

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

11/13/08

CONFIDENTIAL

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 3842
 Name: LARSON ENGINEERING, INC.
 Address: 562 WEST STATE ROAD 4
 City/State/Zip: OLMITZ, KS 67564-8561
 Purchaser: NCRA
 Operator Contact Person: TOM LARSON
 Phone: (620) 653-7368
 Contractor: Name: H.D. DRILLING, LLC
 License: 33935
 Wellsite Geologist: ROBERT LEWELLYN
 Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)
 If Workover/Re-entry: Old Well Info as follows:
 Operator: _____
 Well Name: _____
 Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Enhr.?) _____ Docket No. _____

<u>7/17/2008</u>	<u>7/26/2008</u>	<u>8/28/2008</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

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API No. 15 - 135-24818-00-00
 County: NESS
E2 SE SW SW Sec. 30 Twp. 18 S. R. 26 East West
330 feet from SOUTH Line of Section
1250 feet from WEST Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE NW **SW**
 Lease Name: VOGEL "B" Well #: 1-30
 Field Name: WILDCAT
 Producing Formation: MARMATON, CHEROKEE
 Elevation: Ground: 2564' Kelly Bushing: 2571'
 Total Depth: 4626' Plug Back Total Depth: 4578'
 Amount of Surface Pipe Set and Cemented at 247 Feet
 Multiple State Cementing Collar Used? Yes No
 If yes, show depth set 1911 Feet
 If Alternate II completion, cement circulated from 1911
 feet depth to SURFACE w/ 170 sx cmt.

Drilling Fluid Management Plan AHTI NA 1-7-08
 (Data must be collected from the Reserve Pit)
 Chloride content 10400 ppm Fluid volume 850 bbls
 Dewatering method used ALLOWED TO DRY
 Location of fluid disposal if hauled offsite: _____
 Operator Name: _____
 Lease Name: _____ License No.: _____
 Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
 County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this information shall be filed with the Kansas Corporation Commission, 130 South Market-Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Carol Lee
 Title: SECRETARY/TREASURER Date: 11/13/2008
 Subscribed and sworn to before me this 13th day of November,
2008.
 Notary Public: Debra J Ludwig
 Date Commission Expires: MAY 5, 2012

KCC Office Use ONLY

Y Letter of Confidentiality Attached
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

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 KANSAS CORPORATION COMMISSION
NOV 14 2008

DEBRA J. LUDWIG
 Notary Public - State of Kansas
 My Appt. Expires 5/5/2012

CONSERVATION DIVISION
 WICHITA, KS

Operator Name: LARSON ENGINEERING, INC. Lease Name: VOGEL "B" Well #: 1-30

Sec. 30 Twp. 18 S. R. 26 East West County: NESS

INSTRUCTIONS: Show important tops and base of formation penetrated. Detail all cores. Report all final copes of drill stem 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geologist well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Sample Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: DUAL INDUCTION DUAL COMP POROSITY MICRORESISTIVITY	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr><td>ANHYDRITE</td><td>1924</td><td>+645</td></tr> <tr><td>BASE ANHYDRITE</td><td>1958</td><td>+611</td></tr> <tr><td>HEEBNER SHALE</td><td>3868</td><td>-1299</td></tr> <tr><td>LANSING-KANSAS CITY</td><td>3908</td><td>-1339</td></tr> <tr><td>STARK SHALE</td><td>4181</td><td>-1612</td></tr> <tr><td>BASE KANSAS CITY</td><td>4283</td><td>-1714</td></tr> <tr><td>PAWNEE</td><td>4380</td><td>-1811</td></tr> <tr><td>FORT SCOTT</td><td>4429</td><td>-1860</td></tr> <tr><td>CHEROKEE</td><td>4452</td><td>-1883</td></tr> <tr><td>MISSISSIPPI LIME</td><td>4538</td><td>-1969</td></tr> <tr><td>MISSISSIPPI SPERGEN DOLOMITE</td><td>4541</td><td>-1972</td></tr> </tbody> </table>	Name	Top	Datum	ANHYDRITE	1924	+645	BASE ANHYDRITE	1958	+611	HEEBNER SHALE	3868	-1299	LANSING-KANSAS CITY	3908	-1339	STARK SHALE	4181	-1612	BASE KANSAS CITY	4283	-1714	PAWNEE	4380	-1811	FORT SCOTT	4429	-1860	CHEROKEE	4452	-1883	MISSISSIPPI LIME	4538	-1969	MISSISSIPPI SPERGEN DOLOMITE	4541	-1972
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CASING RECORD <input checked="" 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
SURFACE	12-1/4"	8-5/8"	23#	247'	CLASS A	175	2% GEL, 3% CC
PRODUCTION	7-7/8"	5-1/2"	15.5#	4625'	SMD	125	1/4#/SK FLOCELE
					EA-2	100	7#/SK GILSONITE, 1/4#/SK FLOCELE, 1/2% CFR

