

N. M. O. C. C. COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)Copy to SF
Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

RECEIVED

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESRV. ☐ Other ☐

2. NAME OF OPERATOR

George A. Chase

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

3. ADDRESS OF OPERATOR

P.O. Box 637, Artesia, New Mexico 88210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 990' FSL, 1650' FWL, Sec. 27, T16S, R31E

At top prod. interval reported below

At total depth

14. PERMIT NO. MAR 2 1977 DATE ISSUED

5. LEASE DESIGNATION AND SERIAL NO.

NM 0149953

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jeffers Federal

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Square Lake GIB-SF

11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA

Section 27

T16S, R31E

12. COUNTY OR PARISH
Eddy13. STATE
N. Mex.

15. DATE SPUNDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. PERFORATIONS (DF, RKB, RT, GR, ETC.)*

1-4-77

1-20-77

2-6-77

ARTESIA-4045 GR

19. ELEV. CASINGHEAD

4046'

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 24. ROTARY TOOLS 25. CABLE TOOLS

3780'

3754'

3780'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

3560' to 3602' Premier Section - Grayburg
3702' to 3732' Lovington Section - San Andres

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Gamma Ray Neutron - Vann Tool Company

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
13 3/8"	48#	40'	17"	2 yds concrete	
8 5/8"	24 & 28#	400'	11"	150 sacks circulated	
5 1/2"	15.5#	3774'	7 7/8"	125 sacks	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	3550'	3518'

31. PERFORATION RECORD (Interval, size and number)

2 shots 3532'-34' 2 shots 3702'-04'
3 shots 3560'-70' 3 shots 3712'-16'
1 shot 3579' 5 shots 3720'-27'
3 shots 3582'-86' 2 shots 3730'-32'
3 shots 3592'-96'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3691'-3754'	40,000 gallons gelled water frac. +30,000# 20-40 sand & 7500#
3580'-3602'	10-20 sand in each interval

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
2-9-77		Pumping				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2-11-77	24		→	36	28	10	770/1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→				200	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold

TEST WITNESSED BY

George A. Chase

35. LIST OF ATTACHMENTS

2 copies Gamma Ray - Neutron Vann Tools

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

SIGNED

Charles W. Hicks

TITLE

Agent

DATE 2-18-77

*(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.
Dewey Lake	Surface	675'	Surface sand, shales and thin sands.
Salada	675'	1860'	Salt and anhydrite beds.
Tansil	1860'	1960'	Dolomite at top - mostly salt.
Yates	1960'	2270'	Sand, anhydrite, shale, dolomite.
Seven Rivers	2270'	2876'	Anhydrite, dolomite, sand and shale.
Queen	2876'	3180'	Sand, snhydrite, dolomite.
Grayburg	3180'	3602'	Sand, dolomite, shales.
San Andres	3602'	3800'	Dolomite, shale - Lovington sand.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Rustler Anhy.	675'	
Salt	810'	
Base salt	1860'	
Tansil	1860'	
Yates	1960'	
Seven Rivers	2270'	
Queen	2876'	
Grayburg	3180'	
Premier	3560'	
San Andres	3602'	
Lovington	3702'	