

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

SF 078109

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Gallegos Canyon Unit

8. FARM OR LEASE NAME

" " "

9. WELL NO.

221

10. FIELD AND POOL, OR WILDCAT

Basin Dakota11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA**SE/4 NE/4, Sec. 31, T29N,
R12W**12. COUNTY OR
PARISH**San Juan**

13. STATE

New Mexico

1a. TYPE OF WELL:

OIL
WELL ☐GAS
WELL ☒DRY ☐

Other

RECEIVED

b. TYPE OF COMPLETION:

NEW
WELL ☒WORK
OVER ☐DEEP-
EN ☐PLUG
BACK ☐DIFF.
RESVR. ☐

Other

APR 18 1966

2. NAME OF OPERATOR

Pan American Petroleum Corporation

3. ADDRESS OF OPERATOR

Security Life Building, Denver, Colorado 80202U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface **2445 FNL and 1690 FNL, Unit Letter G, T29N, R12W**

At top prod. interval reported below

SE/4 NE/4, Sec. 31

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

2-18-66

16. DATE T.D. REACHED

2-27-66

17. DATE COMPL. (Ready to prod.)

3-22-66

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

MD 5601 GL 5589

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

6193

21. PLUG, BACK T.D., MD & TVD

613922. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

Surface-6193

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

6098-6118, 6132-6142, 6013-6028, 6044-6053 (Dakota)25. WAS DIRECTIONAL
SURVEY MADE**No**

26. TYPE ELECTRIC AND OTHER LOGS RUN

Induction Electric Gamma Ray Sonic Cement Bond Log

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#	347	12 1/4"	225 sacks	None
4 1/2"	10.5#	6193	7 7/8"	500 sacks 1st stage	None
				550 sacks 2nd stage	
				450 sacks 3rd stage	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	6019	

31. PERFORATION RECORD (Interval, size and number)

**6098-6118, 6132-6142-2 shots
per foot.****6013-6028, 6044-6053 - 2 shots per foot**

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6098-6142	500 gal 7 1/2 acid
	58,440 Gas Water, 50,000 LB Sand
6013-6053	47,966 Gas water, 40,000 LB Sand

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
3-22-66		Flowing				Shut In	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3-30-66	3 hr.	3/4	→		860		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL—WATER RATIO (CORR.)	
548	1122	→		6878			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

To be Sold to El Paso Natural Gas Co.

TEST WITNESSES

35. LIST OF ATTACHMENTS

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

Signed By
R. H. BEERS

SIGNED

R. H. Beers

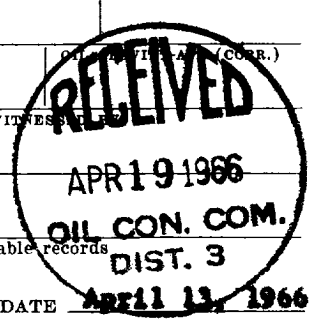
TITLE

Administrative Assistant

DATE

April 13, 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.)

Gallegos Canyon Unit #221

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 Drill Stem Test			
SUPPLEMENTARY WELL HISTORY			
Well was drilled to 347' and 8 5/8" casing was set with 225 sacks Type A cement containing 3% Cactl. Drilled to 6193' and 4 1/2" casing was set at 6193 with stage tools set at 4288 and 1696. Cemented first stage with 400 sacks Class "C" cement containing 6% gel and 2 lbs medium tuf plug per sack and 100 sacks type "C" neat cement. Cemented second stage with 500 sacks class "C" cement containing 6% gel and 2 lbs medium tuf plug per sack and 50 sacks class "C" neat cement. Cemented third stage with 400 sacks type "C" cement containing 6% gel and 2 lbs. medium tuf plug per sack and 50 sacks type "C" neat. Displaced casing with water containing .8% KCL and 2 1/2 lbs. FR-2 per 1000 gallons. Spotted 500 gal 7 1/2% acid. Perforated 6098-6118 and 6132-6142 with 2 shots per foot. Fracked with 55,440 gal water containing .8% KCL and 2 1/2 lbs. FR-2 per 1000 gallons and 40,000 lbs. 20-40 sand and 10,000 lbs. 10-20 sand. Breakdown pressure 1475. Treating pressure 3500, average injection rate 43 BPM. Bridge plug set at 6080. Perforated 6013-6028 and 6044-6053 with 2 shots per foot. Fracked with 47,966 gallons water treated as above and 30,000 lbs. 20-40 sand and 10,000 10-20 sand. Treating pressure 3500, Average injection rate 52 BPM. 2 3/8" tubing landed at 6019. Completed as shut in Basin Dakota gas well 3-22-66. On 3-30-66 well flowed at 6878 MCFD. TFF 548, CFF 1122. Top Pay Dakota 5970.			

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Low Type			
Pictured Cliffs	1460		
Lewis Shale	1650		
Meadwilde	3060		
Mancos	4220		
Gallup	5130		
Base Gallup	5695		
Greenhorn	5905		
Greenhorn Shale	5959		
Greenhorn Dakota	6010		
Main Dakota	6092		