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	SURF	1911'	SMD	170	1/4#/SK FLOCELE

Shots per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid. Fracture, Shot, Cement, Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
	SEE ATTACHED	SEE ATTACHED
		RECEIVED KANSAS CORPORATION COMMISSION NOV 14 2008

TUBING RECORD	Size	Set At	Packer At	Liner Run	CONSERVATION DIVISION WICHITA, KS
	2-3/8"	4604		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Enhr.		Producing Method			
8/28/08		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	3.34	0	2.85	0	37.5

Disposition of Gas Vented Sold Used on Lease *If vented, submit ACO-18.)*

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval 4359 - 4543 OA

Operator Name: LARSON ENGINEERING, INC. Lease Name: VOGEL "B" Well #: 1-30

Sec. 30 Twp. 18 S. R. 26 East West County: NESS

Shots per Foot	PERFORATION RECORD – Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement, Squeeze Record	
		(Amount and Kind of Material Used)	Depth
4	4536-38, 4541-43	250 GAL 15% MCA	4536-38, 4541-43
		SQZ: 50 SX CLASS A	4541-43
4	4518-24, 4528-30, 4458-60, 4469-71, 4446-51	250 GAL 15% MCA	4446-51, 4458-60, 4469-71
		750 GAL 15% NE	4446-51, 4458-60, 4469-71
4	4359-63	250 GAL 15% MCA	4359-63
		750 GAL 15% NE	4359-63
		1500 GAL 15% NE	4359-63
		3000 GAL 15% NE	4359-63
		250 GAL 15% MCA	4518-24, 4528-30

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ALLIED CEMENTING CO., LLC. 32979

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Ness City, Ks

DATE <u>7-17-08</u>	SEC <u>30</u>	TWP. <u>18</u>	RANGE <u>26</u>	CALLED OUT <u>4:30 p.m.</u>	ON LOCATION <u>9:00</u>	JOB START <u>10:30</u>	JOB FINISH <u>11:30</u>
LEASE <u>Wegel "B"</u>		WELL # <u>1-30</u>	LOCATION <u>Beelar, 1w to 130 Rd -</u>		COUNTY <u>Ness</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>		LOCATION <u>1/2w, 7/8 into</u>					

CONTRACTOR H.D. drilling

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 250'

CASING SIZE 8 5/8 DEPTH 248

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15 ft

PERFS.

DISPLACEMENT 15

OWNER Same

CEMENT

AMOUNT ORDERED 1755x common
3" cc + 2" gel

EQUIPMENT

PUMP TRUCK CEMENTER J.D.

181 HELPER Joe D.

BULK TRUCK

344-112 DRIVER David J.

BULK TRUCK

DRIVER

COMMON	<u>1755</u>	@	<u>13.69</u>	<u>2388.75</u>
POZMIX		@		
GEL	<u>344</u>	@	<u>20.40</u>	<u>61.20</u>
CHLORIDE	<u>544</u>	@	<u>57.15</u>	<u>285.75</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>183</u>	@	<u>2.29</u>	<u>411.75</u>
MILEAGE	<u>183</u>	@	<u>2.10</u>	<u>384.30</u>
TOTAL				<u>3531.75</u>

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REMARKS:
Casing at 248', broke circulation
Mixed 1755x common 3" cc + 2" gel
Displaced with fresh water
Cement did circulate

SERVICE

DEPTH OF JOB	<u>248'</u>			
PUMP TRUCK CHARGE			<u>996.00</u>	
EXTRA FOOTAGE		@		
MILEAGE	<u>21</u>	@	<u>7.50</u>	
MANIFOLD		@		
		@		
		@		
TOTAL				<u>1156.50</u>

CHARGE TO: Larson Engineering inc

STREET 562 W. State RD 4

CITY Olmitz STATE Ks ZIP 67564

PLUG & FLOAT EQUIPMENT

	@			
	@			
	@			
	@			
	@			
TOTAL				

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

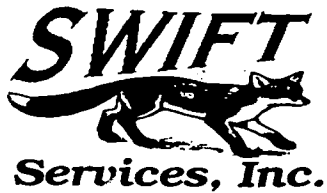
PRINTED NAME Doug Roberts

SIGNATURE Doug Roberts
Thanks!

