1			MILEAGE Trk 114	50	mi			8 00	400 00
576 S		1			Pump Charge - Shallow Surf.	1	EA			1200 00	1200 00
290		1			D-Air	2	Gal			42 00	84 00
325		2			Standard Cement	225	SX			16 00	3600 00
279		2			Bentonite Gel	4	SX	2%		50 00	200 00
278		2			Calcium Chloride	10	SX	3%		55 00	550 00
276		2			Flocele	50	lbs			4 00	200 00
581		2			Service Charge Cmt	225	SX			2 00	450 00
583		2			Drayage	564	TM			1 00	564 00

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X

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

REMIT PAYMENT TO:

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

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

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

PAGE TOTAL	7248 00
	347 55
TOTAL	7595 55

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

SWIFT OPERATOR: David Edgerton | APPROVAL

Thank You!

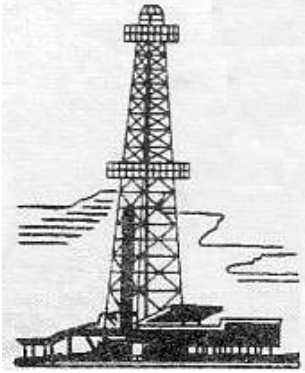
JOB LOG

SWIFT Services, Inc.

DATE 4-28-23 | PAGE NO.

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
TRON Group	1-1	Bogner	Shallow Surf.	35964

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	330							On location
								Csg - 8 5/8
								Rig - 437
								Total pipe 435.90
	420							Break Circ on Bottom
								pump Wtr spacer
	430							wait on Wtr truck to fill
	500	5	55			400		pump CMT - 225 sx
		5	26.5			400		Disp
								Circ - 35 sx CMT to pit
	530							Job Complete
								Thanks
								David, Joe & Brett



WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST

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

Well Name:	**BOGNER #1-1**		
Location:	**SW NE SW NW Sec. 1-16S-14W**		
Licence Number:	**API: 15-009-26392**	**Region:**	**Barton Co., KS**
Spud Date:	**April 27, 2023**	**Drilling Completed:**	**May 1, 2023**
Surface Coordinates:	**1452 FNL & 740' FWL**		
Bottom Hole Coordinates:			
Ground Elevation (ft):	**1854'**	**K.B. Elevation (ft):**	**1864'**
Logged Interval (ft):	**2700' To: RTD**	**Total Depth (ft):**	**3380'**
Formation:	**Arbuckle**		
Type of Drilling Fluid:	**Chemical Premix (Displaced)**		

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

OPERATOR:

Company: TALON GROUP, LLC
Address: PO Box 700
HAYS, KS 67601

DRILLING CONTRACTOR:

Southwind Drilling Co., Rig #8

DP 4.5" XH (16.6#); DC 6-1/4" x 2-3/8", 411.58'; Kelly 40.00', Tool Joint 5.5" ; Bit: 7-7/8", JZ HA23C, 3/15s; rpm 80, WOB 35k; Kelly Bushing 10' above ground level; Doug Roberts (tool pusher).

CASING:

Ran 10 joints of new 20#, 8 5/8" casing, tally @ 421, set @ 433'

Ran 83 joints of used 15#, 5 1/2" casing, tally @ 3381', set @ 3379', port collar set @ 1575',

CIRCULATION SYSTEM:

Continental EMSCO D-375, duplex, 6 x 14 x 2, 58 spm, Chemical, premix, earth pits, MudCo/Service Mud, Inc., Gary Schmidtberger.

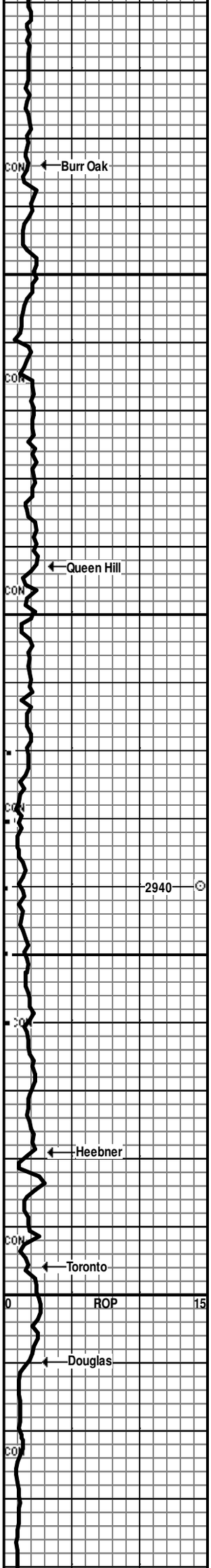
DRILL STEM TESTS:

