

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
October 2008
Form Must Be Typed

CONFIDENTIAL

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

KCC

ORIGINAL 8/27/11

OPERATOR: License # 3842 **AUG 27 2010**

Name: LARSON ENGINEERING, INC.

Address 1: 562 WEST STATE ROAD 4

Address 2: _____

City: OLMITZ State: KS Zip: 67564 + 8561

Contact Person: TOM LARSON

Phone: (620) 653-7368

CONTRACTOR: License # 33935

Name: H.D. DRILLING, LLC.

Wellsite Geologist: ROBERT LEWELLYN

Purchaser: NCRA

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil SWD SIOW
- Gas ENHR SIGW
- CM (Coal Bed Methane) Temp. Abd.
- 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. _____

5/1/2010 5/14/2010 7/1/2010

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

API No. 15 - 101-22226-00-00

Spot Description: _____

NW - NE - NE - NW Sec. 17 Twp. 19 S. R. 28 East West

273 feet from NORTH Line of Section

2000 feet from WEST Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: LANE

Lease Name: JOYCE Well #: 1-17

Field Name: HINEY

Producing Formation: LANSING-KANSAS CITY

Elevation: Ground: 2777' Kelly Bushing: 2784'

Total Depth: 4668' Plug Back Total Depth: 4623'

Amount of Surface Pipe Set and Cemented at: 261 Feet

Multiple State Cementing Collar Used? Yes No

If yes, show depth set: 2105 Feet

If Alternate II completion, cement circulated from: 2105

feet depth to: SURFACE w/ 180 sx cmt.

Drilling Fluid Management Plan AH II US 9-8-10
(Data must be collected from the Reserve Pit)

Chloride content: 38000 ppm Fluid volume: 1000 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 S. 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 K...

Title: SECRETARY/TREASURER Date: 8/27/2010

Subscribed and sworn to before me this 27TH day of AUGUST

2010.

Notary Public: Debra J. Ludwig

Date Commission Expires: MAY 5, 2012

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

KCC Office Use ONLY

Letter of Confidentiality Received 8/27/10 - 8/27/11

Denied, Yes Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

RECEIVED
AUG 30 2010

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AUG 27 2010

Operator Name: LARSON ENGINEERING, INC. Lease Name: JOYCE Well #: 1-17

Sec. 17 Twp. 19 S. R. 28 East West County: LANE **CONFIDENTIAL**

INSTRUCTIONS: Show important tops and base of formations 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> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" 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 border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> </thead> <tbody> <tr><td>ANHYDRITE</td><td>2126</td><td>+658</td></tr> <tr><td>BASE ANHYDRITE</td><td>2153</td><td>+631</td></tr> <tr><td>HEEBNER SHALE</td><td>3957</td><td>-1173</td></tr> <tr><td>LANSING-KANSAS CITY</td><td>3999</td><td>-1215</td></tr> <tr><td>STARK SHALE</td><td>4283</td><td>-1493</td></tr> <tr><td>BASE KANSAS CITY</td><td>4368</td><td>-1584</td></tr> <tr><td>ALTAMONT</td><td>4412</td><td>-1628</td></tr> <tr><td>PAWNEE</td><td>4487</td><td>-1705</td></tr> <tr><td>FORT SCOTT</td><td>4535</td><td>-1751</td></tr> <tr><td>CHEROKEE</td><td>4558</td><td>-1774</td></tr> <tr><td>MISSISSIPPIAN</td><td>4636</td><td>-1852</td></tr> </tbody> </table>	Name	Top	Datum	ANHYDRITE	2126	+658	BASE ANHYDRITE	2153	+631	HEEBNER SHALE	3957	-1173	LANSING-KANSAS CITY	3999	-1215	STARK SHALE	4283	-1493	BASE KANSAS CITY	4368	-1584	ALTAMONT	4412	-1628	PAWNEE	4487	-1705	FORT SCOTT	4535	-1751	CHEROKEE	4558	-1774	MISSISSIPPIAN	4636	-1852
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MISSISSIPPIAN	4636	-1852																																			

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#	261'	CLASS A	175	2% GEL, 3% CC
PRODUCTION	7-7/8"	5-1/2"	15.5#	4667'	SMD	95	1/4#/SK FLOCELE
					EA-2	100	7#/SK GILSONITE & 0.5% 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	2105'	SMD	180	1/4#/SK FLOCELE

