

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 # 3007
Name Western Kansas Exploration, Inc.
Address 2700 Oak
P.O. Box 126
City/State/Zip Hays, Kansas 67601

Purchaser Koch Oil Co.

Operator Contact Person Stan Younger
Phone 913-628-2296

Contractor: License # 4083
Name Western Kansas Drilling, Inc.

Wellsite Geologist Randall Kilian
Phone 913-628-6061

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

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

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
10-31-87 11-7-87 11-29-87
Spud Date Date Reached TD Completion Date
3355 3295
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 232 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/ 250 SX cmt
Cement Company Name
Invoice # 04 per Bond log 4-22-88

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 Stan Younger
Title
Date 1-6-88

Subscribed and sworn to before me this 6th day of January, 1988.
Notary Public Karen Younger
Date Commission Expires 7-7-91

KAREN YOUNGER
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 7-7-91

API NO. 15-167-22,792-06-00
County Russell
60' NW of East
SW NW NE Sec. 30 Twp. 14S Rge. 15 West

4335 Ft North from Southeast Corner of Section
2355 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

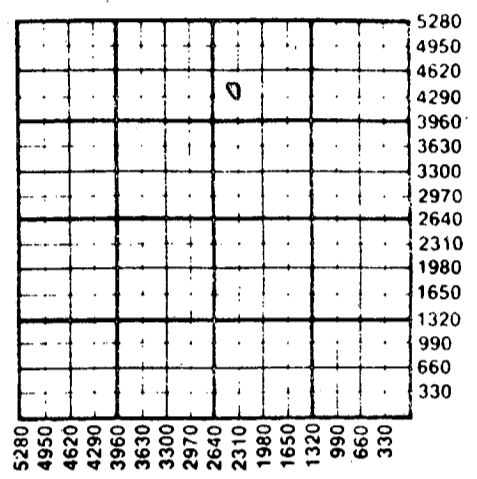
Lease Name Leiker-Schrant Well # 2

Field Name Alley West

Producing Formation Toronto, Pleasanton

Elevation: Ground 1822 1877 KB

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
Docket #

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. #)

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
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JAN 21 1988

01-21-88 Form ACO-1 (5-86)
CONSERVATION DIVISION
Wichita, Kansas

Sec. 30 Twp. 14 Rge. 15 W

SIDE TWO

Operator Name Western Kansas Exploration, Inc. Lease Name..... Leiker-Schrant Well #..... 2

Sec. 30 Twp. 14S 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 Lime	2768	2987
Heebner shale	2988	2993
Toronto Lime	3009	3030
Lansing KC Lime	3045	3259
Pleasanton Lime	3276	3283
Arbuckle Lolo	3309	TD

CASING RECORD New Used

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

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	28#			150	
Production	7 7/8	5 1/2	14#	3340		150	

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record

Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
3271-73, 77, 79	4 shots	500 g/a, 2000g/a	
3012-14.5	10 shots	500 g/a, 2000g/a, 750 g/a	

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2 7/8	3290			

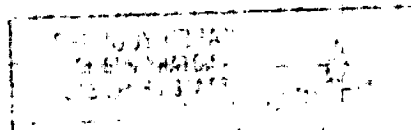
Date of First Production	Producing Method
11-28-87	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....

Estimated Production	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Per 24 Hours	25 Bbls	MCF	0 Bbls		CFPB

METHOD OF COMPLETION

Production Interval

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



STRUCTURAL COMPARISONS

	W.K.E.	W.K.E.	W.K.E.
	Leiker-Sch. #2	Jacobs-Sch. #1	Leiker-Sch. #1
	NW SW NW NE	E $\frac{1}{2}$ NE NW	NW NW NE
	30 T14S R15W	30 T14S R15W	30 T14S R15W
<u>FORMATION</u>			
Anhydrite	+945--+910	+944--+908	+945--+909
Topeka	-941	-940	-945
Heebner	-1161	-1162	-1166
Lansing	-1218	-1216	-1221
Base K.c.	-1432	-1434	-1438
Pleasanton	-1449 (7/4)	-1451 (9)	-1455 (8)
Arbuckle	-1482	-1485	-1499
R.T.D.	-1528	-1553	-1535

