

SIDE ONE

Corrected Copy
20433-00-01
KCC 2nd

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 Corporation
address 800 Sutton Place Building
209 E. William
City/State/Zip Wichita, Kansas 67202

Operator Contact Person Don E. Hewitt
Phone 316 265-5624

Contractor: license # 5671
name Revlin Drilling, Inc.

Wellsite Geologist None

Phone
PURCHASER

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If OWWO: old well info as follows:
Operator Cities Service Oil & Gas Corp.
Well Name Harmony Hill Unit #303
Comp. Date July 31, 1984 Old Total Depth 3450'

WELL HISTORY

Drilling Method: Mud Rotary Air Rotary Cable
4-19-84 4-20-84 7-31-84
Spud Date Date Reached TD Completion Date
3450' 3435'
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 8-5/8" @ 195 feet

Multiple Stage Cementing Collar Used? Yes No
If Yes, Show Depth Set 1296' feet

If alternate 2 completion, cement circulated from 1296 feet depth to surface w/ .250 SX cmt

API NO. 15 - 163-22-352

County Rooks

NE SW SE Sec 21 Twp 8S Rge 18 West

990 Ft North from Southeast Corner of Section
1650 Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

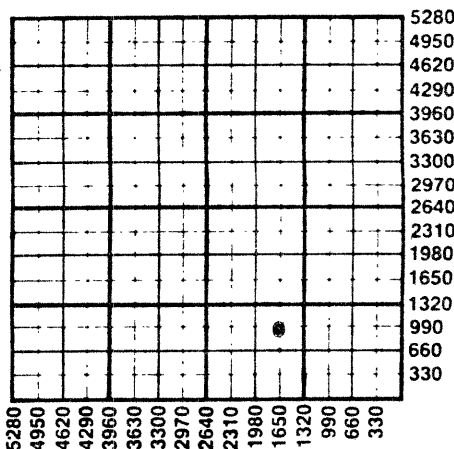
Lease Name Harmony Hill Unit Well# 303W

Field Name Harmony Hill

Producing Formation Toronto-LKC-Arbuckle

Elevation: Ground 1971 KB 1976

Section Plat



WATER SUPPLY INFORMATION

Source of Water:
Division of Water Resources Permit #

Groundwater Ft North From Southeast Corner and
(Well) Ft West From Southeast Corner of Section
Sec Twp Rge East West

Surface Water Ft North From Southeast Corner and
(Stream, Pond etc.) Ft West From Southeast Corner of Section
Sec Twp Rge East West

Other (explain) (purchased from city, R.W.D.#)

Disposition of Produced Water: Disposal Repressuring

Docket # NA - Have applied for Enhanced Recovery Project
Docket No.

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. Rules 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. Drillers Log - NA Radiation-Guard Log Attached

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 Don E. Hewitt
Title Operation Manager Date 9-11-84
Subscribed and sworn to before me this 11th day of September 19 84
Notary Public J. J. O'Connell
Date Commission Expires 2-10-85

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

Sec 21 Twp 8S Rge 18W

Operator Name Cities Service Oil & Gas Corp. Lease Name Harmony Hill Unit Well# 303 SEC. 21 TWP. 8S RGE. 18 East West

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
Anhydrite	1355'	+ 621
Heebner	3104'	-1128
Lansing	3148'	-1172
Base Kansas City	3371'	-1395
Arbuckle	3401'	-1425
Total Depth	3450'	-1474

This P&A well was originally completed April 29, 1972 by National Oil Company at a total depth of 3450'.

Perforations:
 Toronto..... 3127-30'
 Lansing-Kansas City.... 3148-52'
 3220-30'
 3229-35'
 3241-48'
 3316-26'
 3341-45'
 3362-68'
 Arbuckle..... 3406-16'

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"	24#	204' ¹⁰⁰⁰	Class "A"	140	3% CaCl ₂
Production	7-5/8"	4-1/2"	9.5#	195' ²⁰⁰ 344.9'	50/50 Pozmix	115	75% CFR-2, 2% gel, 10% salt
D.V. Tool	(Cement circulated through D.V. Tool)			1296'	Class A Lite	250	10% salt, 2% gel

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record

hots per foot	specify footage of each interval perforated	(amount and kind of material used)	Depth
4	See Above	Acidized w/3000 gals... 15% HCL	