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)	
		Amount and Kind of Material Used	Depth
4	4340-44	250 GAL 15% MCA	4340-44
		SQZ: 20 SX CLASS A	4340-44
4	4325-29	250 GAL 15% NEFe w/ 2 GAL MICELL-1	4325-29

TUBING RECORD: Size: <u>2-38"</u> Set At: <u>4619'</u> Packer At: _____	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. <u>7/1/10</u>	Producing Method: <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. <u>65</u> Gas Mcf <u>0</u> Water Bbls. <u>0</u> Gas-Oil Ratio _____ Gravity <u>38</u>

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify)	PRODUCTION INTERVAL: <u>4325 - 4344</u> RECEIVED
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ALLIED CEMENTING CO., LLC. 036417

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

KCC
AUG 27 2010

SERVICE POINT:
Great Bend KS

DATE <u>5-1-10</u>	SEC. <u>17</u>	TWP. <u>19S</u>	RANGE <u>28W</u>	CONFIDENTIAL C/OBB OUT	ON LOCATION	JOB START <u>7:30 pm</u>	JOB FINISH <u>8:00 pm</u>
LEASE <u>Joyce</u>	WELL # <u>1-17</u>	LOCATION <u>Dighton - KS South TO RD 90</u>	COUNTY <u>hanc</u>	STATE <u>KS</u>			
OLD OR <u>NEW</u> (Circle one)			<u>1 East TO Loughan RD 3/4 N East TO</u>				

CONTRACTOR H-D Rig OWNER Larson operating

TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 264
CASING SIZE 8 3/8 DEPTH 261
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT 15.50 BBHs fresh water

EQUIPMENT

PUMP TRUCK CEMENTER Wayne-D
181 HELPER Wayne-D
BULK TRUCK
344 DRIVER Bob-R
BULK TRUCK
DRIVER

REMARKS:

Pipe on Bottom Break circulation with Rig shut down hook up to cement line Mix 175SX of class A 3%cc 2%Gel Displace 15.50 BBHs fresh water. Cement did circulate Shut in wash up Rig Down

CHARGE TO: Larson operating
STREET _____
CITY _____ STATE _____ ZIP _____

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 LEWIS TRENT
SIGNATURE [Signature]

CEMENT
AMOUNT ORDERED 175SX class A 3%cc 2%Gel

COMMON	<u>175</u>	@	<u>13.50</u>	<u>2,362.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>20.25</u>	<u>60.75</u>
CHLORIDE	<u>6</u>	@	<u>51.50</u>	<u>309.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>175x</u>	@	<u>2.25</u>	<u>393.75</u>
MILEAGE	<u>175x 41x.10</u>			<u>717.50</u>
TOTAL				<u>3843.50</u>

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SERVICE

DEPTH OF JOB	<u>261</u>		
PUMP TRUCK CHARGE			<u>1159</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>41</u>	@	<u>7.00</u>
MANIFOLD		@	
		@	
		@	
TOTAL <u>1446.00</u>			

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL _____

SALES TAX (If Any) _____
TOTAL CHARGES [Signature]
DISCOUNT _____ IF PAID IN 30 DAYS



CHARGE TO: Larson Engineering
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET
17910

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Ness City KS WELL/PROJECT NO. 1-17 LEASE Joyce COUNTY/PARISH Lane STATE KS CITY Ness City DATE 5-14-10 OWNER _____
 2. TICKET TYPE Basic CONTRACTOR H-D Drilg. Co. RIG NAME/NO. 3 SHIPPED VIA _____ DELIVERED TO Dighton ORDER NO. _____
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cement 5 1/2 Casing WELL PERMIT NO. _____ WELL LOCATION Dighton 6S, 1E, 1N E 10
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M		U/M	
575		1			MILEAGE Trk # 114	40	mi	5	00	200 00
578		1			Pump Charge Longstring	1	ea	1400	00	1400 00
221		1			Liquid KCL	2	gal	25	00	50 00
281		1			Mud flush	500	gal	1	00	500 00
419		1			Rotating Head Rental	1	ea	150	00	150 00

KCC
 AUG 27 2010
 CONFIDENTIAL

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.C. Larson
 DATE SIGNED 5-14-10 TIME SIGNED 1500 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	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	2300 00
WE UNDERSTOOD AND MET YOUR NEEDS?				2	4733 70
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
				subtotal	7033 70
				TAX <u>lane 5.3%</u>	245 13
				TOTAL	7278 83

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

SWIFT OPERATOR Brett Corsair APPROVAL _____

Thank You!



