

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM  
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: License # 4173  
Name Cob-Kan Development, Inc.  
Address P. O. Box 467  
City/State/Zip Russell, KS 67665

Purchaser Koch Oil Company  
Wichita, Kansas

Operator Contact Person Tim Mahoney  
Phone (913) 483-5341

Contractor: License # 8241  
Name Emphasis Oil Operations

Wellsite Geologist Mike Bair  
Phone (913) 483-6393

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp Abd  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply etc.)

If OWWO: old well info as follows:  
Operator .....  
Well Name .....  
Comp. Date ..... Old Total Depth.....

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
9/6/85 9/14/85 10/22/85  
Spud Date Date Reached TD Completion Date  
3364 RTD 3300'  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 427 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set.....feet  
If alternate 2 completion, cement circulated  
from.....feet depth to.....w/.....SX cmt

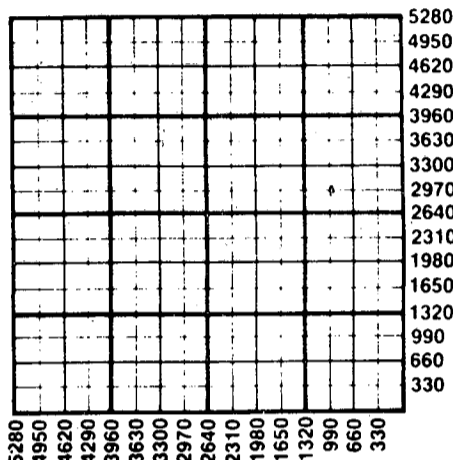
API NO. 15-167-22,644-60-00  
County Russell  
SW SE NE Sec 34 Twp 14 Rge 15  East  West

2970 Ft North from Southeast Corner of Section  
990 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Lease Name Warren Well # 1  
Field Name Garham BAXTER, EAST

Producing Formation LKC  
Elevation: Ground 1860 KB 1865

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  
Docket # .....  Repressuring

Questions on this portion of the ACO-1 call:  
Water Resources Board (913) 296-3717

Source of Water:  
Division of Water Resources Permit #.....  
 Groundwater.....Ft North from Southeast Corner  
(Well) .....Ft West from Southeast Corner of  
Sec Twp Rge  East  West  
 Surface Water.....Ft North from Southeast Corner  
(Stream, pond etc).....Ft West from Southeast Corner  
Sec Twp Rge  East  West  
 Other (explain).....  
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 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 drillers time log shall be attached with this form. 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 [Signature]  
Title President Date 12/15/86

Subscribed and sworn to before me this 15th day of December  
1986  
Notary Public René A. Fritschen  
Date Commission Expires June 01, 1988

RENE A. FRITSCHEN  
NOTARY PUBLIC  
STATE OF KANSAS  
MY APPT. EXPIRES 6-01-88

DEC 17 1986  
12-17-86  
CONSERVATION DIVISION  
Wichita, Kansas

Form ACO-1 (7-84)

Sec 34 Twp 14 Rge 15W

Operator Name Col-Kan Development, Inc. Lease Name Warren Well # 1

Sec. 34 Twp. 14 Rge. 15  East  West County Russell

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

Name	Top	Bottom
Topeka	2785	
Heebner	3010	
Toronto	3030	
Lansing KC	3069	
Base KC	3294	
Marmaton	3300	
Arbuckle	3344	
T.D.	3361	

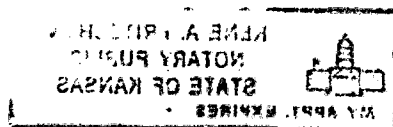
SEE COPIES ATTACHED (DST's)

