

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

9/10/11

OPERATOR: License # 3842

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: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil SWD SLOW
- 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. _____

5/11/2009 5/23/2009 5/23/09

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

API No. 15 - 101-22165-00-00

Spot Description: _____

NW - NW - SW - NE Sec. 27 Twp. 17 S. R. 30 East West

1584 feet from NORTH Line of Section

2498 feet from EAST Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: LANE

Lease Name: PENKA Well #: 1-27

Field Name: WILDCAT

Producing Formation: _____

Elevation: Ground: 2854' Kelly Bushing: 2864'

Total Depth: 4639' Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 264 Feet

Multiple State 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 PANS 10-29-09
(Data must be collected from the Reserve Pit)

Chloride content: 8200 ppm Fluid volume: 1280 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 La

Title: SECRETARY/TREASURER Date: 9/10/09

Subscribed and sworn to before me this 10TH day of SEPTEMBER

2009

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

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

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Side Two

Operator Name: LARSON ENGINEERING, INC. Lease Name: PENKA Well #: 1-27

Sec. 27 Twp. 17 S. R. 30 East West County: LANE

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 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;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>ANHYDRITE</td> <td>2192</td> <td>+672</td> </tr> <tr> <td>BASE ANHYDRITE</td> <td>2249</td> <td>+615</td> </tr> <tr> <td>HEEBNER SHALE</td> <td>3899</td> <td>-1035</td> </tr> <tr> <td>LANSING-KC</td> <td>3935</td> <td>-1071</td> </tr> <tr> <td>STARK SHALE</td> <td>4206</td> <td>-1342</td> </tr> <tr> <td>BASE KC</td> <td>4280</td> <td>-1416</td> </tr> <tr> <td>PAWNEE</td> <td>4399</td> <td>-1535</td> </tr> <tr> <td>FORT SCOTT</td> <td>4447</td> <td>-1583</td> </tr> <tr> <td>CHEROKEE</td> <td>4471</td> <td>-1607</td> </tr> <tr> <td>MISSISSIPPIAN</td> <td>4542</td> <td>-1878</td> </tr> </table>	Name	Top	Datum	ANHYDRITE	2192	+672	BASE ANHYDRITE	2249	+615	HEEBNER SHALE	3899	-1035	LANSING-KC	3935	-1071	STARK SHALE	4206	-1342	BASE KC	4280	-1416	PAWNEE	4399	-1535	FORT SCOTT	4447	-1583	CHEROKEE	4471	-1607	MISSISSIPPIAN	4542	-1878
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CASING RECORD <input type="checkbox"/> New <input checked="" 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"	20#	264'	CLASS A	180	2% GEL, 3% CC

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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					

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)

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TUBING RECORD: Size: _____ Set At: _____ Packer At: _____	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. _____	Producing Method: <input type="checkbox"/> Flowing <input 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 _____

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 <input checked="" type="checkbox"/> Other (Specify) D & A	PRODUCTION INTERVAL: _____
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ALLIED CEMENTING CO., LLC. 036297

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

SERVICE POINT:
NEES CITY KS

DATE <u>5-12-09</u>	SEC. <u>27</u>	TWP. <u>17S</u>	RANGE <u>30W</u>	CALLED OUT <u>900 PM</u>	ON LOCATION <u>1200 AM</u>	JOB START <u>230 AM</u>	JOB FINISH <u>300 AM</u>
LEASE <u>Penka</u>		WELL # <u>1-27</u>		LOCATION <u>Amy west side Dodge RD</u>		COUNTY <u>lane</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)			<u>5 N To 300 rd 1/2 west south 1/4</u>				

CONTRACTOR H-D Riz 2
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 267
 CASING SIZE 9 5/8 DEPTH 267
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 200 MINIMUM 0
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15
 PERFS. _____
 DISPLACEMENT 16 BBHs fresh water
 EQUIPMENT _____

OWNER harbon operating
 CEMENT AMOUNT ORDERED 180 SK Common 3% cc 2% Gel

PUMP TRUCK CEMENTER wayne - D
 # 366 HELPER Galien - D
 BULK TRUCK
 # 344-170 DRIVER Randy - P
 BULK TRUCK
 # _____ DRIVER _____