TUBING RECORD

size 2" EUE set at 3092' packer at 3092' Liner Run Yes No

Date of First Production	Producing method <input type="checkbox"/> flowing <input type="checkbox"/> pumping <input type="checkbox"/> gas lift <input checked="" type="checkbox"/> Other (explain) <u>Water Injection</u>				
stimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	Bbls	MCF	Bbls	CFPB	

Disposition of gas: vented sold used on lease

METHOD OF COMPLETION

open hole perforation
 Other (specify) Water Injection
 Dually Completed. Commingled

PRODUCTION INTERVAL

3127-30'
3148-52'
3406-16'



CITIES SERVICE OIL AND GAS CORPORATION
800 SUTTON PLACE BUILDING
209 EAST WILLIAM WICHITA, KANSAS 67202

September 11, 1984

(316) 265-5624

State Corporation Commission of Kansas
200 Colorado Derby Building
202 West First Street
Wichita, Kansas 67202

Attention: Mr. Tom Leiker

Re: Cities Service Oil & Gas Corporation
Harmony Hill Well #303W
Section 21-T8S-R18W
Rooks County, Kansas

Dear Tom:

On May 10, 1984 we mailed you ACO-1 form and a letter concerning completion of this well. We have found that the letter and ACO-1 form was not complete and had erroneous information. Would you please destroy the letter and ACO-1 form and replace with the corrected form dated September 11, 1984.

This well was drilled in 1972 by National Oil Company at a total depth of 3450'. It was P&A without setting casing. We washed the hole down to 3450' and ran casing to make it a water injection well for the Harmony Hill Unit Waterflood. We have applied for Enhanced Recovery Project Docket Number and will notify the Commission when injection is initiated.

Sorry to have caused this inconvenience.

Yours truly,

D. E. Hewitt
Operation Manager
Wichita Operating Area

DEH/cht

Attachments

RECEIVED
STATE CORPORATION COMMISSION

SFP 12 1984

CONSERVATION DIVISION
Wichita, Kansas



CITIES SERVICE OIL AND GAS CORPORATION
800 SUTTON PLACE BUILDING
209 EAST WILLIAM
WICHITA, KANSAS 67202

(316) 265-5624

May 10, 1984

State Corporation Commission of Kansas
200 Colorado Derby Building
202 West First Street
Wichita, Kansas 67202

Atten: Mr. Tom Leiker

Dear Mr. Leiker:

Please find enclosed the Affidavit of Completion Form (ACO-1)
for the Harmony Hill #303W, Rooks County, Kansas.

This well was originally drilled April 29, 1972, by the Imperial
Oil Company. Upon completion of drilling, the well was proved dry; and,
consequently, plugged and abandoned.

Cities Service re-entered the well April 19, 1984 and opened
the well to the Arbuckle formation. It is now temporarily abandoned,
and will be held that way until completion of the waterflood plant for
the newly formed Harmony Hill Unit.

There were no logs run on this well. Since records from Imperial
are sketchy, there are no records as to perforations, etc.

If additional information is needed regarding this well, please
feel free to contact me.

Very truly yours,

Richard E. Adams

Richard E. Adams
Supervisor Oil and Gas Systems
Mid-Continent North Region

REA/sjw

Enclosures (2)

RECEIVED
STATE CORPORATION COMMISSION

MAY 10 1984

CONSERVATION DIVISION
Wichita, Kansas

SIDE ONE

(Rules 82-3-130 and 82-3-107)

This form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within ninety (90) days after the completion of a well, regardless of how the well was completed.

FOR INFORMATION REGARDING THE NUMBER OF COPIES TO BE FILED AND APPLICATIONS REQUIRING COPIES OF ACO-1 FORMS SEE PAGE TWO (2), SIDE TWO (2) OF THIS FORM.

F _____ Letter requesting confidentiality attached.

C _____ Attach ONE COPY of EACH wireline log run (i.e. electrical log, sonic log, gamma ray neutron log etc.)***Check here if NO logs were run .

PLEASE FILL IN ALL INFORMATION. IF NOT AVAILABLE, INDICATE. IF INFORMATION LATER BECOMES AVAILABLE, SUBMIT BY LETTER.

