

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 Pan American Petroleum Corporation		Address Box 480, Farmington, New Mexico				
Lease State Oil Unit	Well No. 1	Unit Letter M	Section 32	Township T-29-N	Range R-13-W	
Date Work Performed	Pool Cha Cha Gallup		County San Juan			
THIS IS A REPORT OF: (Check appropriate block)						
<input type="checkbox"/> Beginning Drilling Operations		<input checked="" type="checkbox"/> Casing Test and Cement Job		<input checked="" type="checkbox"/> Other (Explain): Core result		
<input type="checkbox"/> Plugging		<input type="checkbox"/> Remedial Work				
Detailed account of work done, nature and quantity of materials used, and results obtained. Core No. 1 5580-5639' Gallup -- Recovered 591 as follows: 3' shale and occasional thin sand partings; 12' sand good odor and bleed, fair to good porosity, permeability, friable, tighter sand 5593-5595, vertically fractured 5584-5585'; 2' sandy shale; 42' shale with occasional sand partings. Core No. 2 5639-5653' Gallup -- Recovered 13' as follows: 4' shaly to sandy shale; 7' shaly sand, tight, good odor, fractured; 2' fractured shale. Total depth 5745' 4-1/2" casing set at 5740' with 175 sacks 6 percent gel cement with 1-1/2 pound medium tuf plug per sack followed by 75 sacks neat. Tested casing 3000 psi. Test ok. Stage collar at 1826'. Wait on cement four hours. Cement second stage with 150 sacks 6 percent gel cement. Test casing 3000 psi. Test ok. Completion operations begun.						
Witnessed by		Position		Company		
FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY						
ORIGINAL WELL DATA						
D F Elev.	T D	P B T D		Producing Interval	Completion Date	
Tubing Diameter		Tubing Depth		Oil String Diameter	Oil String Depth	
Perforated Interval(s)						
Open Hole Interval			Producing Formation(s)			
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						
After Workover						
OIL CONSERVATION COMMISSION				I hereby certify that the information given above is true and complete to the best of my knowledge.		
Approved by Original Signed Emery C. Arnold				Name ORIGINAL SIGNED BY R. M. Bauer, Jr.		
Title Supervisor Dist. # 3				Position Senior Petroleum Engineer		
Date MAR 2 1 1961				Company Pan American Petroleum Corporation		

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE. If State Land submit 6 Copies

AREA 640 ACRES
LOCATE WELL CORRECTLY

Pan American Petroleum Corporation
(Company or Operator)

State Oil Unit
(Lease)

Well No. 1, in SW $\frac{1}{4}$ of SW $\frac{1}{4}$, of Sec. 32, T. 29-N, R. 13-W, NMPM.
Cha Cha Gallup Pool, San Juan County.

Well is 660 feet from South line and 660 feet from West line
of Section 32. If State Land the Oil and Gas Lease No. is E - 9230

Drilling Commenced February 28, 19 61 Drilling was Completed March 12, 19 61

Name of Drilling Contractor Brinkerhoff Drilling Company

Address 870 Denver Club Building, Denver, Colorado

Elevation above sea level at Top of Tubing Head 5833' The information given is to be kept confidential until
Not Confidential, 19 61

OIL SANDS OR ZONES

No. 1, from 5587 to 5594 No. 4, from _____ to _____
No. 2, from 5645 to 5652 No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet.
No. 2, from _____ to _____ feet.
No. 3, from _____ to _____ feet.
No. 4, from _____ to _____ feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
<u>8-5/8"</u>	<u>20#</u>	<u>New</u>	<u>201</u>	<u>Guide</u>			<u>Surface</u>
<u>4-1/2"</u>	<u>9.5#</u>	<u>New</u>	<u>5760</u>	<u>Guide</u>			<u>Oil String</u>

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
<u>12-1/4"</u>	<u>8-5/8"</u>	<u>211</u>	<u>175</u>	<u>BJ-1 Plug</u>		
<u>7-7/8"</u>	<u>4-1/2"</u>	<u>5760</u>	<u>375</u>	<u>Halliburton-2 Plug</u>		

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

Perforated Lower Gallup 5645-5652' with 6 shots per foot. Fracked with 14,100 gallons oil with 1/40 pound Adomite Mark II per gallon and 10,000 pounds sand. Breakdown 2000 psi. Average treating pressure 2700 psi, average injection rate 30 barrels per minute.

Perforated Upper Gallup 5587-5594' with 6 shots per foot. Fracked with 23,350 gallons oil with 1/20 pound Adomite Mark II per gallon, 5 gallons FR-1 per 1000 gallons, and 20,000 pounds sand. Breakdown 1200 psi, average treating pressure 2750 psi, average injection rate 27 barrels per minute. Tubing landed at 5673'.

Result of Production Stimulation Potential test 184 barrels oil per day through 19/64" choke.

Depth Cleaned Out 5702'

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from 0 feet to 5745 feet, and from feet to feet.
Cable tools were used from feet to feet, and from feet to feet.

PRODUCTION

Put to Producing March 23, 1961 Date first new oil produced.

OIL WELL: The production during the first 24 hours was 184 barrels of liquid of which 99.7 % was
was oil; % was emulsion; % water; and .3 % was sediment. A.P.I.
Gravity 42.4

GAS WELL: The production during the first 24 hours was M.C.F. plus barrels of
liquid Hydrocarbon. Shut in Pressure lbs.

Length of Time Shut in

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico

T. Anhy.
T. Salt.
B. Salt.
T. Yates.
T. 7 Rivers.
T. Queen.
T. Grayburg.
T. San Andres.
T. Glorieta.
T. Drinkard.
T. Tubbs.
T. Abo.
T. Penn.
T. Miss.

T. Devonian.
T. Silurian.
T. Montoya.
T. Simpson.
T. McKee.
T. Ellenburger.
T. Gr. Wash.
T. Granite.
T.
T.
T.
T.
T.

Northwestern New Mexico

T. Ojo Alamo 202
T. Kirtland-Fruitland 250
T. Farmington - -
T. Pictured Cliffs 1563
T. Menefee 2523
T. Point Lookout 4057
T. Mancos 4318
T. Dakota
T. Morrison
T. Penn.
T.
T.
T.

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	202	202	Surface sands and shales				
202	250	48	Ojo Alamo sand and shale				
250	1563	1313	Kirtland-Fruitland sands shale and coals				
1563	1730	167	Pictured cliffs sand and shale				
1730	2481	751	Lewis sand and shale				
2481	2523	42	Cliffhouse sand and shale				
2523	4057	1534	Menefee sand and shale				
4057	4318	261	Point lookout sand and shale				
4318	5233	915	Mancos sand and shale				
5233	5583	350	Gallup sand and shale				
5583	5745	162	Gallup pay sands				
(tops from E log)							

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far
as can be determined from available records.

Farmington, New Mexico March 27, 1961
(Date)

Company or Operator Pan American Petroleum Corporation Address Box 480, Farmington, New Mexico

Name Title Senior Petroleum Engineer