COMMON <u>180 SK</u>	@ <u>13.50</u>	<u>2430.00</u>
POZMIX _____	@ _____	_____
GEL <u>4</u>	@ <u>20.25</u>	<u>81.00</u>
CHLORIDE <u>6</u>	@ <u>51.50</u>	<u>309.00</u>
ASC _____	@ _____	_____
HANDLING <u>190</u>	@ <u>2.25</u>	<u>427.50</u>
MILEAGE <u>49/190/110</u>		<u>931.00</u>
TOTAL		<u>4178.50</u>

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REMARKS:

Pipe on bottom Break circulation
mix 180 SK common 3% cc 2% Gel
Displace with fresh water 88ls
and shut in. Cement did circulate

SERVICE

DEPTH OF JOB <u>267</u>		
PUMP TRUCK CHARGE _____		<u>991.00</u>
EXTRA FOOTAGE _____	@ _____	_____
MILEAGE <u>49</u>	@ <u>7.00</u>	<u>343</u>
MANIFOLD _____	@ _____	_____
TOTAL		<u>1334.00</u>

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

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
Thrust

SALES TAX (If Any) _____
 TOTAL CHARGES 4178.50
 DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 035056 A

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

SERVICE POINT:

Dakley, KS

SW NE

DATE <i>5/23/09</i>	SEC. <i>27</i>	TWP. <i>17</i>	RANGE <i>30</i>	CALLED OUT	ON LOCATION <i>4:30 AM</i>	JOB START <i>6:30 AM</i>	JOB FINISH <i>9:30 AM</i>
LEASE <i>Parkg</i>	WELL # <i>1-27</i>	LOCATION <i>Healy STO Rd 200 1/2 W</i>			COUNTY <i>lane</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)				<i>Sints</i>			

CONTRACTOR *H & D #2*

TYPE OF JOB *PTA*

HOLE SIZE *7 7/8* T.D. *4640*

CASING SIZE *8 5/8* DEPTH *264*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER *Same*

CEMENT AMOUNT ORDERED *280 SKs 60/40 470*

gel 1 1/4 lb FLO Seal

COMMON <i>168</i>	@	<i>13.90</i>	<i>2268.00</i>
POZMIX <i>112</i>	@	<i>7.53</i>	<i>845.60</i>
GEL <i>10</i>	@	<i>20.25</i>	<i>202.50</i>
CHLORIDE	@		
ASC	@		
<i>FLO Seal 20lb</i>	@	<i>2.45</i>	<i>171.00</i>
<i>KCC</i>	@		<i>RECEIVED</i>
<i>SEP 10 2009</i>	@		<i>SEP 11 2009</i>
<i>CONFIDENTIAL</i>	@		<i>KCC WICHITA</i>
HANDLING <i>293 SKs</i>	@	<i>2.25</i>	<i>659.25</i>
MILEAGE <i>104 SK/mile</i>			<i>1172.00</i>
TOTAL			<i>5318.85</i>

EQUIPMENT

PUMP TRUCK # <i>422</i>	CEMENTER <i>Alan</i>
BULK TRUCK # <i>347</i>	HELPER <i>Wayne</i>
BULK TRUCK # <i>377</i>	DRIVER <i>Louise</i>
	DRIVER <i>Louise</i>

REMARKS:

50 SKs @ 2300' Displace 27 BBL Keg Mud

80 SKs @ 1500' Displace 10 BBL H₂O

40 SKs @ 750' Displace 5 BBL H₂O

50 SKs @ 300' Displace 1 BBL H₂O

20 SKs @ 60'

30 SKs @ Ret Hole

Thank You
Alan, Wayne, Louise

CHARGE TO: *Larson Engineering*

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB *2300'*

PUMP TRUCK CHARGE *1159.00*

EXTRA FOOTAGE @ _____

MILEAGE *499 miles* @ *7.00* *280.00*

MANIFOLD @ _____

TOTAL *1439.00*

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 _____

SIGNATURE _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

Robert C. Lewellyn

Consulting Petroleum Geologist

P. O. Box 375
Kechi, KS 67067-0609
Office 316-744-2567
Cell 316-518-0495
Fax 209-396-2988
boblewallyn@yahoo.com

GEOLOGICAL REPORT

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Larson Engineering, Inc.
Penka No. 1-27
1584' FNL & 2498' FEL Sec. 27-17S-30W
Lane County, Kansas

