

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 PAN AMERICAN PETROLEUM CORPORATION						5. LEASE DESIGNATION AND SERIAL NO. Jicarilla Contract 155	
3. ADDRESS OF OPERATOR P. O. Box 480, Farmington, New Mexico						6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 990' FWL and 790' FWL At top prod. interval reported below Same At total depth _____						7. UNIT AGREEMENT NAME	
14. PERMIT NO.						DATE ISSUED	
8. FARM OR LEASE NAME Jicarilla Contract 155						9. WELL NO. 19	
10. FIELD AND POOL, OR WILDCAT Basin Dakota						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA NE/4 Section 29, T-26-N, R-5-W	
12. COUNTY OR PARISH Rio Arriba						13. STATE New Mexico	

15. DATE SPUDDED 11-1-66	16. DATE T.D. REACHED 11-20-66	17. DATE COMPL. (Ready to prod.) 12-9-66	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6463' GL, 6477' RDB	19. ELEV. CASINGHEAD --
20. TOTAL DEPTH, MD & TVD 7380'	21. PLUG, BACK T.D., MD & TVD 7344'	22. IF MULTIPLE COMPLEMENTS, HOW MANY? Surf. to 7380'	23. INTERVALS CONTROLLED BY ROTARY TOOLS Surf. to 7380'	CABLE TOOLS
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND SURF.) 7022-7221' Graneros Dakota 7152-7168' Main Dakota 7237-72' Lower Dakota				25. WAS DIRECTIONAL SURVEY MADE No
26. TYPE ELECTRIC AND OTHER LOGS RUN Induction Electric, Gamma Ray Sonic				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
3-5/8"	24#	464'	12-1/4"	400 sx	None
4-1/2"	10.5# & 11.6#	7380'	7-7/8"	600 sx (First Stage) 600 sx (Second Stage) 50 sx (Third Stage)	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	7024'	--

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
7237-7243'	4 shots per foot	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7266-7272'	4 shots per foot	7237-72'	500 gals. acid, 24,108 gals. water, 15,000 lbs. 20-40 sand.
7152-7168'	4 shots per foot	7152-68'	44,058 gals. water, 30,000 lbs. 20-40 & 10,000 lbs. 10-20 sand.
7022-7028'	4 shots per foot		
7036-7042'	4 shots per foot		

33.* PRODUCTION (Continued on back)							
DATE FIRST PRODUCTION 12-9-66		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Shut In	
DATE OF TEST 12-16-66	HOURS TESTED 3	CHOKE SIZE 3/4"	PROD'N. FOR TEST PERIOD →	OIL—BBL. 423	GAS—MCF. 423	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS. 269	CASING PRESSURE 669	CALCULATED 24-HOUR RATE →	OIL—BBL. 3384	GAS—MCF.	WATER—BBL.	TEST WITNESSED BY DEC 22 1966	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold to El Paso Natural Gas Company		35. LIST OF ATTACHMENTS	
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36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.
SIGNED G. W. EATON, JR.	TITLE Area Engineer	DATE December 20, 1966	

*(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.)

Item 32 (Cont'd) - 7022-42' 500 gals. acid, 31,626 gals. water, 25,000 lbs. 20-40 sand and 5,000 lbs. 10-20 sand.

No Cores

No DST

Well History

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.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Well spudded 11-1-66 and drilled to a depth of 464' where 8-5/8" casing was set with 450 sacks Type "C" cement containing 2% calcium chloride. Well was drilled depth of 7380' where 4-1/2" casing was set with stage tools set at 5308' and 2910'. Cemented first stage with 500 sacks Type "C" containing 6% Gel and 2 lbs. med. Tuf Plug per sack followed by 100 sacks Type "C" cement. Cemented second stage with 550 sacks Type "C" 4 1/2 Gel and 2 lbs. med. Tuf Plug per sack followed by 50 sacks Type "C" cement. Tripped DV tool but could not circulate. Cemented third stage with 50 sacks Type "C" cement. Drilled out cement and DV tools and cleaned out to FWD 7344'. Displaced hole with water containing 0.87% potassium chloride and 2-1/2 lbs. FR-2 per 1000 gallons. Spotted 500 gallons acid and perforated Lower Dakota 7237-43 and 7266-72 with 4 SP7. Sand-water fraced with 24,108 gallons water containing 0.87% potassium chloride and 2-1/2 lbs. FR-2 per 1000 gallons with 15,000 lbs. 20-40 sand. Breakdown pressure 2400, treating pressure 3600-3500 and AIR 16 MPa. Set NP at 7210' and perforated Main Dakota 7152-68' with 4 SP7. Sand-water fraced with 44,000 gallons treated water and 30,000 lbs. 20-40 sand and 10,000 lbs. 10-20 sand. Breakdown pressure 3200-2400 and average treating pressure 3500 and AIR 40.3 MPa. Set NP at 7140 and perforated Gruneros Dakota 7022-28' and 7036-42' with 4 shots per foot. Spotted 500 gallons 15% acid and sand-water fraced with 31,626 gallons treated water and 25,000 lbs. 20-40 sand and 5,000 lbs. 10-20 sand. Breakdown pressure 3500, average treating pressure 3200 and AIR 34.6 MPa. Drilled out bridge plugs and cleaned out to FWD 7344. 2-3/8" tubing landed at 7024'. On 12-9-66 well was completed as a Main Dakota Field flowing gas well. Potential tested 3384 MCFT through a 3/4" choke with TFF 269 psig and U.S. GOVERNMENT PRINTING OFFICE: 1963-O-683636	to a	0	2790'	Sand & Shale	2790'	2790'	
				Pictured Cliffs	2904'	2904'	2904'
				Lewis Shale	4488'	4488'	4488'
				Manavero	5228'	5228'	5228'
				Manos shale	6111'	6111'	6111'
				Gallop	6398'	6398'	6398'
				Base Gallop	6940'	6940'	6940'
				Greenhorn	7148'	7148'	7148'
				Main Dakota	7232'	7232'	7232'
				Lower Dakota	7350'	7350'	7350'