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS



CHARGE TO:
LARSON OPERATING
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET
 No 14808

PAGE 1 OF 2

SERVICE LOCATIONS 1. NESS CITY, Ks	WELL/PROJECT NO. 1-30	LEASE VOGEL "B"	COUNTY/PARISH NESS	STATE Ks	CITY	DATE 7-26-08	OWNER SAME
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR H-D DRUG #1	RIG NAME/NO.	SHIPPED VIA CT	DELIVERED TO LOCATION	ORDER NO.	
3.	WELL TYPE OIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE COMPT 5 1/2" LONGSTAIRING	WELL PERMIT NO.	WELL LOCATION BEELER, Ks - W/CURVE, 1W, N INTO		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 104	30		MI		6.00	180.00
578		1			PUMP SERVICE	1		JOB	4625 FT	1400.00	1400.00
221		1			LIQUID KCL	2		Gal		26.00	52.00
281		1			MUD FLUSH	500		Gal		1.00	500.00
419		1			ROTATING HEAD RENTAL	1		JOB		250.00	250.00

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 WICHITA, KS

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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 **T. Larson**

DATE SIGNED **7-26-08** TIME SIGNED **1100** A.M. P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				#1	2382.00
WE UNDERSTOOD AND MET YOUR NEEDS?				#2	5167.61
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				sub total	7549.61
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX	260.95
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			ness 5.3%	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	7810.56

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

SWIFT OPERATOR **WAVE WILSON** APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 14808

CUSTOMER **CARSON OPERATING** WELL **VOGEL "B" 1-30** DATE **7-26-08** PAGE **2** OF **2**

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		UNIT PRICE		AMOUNT			
		LOG	ACCT	DF			QTY.	UM	QTY.	UM				
325		1				STANDARD CEMENT	EA-2	100	SKS		1275	1275.00		
330		1				SWIFT MULTI-DENSITY STANDARD		125	SKS		1550	1937.50		
276		1				FLOCELE		56	LBS		150	84.00		
277		1				GILSONITE		700	LBS		40	280.00		
283		1				SALT		500	LBS		20	100.00		
284		1				CASEAL		5	SKS	500	LBS	30.00	150.00	
285		1				CFR-1		50	LBS		450	225.00		
290		1				D-ADR		2	GAL		35.00	70.00		
581		1				SERVICE CHARGE				CUBIC FEET	225	1.90	427.50	
583		1				MILEAGE CHARGE	TOTAL WEIGHT	23566	LOADED MILES	30	TON MILES	353.49	1.75	618.61

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CONTINUATION TOTAL 5167.61

JOB LOG

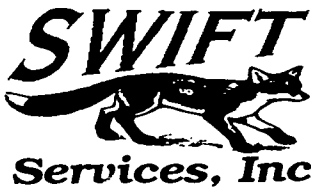
SWIFT Services, Inc.

DATE **7-26-08** PAGE NO. **1**

CUSTOMER **ARSON OPERATING** WELL NO. **1-30** LEASE **VOGEL "B"** JOB TYPE **5 1/2" LONGSTRENGTH** TICKET NO. **14808**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBLS) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1100							ON LOCATION
								TD-4626 SET = 4625 TP-4627.84 5 1/2" / K 1515 ST-42.48 PORT COLLAR = 1910'
	1245							DROP BALL - CIRCULATE ROTATE
	1350	6	12		✓		500	PUMP 500 GAL MUDFLUSH KCC " " NOV 13 2008
	1352	6	20		✓		500	PUMP 20 BBLS KCL-FLUSH CONFIDENTIAL " "
	1358		4					PLUG RH
	1400	5	46		✓		400	MIX COMST LD-125 SKS SMD = 12.5 PPG " "
		4	24		✓		200	TL-100 SKS EA-2 = 15.4 PPG "
	1418							WASH OUT PUMP - LEAKS
	1419							RELEASE LD PLUG
	1420	7	0		✓			DISPLACE PLUG " "
		7	99				750	SHUT OFF ROTATING
	1435	6 1/2	109.1				1500	PLUG DOWN - PSEUP CATCHW PLUG
	1437						OK	RELEASE PSE - HELD
								WASH TRUCK RECEIVED KANSAS CORPORATION COMMISSION NOV 14 2008
	1530							JOB COMPLETE CONSERVATION DIVISION WICHITA, KS

THANK YOU
WAYNE, DUSTY, DEW



CHARGE TO: **LARSON**
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET No 13816

PAGE 1 OF 1

SERVICE LOCATIONS
 1. **HAYS** WELL/PROJECT NO. **1-30** LEASE **VOGEL B** COUNTY/PARISH **NESS** STATE **KS** CITY **NESS** DATE **07-30-08** OWNER **7**
 2. **NESS** TICKET TYPE SERVICE CONTRACTOR **VOGEL B** RIG NAME/NO. **NESS** SHIPPED VIA **C.T.** DELIVERED TO **BEERER, W. DINTO** ORDER NO.
 3. WELL TYPE **DIL** WELL CATEGORY **Develop** JOB PURPOSE **CM 7' PORTHOLE** WELL PERMIT NO. WELL LOCATION
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE		AMOUNT	
		LOC	ACCT	DF									
575		1			MILEAGE #110	20	Mi			6.00		120	00
578		1			Pump Service	1	EA			1400	00	1400	00
290		1			DAIR	1	CAL			35	00	35	00
330		2			SM-D CM 7	170	SH			15	50	2635	00
276		2			FLOCELE	56	LB			1	50	84	00
581		2			SERVICE CAG CM 7	225	SH			1	90	427	50
583		2			DRAINAGE	224.66	Tm			1	75	393	16