CONTRACTOR: H D Drilling, LLC
SPUDDED: May 11, 2009
DRILLING COMPLETED: May 22, 2009
SURFACE CASING: 8 5/8" @ 264 KBM/180 sx,
ELECTRIC LOGS: Log-Tech DIL CNL/CDL MEL
ELEVATIONS: 2864 KB 2854 GL

FORMATION TOPS (Electric Log):

Anhydrite	2192 (+ 672)
Base Anhydrite	2249 (+ 615)
Heebner Shale	3899 (-1035)
Lansing-Kansas City Group	3935 (-1071)
Muncie Creek Shale	4106 (-1242)
Stark Shale	4206 (-1342)
Hushpuckney shale	4240 (-1376)
Base Kansas City	4280 (-1416)
Altamont "A"	4344 (-1480)
Pawnee	4399 (-1535)
Myrick Station	4424 (-1560)
Fort Scott	4447 (-1583)
Cherokee	4471 (-1607)
Mississippian	4542 (-1678)
Electric Log Total Depth	4639 (-1775)

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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:

3939-3946 (A Zone)

Limestone, cream to buff, finely crystalline and chalky, zone is mostly tight with no shows of oil.

3970-3983 (B Zone)

Limestone, cream, finely crystalline and chalky, slightly fossiliferous, zone is mostly tight with no shows of oil.

3936-4017 (C/D Zone)

Limestone, cream to buff, dense to finely crystalline and chalky, zone is mostly tight, some light gray, fresh, opaque chert.

4019-4036 (E Zone)

Limestone, cream to buff, dense, slightly oolitic, zone is mostly tight with no shows of oil.

4038-4049 (F Zone)

Limestone, buff to tan, dense to finely crystalline, trace of poor scattered interoolitic porosity, no shows of oil.

4051-4055 (G Zone)

Limestone, cream to buff, dense to finely crystalline and partly oolitic, scattered poor ooliticastic porosity, no shows of oil.

4117-4119 (H Zone)

Limestone, buff to tan, some brown, dense to finely crystalline, some fossiliferous, scattered poor to fair intercrystalline and interfossil porosity, poor spotted stain, fair show of free oil, fair to good odor, poor fluorescence, fair cut.

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Drill Stem Test No. 1

4100-4128

15-30-15-30; weak surface blow, died in four minutes of first flow, did not return on second flow. Recovered five feet of mud with oil spots. ISIP 113# FSIP 72# IFP 36-34# FFP 33-34# IHP 2050# FHP 1977# BHT 111 degrees

4159-4161 (I Zone)

Limestone, cream to buff, finely crystalline and partly oolitic, fair to good vugular, intercrystalline, and interoolitic porosity, fair to good spotted stain, fair to good show of oil, good odor, poor to fair fluorescence, fair to good cut.

4181-4184 & 4189-4192 (J Zone)

Limestone, cream to buff, dense to finely crystalline and chalky, partly oolitic, scattered very poor intercrystalline and interoolitic porosity, scattered poor spotted stain, very slight show of free oil, faint odor, no odor, no cut.

Drill Stem Test No. 2

4140-4200

15-30-30-60; quarter-inch blow built to four inches on first flow period, no blowback; quarter-inch blow built to eight inches on second flow, weak surface blowback, did not build. Recovered 40 feet of gassy oil (10% gas, 90% oil), 62 feet of mud cut oil (60% oil, 40% mud), 124 feet of mud cut gassy oil (30% gas, 30% oil, 40% mud). ISIP 959# FSIP 947# IFP 23-67# FFP 75-104# IHP 2051# FHP 2018# BHT 115 degrees.

4220-4225 (K Zone)

Limestone, cream to buff, some tan, dense to finely crystalline, some chalky, scattered poor intercrystalline porosity, rare trace of poor spotted stain, no free oil, no odor, no fluorescence, no cut.

4245-4249 (Middle Creek Zone)

Limestone, buff to tan, dense to finely crystalline, zone is mostly tight with no show of oil.

4263-4267 (L Zone)

Limestone, buff to tan, some brown, dense to finely crystalline, trace of poor scattered intercrystalline porosity, one or two pieces with poor spotted stain, no free oil, no odor, no fluorescence, no cut, zone warrants no further evaluation.

4288-4294 (Pleasanton Zone)

Limestone, buff to tan, some brown, dense to finely crystalline and partly sucrosic, fair intercrystalline and intergranular porosity, fair spotted stain, fair show of free oil, good odor, fair fluorescence, fair cut.

