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.

5. LEASE DESIGNATION AND SERIAL NO.: SF 078904

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Gallegos Canyon Unit

8. FARM OR LEASE NAME:

9. WELL NO.: 230

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SW/4 SW/4 Section 23 T-28-N R-12-W

12. COUNTY OR PARISH: San Juan

13. STATE: New Mexico

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

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: 790' FSL and 1060' FWL
At top prod. interval reported below: Same
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
2-14-66	2-23-66	4-18-66	RDB 5742	-

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
6260	6225		→	Surface 6260	-

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 6138-6158, 6059-6069 Dakota

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Induction Electric Log, 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#	361	12 1/4"	225 sacks	None
4 1/2"	10.5#	6260	7 7/8"	500 sacks 1st stage 550 sacks 2nd stage 450 sacks 3rd stage	None

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"	6063	

31. PERFORATION RECORD (Interval, size and number)

6138-6158 4 shots per foot

6059-6069 6 shots per foot

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6138-6158	500 gallons 7 1/2% acid 43,496 gallons water, 40,000 lbs sand
6059-6069	34,440 gallons water, 30,000 lbs sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
4-18-66	Flowing	Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4-27-66	3 hr	3/4"	→		488		

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
316	821	→		3905		

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

TEST WITNESSED BY:

RECEIVED MAY 18 1966 OIL CON. COM. DIST. 3

35. LIST OF ATTACHMENTS:

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

ORIGINAL SIGNED BY D. I. TOLLEFSON

SIGNED D.I. Tollefson TITLE Administrative Assistant DATE May 9, 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.)

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			
			GCU No. 230
			Well was spudded 2-14-66 and drilled to a total depth of 361' where 8 5/8" casing was set with 225 sacks "A" cement containing 2% Cacl. Well was drilled to a total depth of 6260' and 4 1/2" casing was set at that depth with stage tools at 4390' and 1788'. Cemented first stage with 400 sacks Type "C" cement containing 6% GEL and 2 lbs medium Tuf Plug per sack followed 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 400 sacks Type "C" containing 6% GEL and 2 lbs medium Tuf Plug per sack followed by 50 sacks Type "C" neat cement. Displaced casing with water containing 6% Potassium Chloride and 2 1/2% lbs. J-100 per 1,000 gallons water and spotted 500 gallons 7 1/2% acid. Perforated 6138-6158 with 4 shots per foot. Fractured with 43,496 gallons water treated as above and 30,000 lbs 20-40 sand and 10,000 lbs 10-20 sand. Breakdown pressure 3600, treating pressure 3200, average injection rate 53. BPM. Perforated 6059-6069 with 6 shots per foot and fractured with 34,400 gallons water treated as above and 25,000 lbs 20-40 sand and 5,000 lbs 10-20 sand. Breakdown pressure 3525, treating pressure 3300, average injuection rate 48 BPM. Drilled bridge plug at 6100. 2 3/8" Tubing was landed at 6063' and on 4/18/66 well was completed as Basin Dakota Field Development Gas Well. On 4-27-66 well flowed at 3905 MCF, tubing pressure flowing 316', casing pressure flowing 821', Top pay Dakota 6029.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Log Tops		
Pictured Cliffs	1547	
Lewis Shale	1740	
Mesaverde	3125	
Mancos	4280	
Gallup	5171	
Base Gallup	5730	
Green Horn	5950	
Greneros Shale	6030	
Greneros Dakota	6059	
Main Dakota	6130	

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