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

X *John Dawson*
 DATE SIGNED **07-30-08** TIME SIGNED **0900** A.M. P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				5094 66
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				7.53% 145 96
ARE YOU SATISFIED WITH OUR SERVICE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL 5240 62

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

SWIFT OPERATOR *Dave* APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 07-30-08 PAGE NO. 1

CUSTOMER CARSON WELL NO. 130 LEASE VOGELB JOB TYPE CMT: PORT COLLAR TICKET NO. 13816

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							ONLOCATION
								PORT COLLAR 1911 2 3/8 X 5 1/2
	0915					1000	1000	PSI TEST
								OPEN
		3.0	3.0	✓		300		INTJ. RATE
		3.5	0	✓		350		START CMT
			14	✓				CIRC MUD
			85	✓				CIRC CMT MIX 14"
			90	✓				END
			0	✓				ST. DISP
			65	✓				END
								CLOSE PC
				✓	✓	1000	1000	PSI TEST
								RUN 5 JOINTS
			0	✓				REV OUT
			7.0	✓				1ST FLAC 170 SWS
			10.0	✓				2ND 2075 PIT
			20.0	✓				ALL CLEAN
	1015							JOB COMPLETE
								THANK YOU! DAVE, JOSH B., DON Q

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Robert C. Lewellyn

Consulting Petroleum Geologist

P. O. Box 609
Kechi, KS 67067-0609
Office 316-744-2567
Cell 316-518-0495
Fax 209-396-2988
boblewellyn@yahoo.com

GEOLOGICAL REPORT

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Larson Engineering, Inc.
Vogel "B" No. 1-30
330' FSL & 1250' FWL Sec. 30-18S-26W
Ness County, Kansas

CONTRACTOR: H D Drilling, LLC
SPUDDED: July 17, 2008
DRILLING COMPLETED: July 26, 2008
SURFACE CASING: 8 5/8" @ 247 KBM/175 sx.
ELECTRIC LOGS: Log-Tech IES MEL CDN
ELEVATIONS: 2569 KB 2564 GL

FORMATION TOPS (Electric Log):

Anhydrite	1924 (+ 645)
Base Anhydrite	1958 (+ 611)
Heebner Shale	3868 (-1299)
Lansing-Kansas City Group	3908 (-1339)
Muncie Creek Shale	4067 (-1498)
Stark Shale	4181 (-1612)
Hushpuckney shale	4214 (-1645)
Base Kansas City	4283 (-1714)
Altamont	4325 (-1756)
Pawnee	4380 (-1811)
Fort Scott	4429 (-1860)
Cherokee	4452 (-1883)
Detrital Zone	4533 (-1964)
Mississippi Lime	4538 (-1969)
Mississippi Spergen Dolomite	4541 (-1972)
Electric Log Total Depth	4626 (-2057)

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Samples were examined microscopically from 3800 to Rotary Total Depth. Samples were examined wet and dry and samples from potentially productive zones were viewed under a fluoroscope and checked for oil cut. Following is a description of zones of interest, Drill Stem Tests, etc. For a complete lithologic description of all formations, refer to the sample log in the back pages of this report.

Lansing-Kansas City Zones:

3913-3922 (A Zone)

Limestone, cream to buff, some tan, dense to finely crystalline with much chalky, slightly fossiliferous, scattered poor intercrystalline porosity, no show of oil.

3932-3943 (B Zone)

Limestone, cream to buff, finely crystalline and chalky, some tan dense, trace of very poor intercrystalline porosity, no show of oil.

3950-3954 (C Zone)

Limestone, buff to tan, some cream, dense to finely crystalline and chalky, some slightly fossiliferous, trace of sucrosic lime, trace of poor to fair intercrystalline porosity, no show of oil.

3968-3972 (D Zone)

Limestone, cream to buff, finely crystalline and chalky, scattered poor intercrystalline porosity with much chalk, no show of oil, zone turns dense toward base.

3989-4000 (E Zone)

Limestone, cream to buff, some tan, finely crystalline with scattered oolitic, some dense-oolitic, trace of poor intercrystalline porosity, no show of oil.

4002-4018 (F Zone)

Limestone, buff to tan, finely crystalline, partly fossiliferous, partly oolitic, some chalky, poor to fair interfossil and intercrystalline porosity, no show of oil.

4024-4036 (G Zone)

Limestone, cream to buff, finely crystalline and oolitic, fair to good oolitic porosity, no show of oil.

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4054-4058 (G2 Zone)

Limestone, cream to buff, finely crystalline with much chalk, rare trace of very poor intercrystalline porosity, no show of oil.