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Drill Stem Test No. 3

4292-4300

15-30-30-60; surface blow, built to quarter-inch on first flow, no blowback, surface blow, built to 1/2 inch on second flow, no blowback. Recovered 72 feet of water cut mud (5% water, 95% mud). ISIP 1077# FSIP 1071# IFP 23-32# FFP 37-57# IHP 2128# FHP 2095# BHT 116 degrees

4332-4339 (Marmaton Zone)

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

4344-4373 (Altamont "A" Zone)

Limestone, cream to buff, finely crystalline and partly chalky, partly fossiliferous and oolitic, scattered fair intercrystalline with some pinpoint porosity, poor spotted stain, very slight show of free oil, faint odor, poor fluorescence, poor cut.

4377-4396 (Altamont "B" Zone)

Limestone, cream to buff, some tan, finely crystalline and oolitic, slightly fossiliferous, fair intercrystalline and interoolitic porosity, trace of fair interfossil porosity, fair spotted stain, fair show of free oil, fair fleeting odor, no fluorescence, fair cut.

Drill Stem Test No. 4

4300-4394

15-30-15-30; quarter-inch blow died in 10 minutes. Recovered 10 feet of mud with oil spots. ISIP 374# FSIP 140# IFP 24-23# FFP 26-25# IHP 2208# FHP 2118# BHT 108 degrees.

4399-4422 (Pawnee Zone)

Limestone, cream to buff, dense to finely crystalline, slightly fossiliferous, scattered poor to fair intercrystalline and vugular porosity, poor to fair spotted stain, slight show of free oil, faint odor, no fluorescence, poor cut, scattered light gray, opaque, fresh chert.

4424-4443 (Myrick Station Zone)

Limestone, buff to tan, dense to finely crystalline, zone is mostly tight with no shows of oil.

4447-4471 (Fort Scott Zone)

Limestone, tan to brown, dense to finely crystalline, somewhat pyritic, scattered poor intercrystalline porosity, very slight show of free oil, poor scattered stain, no odor, poor fluorescence, poor cut. Lower portion is partly oolitic with poor interoolitic and

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intercrystalline porosity, trace of poor spotted stain, very slight show of free oil, faint odor, no fluorescence, poor cut. Some tan oolitic limestone with black oolites.

4511-4529 (Johnson Zone)

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

Drill Stem Test No. 5 4397-4536

15-30-30-60; one-inch blow built to five-inch blow on first flow, no blowback, quarter inch blow built to five-inch bow on second flow, no blowback. Recovered 72 feet of mud with oil spots (100% mud), 186 feet of water cut mud with oil spots (5% water, 95% mud). ISIP 1092# FSIP 1008# IFP 42-103# FFP 109-142# IHP 2244# FHP 2160# BHT 116 degrees.

4542-4554 (Mississippian Zone)

Limestone, cream to buff, dense to finely crystalline, brittle, some chalky, mostly tight, no show of oil, some very fine grained sand, tight, well cemented, no show of oil in limestone or sand.

4554-4560

Limestone, buff, dense to finely crystalline with some oolitic, scattered poor intercrystalline and interoolitic porosity, no shows of oil.

4560-4616

Limestone, dense to finely crystalline with cream chalky, flaky and brittle, with some tan lithographic limestone, zone is tight with no shows of oil.

4616-4640

Dolomite, tan to brown, finely crystalline, slightly fossiliferous, slightly oolitic, rare trace of poor spotted stain in one or two pieces, very slight show of free oil, faint fleeting odor, no fluorescence, no cut. Zone warrants no further evaluation.

4640 Rotary Total Depth

Conclusions and Recommendations:

Sample examination, drill stem testing, and electric logging revealed no zones of probable commercial production. The "I" zone tested some oil, but was only one foot thick, and was deemed too thin to produce sufficient oil to warrant the expense of setting

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pipe and putting the well on the pump. Therefore it was decided by all parties concerned that the No. 1-27 Penka should be plugged and abandoned.

The Pleasanton zone exhibited porosity from 4288-4294 on the electric log. The drilling break in the Pleasanton by driller's depths was from 4289-4297. It is a moot question because the Pleasanton porosity had only 2 ½ ohms of resistivity, but from the driller's depths it appears that Drill Stem Test No. 3 sufficiently covered the Pleasanton Porosity. Refer to the attached sample log for an illustration of this.