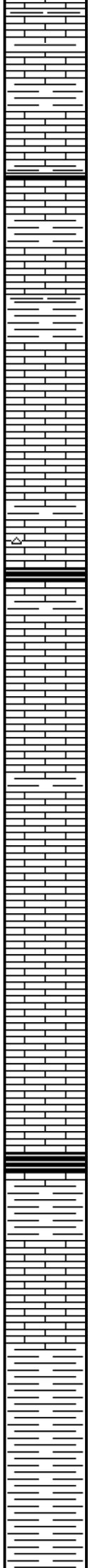
No drill stem tests.

OPEN HOLE LOGS:

DN(PE), DI (SP), ML, 5" detail LTD-3600; 2" DI to suface casing; Midwest Wireline, Hays, KS, Tim Martin.

ROP ROP (min/ft) Five Ten	DST	Lithology	Porosity and Show	Depth	Geological Descriptions	Total Gas TG (units) Fifty One
0 ROP 15 DIGITAL ROP Howad START SAMPLES				2700		0 Hot-Wire 100 HAD GEOLOGRAPH TROUBLE AT 3600 SO WAS UNABLE TO START DRILL TIME UNTIL 3700. MUD-CO: 2643: VIS 60+, WT 8.7, FIL 5.6, CHL 1900, LCM 1#.
CON Severy CON					LS: lt to dk browns; mic-vf xtal; no apparent porosity; N.S. Shale: greenish gray; minor SiltSt; few lime fos, crinoids; 2760. Shale & Silty Shale as above.	
Topeka CON				2750	TOPEKA 2750 (-886) LS: lt -md browns; mic-vf xtal; sli granular; few pellets; dense; no apparent porosity; N.S., 2780. LS: lt-md brown; mic-vf xtal; few if any grains; shaley in part; no apparent porosity; N.S.	
0 ROP 15 CON				2800	LS: lt -md brown; mic-vf xtal; sli. granular, shells; no apparent porosity; N.S.	0 Hot-Wire 100





2850

2900

2950

3000

LS: grayish brown; vf-xtal; fos, fusulinids; no apparent porosity; N.S., 2830.

LS: gray to brown, mottled; mic-vf xtal; sli. chalky; dense; no apparent porosity; N.S.

Shale: black; carbonaceous; trace 2850.

LS: dense; N.S.

Shale: green to gray; trace green marl.

LS: lt-md brown; vf-xtal; scattered grains; no apparent porosity; N.S.

Shale: grays; sli. silty;

LS: lt-md brown; vf-xtal; sli. chalky; trace shells; no apparent porosity; N.S.

LS: lt-brown to md grayish brown; mic-vf xtal; pelletal; no apparent porosity; N.S.

LS: lt-md grayish brown; mic-vf xtal; scattered grains; pelletal; opaq chert; sli. chalky; no apparent porosity; N.S.

Shale: black; possible trace; poor rep 2910.

LS: grayish brown; vf-xtal; finely granular in part; no apparent porosity; N.S.

LS: lt-md brown; vf-xtal; almost no grains; mostly dense; trc fine vug w/dry stain at 2920, no visible oil;

LS: trace fair vug porosity w/dk brn to black dry stain at 2930.

LS: lt-md brown; vf-xtal; finely granular, trc oolitic; tight int grain porosity; trc dk brn & black speckled wet stains & only trc dry stain at 20, 40, 60 min , no visible oil.

LS: mostly lt brown; mic-vf xtal; lacks granularity as above; very tight; trace speckled dk brn stain, no visible oil, 2960.

LS: lt brown; mic-vf xtal; dense to sli. chalky in part; no grains; no apparent porosity; N.S.

LS: as above with trace shale streaks; N.S.