ZONES OF INTEREST

<u>FORMATION</u>	<u>DEPTH</u>	<u>DESCRIPTION</u>
Toronto	3009-14	Limestone; buff, fossiliferous, packstone, and fine crystalline with fair vuggy and interfossiliferous porosity, slight oil stain, slightly chalky. Calc. 11-13% ϕ , 35-38% S.W.S.
Lansing 'B'	3067-74	Limestone; buff, fine crystalline, fossiliferous, with fair inter-crystalline and interfossiliferous porosity, oil saturated, show of free oil, slight odor. Calc. 14% ϕ , 46% S.W.S.
<p>DST #1 Lansing A & B 3026-80 <u>TIMES</u> 15"30"45"60" <u>RECOVERY</u> 80' Muddy Water with oil specks. <u>PRESSURES</u> H.P. 1650-1601#, F.P. 78-78# S.I.P. 477-438#</p>		
Lansing 'J'	3226-31	Limestone; gray to buff, fine crystalline, fossiliferous with poor oomoldic porosity, slight oil stain. Calc. 8% ϕ , 35% S.W.S.
Pleasanton	3276-83	Limestone; buff, sand, fossiliferous, packstone to grainstone, with fair interpartical and vuggy porosity, oil saturated. Calc. 16-25% ϕ , 25-33% S.W.S.

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CONSERVATION DIVISION
Wichita, Kansas

15-167-22792-00-00

<u>FORMATION</u>	<u>DEPTH</u>	<u>DESCRIPTION</u>
Arbuckle	3309-21	Dolomite; tan fine to medium crystalline, with poor to fair intercrystalline porosity, slight odor slight show of free oil in porosity, with multicolored chert. Calc. 21% ϕ , 57% S.W.S.

DST #2 Pleasanton & Arbuckle 3258-3321

TIMES 15"30"45"60"

RECOVERY 200' Muddy Water with oil specks

PRESSURES H.P. 1874-1835#, F.P. 78-87, 107-165#, S.I.P. 1136-1116#

NOTE: Please refer to the Geologists Drilling Time and Sample Log for any additional information.

SUMMARY & RECOMMENDATIONS

The Leiker-Schrant #2 well ran three feet higher structurally on the top of the Lansing to the Leiker #1 and two feet low to the Jacobs-Schrant #2. The Lansing 'B' zone is well developed and is structurally high enough to be productive. The encouraging point is the development of the Toronto zone and the Pleasanton zone.

I recommend that the Pleasanton zone be perforated and treated. This zone should be a commercial producer. I would also recommend the Toronto zone be tested and then the Lansing 'B' zone.

Respectfully,

Randall Kilian

Randall Kilian

P.O. Box 26 -

Hays, Kansas 67601-0026

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CONSERVATION DIVISION
Wichita, Kansas

15-167-2292-00-00

ALLIED CEMENTING CO., INC.

No. 706

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	11-23-87	Sec.	30	Twp.	14S	Range	15W	Called Out		On Location	8:00AM	Job Start	10:00AM	Finish	11:40AM
Contractor	Leiter-Schrent		Well No.	2		Location		Gorham 4S 7W 4S		County	Russell		State	KS	
Contractor	Express Well Service							Owner							
Job	Backside Square							To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Well Size	5 1/2		T.D.		Depth		Charge To								
Well Size	2 1/2		Depth		Western Kansas Exploration, Inc.										
Drill Pipe	Brad Oil		Depth		Street										
Drill Pipe	1800		Shoe Joint		Box 1-26 2-700-04K										
Drill Pipe			Minimum		City										
Drill Pipe			Displace		Hays State Kan 67601										
Drill Pipe					The above was done to satisfaction and supervision of owner agent or contractor										
Drill Pipe					Purchase Order No.										
Drill Pipe					x in early form										
Drill Pipe					5 HULLS CEMENT										
Drill Pipe					Amount Ordered 250 ATL										
Drill Pipe					Consisting of										

EQUIPMENT

No.	Cementor	Dave
153	Helper	
No.	Cementor	Joel
	Helper	
	Driver	
	Driver	

Common	250 ATL	525	131250
Poz. Mix			
Gel.			
Chloride			
Quickset			
Hulls 5 sk		1400	70.00
Sales Tax			
Handling		75	187.50
Mileage		14	105.00
Sub Total			1675.00
Total			

DEPTH of Job		
Reference:	Pump truck chg	450.00
	100 per mile	14.00
Sub Total		464.00
Tax		
Total		

Remarks: mixed 5 HULLS + 250 ATL
 max pressure @ 450 PSI
 Shut in @ 100 PSI
 tested casing @ 750 PSI of held pressure

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11/18 - 3 1988

CONVEYANCE DIVISION
 Wichita, Kansas