

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

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

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 Re-entry

2. NAME OF OPERATOR

Southern Union Expl. Co. of TX.

3. ADDRESS OF OPERATOR

1217 Main Street, Dallas, Texas 75202

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

At surface Unit Letter "J" 1840' FSL & 1840' FELAt top prod. interval reported belowAt total depth

14. PERMIT NO.

DATE ISSUED

5. LEASE DESIGNATION AND SERIAL NO.

NM 28733

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Yarborough Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat Gallop

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

Sec.3, T23N, R6W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

15. DATE SPUDDED 7/8/81 16. DATE T.D. REACHED 12/24/81 17. DATE COMPL. (Ready to prod.) 7/26/81 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 6778' GL 19. ELEV. CASINGHEAD 6781'

20. TOTAL DEPTH, MD & TVD 6885' 21. PLUG, BACK T.D., MD & TVD 5622' 22. IF MULTIPLE COMPL., HOW MANY* 1 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS X

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

5304' - 5618' Gallop

26. TYPE ELECTRIC AND OTHER LOGS RUN

Correlation, Spectra logs & GR/CBL/CNL/CCL

25. 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#	308'	17 1/2"	360sx - circulated	
9 5/8"	36 & 40#	4319'	12 1/4"	1750sx - Top @ 400'	
5 1/2"	15.5#	6674'	8 3/4"	625sx - Top @ 4780'	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	5599'	-

31. PERFORATION RECORD (Interval, size and number)

Previous Perfs: 5540' - 5585' (4SPM)New Perfs: 5304', 05', 5400', 02', 04', 06', 08',10', 12', 14', 5417', 19', 21', 23', 25', 27',34', 36', 38', 40', (1SPF), 5501', 03', 05', 31', 32',33', 44', 46', 48', 50', 52', 54', 56', 58', 60', 5616'18', (1SPF)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5540' - 85'	500 gals. - 10% acetic acid
5501' - 5618'	Frac w/32,000# of 20/40 sand and 31,812 gals. of foam
5304' - 5440'	500 gals. - 10% acetic acid

33. PRODUCTION

(SEE ATTACHED)

DATE FIRST PRODUCTION 7/29/81 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
<u>8/28/81</u>	<u>24</u>	<u>3/4</u>	<u>→</u>	<u>38</u>	<u>70</u>	<u>20</u>	<u>1842</u>
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
<u>0</u>	<u>440</u>	<u>→</u>	<u>38</u>	<u>70</u>	<u>20</u>	<u>38.4°</u>	

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

Vented

35. LIST OF ATTACHMENTS

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

SIGNED

Pat G. HanellTITLE Drilling & Production Eng.DATE October 13, 1981

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

FARMINGTON DISTRICT

BY

Shm

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.

