

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

1-Northwest Pipeline (Armstrong)
Form approved
Budget Bureau No. 42-R355.5

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. NM 3778	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Jerome P. McHugh		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR Box 234, Farmington, NM 87401		8. FARM OR LEASE NAME Common Erin	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 790' FNL - 790' FEL At top prod. interval reported below At total depth		9. WELL NO. 1	
14. PERMIT NO.		DATE ISSUED	
15. DATE SPUDDED 2-2-77		16. DATE T.D. REACHED 2-14-77	
17. DATE COMPL. (Ready to prod.) 3-17-77		18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 6355' GR - 6366' RKB	
19. ELEV. CASINGHEAD		20. TOTAL DEPTH, MD & TVD 6207'	
21. PLUG, BACK T.D., MD & TVD 6155'		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY		ROTARY TOOLS 0-6207'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6018-6076' Dakota		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN IEL, Density, and Gamma-Collar Perforation		27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
8-5/8"	24#	232' RKB	12-1/4"
4-1/2"	10.5#	6207' RKB	7-7/8"
CEMENTING RECORD		AMOUNT PULLED	
165 sx		None	
575 cu ft (1st stage)		None	
1300 cu ft (2nd stage)		None	
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
1-1/4"	6067' RKB		
31. PERFORATION RECORD (Interval, size and number)			
One jet/ft 6018-21', 6048-58', 6060-63', 6066-76' (26 holes)			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
		See completion report for detailed information.	
33.* PRODUCTION			
DATE FIRST PRODUCTION		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. FOR TEST PERIOD
			OIL—BBL. 1850
			GAS—MCF. 1850
			WATER—BBL.
			OIL GRAVITY-API (CORR.)
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	
1970 SI	2025 SI		
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			TEST WITNESSED BY
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 Thomas A. Dugan		TITLE Petroleum Engineer	
DATE APR 7 1977		DATE APR 7 1977	

*(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: CORREL. 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.

38. GEOLOGIC MARKERS

NAME MEAS. DEPTH TRUE VERT. DEPTH

Log Tops

Ojo Alamo	473'
Kirtland	633'
Pictured Cliffs	1493'
Lewis	1619'
Cliff House	2983'
Menefee	3020'
Point Lookout	3964'
Mancos	4189'
Gallup	4990'
Greenhorn	5892'
Graneros	5958'
Dakota	6009'