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	20	427	60/40PQZ	200	3%cc. 2%gal.
Production	7-7/8	5-1/2	14	3363	50/50PQZ	175	18% salt
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
12	from 3320-3323			250 gal. 15% Non E.		3301-23	
12	from 3307 1/2-3310 1/2			3000 gal. 20% Non E.		3229-50	
9	from 3246-3250			3000 gal. 20% Non E.		3092-96	
7	from 3228-3231			(Squeeze through retainer at		3330 to 2966	
16	from 3092-3096			w/ 100sacks of salt sat. common)			
TUBING RECORD		Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		2"	3250'	--			
Date of First Production	Producing Method						
10/27/85	<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	Gas	Water	Gas-Oil Ratio	Gravity		
10 Bopd							
	Bbls	MCF	Bbls	CFPB			

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) .....  
 Used on Lease  Dually Completed  Commingled



**SUPERIOR TESTERS 15-167-22644-00-00**  
RR #1, Box 295B, Great Bend, Kansas

Date 9-11-85 Location 34 14<sup>s</sup> - 15<sup>w</sup> Elevation \_\_\_\_\_ County Russell  
 Company Cal-Kan Number of Copies \_\_\_\_\_  
 Address P.O. Box 467 Russell, Kansas 67165  
 Charts Mailed to P.O. Box 467 Russell, Kansas 67165  
 Invoice Mailed to P.O. Box 467 Russell, Kansas 67165  
 Lease Wasson Well No. #1 Formation Tested Lansing Test No. #1  
 Depth 3104' Tested from 3048' to 3104' Packer Size 6 3/4 Anchor Length 56'  
 Top Packer Depth 3043' ft. Bottom Packer Depth 3048' ft. Dual Packers yes  
 Tool Joint Size 4 1/2 F.H. Tool Size 5 1/2 20 Hole Size 2 1/8 Did Packer Hold yes  
 Drilling Contractor Empire Rig #6  
 Length Drill Pipe 3033 I.D. Drill Pipe 3.87 Tool Joint Size 4 1/2 F.H.  
 Length Weight Pipe None I.D. Weight Pipe \_\_\_\_\_ Tool Joint Size \_\_\_\_\_  
 Length Drill Collars None I.D. Drill Collars \_\_\_\_\_ Tool Joint Size \_\_\_\_\_

Tool Open I.F.P. from 12:20 Am to 1:05 Am 45 min  
 Tool Closed I.C.I.P. from 1:05 Am to 1:50 Am 45 min  
 Tool Open F.F.P. from 1:52 Am to 2:35 Am 45 min  
 Tool Closed F.C.I.P. from 2:35 Am to 3:20 Am 45 min

from [B] <u>63</u> P.S.I. to [C] <u>24</u> P.S.I.
[D] <u>929</u> P.S.I.
from [E] <u>85</u> P.S.I. to [F] <u>85</u> P.S.I.
[G] <u>918</u> P.S.I.

Initial Hydrostatic Pressure [A] 1703 P.S.I. Final Hydrostatic Pressure [H] 1682 P.S.I. Maximum Temp 98° F  
 Initial Blow Good blow - 23 minutes off the bottom of the bucket  
 Final Blow Good Blow - 8 minutes off the bottom of the bucket.  
 Gas to Surface None Min. Oil to Surface None Min. Mud Weight 9.7 Viscosity 36  
 Gas Guaged None

155' oil cut mud

Recovery	<u>30' - 60% Mud</u>	<u>8% water</u>	<u>16% oil</u>	<u>16% Gas</u>
	<u>125' - 48% Mud</u>	<u>9% water</u>	<u>22% oil</u>	<u>21% Gas</u>

Remarks \_\_\_\_\_

Extra Equipment-Jars None Safety Joint None Extra Packer None Straddle None Hook Wall None  
 Top Recorder No. 3825 Clock no. 23915 Depth 3098' Cir. Sub \_\_\_\_\_ Sampler None  
 Bottom Recorder No. 2186 Clock No. 2186 Depth 3101' Chlorides - pits 78000 D.S.T. 91,000  
 Price of Job 602.00  
 Tool Operator John Supple  
 Approved By \_\_\_\_\_

