AFFIDAVIT

State of Texas

County of Midland

Cities Service Company

Lease Name Federal R Well # 1

In Sec. 3 Twp. 19S Rge. 31E

County of Eddy

State New Mexico

Elmer Startz of lawful age being first duly sworn deposes and says:

That he supervises development and operation of the captioned lease and is duly qualified and authorized to make this affidavit and is fully acquainted with all facts herein set out concerning Deviation and Directional drilling.

Degrees	Depth	Degrees	Depth	Degrees	Depth
.25	484				
.50	850				
1.00	1348				
1.00	1845				
1.00	2335				
1.00	2828				
.75	3307				
1.00	3530				
.50	3748				
.50	4240				
	T.D. 4259'				

Further affiant saith not.

Elmer Startz

Subscribed and sworn to before me this 9th day of March, 1982

My Commission Expires 10/31/84

Notary Public
Midland County, Texas

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

NM OIL CONS. COMMISSION
Drawer DD
Artesia, NM 88210

Form approved.
Budget Bureau No. 42-R355.5.

RECEIVED
APR 8 1982
O. C. D.
ARTESIA, OFFICE

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Cities Service Company

3. ADDRESS OF OPERATOR: P.O. Box 1919 - Midland, Texas 79702

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 2080'FSL & 660'FEL
At top prod. interval reported below: Same as above
At total depth: Same as above

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MAR 11 1982
OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

5. LEASE DESIGNATION AND SERIAL NO.: LC 064833
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Federal R
9. WELL NO.: 1
10. FIELD AND POOL, OR WILDCAT: Shugart (Y-SR-Q-G)
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 3-T19S-R31E
12. COUNTY OR PARISH: Eddy
13. STATE: New Mexico
14. PERMIT NO.:
DATE ISSUED:

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10-19-81	11-1-81	3-4-82	3599' GR	3599'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
4259'	4211'		→	0-T.D. 4259'	---

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 3362 - 3405' Queen, 3819-3926' Grayburg

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: CNL-FDL, Cal-GR, DLL-MSFL, Deviation Survey

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	850'	12-1/4"	550 sacks	Circulated
5-1/2"	14#	4259'	7-7/8"	1225 sacks	Circulated

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	4180'	----

31. PERFORATION RECORD (*Interval, size and number*)
2 SPF @ 3819-20-21-24-76-77-78' & 3924-25-26', 3362-63-70-71-73-75-76-80-81-82-84-86-87-88-92-93-96-97-98'& 3404-05'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3819 - 3926'	3000 gals 15% HCl acid, 35,000 gals gelled KCl wtr. + 47,500# Sd. + 750# rock salt
3362 - 3405'	2500 gals 15% KCl acid, 35,000 gals KCl gelled wtr. + 47,500# Sd. + 750# rock salt

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
11-18-81	Pumping - 2-1/2" X 1-1/4" X 16' - Insert	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3-4-82	24 hrs.			84	TSTM	36	TSTM

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
						27.8

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Gas TSTM

TEST WITNESSED BY: J. L. Bussell

35. LIST OF ATTACHMENTS: Deviation Survey

ACCEPTED FOR RECORD
ROBERT A. CHAPMAN
MAR 19 1982
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Elmer Stantz TITLE Region Opr. Mgr. - Prod. DATE 3-9-82

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
NO CORES OR DST'S WERE TAKEN.....			

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Queen	3362	
Grayburg	3819	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636