4088-4093 (H Zone)

Limestone, cream to buff, finely crystalline and chalky, some finely oolitic, some dense-oolitic, scattered very poor intercrystalline and interoolitic porosity, no show of oil.

4119-4126 (I Zone)

Limestone, cream to buff, some gray, finely crystalline and chalky with scattered dense, part fossiliferous, trace of scattered poor intercrystalline and interfossil porosity, no show of oil.

4154-4164 (J Zone)

Limestone, cream to buff, some tan, finely crystalline and partly oolitic, scattered poor intercrystalline and interoolitic porosity, no show of oil

4186-4214 (K Zone)

Limestone, buff to light gray, some tan, finely crystalline and dense, partly oolitic, poor interoolitic and interfossil porosity, no show of oil.

4232-4235 (L Zone)

Limestone, buff, some tan to brown, some mottled, dense to finely crystalline, poor intercrystalline and vugular porosity, no show of oil.

4288-4322 (Pleasanton Zone)

The Pleasanton section consisted of limestone, buff to tan to brown, some mottled, dense to finely crystalline with much cream chalky, zone is mostly tight to very poor intercrystalline porosity, no show of oil.

4357-4364 (Altamont Zone)

Limestone, cream to buff, finely crystalline and fossiliferous, good intercrystalline and interfossil porosity, good spotted stain, trace of saturated stain, good show of free oil, good odor, fair fluorescence, good cut.

Drill Stem Test No. 1 4340-4370

Open 15 minutes, shut in 30 minutes, open 15 minutes, shut in 30 minutes; surface blow, died in six minutes; recovered 10 feet of mud. ISIP 1189# FSIP 780# IFP 18-25# FFP

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26-30# IHP 2194# FHP 2109# BHT 124 degrees. Charts indicate a slight, momentary packer leakage during the initial shut in period.

4380-4424 (Pawnee Zone)

The Pawnee section consisted of limestone, tan, some brown, dense to lithographic with finely crystalline. The section was mostly tight with no shows of oil. Considerable pyrite was present in the section along with a scattering of tan chert.

4429-4452 (Fort Scott Zone)

Limestone, tan to brown, some mottled, dense to finely crystalline and partly fossiliferous, poor to fair intercrystalline and vugular porosity, fair spotted stain, fair show of free oil, fair odor, poor to fair fluorescence, fair cut.

468-4470 (Cherokee Lime Zone)

Limestone, tan to brown, dense to finely crystalline, trace of poor intercrystalline porosity, scattered poor spotted stain, very slight show of free oil, faint odor, no fluorescence, poor cut.

Drill Stem Test No. 2 4436-4470

Open 15 minutes, shut in 30 minutes, open 15 minutes, shut in 30 minutes; surface blow, died in seven minutes; recovered five feet of mud with oil spots; ISIP 381# FSIP 65# IFP 16-17# FFP 19-23# IHP 2205# FHP 2175# BHT 124 degrees.

4487-4504 (Johnson Zone)

Limestone, brown, some mottled, dense to finely crystalline, slightly oolitic, poor scattered intercrystalline porosity, trace of scattered poor spotted stain, very slight show of free oil, faint questionable odor, no fluorescence, poor cut.

4506-4531 (Cherokee Sand Zone)

Sand, very fine grained to fine grained, calcareous, well cemented, well sorted, hard and tight, fair to good spotted to saturated stain, slight show of free oil, good odor, good fluorescence, good cut, 5% of sand is friable with poor to fair intergranular porosity, good spotted to saturated stain, good show of free oil, good odor, good fluorescence, good cut.

4533-4538 (Detrital Zone)

Chert, white to light gray with some orange to varicolored, mostly fresh, opaque, some scattered partially weathered chert with poor "edge" vugular porosity and slight spotted stain, no free oil, odor quantity and quality undetermined because of sand above, no fluorescence, no cut.

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4541-4543 (Spergen Dolomite Zones)

Dolomite, buff to tan, fine to medium crystalline, slightly fossiliferous, fair vugular and intercrystalline porosity, fair spotted stain, fair show of free oil, fair odor, fair fluorescence, fair cut.

Drill Stem Test No. 3

4448-4545

Open 15 minutes, shut in 30 minutes, open 30 minutes, shut in 60 minutes; quarter-inch blow built to bottom of bucket in 15 minutes; second flow, quarter-inch blow built to bottom of bucket in 20 minutes, no blowback on either shut in. Recovered 390 feet of fluid as follows: 90 feet of oil cut mud (10% oil, 90% mud), 120 feet of gassy oil cut mud (10% gas, 30% oil, 60% mud), 120 feet of gassy oil cut mud (10% gas, 10% oil, 80% mud), 60 feet of gassy oil cut watery mud (10% gas, 10% oil, 5% water, 75% mud). ISIP 1255# FSIP 1251# IFP 28-124# FFP 126-201# IHP 2252# FHP 2151# BHT 127 degrees.

