NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company	Address
PAN AMERICAN PETROLEUM CORPORATION	P. O. Box 480, Farmington, New Mexico

Lease	Well No.	Unit Letter	Section	Township	Range
Jaquez Gas Unit "B"	1	K	4	T-29-N	R-9-W

Date Work Performed	Pool	County
	Blanco Mesaverde	San Juan

THIS IS A REPORT OF: *(Check appropriate block)*

☐ Beginning Drilling Operations ☐ Casing Test and Cement Job ☐ Other *(Explain)*:

☐ Plugging ☒ Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

Moved in workover rig 9-24-64. Killed well with water and pulled tubing. Ran gauge ring, then set bridge plug at 3775. Tested 7" casing, liner hangar and bridge plug with 2000 psi. Test OK. Perforated 7" casing with 4 shots 2257-2258. Established injection rate in 7" at 6-1/2 BPM at 600 psi and 8 BPM at 750 psi. Pumped in total of 200 barrels water with no change in blow from bradenhead. Set retainer at 2125 and squeezed with 200 sacks cement. Maximum pressure 500 psi; failed to squeeze. Resqueezed with 200 sacks cement. Maximum pressure 1000 psi and final 500 psi; failed to squeeze. Resqueezed with 200 sacks cement. Maximum pressure 2000 psi and final 1600 psi; squeeze job OK. Perforated 7" casing at 1143-44 with 4 shots and established circulation to surface. Set retainer at 1030. Cemented with 260 sacks cement containing 4% gel and 2 pounds tuf plug per sack, followed by 260 sacks cement. Cement circulated to surface and squeezed 4 barrels cement into perfs. After waiting on cement, drilled out cement and retainers set at 1030 and 2125. Ran bit to top of liner at 3685 and circulated casing clean with water. Ran tubing and casing scraper and scraped casing perforations 1143-44 and 2257-58. Set two stressed steel liners at 2252.5-62.5 and 1138.5-48.5. Drilled out bridge plug and blew hole dry. 2-3/8" tubing landed at 4556. Repair operations completed 10-2-64 and well returned to production.

Witnessed by	Position	Company

FILL IN BELOW FOR REMEDIAL WORK REPORTS *ONLY*

ORIGINAL WELL DATA

D F Elev.	T D	PBTD	Producing Interval	Completion Date
5306	4600			10-8-51

Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth
2-3/8"	4224	7"	3800

Perforated Interval(s): 4582-4171 and 4124-3830.

Open Hole Interval	Producing Formation(s)
3800-4600	Mesaverde

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover	No Test Taken					
After Workover	No Test Taken					

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OIL CONSERVATION COMMISSION

Approved by: Emery C. Arnold

Title: Supv. Dist. #3

Date: 11-2-64

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name: Fred L. Nabors, District Engineer

ORIGINAL SIGNED BY
F. H. HOLLINGSWORTH

Position:

Company: PAN AMERICAN PETROLEUM CORPORATION

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NEW MEXICO OIL CONSERVATION COMMISSION

MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 12-1-55

Pool: Basin Dakota	Formation: Dakota		County: San Juan
Initial: X	Annual:	Special:	Date of Test: June 16, 1965
Company: Pan American Petroleum Corporation	Lease: Jaquez Gas Unit "B"		Well No.: 3
Unit: K	Sec.: 4	Twp.: 29-N	Range: 9-W
Purchaser:			
Casing: 4-1/2"	Wt.: 10.50	I.D.: 4.052	Set at: 6705'
Perf.: 6530-46'	To: 6622-48'		
Tubing: 2-3/8"	Wt.: 4.70	I.D.: 1.995	Set at: 6535'
Perf.: 6498'	To: 6504'		
Gas Pay: From: 6530'	To: 6648'	L: 6589'	G: .700
GL: 4612'	Bar. Press.: 12		
Producing Through: Casing	Tubing: X	Type Well — Single — Braden head — G.G. or G.O. Dual: Single	
Date of Completion: April 15, 1965	Packer: None	Reservoir Temp.:	

OBSERVED DATA

Tested Through: Prover ☐ Choke ☒ Meter ☐ Type of Taps:

No.	FLOW DATA (Line) Size	(Choke) Size	Press. psig.	Diff. h_w	Temp. °F.	TUBING DATA Press. psig.	Temp. °F.	CASING DATA Press. psig.	Temp. °F.	DURATION OF FLOW HR.
SI	62 days					1938		1917		
1.	2 Inch	.750	276			276	60° Est	712	60° Est	3 hour
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCF P D @ 15.025 psia
1.	12.2650		288	1.000	.9258	1.034	3489
2.							
3.							
4.							
5.							

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PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ $(1-e^{-S})$ _____
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1940 P_c^2 3,763,600

No.	P_w / P_t psia	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-S})$	P_w^2	$P_c^2 - P_w^2$	Cal P_w	$\frac{P_w}{P_c}$
1.						526,176	3,237,424		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: 3813 MCFPD; n .75

COMPANY Pan American Petroleum Corporation WITNESSED _____

ADDRESS Box 480, Farmington, New Mexico COMPANY _____

AGENT AND TITLE Fred L. Nabors, District Engineer

Fred L. Nabors