

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(See other instructions on reverse side)

Budget Bureau No. 42-RM55.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☒ Other _____		5. LEASE DESIGNATION AND SERIAL NO. N00-C-14-20-4322	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. ELSVR. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Allotted	
2. NAME OF OPERATOR JEROME P. McHUGH		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 208, Farmington, NM 87499		8. FARM OR LEASE NAME Chaco Plant	
4. LOCATION OF WELL (Report location clearly and in accordance with instructions on reverse side) At surface 830' FNL - 2070' FWL At top prod. interval reported below At total depth		9. WELL NO. 18R	
10. FIELD AND POOL OR WILDCAT Underground <i>Sallegas Fr Pc</i>		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 13, T26N, R12W	
12. COUNTY OR PARISH San Juan		13. STATE NM	
14. PERMIT NO. U. S. GEOLOGICAL SURVEY FARMINGTON DISTRICT 3-13-82		15. DATE SPUDDED 3-9-81	
16. DATE T.D. REACHED 3-14-82		17. DATE COMPL. (Ready to prod.) P & A	
18. ELEVATIONS (DF, RKB, RT, GE, ETC.)* 5990' GR		19. ELEV. CASINGHEAD 5990'	
20. TOTAL DEPTH, MD & TVD 1340'		21. PLUG BACK T.D., MD & TVD 1310'	
22. IF MULTIPLE COMPL., HOW MANY Single		23. INTERVALS DRILLED BY Rotary	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* N/A		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN GR/CCL, S-Gamma Ray & Density		27. WAS WELL CORED No	

CASING RECORD (Report all strings set in well)				
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD
7"	23#	88' GL	8-3/4"	35 sx class "B" (40ft ³)
2-7/8"	6.4#	1332' GL	5-7/8" (158ft)	75 sx 2% lodense w/1/2# cello
followed by 50 sx class "B" neat w/1/2# (59ft ³)		cello flake /sk.		

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACER SET (MD)

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
See Attached		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
		See Attached	

33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
N/A						P & A	
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						TEST WITNESSED BY	

35. LIST OF ATTACHMENTS (1) Perforation & Fracture Record	
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
SIGNED <i>Jim L. Jacobs</i>	TITLE Geologist
DATE 11-29-82	DEC 01 1982

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

NMOCC

FARMINGTON DISTRICT
BY *Stepha Mason*

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 each 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; CORRELATE INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUBIC FEET PRODUCED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERY		38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		
TOP		BOTTOM	NAME	MEAN DEPTH	TRUE VERT. DEPTH
			Ojo Alamo	110'	
			Kirtland	320'	
			Fruitland	932'	
			Pictured Cliffs	1212'	

18-81
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o Plan

- 8-81 Rigged up F.W.S. swabbing unit & Southwest Surveys. PBTB 1310'. Ran GR/CLL from TD to 500'. GR/CLL depths are set back to the open hole log. Swabbed well down to $\pm 1000'$. Perf. 1214-1220', 6', 6 holes, 1 SPF w/ 2-1/8" bi-wire glass jets. Swabbed well dry in two runs. Gas ahead of swab during swabbing, no water entry indicated. Perf. 1172-1176, 4', 4 holes, 1 SPF w/ 2-1/8" bi-wire glass jets. Swabbed well dry; small amount of gas ahead of swab; no water entry indicated.
- 3-19-81 Rigged up the Western Co. Swabbed well down. 150' of water and small amount of gas recovered. Pressure test lines to 3000 psi. Pumped 250 gals. of 15% inhibited HCL and displaced w/ 10 bbls of water. 10 balls dropped in acid at approx. 2 balls/bbl. No ball action noted. Breakdown pressure 2500 psi. Average pump pressure 1000 psi at 3 1/2 BPM. ISDP 200 psi, vacuum in one min. Swabbed well; no gas noted, swabbing spent acid.
- 3-20-81 $\pm 700'$ of spent acid in hole before swabbing. Swabbed well; amount of gas produced increased after each run; spent acid decreasing. Last run less than 50' of spent acid after 1/2 hr. wait.. Well making small amount of gas. Shut in well.
- 4-28-81 Rigged up FWS and Southwest Surveys. Perf 1115' - 1119' and 1122' - 1126', ISPF, 10 holes, w/ 2-1/8" bi-wire glass jets. Well swabbed down, after 3 runs, gassing between runs, gas increasing while swabbing. 90' of gas, cut water entered in 1/2 hr. Shut well in.
- 4-30-81 Rigged up the Western Co. Well making small amount of gas when wellhead opened. Pressure test lines to 4000 psi. Foam fraced the Pictured Cliffs and Fruitland Formations at 1214-1220 (6 holes), 1172-1176 (4 holes), 1122-1127 (5 holes) and 1115-11 (5 holes) w/ 70% quality foam.

Pumped 5000 gals. of 70% quality foam pad ahead of 5000 gals of 70% quality foam w/1 ppg of 10-20 sand and 5000 gals. of 70% quality foam w/ 2 pps of 10-20 sand.

IR during job 20BPM. Initial breakdown pressure 1300 psi, average treating pressure 1400; max 1700, min 1300. ISDP 800 psi. 15 min. shut-in pressure 450 psi. Dropped 2 balls after 6000# of sand placed; 25 psi ball action noted. Dropped 2 balls after 7000# of sand placed; 50 psi ball action noted. Dropped 2 balls after 8000# of sand placed; 50 psi ball action noted. Dropped 2 balls after 10,000# of sand placed; 50 psi ball action noted. Dropped 2 balls after 12,000# of sand placed; 50 psi ball action noted. Pressure broke back to 1500 psi, after balls were dropped.

The following materials were used: ball sealers, 15000# of 10-20 sand, 85,200 SCF of N₂, 113.6 BBLS of water, 25 gals of adafoam & 205 HHP.

Shut well in for 2 hrs and opened to atmosphere on 5/8" choke.