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

TICKET CONTINUATION

TICKET No. 17910

CUSTOMER: LARSON ENGINEERING
WELL: JOYCE 1-17
DATE: 5-14-10
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		QTY.	UM	UNIT PRICE	AMOUNT	
		LOC	ACCT	DF				UM					
325		1				STANDARD CEMENT EA-2	100	SKS			12.00	1200.00	
330		1				SWIFT MULTE-DENSITY STANDARD	125	SKS			15.00	1875.00	
276		1				FLOCELE	50	LBS			1.50	75.00	
283		1				SALT	500	LBS			.15	75.00	
284		1				CALSSAL	5	SKS	500	LBS	30.00	150.00	
285		1				CFR-1	50	LBS			4.00	200.00	
290		1				D-ADR	2	GAL			35.00	70.00	
277		1				GILSONITE	700	LBS			.40	280.00	
581		1				SERVICE CHARGE							
583		1				MILEAGE CHARGE							
						TOTAL WEIGHT	23560		LOADED MILES		40		
						CUBIC FEET	225		TON MILES		471.2		

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CONTINUATION TOTAL 4733.70

JOB LOG

SWIFT Services, Inc.

DATE 5-14-10 PAGE NO. 1

CUSTOMER LARSON ENGINEERING WELL NO. 1-17 LEASE Joyce JOB TYPE 5 1/2" LONGSTRING TICKET NO. 17910

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1445							ON LOCATION
								TD - 4670' SET = 4669'
								TP - 4669' 5 1/2" # 15.5#
								ST - 42'
								PORT COLLAR =
	1550							DROP BALL - CIRCULATE ROTATE
	1650	6 3/4	12		✓		200	PUMP 500 GAL MUD FLUSH
		6 3/4	20		✓		200	PUMP 20 BRIS KCL - FLUSH
	1655	3	7					PLUG RH (30 SKS)
	1700	5	45		✓		200	MIX CEMENT - 95 SKS SMD =
		5	24		✓			100 SKS EA-2 = 15.3 PAG
								WASH OUT PUMP - LINES
								RELEASE LATCH DOWN PLUG
	1725	6 3/4	0		✓		200	DISPLACE PLUG
		6 3/4	100					SHUT OFF ROTATING
	1740		110.1				1500	PLUG DOWN - PSE UP LATCH IN PLUG
							OK	RELEASE PSE - HELD
								WASH TRUCK
	1815							JOB COMPLETE

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THANK YOU
Brett, Dave & Jason



CHARGE TO: Larson Engineering **KCC**
 ADDRESS: _____ **AUG 27 2010**
 CITY, STATE, ZIP CODE: _____ **CONFIDENTIAL**

TICKET
17922

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>Ness City KS</u>	WELL/PROJECT NO. <u>1-17</u>	LEASE <u>Joyce</u>	COUNTY/PARISH <u>Line</u>	STATE <u>KS</u>	CITY <u>Ness City</u>	DATE <u>5-28-10</u>	OWNER
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	CONTRACTOR <u>Fritzer Trucking</u>	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO <u>Dighton</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement Top Stage</u>	WELL PERMIT NO.	WELL LOCATION <u>Dighton 6S, 1E 1N, Eimt</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE Trk #114	40	mi			5.00	200.00
576		1			Pump Charge Port Collar	1	ea			1100.00	1100.00
581		1			Service Charge Cement	225	lbs			1.50	337.50
583		1			Drayage	447.60	TM			1.00	447.60
330		1			Swift Multi-Density Standard	180	sls			15.00	2700.00
276		1			Floccle	60	lbs			1.50	90.00
290		1			D-Air	2	gal			35.00	70.00

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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 John Lawson
 DATE SIGNED: 5-28-10 TIME SIGNED: 12:00
 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
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?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL	4945	10
TOTAL	5096	68

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

SWIFT OPERATOR Brett Corsair

APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 5-28-10 PAGE NO.

