SIDE ONE

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 Corp.
address 3545 NW 58th Street
City/State/Zip Oklahoma City, OK 73112

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

Contractor: license # 677
name Wakefield Oil Co., Inc.

Wellsite Geologist David Smith
Phone (405) 949-4400

Designate **Type of Completion**
XX New Well ☐ Re-Entry ☐ Workover

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

If OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

API NO. 15 - 129-20,705-00-00
County Morton

N/2 SW Sec 2 Twp 33 Rge 43 ☐ East ☒ West
(location) 1320' FWL, 1830' FSL
1830 Ft North from Southeast Corner of Section
3960 Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

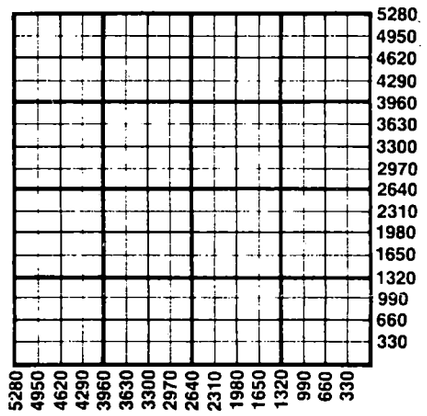
Lease Name Worthington A Well# 4

Field Name N Winter

Producing Formation ------

Elevation: Ground 3586 KB DF 3591

Section Plat



WELL HISTORY

Drilling Method: ☒ Mud Rotary ☐ Air Rotary ☐ Cable

5-31-84	6-10-84	8-18-84
Spud Date	Date Reached TD	Completion Date

5050	4993
Total Depth	PBTD

Amount of Surface Pipe Set and Cemented at 1360 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

WATER SUPPLY INFORMATION

Source of Water: Bought from Surface Owner from water well
Division of Water Resources Permit # T82-555 (before expiration & assignment to surf. owner)

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

☐ Surface Water Ft North From Sourtheast 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 #

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.

RECEIVED
STATE CORPORATION COMMISSION
SEP 26 1984
CONSERVATION DIVISION
Wichita, Kansas

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 Delbert G. Oliver
D. G. Oliver
Title Engineering Manager Date 9-21-84

Subscribed and sworn to before me this 24th day of Sept. 19 84

Notary Public Joyce L. Porter
Date Commission Expires 6-12-88

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)

Sec. 2 Twp. 33 Rge. 43W

Form ACO-1
(This form supercedes previous forms ACO-1 & C-10)

SIDE TWO

Operator Name Cities Service Oil & Gas Corp. Lease Name Worthington A Well# 4 SEC 2 TWP 33 RGE 43 ☐ 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

Logging:

Gearhart ran Comp. Density,
Comp. Neutron w/GR,
Dual Ind. Laterolog w/Gr,
Micro Elect., GR w/Caliper
CC, CBL.

Formation Description
☐ Log ☐ Sample

Name	Top	Bottom
Conductor	0	20
Soils & Sands & Red Bed	20	500
Soils & Shells & Sands	500	920
Shells & Sands	920	950
Glorietta Sand, Sand & Red Bed	950	1144
Sand, Red Bed	1144	1354
Anhydrite	1354	1361
Red Bed & Shale	1361	2620
Lime & Shale	2620	5050
R.T.D.	5050	

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 #	1360	Ltwt. III	625	2% Ca. Cl. ¼#. D-29
					Class H	125	3% Ca. Cl. ¼#. D-29
Production	7 7/8"	5 1/2"	14#	5044	50/50 Poz.	200	2% total gel...
				18% salt	.8% D-65, .2% D-46,	¼#. D-29	

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	4604-4606' Morrow		

TUBING RECORD size set at packer at | Liner Run ☐ Yes ☐ No

Date of First Production	Producing method ☐ flowing ☐ pumping ☐ gas lift ☐ Other (explain)				
	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	Dry Hole -	Plugged & Abandoned			
	Bbls	MCF	Bbls	CFPB	

Disposition of gas: ☐ vented ☐ sold ☐ used on lease

METHOD OF COMPLETION
☐ open hole ☐ perforation
☐ other (specify)
☐ Dually Completed.
☐ Commingled

PRODUCTION INTERVAL