

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

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 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

(cont.)

Average rate 60 BPM, average pressure 2100 psi.
Maximum pressure 2200 psi, minimum pressure 1920 psi.
ISIP = 900 psi, 15 minute shut-in pressure = 850 psi.

RECEIVED
DEC 1 - 1983
OIL CON. DIV.
DIST. 3

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.

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		William C. Russell									
3. ADDRESS OF OPERATOR		227 East 59th St., New York, NY 10022									
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)		At surface 990' FSL & 915' FEL									
At top prod. interval reported below		same									
At total depth		same									
14. PERMIT NO.		DATE ISSUED									
15. DATE SPUDDED		16. DATE T.D. REACHED		17. DATE COMPL. (Ready to prod.)		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*		19. ELEV. CASINGHEAD			
1-2-83		1-7-83		9-8-83		5986' RKB		5976' GL			
20. TOTAL DEPTH, MD & TVD		21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY		ROTARY TOOLS			
3320'		3202				→		0-TD			
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*		3146-3186' Chacra							25. WAS DIRECTIONAL SURVEY MADE		
									Yes		
26. TYPE ELECTRIC AND OTHER LOGS RUN		Radioactivity Log							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	
8-5/8"		24		225		12 1/4"		171 ft ³ Class B w/2% CaCl ₂		circ.	
4-1/2		11.6		3280		7-7/8"		1670 ft ³ 65/35 pzomix with 6% gel		circ.	
								followed by 59 ft ³ Class B cement			
29. LINER RECORD										30. TUBING RECORD	
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		SIZE	
										1-1/2	
										3141	
31. PERFORATION RECORD (Interval, size and number)										32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
3146-3156'		10'		20 holes		DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
3176-3186		10'		20 holes		3146-3186		500 gallons of 15% HCL acid			
				40 holes total				96,500 gallons of slickwater			
								104,000 lbs of 20-40 sand			
33.* PRODUCTION											
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)						WELL STATUS (Producing or shut-in)			
9-8-83		Flowing						Shut-in			
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.	
9-20-83		3		3/4		→		—		139	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL.		GAS—MCF.		WATER—BBL.	
94		340		→		—		1112		—	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)										TEST WITNESSED BY	
To be sold										W.C. Russell	
35. LIST OF ATTACHMENTS											
Open Flow Test Data											
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available data.											
SIGNED		TITLE				Agent		DATE		11-18-83	
										NOV 30 1983	

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

NMOCC

FARMINGTON RESOURCE AREA

BY Smn

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 33.

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 VERT. DEPTH
Ojo Alamo	1235	1400	Water	Ojo Alamo	1235	
Fruitland	1566	2016	Water	Fruitland	1566	
Pictured Cliffs	2016	2114	Gas	Pictured Cliffs	2016	
Chacra	3144	3196	Gas	Chacra	3144	

RECEIVED
DEC 11 1953
OIL CON. DIV.

OPEN FLOW TEST DATA

Date: 9-20-83

Operator: W.C. Russell

Lease: Graham

Location: S24, 10 T-27N R8W

County: SDW State: N.M.

Formation: Chaco

Pool: Undesignated Chaco

Casing: 4 1/2 " Set @ 3280 ' Tubing: 1 1/2 " Set @ 3141

Pay Zone: 3146 ' To: 3186 ' Total Depth: 3300

Choke Size: 3/4" T&C " Choke Constant = C = 12.365

Stimulation Method: SWF Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 900 psig / 12 = 912 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 900 psig / 12 = 912 psia

Flowing Pressure: P : 82 psig / 12 = 94 psia

Working Pressure: P_w : 328 psig / 12 = 340 psia

Temperature: T : 60 °F / 460 = 520 °Absolute

F_{pv} (from tables) : 1.011 Gravity est 670 n 75

$$\text{Choke Volume} = Q = \frac{C \times P_t \times F_t \times F_g \times F_{pv}}{12.365 \times 94 \times 1.000 \times 0.9463 \times 1.011}$$

$$Q = \underline{1112} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \frac{\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n}{\frac{831,744}{716,144}} = \frac{1.1614}{1.1694}$$

$$Aof = \underline{1234} \text{ MCF/D}$$

Tested By: Kate A. D...

Witnessed By: W.C. Russell

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CON. DIV.
DIST. 3