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
MAY 27 1966
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

5. LEASE DESIGNATION AND SERIAL NO.: SF 078106

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Gallegos Canyon Unit

8. FARM OR LEASE NAME:

9. WELL NO.: 224

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SW/4 NE/4 Sec. 18 T28N-R12W

12. COUNTY OR PARISH: San Juan

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: Security Life Building Denver, Colorado

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 1515' FNL & 1600' FEL
At top prod. interval reported below
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
3/18/66	3/25/66	4/25/66	RDB 5654	----

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
6184	6150		→	Surface to 6184	----

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 6107-6127 and 6020-6035 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
8-5/8"	24#	342	12-1/4	225 sacks	NONE
4-1/2"	10.5#	6184	7-7/8	500 sacks 1st. stage	NONE
				350 sacks 2nd. stage	
				400 sacks 3rd. stage	

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"	6041	

31. PERFORATION RECORD (*Interval, size and number*)

6107-27 4 shots per foot

6020-35 4 shots per foot

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6107-6127	500 gallons 7-1/2% acid
	36,620 gallons water, 40,000 lbs. sand
6020-6035	36,170 gallons water
	40,000 lbs. sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
4/25/66	Flow	Shut In

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5/6/66	3 hr.	3/4"			1191		

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
744	1352			9528		

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): To be sold to El Paso Natural Gas Company

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS

RECEIVED
MAY 31 1966
OIL CON. COM.
DIST. 3

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

SIGNED ORIGINAL SIGNED BY D. I. TOLLEFSON D. I. Tollefson TITLE Administrative Assistant DATE 5/25/66

*(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.)

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.
NO CORE NO DST WELL HISTORY			Well was spudded 3/18/66 and drilled to a depth of 342' where 8-5/8" casing was set with 225 sacks type "A" cement containing 3% CACL. Well was drilled to a total depth of 6184 where 4-1/2" casing was set with stage tools at 4309 and 1545. Cemented first stage with 400 sacks type "C" cement containing 6% Gel and 2 lbs. medium tuf plug per sack follow by 100 sacks "C" neat cement. Cemented second stage with 500 sacks type "C" containing 6% gel and 2 lbs. medium tuf plug per sack followed by 50 sacks type "C" neat cement. Cemented third stage with 350 sacks type "C" containing 6% gel and 2 lbs. medium tuf plug per sack followed by 50 sacks type "C" neat cement. Displaced hole with water containing 2-1/2 lbs FR-8 per 1000 gallons water and 8% potassium chloride. Spot 500 gallons 7-1/2% acid. Perforated 6107-6127 with 4 shots per foot. Fractured with 36,620 gallons water treated as above and 30,000 lbs. 20-40 sand and 10,000 lbs. 10-20 sand. Breakdown pressure 1500, treating pressure 3300, average injection rate 62 BPM. Perforated 6020-6035 with 4 shots per foot. Fractured with 36,170 gallons water treated as above and 30,000 lbs 20-40 sand and 10,000 lbs 10-20 sand. Breakdown pressure 1250, treating pressure 3200, average injection rate 61 BPM. Drilled bridge plug and cleaned out to plug back depth. 2-3/8" tubing was landed at 6041 and on 4/25/66 well was completed as shut-in Basin Dakota Field Development Gas Well. On 5/6/66 well flowed 9528 tubing pressure flowing 744 casing pressure flowing 1352. Top pay Dakota 5976.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
LOG TOPS		
Pictured Cliffs	1448	
Lewis Shale	1610	
Mesaverde	3015	
Mancos	4215	
Gallup	5115	
Base Gallup	5680	
Green Horn	5910	
Greneros Shale	5976	
Greneros Dakota	6018	
Main Dakota	6102	

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