Respectfully submitted,

Robert C. Lewellyn
Petroleum Geologist

RCL:me

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STATE **KANSAS** COMPANY **LARSON ENGINEERING**

COUNTY **SENECA** FARM **1-27** WELL NO. **1-27**

BLOCK **1584' Fm 5' 2428 FRL** SURVEY

SEC. **27** **NW NW SW NE**

T. **17S** R. **30W** TOTAL DEPTH **4640**

CONTRACTOR **H.D. Drilling**

COMMENCED **5-11-09**

COMPLETED **5-22-09**

REMARKS

ALTITUDE **2864 KB**

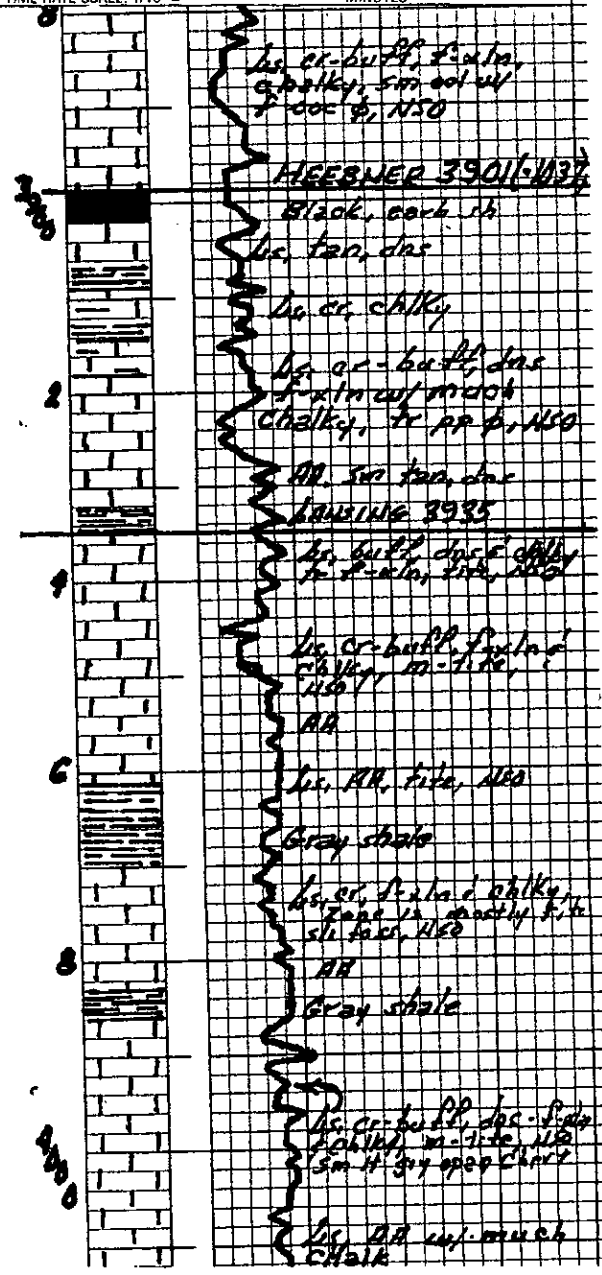
PRODUCTION **DEA** **Robert C. Bennett - Geologist**