4543-4554

Dolomite, buff to tan, finely crystalline, slightly fossiliferous, fair vugular and intercrystalline porosity, fair spotted stain, fair show of free oil, fair odor, fair fluorescence, fair cut, porosity is 30% barren toward base of this section.

4554-4558

Dolomite, buff to tan, dense to finely crystalline, this interval is mostly tight with only a trace of stain on dense fragment fracture faces.

4558-4582

Dolomite, buff to tan, fine to medium crystalline, fossiliferous in part, fair vugular and intercrystalline porosity, 90% barren, 10% with scattered fair spotted stain, no free oil, no odor, no fluorescence, no cut.

4582-4601

Dolomite, medium gray, finely crystalline and oolitic with dark gray oolites, some dense-oolitic, interval is mostly tight with no shows of oil.

4601-4625

Dolomite, buff, finely crystalline and slightly oolitic, trace of poor scattered vugular porosity, no show of oil

4625

Rotary Total Depth

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Conclusions and Recommendations:

The Mississippi Spergen dolomite should be perforated from 4541-4543 and production tested.

Prior to abandonment, the following zones should be perforated and production tested:

Cherokee sand	4528-4530
Cherokee sand	4520-4522
Cherokee lime	4468-4470
Altamont	4357-4360

Respectfully submitted,

Robert C. Lewellyn
Petroleum Geologist

RCL:me

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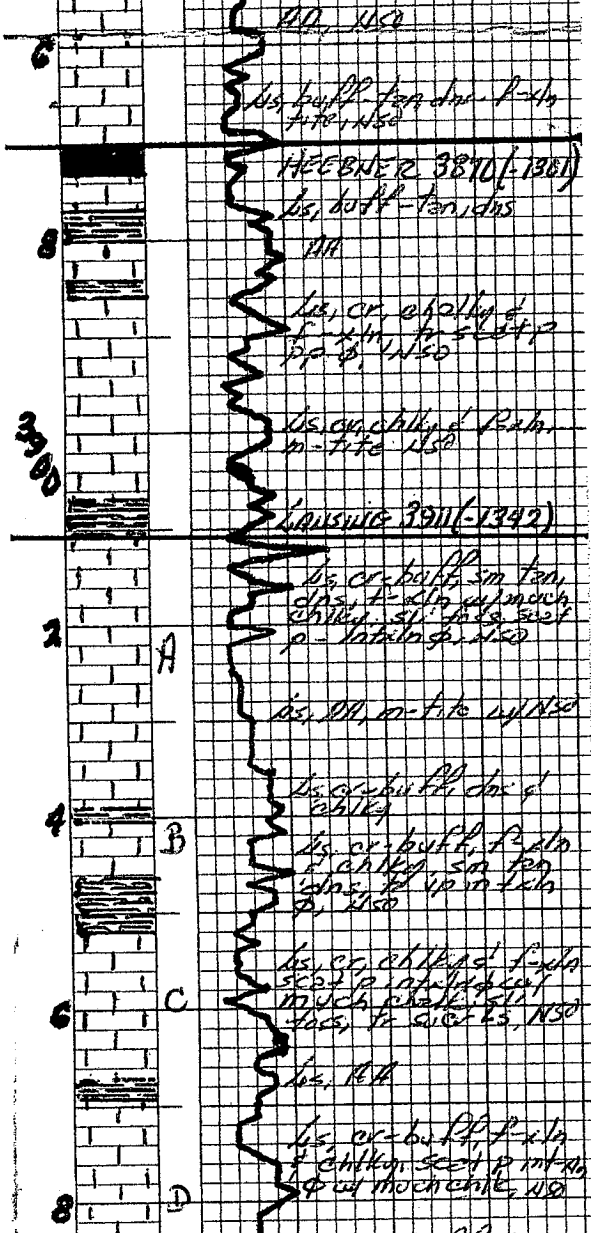
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STATE KANSAS	COMPANY LARSON ENGINEERING, INC.
COUNTY NESS	FARM Vogel "B" WELL NO. 1-30
BLOCK	SURVEY 330' FSL & 1250 FWL
SEC. 30	
T 185	R 26W
TOTAL DEPTH 4625	
CONTRACTOR H. O. Drilling, Inc.	
COMMENCED 07-17-08	
COMPLETED 07-26-08	
REMARKS	
ALTIMITUDE 2571 KB	
PRODUCTION Oil	
Geol Robert C. Lewellyn, Geol	

