

COPY

CONFIDENTIAL

32-16-19W
RELEASED
DEC 13 1996

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

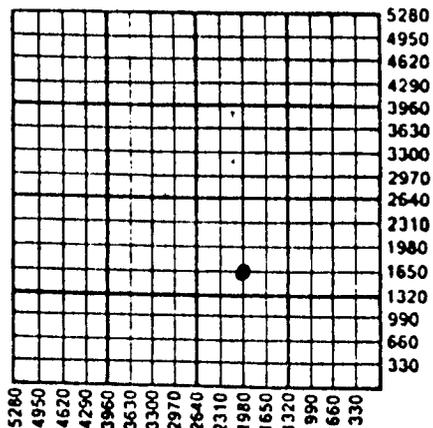
API NO. 15- 165-21,539 FROM CONFIDENTIAL

Operator: License # 5815
Name: C & R Drilling, Inc.
Address 410 17th St. Suite 1140
City/State/Zip Denver, Colorado 80202
Purchaser: Koch Oil Company
Operator Contact Person: Les Olson
Phone (303) 623-6144
Contractor: Name: Western Kansas Drilling, Inc.
License: 4083
Wellsite Geologist: Bill Robertson

County Rush
S/2 NW SE Sec. 32 Twp. 16 Rge. 19 X East West
1650' Ft. North from Southeast Corner of Section
1980' Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name Littler Well # 2
Field Name _____
Producing Formation Arbuckle
Elevation: Ground 2051' KB 2056'
Total Depth 3819' PBDT 3850'

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



If OWMO: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
Drilling Method:
 Mud Rotary Air Rotary Cable
10-29-90 11-4-90 11-5-90
Spud Date Date Reached TD Completion Date

Amount of Surface Pipe Set and Cemented at 371' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1295 Feet
If Alternate II completion, cement circulated from 1295
feet depth to surface w/ 250 sx cmt.

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. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 William Drilling
Title Vice President Date 11/26/90

Subscribed and sworn to before me this 26th day of November, 1990.

Notary Public Leslie Olson

My Commission Expires _____
Notary Public, State of Colorado
County of Arapahoe
My Commission Expires July 18, 1994

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 (Specify) J.S.

CONFIDENTIAL
SIDE TWO

Operator Name C & R Drilling, Inc. Lease Name Littler Well # 2
 Sec. 32 Twp. 16 Rge. 19 East West
 County Rush

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Submit Copy.) DST #1 3786' - 3807' 60-30-60-60 IFP - 32-40, FFP - 48-57 ISIP - 1111#, FSIP - 1119# Rec. 80' OCM, 100' Gas DST #2 3786' - 3819' 30-30-30-30 IFP - 97-138, FFP - 146-171 ISIP - 1094#, FSIP - 1070# Rec: 240' GFMC0 90' GEOCM, 60' Gas	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: center;">Formation Description</th> </tr> <tr> <td style="width: 60%;"></td> <td style="width: 20%; text-align: center;"><input type="checkbox"/> Log</td> <td style="width: 20%; text-align: center;"><input checked="" type="checkbox"/> Sample</td> </tr> <tr> <td style="text-align: center;">Name</td> <td style="text-align: center;">Top</td> <td style="text-align: center;">Bottom</td> </tr> <tr> <td>Anhydrite</td> <td style="text-align: center;">1288'</td> <td style="text-align: center;">1325'</td> </tr> <tr> <td>Heebner</td> <td style="text-align: center;">3391'</td> <td></td> </tr> <tr> <td>"B" zone</td> <td style="text-align: center;">3460'</td> <td></td> </tr> <tr> <td>"G" zone</td> <td style="text-align: center;">3532'</td> <td></td> </tr> <tr> <td>"J" zone</td> <td style="text-align: center;">3625'</td> <td></td> </tr> <tr> <td>Base of KC</td> <td></td> <td style="text-align: center;">3691'</td> </tr> <tr> <td>Arbuckle</td> <td style="text-align: center;">3793'</td> <td></td> </tr> </table>	Formation Description				<input type="checkbox"/> Log	<input checked="" type="checkbox"/> Sample	Name	Top	Bottom	Anhydrite	1288'	1325'	Heebner	3391'		"B" zone	3460'		"G" zone	3532'		"J" zone	3625'		Base of KC		3691'	Arbuckle	3793'	
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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	19#	371'	60/40 poz	165	2% gel 3% cc
Production	7 7/8	5 1/2	14#	3796'	60/40 poz HLC	125 250	2% gel 1 1/4# floccule

PERFORATION RECORD	Acid, Fracture, Shot, Cement Squeeze Record
Shots Per Foot Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth

TUBING RECORD	Liner Run
Size <u>2 3/8"</u> Set At <u>3809'</u> Packer At	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First Production <u>11/16/90</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 30	Bbls.	Gas no	Mcf	Water no	Bbls.	Gas-Oil Ratio	Gravity 41

Disposition of Gas: Vented Sold Used on Lease (if vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled

Other (Specify) _____

Production Interval _____