CUSTOMER Karson Engineering WELL NO. 1-17 LEASE Joyce JOB TYPE Cement Top Stage TICKET NO. 17922

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							On Location 2 7/8 X 5 1/2 PC @ 2105
	1240			✓		1000		Pressure Test Annulus - Held
	1215	3 1/2		✓		450		Open Tool - Injection Rate
	1225	3 1/2		✓		450		Start Cement 11.2 ppg
		4	90	✓		600		Cement to Surface 180 sks Total 20 sks to pit
		4	100	✓		750		Shut Down - Start Displacement
			7			200		Shut Down - Shut in
	1250							Close Tool
				✓		1000		Pressure Test - Held Run 5 JTs
	1310		25	✓				Reverse Clean
								Wash Truck
	1345							Job Complete Thank you Brett, Dave & Rob

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Robert C. Lewellyn

Consulting Petroleum Geologist

P. O. Box 375
Keechi, KS 67067-0375
Office 316-744-2567
Cell 316-518-0495
bobblewallyn@yahoo.com

GEOLOGICAL REPORT

Larson Engineering, Inc.

Joyce No. 1-17
273' FNL & 2000' FWL Sec. 17-19S-28W
Lane County, Kansas

CONTRACTOR: H D Drilling, LLC
SPUDED: May 01, 2010
DRILLING COMPLETED: May 14, 2010
SURFACE CASING: 8 5/8" @ 261 KBM/175 sx,
ELECTRIC LOGS: Log-Tech DIL CNL/CDL MEL
ELEVATIONS: 2784 KB 2777 GL

FORMATION TOPS (Electric Log):

Anhydrite	2126 (+ 658)
Base Anhydrite	2153 (+ 631)
Heebner Shale	3957 (-1173)
Lansing-Kansas City Group	3999 (-1215)
Muncie Creek Shale	4177 (-1393)
Stark Shale	4283 (-1493)
Hushpuckney shale	4322 (-1538)
Base Kansas City	4368 (-1584)
Altamont	4412 (-1628)
Pawnee	4487 (-1705)
Myrick Station	4508 (-1724)
Fort Scott	4535 (-1751)
Cherokee	4558 (-1774)
Mississippian	4636 (-1852)
Electric Log Total Depth	4668 (-1884)

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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:

4004-4012 (A Zone)

Limestone, cream to buff, dense with scattered finely crystalline, slightly fossiliferous, much chalky, trace of scattered gilsonite in very poor intercrystalline porosity, no show of live oil.

4037-4045 (B Zone)

Limestone, cream to buff, dense to finely crystalline with much chalk, fossiliferous with trace of oolitic, some black shale inclusions, poor scattered intercrystalline and interfossil porosity, no show of oil.

4054-4057 & 4072-4076 (C/D Zone)

Limestone, cream to buff, dense and chalky, some finely crystalline, slightly fossiliferous, scattered poor intercrystalline porosity, no shows of oil, much white, opaque, fresh chert with light gray, fresh, sub-translucent chert.

4090-4095 (E Zone)

Limestone, cream to buff, dense to finely crystalline, much chalk, partly fossiliferous, scattered poor intercrystalline porosity, no show of oil, trace of chert as above.

4100-4114 (F Zone)

Limestone, cream to buff, finely crystalline, much chalky, trace of scattered oolitic lime, trace of very poor intercrystalline porosity with scattered traces of dead stain, no shows of live oil.

4116-4136 (G Zone)

Limestone, cream to buff, some tan, finely crystalline and coarsely oolitic, fair to good ooliticastic porosity, no show of oil, some scattered white chert and dense to chalky limestone in lower portion.

4194-4226 (H Zone)

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Limestone, tan, some brown, dense, some cream chalky, some finely crystalline, zone is mostly tight with only a trace of very poor intercrystalline porosity, zone becomes dense in lower part, no show of oil.

4231-4246 (I Zone)

Limestone, very slightly dolomitic, buff to tan, dense to finely crystalline, partly fossiliferous, fair intercrystalline and interfossil porosity, poor to fair spotted stain, fair to good show of free oil, fair odor, poor to fair fluorescence, fair cut.

Drill Stem Test No. 1

4226-4240

15-30-15-30; weak surface blow on first flow; blow did not return on second flow; recovered two feet of oil spotted mud. ISIP 18# FSIP 16# IFP 14-16# FFP 15-16# IHP 2106# FHP 2067# BHT 117 degrees.