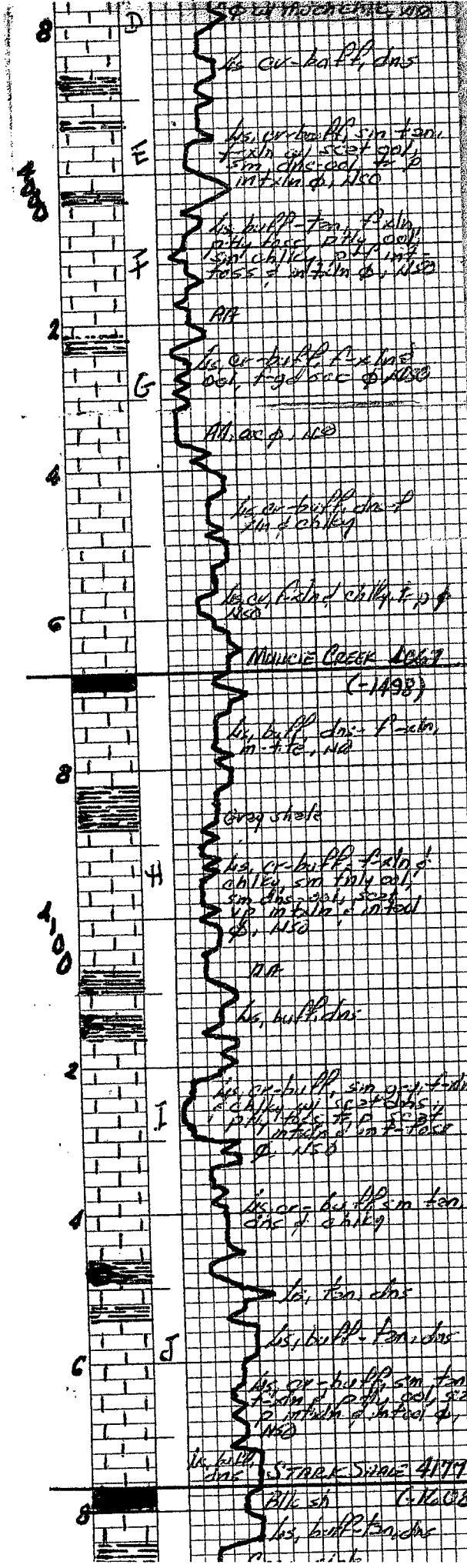
CASING RECORD
8 5/8" @ 247 KBM / 175 sx.

SHOT QUARTS BETWEEN

TIME RATE SCALE: 1/10" = MINUTES
Kraftbilt 450-A TULSA, OKLAHOMA 74101 PRINTED IN U.S.A.



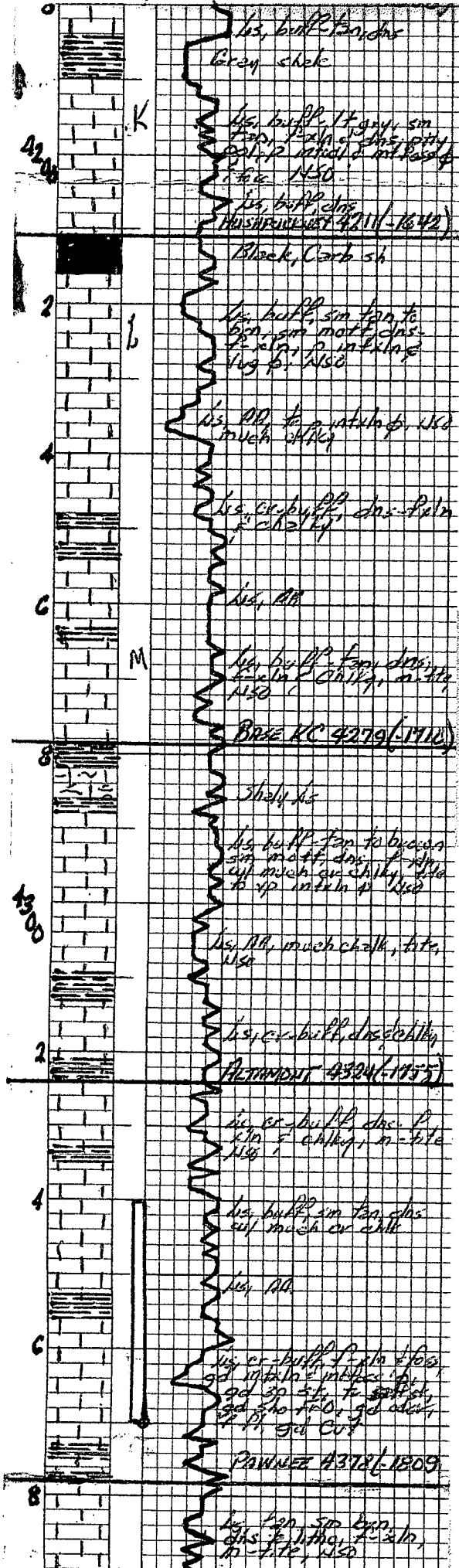
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MOWIE CREEK 1067
 (-1498)

STARKS 4177
 (1408)

