

COPY

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SIDE ONE

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

Operator: License # 5815

Name: C & R Drilling, Inc.

Address 410 17th St. #1140

City/State/Zip Denver, Colorado 80202

Purchaser: _____

Operator Contact Person: Les Olson

Phone (303) 623-6144

Operator Name: Western Kansas Drilling, Inc.

License: 4083

Wellsite Geologist: Bill Robertson

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

If OLD well info as follows:
Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable

8-12-91 8-20-91 9-14-91

Spud Date Date Reached TD Completion Date

API NO. 15- 165-21,572

County Rush

NE SE NW SE Sec. 32 Twp. 16 Rge. 19 East West

1920 Ft. North from Southeast Corner of Section

1450 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

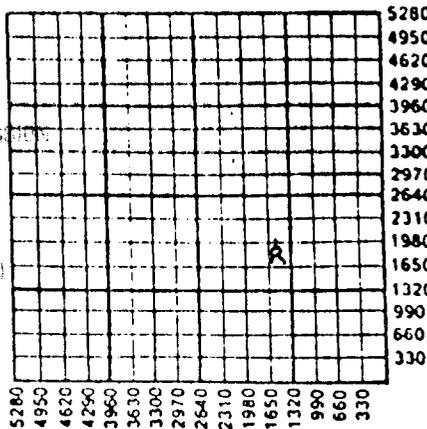
Lease Name Littler Well # 5

Field Name Hampton NE

Producing Formation _____

Elevation: Ground 2051' KB 2056

Total Depth 4009' PBDT _____



9-19-91

Amount of Surface Pipe Set and Cemented at 372' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1275' Feet

If Alternate II completion, cement circulated from 1275'

feet depth to surface w/ 325 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 Leslie Olson
Vice President Date 9-16-91

Subscribed and sworn to before me this 16th day of September, 19 91.

Notary Public Leslie Olson
LESLIE OLSON
Notary Public, State of Colorado
County of Arapahoe

My Commission Expires _____
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) TIS

SIDE TWO

Operator Name C & R Drilling, Inc. Lease Name Littler Well # 5
 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 Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)
 DST #1 3789'-3806', 30-45-30-45
 IFP 48-78#, FFP 89-105#
 ISIP 972# FSIP 835#
 Rec: 300' gas, 120' CGO, 18' SMGCO
 DST #2 3808'-3823', 45-45-45-45
 IFP- NA, FFP- NA, Plugging Rec: 50' GOCM
 ISIP 1078#, FSIP 1021#

Formation Description

Log Sample

Name	Top	Bottom
Anhydrite	1282'	
Heebner	3396'	
Lansing	3438'	
Base of KC		3695'
Arbuckle	3810'	
T.D.	3946'	

Deepened with tubing and power swivel to 4009' to make salt water disposal

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	20#	372'	60/40 poz	175sks	2%gel 3%cc
Production	7 7/8	4 1/2"	10.5 #	3920'	60/40 poz HLC	175sks 325sks	2%gel 10%salt 1/4# flocele

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4	3797 to 3803	250 gal. 15% MCA acid	3797-3803
4	3812 to 3822	400 gal. 15% MCA acid	3812-3822
		500 gal. MOD 202 acid	3812-3822
		Squeeze cement perfs at	3797-3822
		w/ 50 sks w/ 6% Halad	
		and 50 sks std. cement	

TUBING RECORD Size 2-3/8" Set At 3880' Packer At 3880' Liner Run Yes No

Date of First Production _____ Producing Method Flowing Pumping Gas Lift Other (Explain) _____
 Estimated Production Per 24 Hours Oil _____ Bbls. Gas _____ Mcf Water _____ Bbls. Gas-Oil Ratio _____ Gravity _____

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
 METHOD OF COMPLETION Open Hole Perforation Dually Completed Commingled
 Other (Specify) Salt Water Disposal Production Interval _____