4218-4239 (J Zone)

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

4286-4304 (K Zone)

Limestone, buff to tan, dense to finely crystalline and fossiliferous in part, some slightly oolitic, fair intercrystalline porosity with scattered interoolitic porosity, poor to fair spotted stain, fair show of free oil, good odor, fair fluorescence, good cut, trace of coarsely oolitic limestone, some clusters of large oolites.

Drill Stem Test No. 2

4281-4302

15-30-30-60; blow built to bottom of bucket in 5 ½ minutes, no blowback; blow built to bottom of bucket in nine minutes, no blowback; recovered 270 feet of muddy water (70% water, 30% mud) and 450 feet of muddy water (95% water, 5% mud). ISIP 547# FSIP 547# IFP 52-204# FFP 212-372# IHP 2107# FHP 2969# BHT N/A

4330-4335 (L Zone)

Limestone, buff to tan, trace of brown, finely crystalline with scattered dense, mealy in part, fair intercrystalline porosity, some small vug porosity, fair spotted stain, fair to good show of free oil, good odor, fair fluorescence, good cut.

Drill Stem Test No. 3

4323-4335

15-30-30-60; built to eight-inch blow on first flow; no blowback; blew off bottom of bucket in 28 minutes of second flow, ¾ inch blowback died in 29 minutes; recovered 145 feet of gas in drill pipe, 217 feet of clean gassy oil (10% gas, 90% oil, 38 gravity), 58 feet of gassy oil cut mud (5% gas, 3% oil, 92% mud). ISIP 454# FSIP 437# IFP 18-62# FFP 69-101# IHP 2135# FHP 2120# BHT 127 degrees.

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4340-4353 (Middle L Zone)

Limestone, buff to tan, finely crystalline and mealy, partly fossiliferous and oolitic, fair intercrystalline and interoolitic porosity, some ooliticastic porosity, some scattered dead stain, no shows of live oil.

4363-4368 (Lower L Zone)

Limestone, buff to tan, some grey, dense to finely crystalline, poor intercrystalline and vugular porosity, poor to fair spotted stain, slight show of free oil, faint to fair odor, poor to fair fluorescence, poor to fair cut.

4368-4394 (Pleasanton Zone)

Limestone, buff to tan, finely crystalline with scattered dense, fair to good intercrystalline porosity, fair spotted stain, fair to good show of free oil, fair odor, fair fluorescence, fair cut, some re-crystallized cherty limestone.

4394-4406 (Lenapah Zone)

Limestone, tan to brown, dense to finely crystalline, scattered poor intercrystalline porosity, poor to fair spotted stain, very slight show of free oil, faint questionable odor, poor fluorescence, poor cut.

4449-4452 (Altamont Zone)

Limestone, buff to tan, some cream, dense to finely crystalline and partly fossiliferous, few pieces with poor scattered intercrystalline and small vug porosity, poor spotted stain, very slight show of free oil, faint odor, poor fluorescence, poor cut.

Drill Stem Test No. 4

4363-4462

15-30-30-60; lost 10 feet of mud on opening tool, one-inch blow diminished to ½ inch blow; blow did not return on second flow; recovered 60 feet of oil spotted mud. ISIP 402# FSIP 358# IFP 44-45# FFP 46-47# IHP 2197# FHP 2168# BHT N/A

4487-4506 (Pawnee Zone)

Limestone, tan, some brown, dense to finely crystalline, some sub-lithographic, scattered very poor intercrystalline porosity with no show of oil.

4508-4530 (Myrick Station Zone)

Limestone, buff to tan, some brown, dense to finely crystalline, partly fossiliferous, trace of very poor intercrystalline porosity, rare trace of very poor spotted stain, no free oil, no odor, no fluorescence, no cut.

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4535-4558 (Fort Scott Zone)

Limestone, partly cherty, buff to tan, dense to finely crystalline, partly oolitic with some oolitic chert, zone is mostly tight with no show of oil. Lower portion is limestone, tan to brown, dense to finely crystalline and partly oolitic, zone is mostly tight with no show of oil.

4581-4616 (Johnson Zone)

Limestone, buff to tan and brown, dense to finely crystalline, partly oolitic, few pieces with poor to fair intercrystalline and interoolitic porosity, fair spotted stain, fair show of free oil, faint to fair odor, poor fluorescence, fair cut.