SUPERIOR TESTERS, INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONEL OF THE ONE FOR WHOM A TEST IS MADE, OF FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Ticket No. 9341

STATE CORPORATION COMMISSION

DEC 17 1985

CONSERVATION DIVISION  
Wichita, Kansas

**SUPERIOR TESTERS**  
RR #1, Box 295B, Great Bend, Kansas

15-167-22644-00-00

Date 9-11-85 Location 34 14<sup>s</sup> 15<sup>s</sup> Elevation \_\_\_\_\_ County Russell

Company Cal-Kan Number of Copies \_\_\_\_\_

Address P.O. Box 467 Russell, Kansas 67665

Charts Mailed to P.O. Box 467 Russell, Kansas 67665

Invoice Mailed to P.O. Box 467 Russell, Kansas 67665

Lease Warren Well No. #1 Formation Tested Lansing Test No. #2

Depth 3124' Tested from 3109' to 3124' Packer Size 6 3/4 Anchor Length 15'

Top Packer Depth 3104' ft. Bottom Packer Depth 3109' ft. Dual Packers yes

Tool Joint Size 4 1/2 F.H. Tool Size 5 1/2 O.D. Hole Size 7 7/8 Did Packer Hold yes

Drilling Contractor Emphasis Rig #6

Length Drill Pipe 3088' I.D. Drill Pipe 3.80' Tool Joint Size 4 1/2 x H.

Length Weight Pipe None I.D. Weight Pipe - Tool Joint Size -

Length Drill Collars None I.D. Drill Collars - Tool Joint Size -

Tool Open I.F.P. from 3:15 P.m to 3:45 P.m 30 min

Tool Closed I.C.I.P. from 3:45 P.m to 4:30 P.m 45 min

Tool Open F.F.P. from 4:30 P.m to 5:00 P.m 30 min

Tool Closed F.C.I.P. from 5:00 P.m to 5:45 P.m 45 min

from [B] 53 P.S.I. to [C] 85 P.S.I.  
[D] 557 P.S.I.  
from [E] 117 P.S.I. to [F] 127 P.S.I.  
[G] 446 P.S.I.

Initial Hydrostatic Pressure [A] 1682 P.S.I. Final Hydrostatic Pressure [H] 1671 P.S.I. Maximum Temp 98° °F

Initial Blow Good Blow - 9 minutes off the bottom of the bucket

Final Blow Good Blow - 20 minutes off the bottom of the bucket

Gas to Surface None Min. Oil to Surface None Min. Mud Weight 9.8 Viscosity 40

Gas Gauged None

Recovery 270' water

(Top portion slightly mud cut)

Remarks \_\_\_\_\_

Extra Equipment-Jars None Safety Joint None Extra Packer None Straddle None Hook Wall None

Top Recorder No. 3825 Clock no. 23915 Depth 3118' Cir. Sub - Sampler None

Bottom Recorder No. 2186 Clock No. 8968 Depth 3121' Chlorides - ppts 12000 D.S.T. 91,20

Price of Job \$600.00

Tool Operator Dean Supper

Approved By \_\_\_\_\_

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STATE CORPORATION COMMISSION

Ticket No 9342

DEC 17 1985

CONSERVATION DIVISION  
Wichita, Kansas

SUPERIOR TESTERS  
RR #1, Box 295B, Great Bend, Kansas

15-167-22644-00-00

Date 9-13-85 Location 34 14<sup>s</sup> 15<sup>w</sup> Elevation \_\_\_\_\_ County Russell  
Company Cal-Kan Number of Copies \_\_\_\_\_  
Address P.O. Box 467 Russell, Kansas 67665  
Charts Mailed to P.O. Box 467 Russell, Kansas 67665  
Invoice Mailed to P.O. Box 467 Russell, Kansas 67665  
Lease Warren Well No. #1 Formation Tested Gasland Test No. #3  
Depth 3331' Tested from 3301' to 3331' Packer Size 6 3/4 Anchor Length 30'  
Top Packer Depth 3296' ft. Bottom Packer Depth 3301 ft. Dual Packers yes  
Tool Joint Size 4 1/2 F.H Tool Size 5 1/2 o.d. Hole Size 7 1/2 Did Packer Hold yes  
Drilling Contractor Emporis Rig #16  
Length Drill Pipe 3280' I.D. Drill Pipe 3.89 Tool Joint Size 4 1/2 x 4  
Length Weight Pipe — I.D. Weight Pipe — Tool Joint Size —  
Length Drill Collars — I.D. Drill Collars — Tool Joint Size —