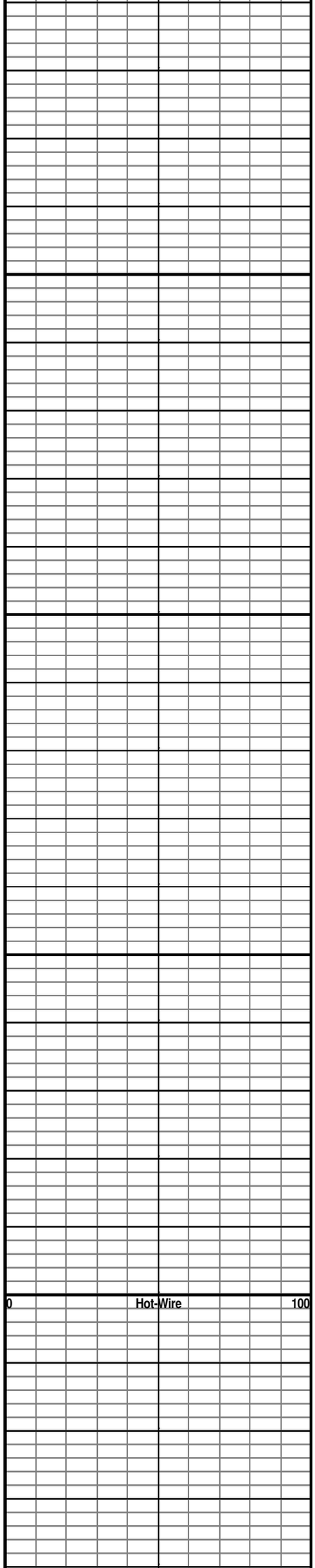
HEEBNER SH 2979 (-1115)
Shale: black; carb.; many chips at 3000.

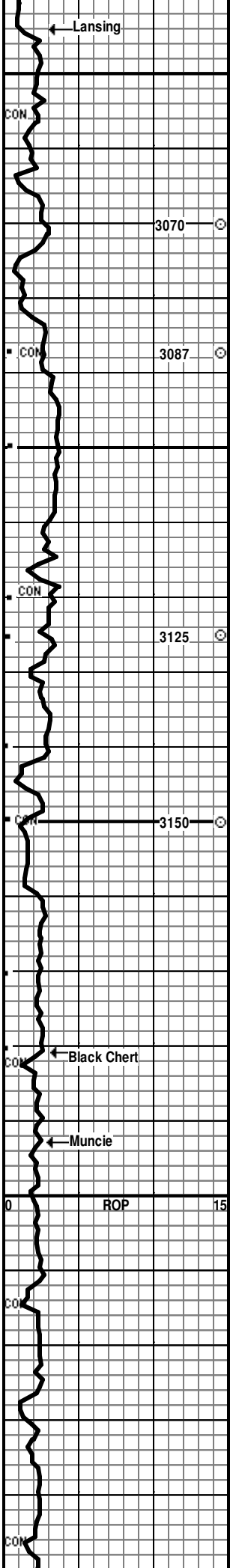
Shale: light-green; marly in part; 3010.

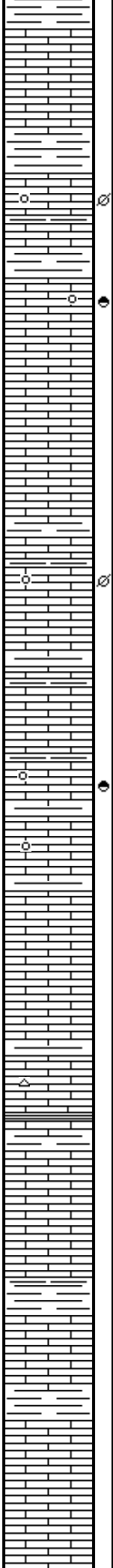
LS: white to lt brown; mic-vf xtal; fos, crinoidal;

DOUGLAS SH. 3010 (-1146)
Shale: lt-green, marly 80% at 3050.

Shale: darker green, less marl, more silty







LANSING 3044 (-1180)
LS: lt brown to grayish-brn; vf-xtal; sli. fos; dense; no apparent porosity; N.S., 3060.

LS: lt brown; vf-xtal; med oolite w/poor oomoldic porosity; N.S. <1% 20, 40 min.

3070 SAMPLE WAS CAUGHT AT 3066.

LS: lt -md brown; vf-f xtal; fine to med oom; fair oomoldic porosity; 1 chip w/spotted wet stain; no visible oil; several chips spotted dry stain 1% at 3187-20, 40 min.

LS: lt brown; mic-vf xtal; dense; smooth; no apparent porosity; N.S.

LS: as above.

THOUGHT BIT WAS PLUGGED AT 3125 THERE BEING 1100-1300 SSP. STARTED BIT TRIP, AFTER PULLING 21 STANDS CHECKED SPP AND WAS NORMAL SO TRIPPED BACK TO BOTTOM. CIRC 30 MIN BEFORE & AFTER THIS SHORT TRIP. PULLED TIGHT.

