

ORIGINAL

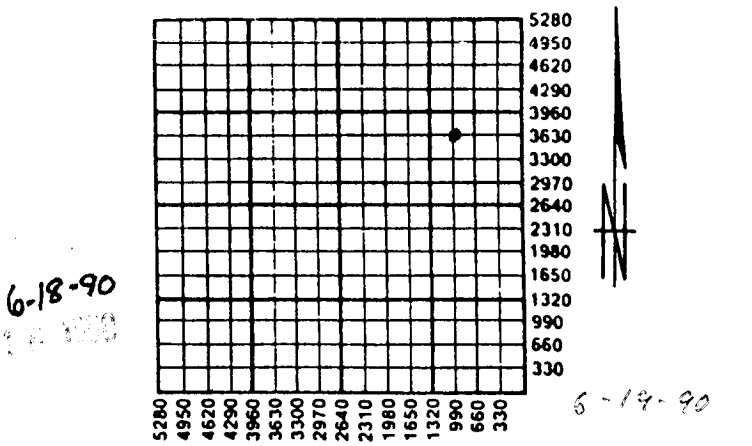
SIDE ONE

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

Operator: License # 7064
Name: Cattlemans Oil Operations
Address HC 39, Box 74

City/State/Zip Hays, Kansas 67601
Purchaser: _____
Operator Contact Person: Leo R. Dorzweiler
Phone (913) 625-5394
Contractor: Name: Vonfeldt Drilling Company
License: 9431
Wellsite Geologist: _____
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
11/13/89 11/18/89 11/18/89
Spud Date Date Reached TD Completion Date

API NO. 15- 051-21, 624-0000
County Ellis
NW SE NE Sec. 10 Twp. 13 Rge. 17 East West
3630 Ft. North from Southeast Corner of Section
990 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)
Lease Name Catherine Unit Well # 1-5
Field Name Catherine
Producing Formation Arbuckle
Elevation: Ground 2020 KB 2025
Total Depth 3545' PBTD _____

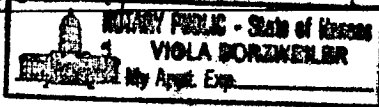


Amount of Surface Pipe Set and Cemented at 187 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 3525
feet depth to Surface w/ 500 sx cmt.

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 Leo R. Dorzweiler
Title OWNER Date 3-6-90
Subscribed and sworn to before me this 9 day of March, 19 90.
Notary Public Viola Dorzweiler
Date Commission Expires 4-20-91



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)

Operator Name Cattlemans Oil Operation Lease Name Catherine Unit Well # 1-5
 Sec. 10 Twp. 13 Rge. 17 East West County Ellis

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.)

Formation Description		
Name	Top	Bottom
Anhydrite	1189	
Heebner	3235	
LKC	3281	
Base KC	3520	
Arbuckle	3537	
RTD	3515	

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	10 1/2	8 5/8	24#	192	60-110P	135	2% cel 3%
Production	7 7/8	5 1/2	14	3515	1300om	130	10% 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
Open Hole	3515-3553	2500 15%	

TUBING RECORD			
Size	Set At	Packer At	Liner Run
2 3/8	3550		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First Production	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)						
unavailable	None						

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	5		85		27

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.) None

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval _____

MAR 13 1990

ORIGINAL

DRILLERS WELL LOG

DATE COMMENCED: November 13, 1989
 DATE COMPLETED: November 18, 1989

Cattlemans Oil Operations
 CATHERINE UNIT 1-5
 NW SE NE
 Sec. 10-13S-17W
 Ellis County, Kansas

ELEVATION: 2020' G.L.

0 - 191' Shale
 191 - 310' Shale
 310 - 975' Clay & Shale
 975 - 1189' Shale
 1189 - 1227' Anhydrite
 1227 - 1470' Shale
 1470 - 1980' Shale
 1980 - 2265' Lime & Shale
 2265 - 2545' Lime & Shale
 2545 - 2795' Lime & Shale
 2795 - 3000' Lime & Shale
 3000 - 3150' Shale & Lime
 3150 - 3300' Lime
 3300 - 3425' Lime & Shale
 3425 - 3545' Lime & Shale
 3545' R.T.D.

