

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 # 5447
Name Cities Service Oil & Gas Co.
Address 3545 N.W. 58th Street
City/State/Zip Oklahoma City, Okla. 73112

Purchaser.....

Operator Contact Person Raymond Hui
Phone (405) 949-4400

Contractor: License # 5662
Name Wakefield Oil Company, Inc.

Wellsite Geologist Harvey Vick
Phone (405) 949-4400

Designate Type of Completion

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

If OHHO: old well info as follows:

Operator
Well Name
Comp. Date Old Total Depth.....

WELL HISTORY

Drilling Method:

- Mud Rotary Air Rotary Cable

9-17-84 9-29-84 1-23-85
Spud Date Date Reached TD Completion Date
3064
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at.....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. 15-15-129-20,722

County Morton

SW NE NE Sec. 9 Twp. 34 Rge. 40 West
(1250' FNL, 1250' FEL)

4030 Ft North from Southeast Corner of Section
1250' Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

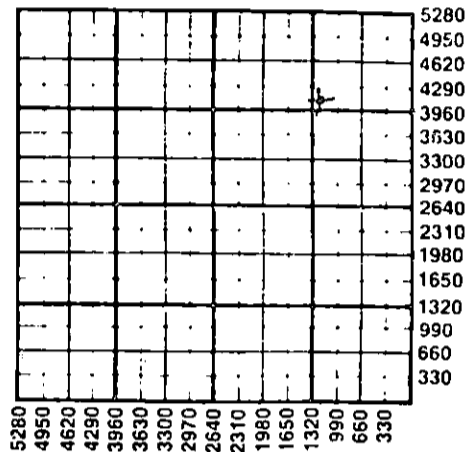
Lease Name Crandell "B" Well # 4

Field Name Panama

Producing Formation.....

Elevation: Ground 3348' 3353'

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 # T84-640

Groundwater 4055 Ft North from Southeast Corner
(Well) 1325 Ft West from Southeast Corner of
Sec 9 Twp 34 Rge 40 East West

Surface Water.....Ft North from Southeast Corner
(Stream, pond etc).....Ft West from Southeast Corner
Sec Twp Rge East West

Other (explain).....
BEL (purchased from city, R.W.D. #)
STATE CORPORATION COMMISSION

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 J.G. Gonders
Title Manager of Production Date 3-26-85
Mid-Continent Region

Subscribed and sworn to before me this 26th day of March 1985.
Notary Public Joya S. Hartner

Date Commission Expires June 12, 1988

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Time Log Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

Sec. 9, Twp. 34, Rge. 40W

Operator Name ...Cities Service Oil & Gas Co..... Lease Name...Crandall "B"..... Well #4.....

Sec. 9 Twp. 34S Rge. 40W East West County...Morton.....

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

Electric Logs:
 DIL-SFL w/GR, CNL-FDC w/GR & Caliper.

Name	Top	Bottom
Cement & Sand		100
Sand & Clay		465
Red Bed		630
Red Bed & Gyp		1210
Gloretta Sand		1410
Gyp & Red Bed		1565
Red Bed & Gyp		1674
Anhydrite		1696
Shale & Red Bed		1835
Red Bed & Shale		2000
Shale & Lime		2265
Lime & Shale		2400
Anhydrite		2404
Core #1		2464
Core #2		2524
Core #3		2584
Core #4		2644
Core #5		2704
Core #6		2764
Lime & Shale		3064

RELEASED
 JUN 05 1986
 FROM CONFIDENTIAL
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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.....	17-1/2"	13-3/8"	48	720' KB	Class H	800	3% CaCl, 1/4# floc.
Intermediate.....	12-1/4"	8-5/8"	24	2399'	65/35 Poz	300	2% CaCl, 1/4# floc
					Class H	150	3% CaCl, 1/4# floc.
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
	None.....						
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Size Set At		Packer at					
2-1/16"		2516'					
Date of First Production		Producing Method					
		<input type="checkbox"/> Flowing <input 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		
	Open Hole. Temporarily Abandoned in another zone.	Gas vol. tested 61 MCFGD.					
	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