LICENSE # 5447 EXPIRATION DATE 6-30-85
OPERATOR Cities Service Oil & Gas Corporation API NO. 15 - 163 - 22,352 - 00-01
ADDRESS 800 Sutton Place, 209 E. William COUNTY Rooks
Wichita, Kansas 67202 FIELD Harmony Hill

** CONTACT PERSON Richard E. Adams PROD. FORMATION Arbuckle
PHONE (316) 265-5624

PURCHASER CITGO Petroleum Corporation LEASE Harmony Hill (Mosher #3)
ADDRESS P. O. Box 3758 WELL NO. 303W
Tulsa, Ok. 74102 WELL LOCATION SE/4

DRILLING Revlin Drilling, Inc. 990 Ft. from South Line and
CONTRACTOR Box 293 1650 Ft. from East Line of
ADDRESS Russell, Kansas 67665 the SE (Qtr.) SEC 2 TWP 8 RGE 18 (W).

PLUGGING None
CONTRACTOR _____
ADDRESS _____

WELL PLAT			
		21	

(Office Use Only)
KCC
KGS
SWD/REP
PLG.
NGPA _____

TOTAL DEPTH 3450 ft. PBDT _____
SPUD DATE 4-19-84 DATE COMPLETED 4/23/84
ELEV: GR 1971' DF 1974' KB 1976' KC-KCL

DRILLED WITH (CABLE) (ROTARY) TOOLS.
DOCKET NO. OF DISPOSAL OR REPRESSURING WELL BEING USED TO DISPOSE OF WATER FROM THIS LEASE _____

Amount of surface pipe set and cemented 8.5/8"-204' DV Tool Used? Yes

TYPE OF COMPLETION THIS AFFIDAVIT APPLIES TO: (Circle ONE) - Oil, Shut-in Gas, Gas, Dry, Disposal, Injection, Temporarily Abandoned. If OWWO, indicate type of re-completion Water Injection. Other completion _____. NGPA filing _____.

ALL REQUIREMENTS OF THE STATUTES, RULES AND REGULATIONS PROMULGATED TO REGULATE THE OIL AND GAS INDUSTRY HAVE BEEN FULLY COMPLIED WITH.

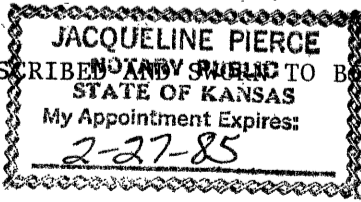
A F F I D A V I T

Charles N. Richmond, being of lawful age, hereby certifies that:

I am the Affiant, and I am familiar with the contents of the foregoing Affidavit. The statements and allegations contained therein are true and correct.

Charles N. Richmond
(Name) Charles N. Richmond

SUBSCRIBED AND SWORN TO BEFORE ME this 3 day of May, 1984.
My Appointment Expires: 2-27-85



Jacqueline Pierce
(NOTARY PUBLIC)
Jacqueline Pierce

MY COMMISSION EXPIRES: 2-27-85

RECEIVED
STATE CORPORATION COMMISSION
MAY 10 1984
5-10-84
CONSERVATION DIVISION
Wichita, Kansas

** The person who can be reached by phone regarding any questions concerning this information.

FILL IN WELL INFORMATION AS REQUIRED:

WELL NO. 303E

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
<p>Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.</p> <p><input checked="" type="checkbox"/> Check if no Drill Stem Tests Run. <input type="checkbox"/> Check if samples sent to Geological Survey</p> <p>This is an OWWO. The well was originally drilled by the Imperial Oil Co., April 29, 1972. Was proved dry and abandoned after drilling and, subsequently, plugged and abandoned. Cities Service received no records from Imperial concerning this well when the property was purchased from Imperial.</p>	Survey			
If additional space is needed use Page 2,				

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

Report of all strings set — surface, intermediate, production, etc. CASING RECORD (New) ~~XXXXXXXXXX~~

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Socks	Type and percent additives
Surface	12 1/4"	8 5/8"	24#	204'	Class "A"	140	3% CaCl-2
Production	7 5/8"	4 1/2"	9.5#	3449'	50/50 Pozmix	115	.75% CFR-2 2% gel, 10% NaCl

LINER RECORD			PERFORATION RECORD		
Top, ft.	Bottom, ft.	Socks cement	Shots per ft.	Size & type	Depth interval
TUBING RECORD					
Size	Setting depth	Packer set at			

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated

Date of first production	Producing method (flowing, pumping, gas lift, etc.) Water Injection	Gravity
Estimated Production -I.P.	Oil bbls. Gas MCF Water % Gas-oil ratio bbls. CFPB	
Disposition of gas (vented, used on lease or sold)		Perforations