

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

New Mexico 052

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Mescalero Ridge

8. FARM OR LEASE NAME
Mescalero Ridge Unit

9. WELL NO.
2-35

10. FIELD AND POOL, OR WILDCAT
Pearl Queen

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 35-19S-34E

12. COUNTY OR PARISH
Lea

13. STATE
New Mexico

19. ELEV. CASINGHEAD
3705'

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

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

2. NAME OF OPERATOR
Ernest A. Hanson

3. ADDRESS OF OPERATOR
P. O. Box 1515, Roswell, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **1930' FSL & FEL**

At top prod. interval reported below **Sec. 35, T. 19 S., R. 34 E.**

At total depth

14. PERMIT NO. _____ DATE ISSUED _____

15. DATE SPUNDED **1-11-64** 16. DATE T.D. REACHED **1-29-64** 17. DATE COMPL. (Ready to prod.) **2-12-64** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **3714' RB**

20. TOTAL DEPTH, MD & TVD **5268'** 21. PLUG, BACK T.D., MD & TVD **5150'** 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY **0 - 5268'** ROTARY TOOLS _____ CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
4585-4997' Queen Formation 25. WAS DIRECTIONAL SURVEY MADE **No**

26. TYPE ELECTRIC AND OTHER LOGS RUN
S/GR, LL, MLL, MOP & Cement Top 27. WAS WELL CORED **Yes**

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"	23'	214'	10-3/4"	125 sx.	Circulated
5-1/2"	15 1/2'	5268'	7-7/8"	350 sx.	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	4585'	4025'

31. PERFORATION RECORD (Interval, size and number)
**All perms. are 0.41" & one per ft.
3986-92, 4585-90, 4722-24, 4859-60, 4862,
4865, 4984-87, 4995-97, 5206, 5208, 5213-14,
5216, 5218-19.**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	*See Accompanying page.

33.* PRODUCTION
DATE FIRST PRODUCTION **Feb. 12, 1964** PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) **Swabbing for test - now pumping** WELL STATUS (Producing or shut-in) **Producing**

DATE OF TEST 2-12-64	HOURS TESTED 8	CHOKE SIZE 2	PROD'N. FOR TEST PERIOD 77	OIL—BBL. 77	GAS—MCF. 63	WATER—BBL. 63	GAS-OIL RATIO 63
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE 231	OIL—BBL. 231	GAS—MCF. 189	WATER—BBL. 189	OIL GRAVITY-API (CORR.) 38	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **Vented** TEST WITNESSED BY **Schram**

35. LIST OF ATTACHMENTS
2-Gamma Ray/Sonic, 2-Temperature Surveys & *No. 32 above.

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

SIGNED *Harry F. Schram* TITLE **Geologist** DATE **2-22-64**

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

ml

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 88, 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) and bottom(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.)

FORMATION	TOP		BOTTOM	DESCRIPTION, CONTENTS, ETC.	SS.	GEOLOGIC MARKERS	
	3870	3887				NAME	MEAS. DEPTH
Q #1; Seven Rivers				Rec. 16': 4' dolo., 8' rd. sh., 1' dolo., 1 1/2' rd. sh., 2 1/2' dolo.			
Q #2; Seven Rivers	3922	3935		Rec. 14 1/2': 2' gry. sd. w/50, 10 1/2' rd. sh.			1772 1895
Q #3; Seven Rivers	3983	3999		Rec. 15 1/2': 2' gry sd., 10 1/2' gry. sd. w/50, 3' dense gry. sd.			3370 3603 4550 4900
DST; Seven Rivers	3976	3999		Op. 1 hr., gas to surf. in 14 min., gage @ 23.33 MCFGPD; rec. 105' free oil (37.6° gr), 128' G&MCO, IHP 2165, FHP 2165, 1 hr. FSIP 1465, IFF 32, FFP 86, 2 hr. FSIP 1433 and still climbing			5268 5150
Q #4; Seven Rivers	3999	4047		Rec. 4E': 8' shly. gry. sd., 4' dolo., 30' rd. sd., 6' shly. dolo.			
Q #5; Queen Fm.	4586	4606		Rec. 20': 17' gry. sd. w/50, 3' gry. dense dolo.			

HOWCO

Mar 3 1964

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

Ernest A. Hanson - #2-35 Mescalero Ridge Unit
1980' FSL & FEL
Sec. 35, T. 19 S., R. 34 E., N.M.P.M.
Lea County, New Mexico

Perf. 5206, 5208, 5213-14, 5216, 5218-19' Acidized w/1,000 gals. mud acid. Red. part of load and trace of sulf. water.

Set HOWCO wireline Bridge Plug @ 5150'.

Perf. 3986-92' Acidized w/500 gals. acid and frac. w/20,000 gals. lease oil and 16,500 lbs. sand. Rec. load oil. Swabbed 42 BNO & 38 BXWPD. (This zone will not be produced either dually or comingled because of low I.P.)

The remaining reservoirs were treated limited entry between HOWCO type HM straddle packers at one setting:

Perf. 4585-90' Acidized w/500 gals. acid and frac. w/24,600 gals. lease oil and 20,000 lbs. sand.

Perf. 4722-24' Acidized w/250 gals. acid and frac. w/10,000 gals. lease oil and 6,500 lbs. sand.

Perf. 4859-60, 4862, 4865' Acidized w/1,000 gals. acid and frac. w/10,000 gals. lease oil and 7,000 lbs. sand.

Perf. 4984-87, 4995-97' Acidized w/250 gals. acid and frac. w/20,400 gals. lease oil and 16,000 lbs. sand.

Tubing was run to 4583' with a Guiberson Type KV-8 production packer set at 4025'. All producing Queen Formation reservoirs between 4585 to 4997 feet have been isolated.