Form 9-330
(Rev. 5-68)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

RECEIVED
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Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL XX GAS WELL ☐ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL X WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: Refinera Petroleum Corp.

3. ADDRESS OF OPERATOR: 900 Bank of New Mexico Building, Albuquerque, N. M. 87101

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 990' FNL, 990' FEL
At top prod. interval reported below: 990' FNL, 990' FEL
At total depth: 990' FNL, 990' FEL

5. LEASE DESIGNATION AND SERIAL NO.: Contract No. 411

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Jicarilla

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Cuba Union

9. WELL NO.: 2

10. FIELD AND POOL, OR WILDCAT: Undesignated Dakota

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec 26-T22N-R3W, NMPM

14. PERMIT NO.: USGS — DATE ISSUED: 10-12-70

12. COUNTY OR PARISH: Sandoval — 13. STATE: New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
11-23-70	12-10-70	~~1-31-71~~ 12-10-70	7293' GR 7308' KB	7294'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
7064'			→	0-7064'	None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 6794' - 6803' Graneros Dakota

25. WAS DIRECTIONAL SURVEY MADE: Tocto Survey

26. TYPE ELECTRIC AND OTHER LOGS RUN: Formation Density and Dual Induction Log

27. WAS WELL CORED: Yes

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4"	36"	216'	13-3/8"	150 sx w/2% Calcium chloride	None
4-1/2"	9.5# & 11.6#	7059'	7-7/8"	400 sx, circulated (*Includes 170 sx first stge 7059-2593', 130 sx 2nd stge, 0-2593)	None
	Deviation tool set at	2593'			

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
		NONE		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	6794'	

31. PERFORATION RECORD (*Interval, size and number*): 6794' - 6803' w/4 holes per ft

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6794 - 6803'	Fractured w/100,000# sand and 100,000 gallons water

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
1-13-71	Swab and flow	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-13-71	24	3/8"		240	TSTM	27	TSTM

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
50#	75#		240	TSTM	27	42

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): None

TEST WITNESSED BY: Norris Jones

35. LIST OF ATTACHMENTS: Logs previously furnished

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

SIGNED W. K. Reese TITLE Consulting Geologist DATE 1-14-71

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

JAN 18 1971

P. O. BOX 1309
DURANGO, COLO. 81301

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.)

No drillstem tests. CORE NO. 1: 6793' - 6830' - recovered 17' 6793' - 6810' containing coarse-grained porous sandstone, oil saturated from 6795' to 6804'; recovered 20' 6810' - 6830' containing very fine grained, shaley gray sandstone. CORE NO. 2: 6796' - 7027' - recovered 51' 6976' - 7003' very fine-grained white sandstone w/vertical fractures; recovered 24' 7003' - 7027' very fine grained, very shaley gray sandstone w/slight fractures, no show.

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.
Tertiary	0'	2152'	Sands and shales
Ojo Alamo	2152'	2350'	Sand, porous
Kirtland	2350'	2510'	Shales with some sands and coals
Pictured Cliffs	2510'	2618'	Sandstone, coarse to fine grained
Lewis Shale	2618'	4052'	Shale, gray, some sandstone beds
Cliffhouse	4052'	4124'	Sandstone, gray, porous
Menefee	4124'	4616'	Shales, gray, some sandstones and coals
Point Lookout	4616'	4894'	Sandstone, gray, massive beds at top, some interbedded shales w/sandstone at base
Mancos	4894'	5198'	Shale, gray, sandy
Upper Gallup	5198'	5796'	Shale and sandstone interbedded, light gray, tight
Lower Gallup	5796'	6102'	Sandstone and shales, light to dark gray, tight
Lower Mancos	6102'	6696'	Shale, dark to light gray, some sandstones
Greenhorn	6696'	6764'	Limestone, gray, some interbedded dark gray shales
Graneros Shale	6764'	6786'	Shale, dark gray to black
1st Graneros Dakota	6786'	6812'	Sand and shaley sand, oil saturated 6794'-6805'
Graneros Shale	6812'	6874'	Shale, dark gray, some tight sandstone
2nd Graneros Dakota	6874'	6900'	Sandstone, fine grained and shaley
Graneros Shale	6900'	6962'	Shale, dark gray, tight sandstones at base
Dakota	6962'	7000'	Sandstone, white to gray, fractured
Shale	7000'	7064' TD	Shale

38. GEOLOGIC MARKERS

NAME	TOP: MEAS. DEPTH	TOP: TRUE VERT. DEPTH
Pictured Cliffs	2510'	2510'
Point Lookout	4616'	4616'
Greenhorn	6696'	6696'
Graneros Dakota	6786'	6786'

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