Form 9-330
(Rev. 5-63)

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*

RECEIVED
DEC 5 1968
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

5. LEASE DESIGNATION AND SERIAL NO.: Jicarilla Apache Contract 147

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Jicarilla Apache

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Jicarilla Contract 147

9. WELL NO.: 4

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: NE/4 Section 5, T25N, R5W

12. COUNTY OR PARISH: Rio Arriba

13. STATE: New Mexico

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: PAN AMERICAN PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR: 501 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements.**)
At surface: 1070' FNL & 1160' FEL, Unit "A"
At top prod. interval reported below: Same
At total depth: Same

RECEIVED
DEC 6 1968
OIL CON. COM.
DIST. 3

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
8-20-68	9-6-68	11-18-68	GL 6506', RDB 6519'*	6506'

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
7300'	7130'		→	0 - TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
6969-7117', Basin Dakota

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Induction Electrical, Accoustic Velocity, Gamma Ray (Production logs: Continuous Flowmeter & Gradiomanometer)

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
8-5/8"	22.7#	467'	12-1/4"	400 sx	0
4-1/2"	10.5#	7296'	7-7/8"	1800 sx (DV tool @ 2896 & 5298) 1st stage 500 sx, 2nd stage 575 sx, 3rd stage 725 sx. Circ 2nd & 3rd stages	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	7038'	

31. PERFORATION RECORD (*Interval, size and number*)
7214-20, 7228-33' x 4 SPF
7140-46' x 2 SPF
7099-7117' x 2 SPF
6969-83, 6988-94' x 2 SPF) Producing

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7214-33' Frac w	14,810 gal wt, 50000# 20-40 & 10,000# 10-20 sn & sn aff.
7099-7146' Frac	w 13,800 gal wt, 10,000# 20-40 & 12,000# 10-20 sn & sn aff. Refrac w (over)

33.* PRODUCTION

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

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-26-68	3	3/4"					

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
210 psig	601 psig		NG	2607 (AOF 2827)	NG	

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)
To be sold to Southern Union Gas Co.

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 C. W. Eaton, Jr. TITLE Area Engineer DATE December 3, 1968

*(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.)

Frac Treatment Continued:
36,800 gal wt & 35,000# 10-20 sn & 1000# 8-12 glass beads. Perf 6969-94 x 2 SPF. Frac w 34,000 gal wt & 10,000# 20-40 & 38,000# 10-20 sn & 2000# 8-12 glass beads.

Based on results of production logs, bridge plug was set at 7130' and well is now produced from perforations 6969-83, 6988-94 & 7099-7117.

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.
Dakota Core	7090'	7150'	19' good sand, 34' shaley sand, 5' shale, 2' lost.
Greneros Dakota	6969'	6994'	Natural gas with some condensate & water.
Main Dakota	7099'	7117'	Natural gas with some condensate & water.
Main Dakota	7140'	7146'	Naturalgas & water
Lower Dakota	7214'	7233'	Water with some natural gas

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Ojmms	694'	
Ojo Alamo	1710'	
Kirtland	1882'	
Farmington Sand	2173'	
Fruitland	2640'	
Pictured Cliffs	2768'	
Lewis Shale	2800'	
Cliffhouse	4386'	
Menefee	4468'	
Point Lookout	5022'	
Mancos Sand	5158'	
Gallup	5990'	
Tocito	6566'	
Sanostee	6648'	
Greenhorn	6873'	
Greneros Shale	6929'	
Greneros Sand	6955'	
Main Dakota	7094'	
Lower Dakota	7211'	
Morrison	7297'	

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