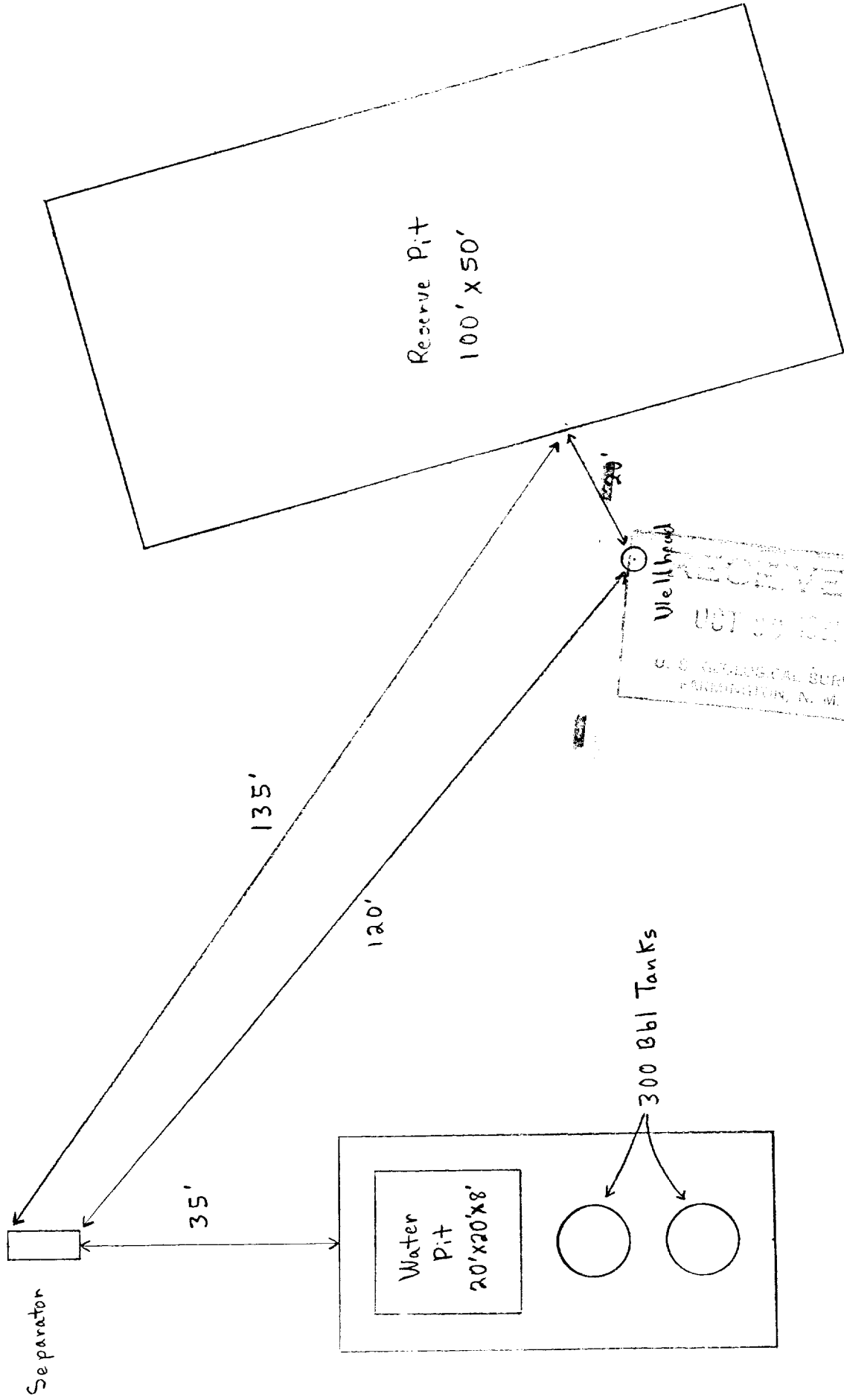
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate 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			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VENT DEPTH
Pictured Cliffs	2152'	3624'				
Cliff House	3624'	4290'				
Point Lookout	4290'	5530'				
Gallop	5530'	6288'	Perf. 5540' - 5585' (4SPF), 5501' - 5618' (17 holes) & 5304' - 5440' (20 holes)			
Greenhorn	6288'	6517'				
Dakota	6517'	6885'				

Varborough Federal #1



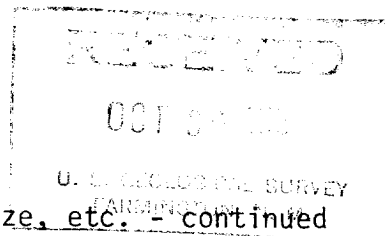
Wellhead Location:

Unit Letter J, 1840' FSL + 1840' FEL, Sec. 3, T23N, R16W

State Oil Lease NM 28733 Rio Arriba County, New Mexico

Attachment to Form 9-330

NOTE: This well was drilled in 1957 by the Texas Company to a depth of 6685'. It was tested from perfs @ 6516' - 30' and produced from perfs @ 5540' - 85'. The well was plugged and abandoned on December 31, 1962. Southern Union Expl. Co. of Texas has re-entered the well, drilled out the cement plugs and recompleted in the Gallop formation.



32. Acid, Shot, Fracture, Cement Squeeze, etc. - continued

Depth Interval

Amount & kind of material used

5304' - 5440'

Frac w/27,500# of 20/40 sand and
21,086 gals. of foam.