Tool Open I.F.P. from 12:45 Am to 1:30 Am 45 min  
Tool Closed I.C.I.P. from 1:30 Am to 2:15 Am 45 min  
Tool Open F.F.P. from 2:15 Am to 3:00 Am 45 min  
Tool Closed F.C.I.P. from 3:00 Am to 3:45 Am 45 min

from [B]	<u>42</u>	P.S.I. to [C]	<u>42</u>	P.S.I.
[D]	<u>832</u>			P.S.I.
from [E]	<u>42</u>	P.S.I. to [F]	<u>42</u>	P.S.I.
[G]	<u>728</u>			P.S.I.

Initial Hydrostatic Pressure [A] 1918 P.S.I. Final Hydrostatic Pressure [H] 1875 P.S.I. Maximum Temp 101 °F  
Initial Blow Weak Blow - 1/2" into water  
Final Blow \_\_\_\_\_  
Gas to Surface None Min. Oil to Surface None Min. Mut Weight 9.8 Viscosity 44  
Gas Guaged None

Recovery 25' of Mud

Remarks Hit a bridge at 2730. It was tight all the way down from there to bottom

Extra Equipment-Jars None Safety Joint None Extra Packer None Straddle None Hook Wall None  
Top Recorder No. 3825 Clock no. 23915 Depth 3325' Clr. Sub \_\_\_\_\_ Sampler None  
Bottom Recorder No. 2186 Clock No. 2968 Depth 3328' Chlorides - pits \_\_\_\_\_ D.S.T. \_\_\_\_\_  
Price of Job \$600.00  
Tool Operator Juan Suppa  
Approved By \_\_\_\_\_

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Ticket No 9343

STATE OF KANSAS  
DEC 17 1985  
CONSERVATION DIVISION  
Wichita, Kansas

15-167-22644-00-00

EMPHASIS OIL OPERATIONS

P. O. Box 506  
Russell, KS 67665

COPY

DRILLERS LOG

OPERATOR: Col-Kan Development, Inc.  
Box 467  
Russell, KS 67665

CONTRACTOR: Emphasis Oil Operations  
Box 506  
Russell, KS 67665

WELL #1

LOCATION: SW SE NE  
Section 34-14S-15W  
Russell County, Kansas

BASE: Warren

True Total Depth: 3364'

Elevation: 1865' K.B.

Commenced: 9/06/85

Completed: 9/14/85

Casing: 8-5/8" @ 427' w/200 sks cement  
5-1/2" @ 3363' w/175 sks cement

Status: Oil Well

DEPTHS & FORMATIONS

(All measurements from K.B.)

Top soil & Sand	40'	Shale & Redbed	909'
Soft rock & Clay	375'	Anhydrite	946'
Redbed	430'	Shale	2593'
Wichita Sand	542'	Shale & Lime (R.T.D.)	3364'

STATE OF KANSAS )  
COUNTY OF RUSSELL) ss

Kyle B. Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.

*[Signature of Kyle B. Branum]*  
\_\_\_\_\_  
Kyle B. Branum

Subscribed and sworn to before me this 17th of September, 1985.

Commission Expires: July 29, 1989.

*[Signature of Patricia L. Schawo]*  
\_\_\_\_\_  
Patricia L. Schawo, Notary Public



STATE CONSERVATION COMMISSION

DEC 17 1985

CONSERVATION DIVISION  
Wichita, Kansas