Form 9-330
(Rev. 5-63)

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: NM-028226-C

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: J. F. Bell

9. WELL NO.: 2

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: NW/4 NE/4 Section 3, T-30-N, R-13-W

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: P. O. Box 480, Farmington

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1050' FNL & 1620' 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
9-7-66	9-18-66	10-7-66	5788' GL, 5800' RKB	---

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
6681'	6631'		→	Surf. to 6681'	---

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
6416-26', 6472-80', 6488-94', 6510-30' Greenhorn Dakota
6594-6612' Main Dakota

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN

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#	354'	12-1/4"	225 sacks	None
4-1/2"	10.5#	6681'	7-7/8"	525 sacks - 1st Stage	None
				650 sacks - 2nd stage	
				475 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"	6626'	

31. PERFORATION RECORD (*Interval, size and number*)
6594-6612' 3 shots per foot
6416-6426' 3 shots per foot
6472-6480' 3 shots per foot
6488-6494' 3 shots per foot
6510-6530' 3 shots per foot

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6594-6612'	76,230 gal. water, 30,000 lbs. 20-40 sand; 10,000 lbs. 10-20 sa
6416-6530'	62,219 gal. water, 30,000 lbs. 20-40 sand, 10,000 lbs. 10-20 sa

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
10-7-66	Flowing	Shut in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10-17-66	3	3/4"			603		

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
300 psig	1137 psig			4820		

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

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. (CRIGINAL SIGNED BY C. W. Eaton, Jr.) TITLE Area Engineer DATE December 24, 1966

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

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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.)

J. F. Ball No. 2

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 CORES			
NO DST			

WELL HISTORY

Well was spudded 9-7-66 and drilled to a depth of 354' where 8-5/8" casing was set with 225 sacks Type "A" cement containing 2% calcium chloride. Well was drilled to a depth of 6681' where 4-1/2" casing was set at 6681' with DV tools set at 4664' and 2055'. Cemented first stage with 425 sacks Type "C" cement with 6% Gel and 2 lbs. sodium Tuf Plug per sack followed with 100 sacks Type "C" Neat. Circulated 5 barrels cement and contaminated mud. Cemented second stage with 475 sacks Type "C" cement with 6% Gel and 2 lbs. sodium Tuf Plug per sacks followed with 50 sacks Type "C" Neat. Circulated 190 barrels contaminated mud and cement. Cemented third stage with 425 sacks Type "C" cement with 6% Gel and 2 lbs. sodium Tuf Plug per sack followed by 50 sacks Type "C" Neat. Circulated 35 barrels cement. Cleaned out and circulated casing clean. Perforated Main Dakota 6594-6612' with 3 SPF. Sand-water fracked with 76,230 gallons water treated with 0.8% potassium chloride and 2-1/2 lbs. FR-2 per 1000 gallons and 30,000 lbs. 20-40 sand and 10,000 lbs. 10-20 sand. Breakdown pressure 2400 psi. Average treating pressure 3500 and AIR 34.9 BPM. Perforated Graneros Dakota 6416-28', 6472-80, 6488-94', & 6510-30' with 3 SPF. Well communicated with 700 psi on casing. Sand-water fracked with 62,219 gallons water treated as above with 50,000 lbs. 20-40 sand and 10,000 lbs. 10-20 sand. No breakdown pressure. Average treating pressure 3300 psi and AIR 41.1 BPM. Dropped 20 ball sealers after 30,000 lbs. sand and 20 ball sealers after 40,000 lbs. sand. 2-3/8" tubing landed at 6626' and on 10-7-66 well was completed as a Main Dakota Field flowing gas well. Potential tested 4820 MCFD THROUGH a 3/4" choke with tubing pressure flowing 389 and casing pressure flowing 1137.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Log Tops		
Sand & Shale	0	1856
Pictured Cliffs	1856	2040
Lewis Shale	2040	3560
Mesaverde	3560	4560
Mancos Shale	4560	5541
Gallup	5541	5814
Base Gallup	5814	6244
Greenhorn	6244	6363
Graneros Shale	6363	6413
Graneros Dakota	6413	6500
Main Dakota	6500	6590
Lower Dakota	6590	6681