

TYPE

AFFIDAVIT OF COMPLETION FORM

ACO-1 WELL HISTORY

Compt. 21-8-18W

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 6-30-85OPERATOR Cities Service Oil & Gas Corporation API NO. 15 - 163 - 22,352ADDRESS 800 Sutton Place, 209 E. William COUNTY RooksWichita, Kansas 67202 FIELD Harmony HillCONTACT PERSON Richard E. Adams PROD. FORMATION Arbuckle
PHONE (316) 265-5624PURCHASER CITGO Petroleum Corporation LEASE Harmony Hill (Mosher #3)ADDRESS P. O. Box 3758 WELL NO. 303WTulsa, Ok. 74102 WELL LOCATION SE/4DRILLING Revlin Drilling, Inc. 990 Ft. from South Line andCONTRACTOR Box 293 1650 Ft. from East Line ofADDRESS Russell, Kansas 67665 the SE (Qtr.) SEC 21 TWP 8 RGE 18 (W).PLUGGING None

CONTRACTOR

ADDRESS

TOTAL DEPTH 3450 ft. PBTDSPUD DATE 4-19-84 DATE COMPLETED 4/23/84ELEV: GR 1971' DF 1974' KB 1976'FILLED WITH (CABLE) (ROTARY) (CABLE) 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.

WELL PLAT

(Office Use Only)

KCC ☒KGS ☒SWD/REP ☐PLG. ☐NGPA ☒T ☒

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SIDE TWO

ACO-1 WELL HISTORY

XXX

OPERATOR Cities Service Oil & Gas Corp. LEASE Harmony Hills

SEC. 22 TWP. 8S RGE. 17 (W)

(Mosler #3)

FILL IN WELL INFORMATION AS REQUIRED:

WELL NO. 303E

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.

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

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
☒ Check if no Drill Stem Tests Run. ☐ Check if samples sent to Geological Survey 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.				

If additional space is needed use Page 2,

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

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	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.	Sacks cement	Shots per ft.	Size & type	Depth interval

TUBING RECORD

Size	Setting depth	Packer set at			

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

21-8-18W

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

4-84.. 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 x We
(Location)

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

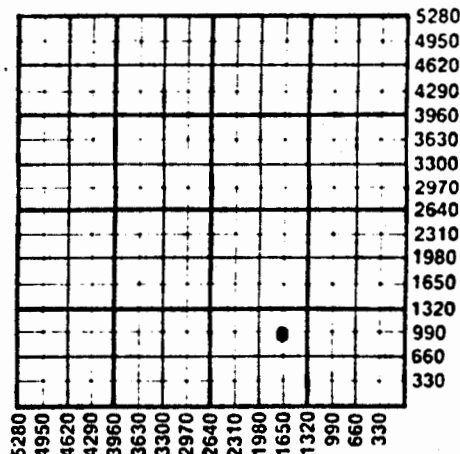
Lease Name Harmony Hill Unit Well# 303W

Field Name Harmony Hill

Producing Formation Toronto-LKC-Arbuckle

Elevation: Ground 1971 1976 KB

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

Sec Twp Rge ☐ East ☐ West

☐ Surface Water..... Ft North From Southeast Corner and
(Stream, Pond etc.)..... Ft West From Southeast Corner

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.

RECEIVED

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 confidentiality in excess of 12 months.

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 abandoned wells. Drillers log N/A

Operator Name Cities Service Oil & Gas Corp. Lease Name Harmony Hill 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 test 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'

TUBING RECORD size 2" EUE set at 3092' packer at 3092' Liner Run ☐ Yes ☒ No

Date of First Production _____ Producing method ☐ flowing ☐ pumping ☐ gas lift ☒ Other (explain) Water Injection

Estimated Production 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	Bbls	MCF	Bbls	CFPB	

Disposition of gas: ☐ vented ☐ sold ☒ open hole ☐ perforation ☒ other (specify) Water Injection... **SEP 14 1984** **METHOD OF COMPLETION** **PRODUCTION INTERVAL**

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#	195'	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% 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**
 shots per foot specify footage of each interval perforated (amount and kind of material used) Depth

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