4616-4636 (Detrital Zone)

This section contained mostly cream chalky to dense, tight limestone. Some scattered white chert was present in the section, but very little sand or sand grains were found.

4636-4670 (Mississippian Zone)

The Mississippian section consisted of dolomitic limestone, buff to tan, finely crystalline and slightly fossiliferous. The section contained only poor intercrystalline porosity and no shows of oil.

4670

Rotary Total Depth

Conclusions and Recommendations:

Pipe was cemented in the No. 1-17 Joyce. Completion should be accomplished with treatment as necessary to facilitate production as per Tom Larson.

Respectfully submitted,

Robert C. Lewellyn
Petroleum Geologist

RCL:me

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KANSAS COUNTY **LANE** BLOCK **17** SEC. **17**

COMPANY **BARSON ENGINEERING, INC.** FARM **Joyce** WELL NO. **1-17**

SURVEY **273' ENL 5' 2000' ENL**

T. **19S** R. **28W** TOTAL DEPTH **4670**

CONTRACTOR **H.D. Drilling, LLC**

COMMENCED **05-01-2010**

COMPLETED **05-14-2010**

REMARKS

ALTITUDE **2784 KB**

PRODUCTION **Oil**

Robert C. Lawellon - Geologist

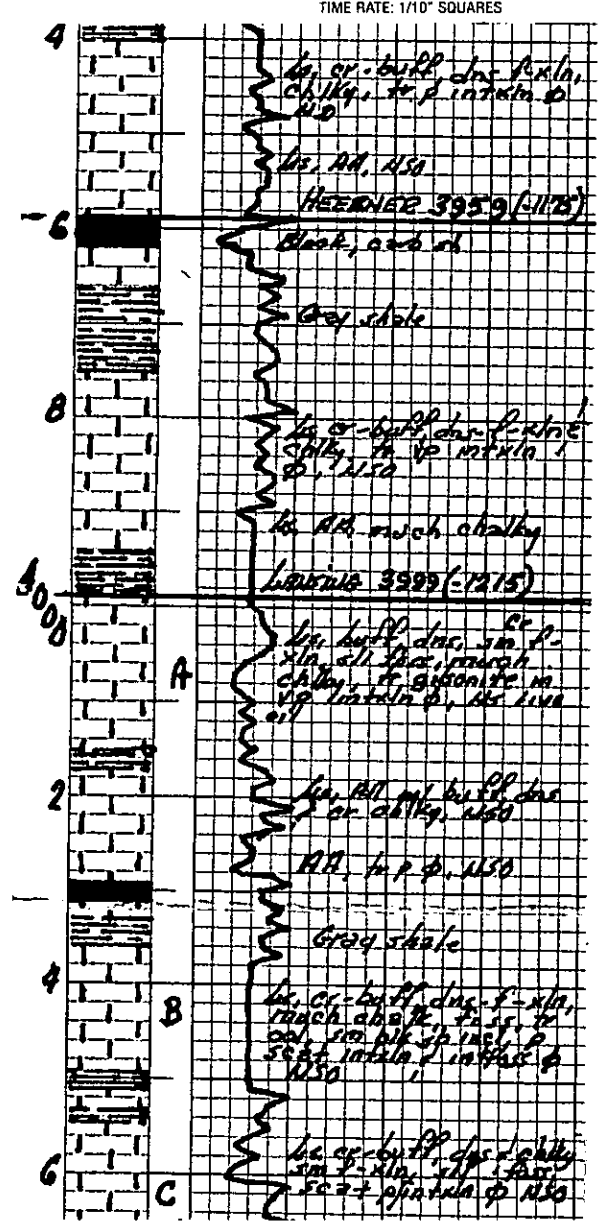
CASING RECORD

8 3/8" @ 261 KBM/175 ss.