FORMATION DATA

Anhydrite	1189'
Topeka	2988'
Heebner	3235'
Oread	3161'
Toronto	3257'
L.K.C.	3281'
Base K.C.	3520'
Arbuckle	3537'
R.T.D.	3545'

Surface Pipe: Set Used 8 5/8"
 pipe at 187' with 135 sacks
 60/40 poznix, 2% gel, 3% cc.

Production Pipe: Set 14#
 5 1/2" casing at 3545' with
 130 sacks common, 10% salt &
 350 sacks 60/40 poznix, 10% gel
 1/4# floseal.

A F F I D A V I T

STATE OF KANSAS
 COUNTY OF RUSSELL ss

Roy Vonfeldt of lawful age, does swear and state that the facts and
 statements herein are true and correct to the best of his knowledge.

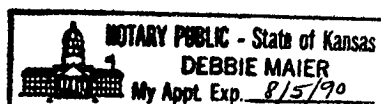
Roy Vonfeldt

Subscribed and sworn to before me this 22nd day of November, 1989.

My Comm. Expires:

August 5, 1990

Debbie Maier
 Notary Public



Phone 1-800-33-2627, Russell, Kansas

Phone Plainville 913-34-2812

Phone 313-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

15-051-24624-0000

ALLIED CEMENTING CO., INC. No. 9504

Home Office P. O. Box 31 Russell, Kansas 67665

New

Date	11-18-89	Sec.	10	Twp.	13	Range	17	Called Out		On Location		Job Start	5:00 AM
Lease	Catherine Unit	Well No.	1-5	Location	Catherine 2E 1/2 N 4W			County	Ellis	State	Ks		
Contractor	Vontfeldt Drlg.												
Type Job	Production String												
Hole Size	7 7/8		T.D.										3545
Csg.	5 1/2		Depth										
Tbg. Size	Depth												
Drill Pipe	Depth												
Tool	Depth												
Cement Left in Csg.	Shoe Joint												
Press Max.	Minimum												
Meas Line	Displace												
Perf.													

Owner
 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.

Charge To: Cattlemans Oil
 Street: Box 32, Catherine Rt.
 City: Hays State: Kan 67601

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. Lead Drilling

EQUIPMENT

Pumptrk	No. 153	Cementer	Dave Gersel
		Helper	Gersel
Pumptrk	No. 155	Cementer	Joel Mack
		Helper	Mack
Bulktrk	No. 156	Driver	
Bulktrk		Driver	

Amount Ordered 13000M 10% salt 350⁰⁰ 40/10% gel flow seal 11/16

Consisting of	Common	340	SKS @ 5.00	1,700 ⁰⁰
	Poz. Mix	140	SKS @ 2.25	315 ⁰⁰
	Gel.	30	SKS @ 6.75	202 ⁵⁰
	Salt	12	SKS @ 4.75	57 ⁰⁰
Quickset	88	135	Flo-Sol, @ 1.60	140 ⁸⁰

Sales Tax

Handling 90¢ 432⁰⁰

Mileage 3¢ 172⁸⁰

12 mil. Sub Total

Total 3,020¹⁰

Floating Equipment 5¢

1 Guide Shoe - 106.20

1 AFU Insert - 162.00

5 Centrilizers - 190.00

2 Baskets - 242.00

700.20

DEPTH of Job	Reference:		
		Pump tek chg	838 ⁰⁰
		100 per mile	12 ⁰⁰
		5 1/2 Rubber Plug	43 ⁰⁰
		Sub Total	
		Tax	
		Total	893 ⁰⁰

Remarks: plug rat hole w/ 15 sk
mouse hole w/ 10 sk

Cement Cir started @ 2800
Float Held

NOV 18 1989