

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 ☐				5. LEASE DESIGNATION AND SERIAL NO. Contract No. 393			
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐				6. IF INDIAN ALLOTTEE OR TRIBE NAME Jicarilla			
2. NAME OF OPERATOR Refiners Petroleum Corp.				7. UNIT AGREEMENT NAME			
3. ADDRESS OF OPERATOR 900 Bank of New Mexico Building, Albuquerque, New Mexico				8. FARM OR LEASE NAME Cuba Pan Am			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 990' FSL, 1650' FWL At top prod. interval reported below 990' FSL, 1650' FWL At total depth 990' FSL, 1650' FWL				9. WELL NO. 1			
14. PERMIT NO. USGS				DATE ISSUED 10-28-70			
15. DATE SPUDDED 10-28-70				10. FIELD AND POOL OR WILDCAT Cuba Dakota			
16. DATE T.D. REACHED 11-12-70				11. SEC., T., R., M. OR BLOCK AND SURVEY OR AREA Sec 24-T22N-R3W, NMPN			
17. DATE COMPL. (Ready to prod.) 11-21-70				12. COUNTY OR Sandoval			
18. ELEVATIONS (DF, HEB, BT, GR, ETC.)* 7246' GR				13. STATE New Mexico			
19. ELEV. CASINGHEAD 7247'				20. TOTAL DEPTH, MD & TVD 7050'			
21. PLUG, BACK T.D., MD & TVD				22. IF MULTIPLE COMPL., HOW MANY*			
23. INTERVALS DRILLED BY 0-7050'				ROTARY TOOLS None			
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6786' - 6814' from the Graneros Dakota				25. WAS DIRECTIONAL SURVEY MADE Yes			
26. TYPE ELECTRIC AND OTHER LOGS RUN Induction Electric and Gamma Ray Density				27. WAS WELL CORED Yes			
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
10-3/4"		36#		210'		13-3/8"	
4-1/2"		9.5# & 11.6#		7049'		7-7/8"	
						CEMENTING RECORD	
						150 cc Class A w/24 CC, circulated w/ tool @ 2500', cemented first stage w/240 cc, cemented second stage w/130 cc	
						AMOUNT PULLED	
29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
				None			
						SCREEN (MD)	
30. TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
2-3/8"		6786'		7049'			
31. PERFORATION RECORD (Interval, size and number)							
6786' - 6814' w/4 per ft							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
6786' - 6814'				500 gal. water from w/10', 500 gal. water, 100,000# sand, BP 2250#			
				at 3000', 12-50 BPM, IBP 2000#			
33. PRODUCTION							
DATE FIRST PRODUCTION 11-21-70		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or Producing)	
DATE OF TEST 11-21-70		HOURS TESTED 24		CHOKE SIZE 1/2"		PROD'N. FOR TEST PERIOD 255	
OIL—BBL. 255		GAS—MCF TSTM		WATER—BBL. 50		GAS-OIL RATIO TSTM	
FLOW. TUBING PRES. 1100#		CASING PRESSURE 200#		CALCULATED 24-HOUR RATE 255		OIL GRAVITY-API (CORR.) 42	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) None							
35. LIST OF ATTACHMENTS Induction Electric Log, Gamma Ray Density Log, mailed direct by Schlumberger 11/16/70							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED Val H. Beck				TITLE Geologist			
DATE 11/21/70				J. S. GEOL. & MIN. SURVEY BRANCO, COLO.			

* (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 4-23, 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. Item 19: Indicate which interval 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.)

No drillstem tests. Core No. 1 - 6803' - 6836', recovered 36' sandstone, gray, very fine, shaley, silty.

Core No. 2 - 6962' - 6965', recovered 3' shaley sandstones. Core No. 3 - 6965' - 7010', recovered 47' sandstone, gray, very fine, shaley, silty, highly fractured in lower half.

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	MEAN DEPTH	FROM VERT. DEPTH
Tertiary	0'	2150'	Sands and shales	Pictured Cliffs	2510'	8510'
Big Blanco	2150'	2360'	Gray sandstone	Cliffhouse	4030'	4030'
Cliffland	2360'	2510'	Dark gray shales	Point Lookout	4653'	4653'
Cliffhouse	2510'	2605'	Gray sandstone	Upper Gallup	5192'	5192'
Lawis Shale	2605'	4030'	Gray shales w/some sandstone	1st Dakota	6786'	6786'
Cliffhouse MV	4030'	4102'	Massive sandstones	2nd Dakota	6946'	6946'
Maneefee	4102'	4653'	Shales, sandstones, & coals	Porous Dakota	6968'	6968'
Point Lookout	4653'	4894'	Massive gray sandstones			
Maneefee Shale	4894'	5192'	Gray sandy shales			
Upper Gallup	5192'	5872'	Tight sandstones & gray shales			
Lower Gallup	5872'	6146'	Tight sandstone w/gray shales			
Lower Maneefee	6146'	6702'	Dark gray shale w/some sandstone			
Greenhorn	6702'	6744'	Limestones and shales			
Graneros Shale	6744'	6786'	Dark gray shales			
1st Dakota	6786'	6826'	Sandstone, oil saturated			
Graneros Shale	6826'	6946'	Dark gray shales			
2nd Dakota	6946'	6968'	Sandstone, tight			
Porous Dakota	6968'	7020'	Porous light gray sandstone			
Total Depth		7050'				