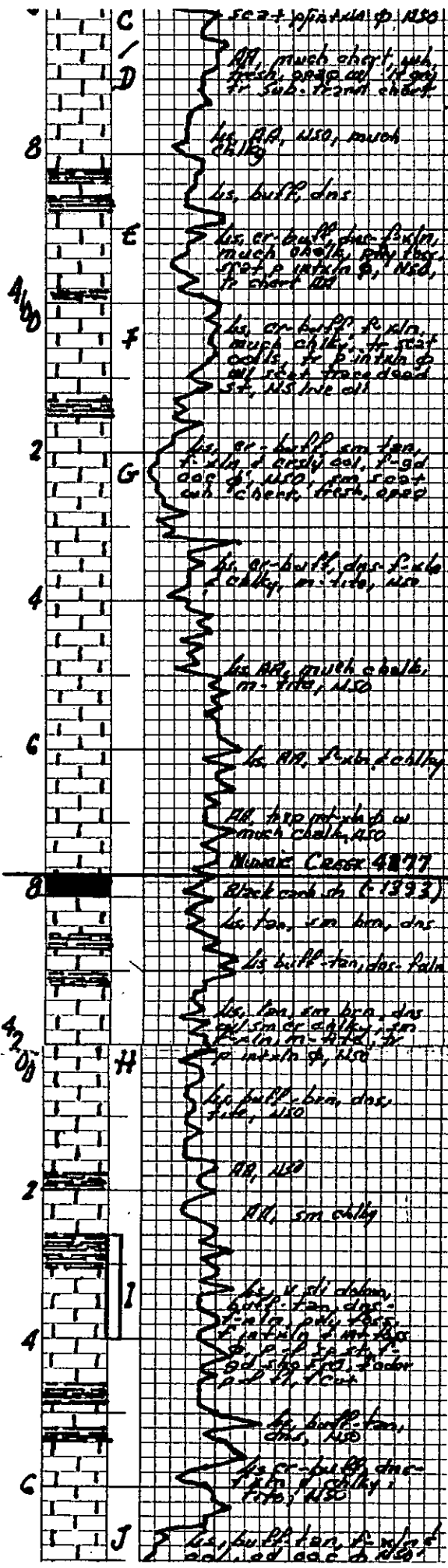
SHOT QUARTS BETWEEN

TIME RATE SCALE: 1/10" MINUTES

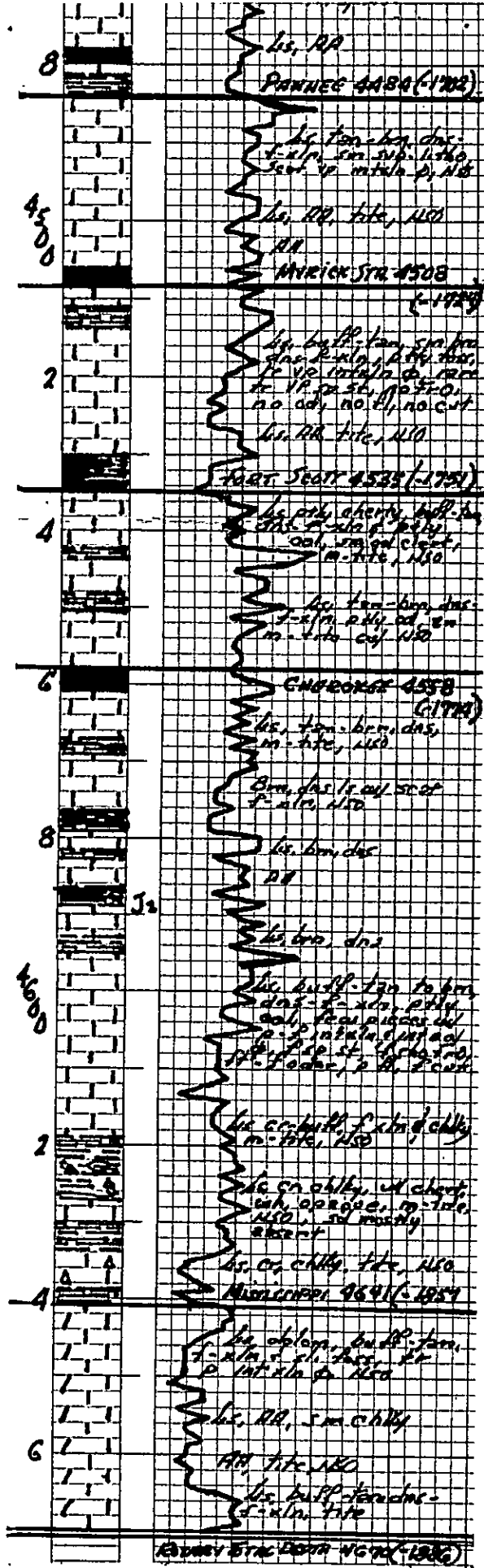
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