CASING RECORD

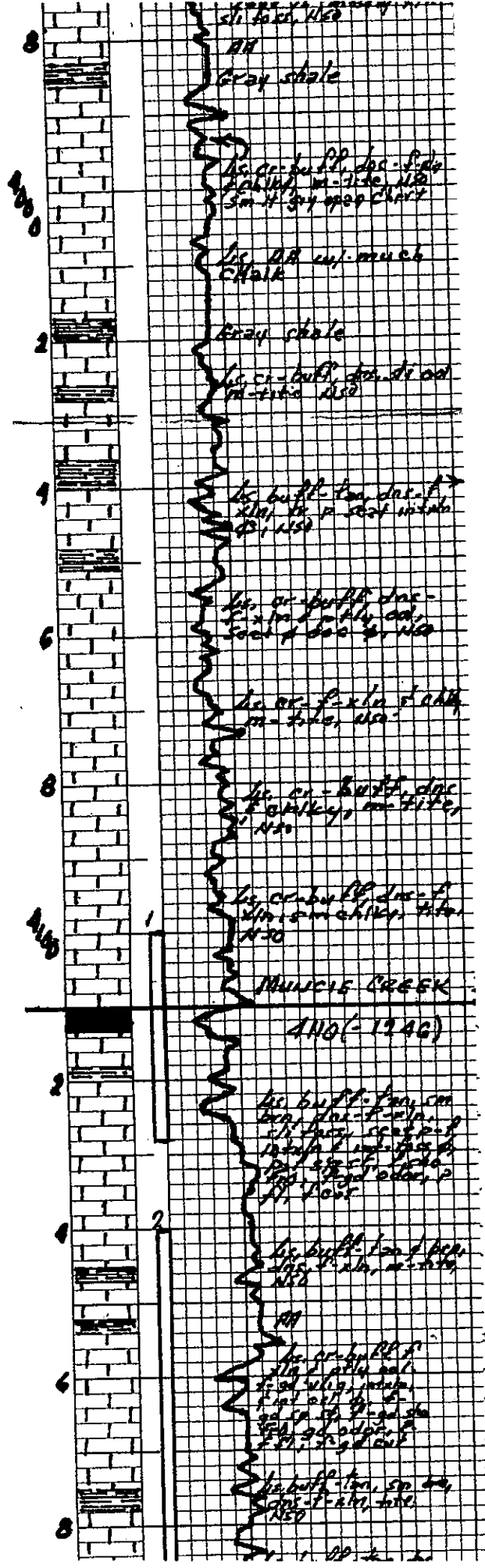
8 5/8" @ 264 KBM / 180 SK

SHOT QUARTS BETWEEN

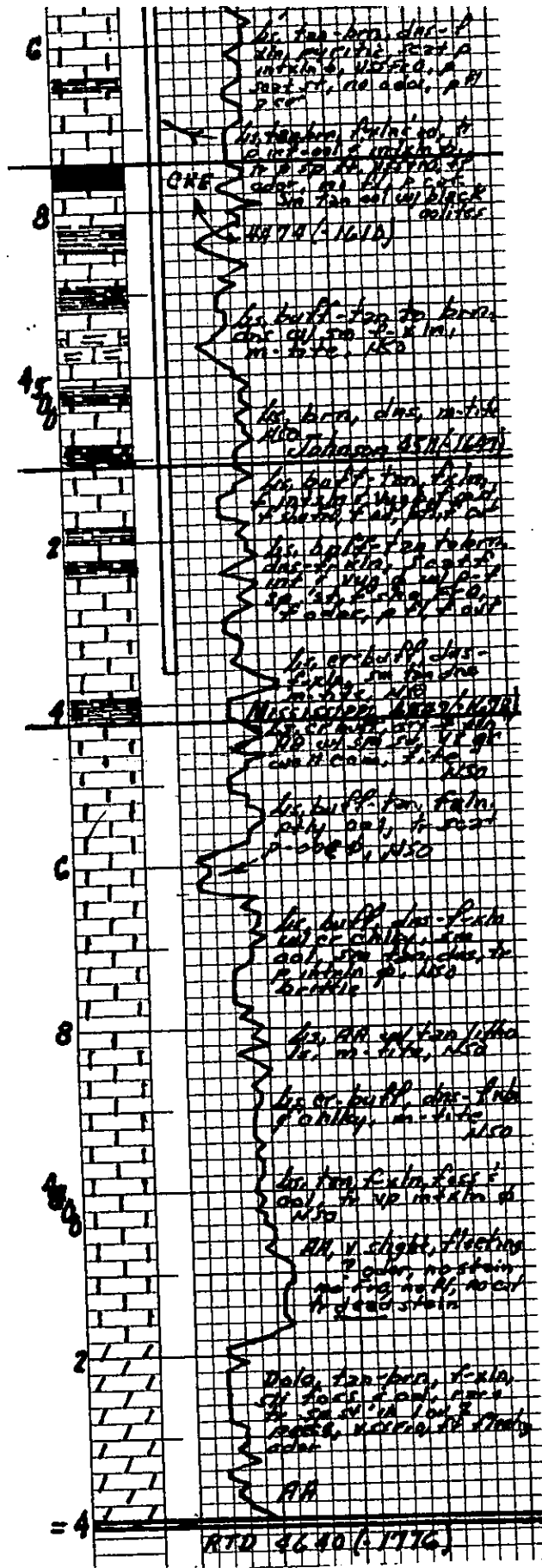
TIME RATE SCALE: 1/10" = MINUTES



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