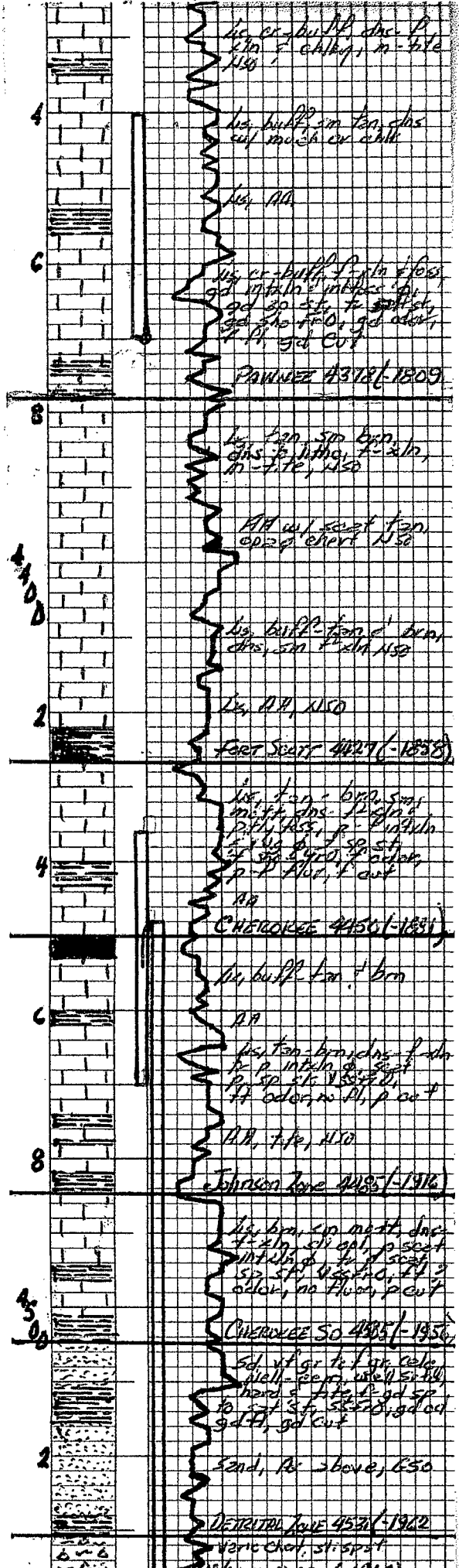
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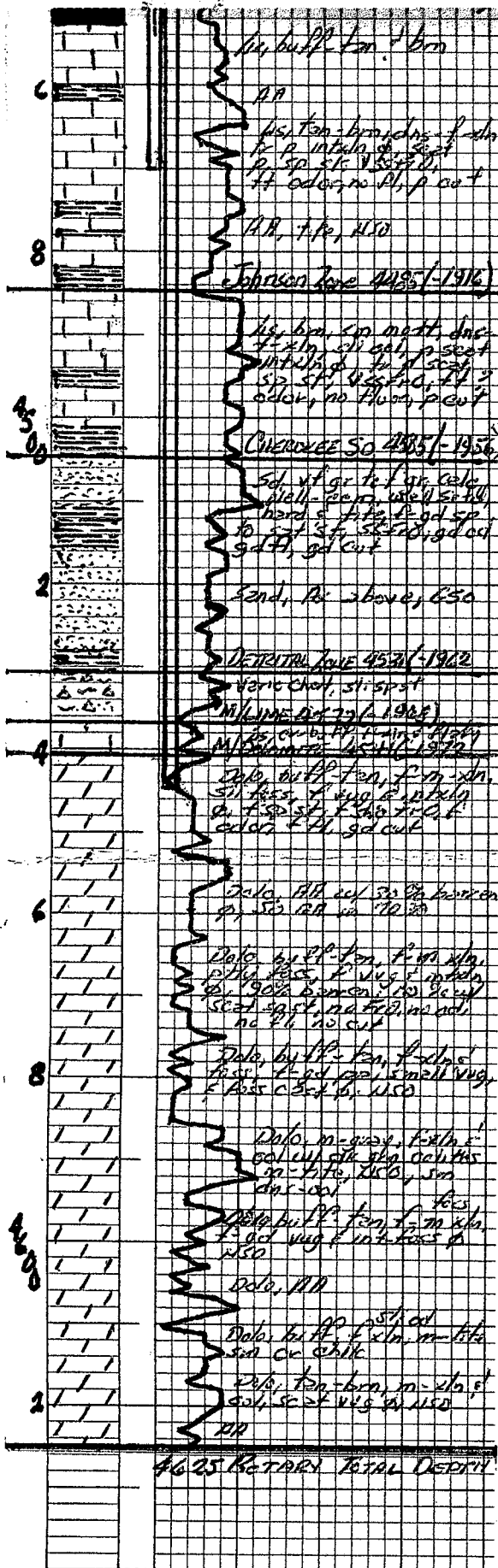
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