LS: lt brown; mic-vf xtal; few chips fair oomoldic porosity; N.S. at 3125-30 min; trace oomoldic porosity w/ spotted stain at 3120 is probably float ?

LS: lt brown; mic-vf xtal; dense; no apparent porosity; N.S.

LS: lt brown; vf-xtal; few chips barren oomoldic in wet samples, trace spotted to sat dry stains; 1 chip black gillsonitic streaks; no visible oil; 20 min; very sli stn at 40 min. wet.

LS: oomoldic as above but no visible shows.

LS: lt -md browns; mic-vf xtal; dense; smooth; no apparent porosity; N.S.

MUD-CO: 3174: VIS 56, WT 9.2, FIL 5.8, CHL 6200, LCM 1#.

LS: as above.

LS: w/dark shale & black opaq. chert; N.S. 3200.

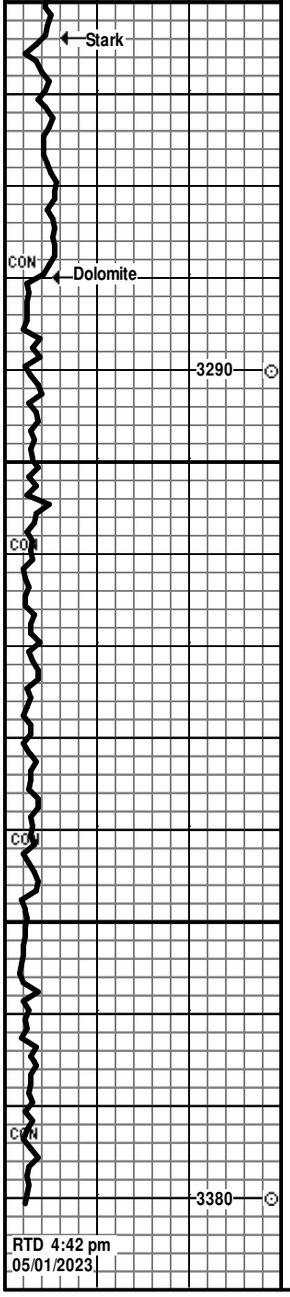
LS: md brown to grayish brown; vf-xtal; fos; dense; no apparent porosity; N.S.

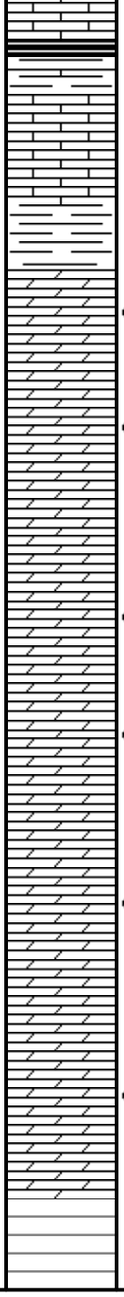
0 Hot-Wire 100

LS: lt-md brown; mic-vf xtal; dense to sli chalky in part; no apparent porosity; N.S.

LS: lt-md grayish brown; vf-xtal; trace med oolite; no apparent porosity; N.S.

LS: lt brown; mic-vf xtal; dense; N.S.





3250
3300
3350

STARK SH 3254 (-1390)
Shale: greenish-gray; indistinct 3270.

LS: lt-md grayish brown; mic vf xtal; dense; no apparent porosity; ;N.S.

ARBUCKLE DOL 3279 (-1415)
DOL: lt brown; f-c xtal, drusy, trc coarse anhedral xtals; glauconitic; fair-good int xtal porosity; spotted to sat. dry stain does cut, crush VSSO; 3290-30 min. sample catchers say strong odor at flow line.

DOL: lt brown; f-c xtal; altered oolites; fair int xtal & int grain porosity; crush VSSO;

DOL: as above; sli. glauconitic; 5% spotted to saturated stains, crush VSSO, 3330.

DOL: lt brown; f-c xtal; altered oolites in part; fair int grain, int xtal & vug porosity; spotted to sat lt brown stains; 3340.

DOL: lt brown; f-c xtal; good int xtal & vug porosity; 1% spotted to saturated stains; 3360.

DOL: as above: decreasing stains; 3370.

DOL: lt brown; trace altered oolites; fair int xtal & vug porosity; further decreased stains; 3380.

ROTARY TOTAL DEPTH 3380 (-1516)

15 STAND SHORT TRIP, CIRC 75 MIN BEFORE T.O.H. FOR LOGS.

MIDWEST WIRELINE LTD 3382'