

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

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

COMPANY Pan American Petroleum Corporation Box 487, Farmington, New Mexico
(Address)

LEASE Jaques Gas Unit "A" WELL NO. 2 UNIT E S 5 T29 N R9 W
DATE WORK PERFORMED _____ POOL Blanco-Pictured Cliffs

This is a Report of: (Check appropriate block) ☐ Results of Test of Casing Shut-off
☐ Beginning Drilling Operations ☐ Remedial Work
☐ Plugging ☒ Other Supplementary Well History

Detailed account of work done, nature and quantity of materials used and results obtained.
On May 16, 1957, this well was spudded, and on May 17, 1957, 8-5/8" casing was set at 299' and cemented with 240 sacks of cement. After waiting on cement for 24 hours, casing and water shut off were tested with 500 pounds for 30 minutes with no drop in pressure.

On May 21, 1957, 5-1/2" casing was set at 2329' with 180 sacks cement followed by 50 sacks of cement. After waiting on cement for 7 days, casing and water shut off were tested with 800 pounds for 20 minutes with no drop in pressure. Completion operations were begun.

On May 28, 1957, this well was perforated with 4 shots per foot 2216-38, 2244-72. These perforations were sand water fracked with 23,100 gallons water and 35,000 pounds sand. Formation broke at 2000 pounds pressure. Average injection rate 44.8 barrels per minute. Injected 50 rubber balls midway thru treatment. Preliminary test 3954 MCFPD.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____
Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____
Perf Interval (s) _____
Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

Date of Test _____
Oil Production, bbls. per day _____
Gas Production, Mcf per day _____
Water Production, bbls. per day _____
Gas-Oil Ratio, cu. ft. per bbl. _____
Gas Well Potential, Mcf per day _____
Witnessed by _____



BEFORE	AFTER
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

OIL CONSERVATION COMMISSION

Original Signed By
Name A. R. KENDRICK
Title PETROLEUM ENGINEER DIST. NO. 3
Date JUN 11 1957

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

Name [Signature]
Position Field Clerk
Company Pan American Petroleum Corporation

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco-Pictured Cliff Formation Pictured Cliff County Santa Juan
Initial X Annual _____ Special _____ Date of Test 6-2-57
Company PAN AMERICAN PETROLEUM CORP. Lease Jaguar Gas Unit #4 Well No. 1
Unit 1 Sec. 5 Twp. 23N Rge. 7W Purchaser None
Casing 3 1/2" Wt. 14.7 I.D. 3.012 Set at 2329 Perf. 2324 To 2372
Tubing 1 3/4" Wt. 2.37 I.D. 1.390 Set at 2344 Perf. 2337 To 2343
Gas Pay: From 2320 To 2324 L 2372 xG .45 -GL 1476 Bar.Press. 12,000
Producing Thru: Casing X Tubing _____ Type Well Single Well
Single-Bradenhead-G. G. or G.O. Dual _____
Date of Completion: 5-22-57 Packer _____ Reservoir Temp. 92° F

OBSERVED DATA

Tested Through (Prover) (Choke None) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	<u>3000 In</u>	<u>24 days</u>						<u>1073</u>		
1.		<u>0.75"</u>	<u>289</u>		<u>66</u>					<u>1</u>
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-MCFPD @ 15.025 psia
1.	<u>12,350</u>		<u>301</u>	<u>1.000</u>	<u>0.908</u>	<u>1.001</u>	<u>1,487</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-S})

Specific Gravity Separator Gas .45 act
Specific Gravity Flowing Fluid _____
P_c 1045 P_c 1090.025

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	P _w P _c
1.						<u>91,601</u>	<u>1001,151</u>		<u>0.388</u>
2.									
3.									
4.									
5.									

Absolute Potential: 3,769 MCFPD: n .05
COMPANY PAN AMERICAN PETROLEUM CORPORATION
ADDRESS Box 407, Farmington, New Mexico
AGENT and TITLE A. H. Smith, Jr., Field Engineer R. M. Baker, Jr.
WITNESSED _____
COMPANY _____

REMARKS



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia

P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressibility factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

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NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form O-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 5 Copies

AREA 840 ACRES
LOCATE WELL CORRECTLY

Pan American Petroleum Corporation **Jacquez Gas Unit A**
(Company or Operator) (Lease)

Well No. **2**, in **SW** $\frac{1}{4}$ of **NW** $\frac{1}{4}$ of Sec. **5**, T. **-29-N**, R. **-9-W**, **BLMFM**,
Blanco-Pictured Cliffs Pool, **San Juan** County.

Well is **1530** feet from **North** line and **690** feet from **West** line
of Section **5**. If State Land the Oil and Gas Lease No. is _____

Drilling Commenced **May 16**, 19 **57** Drilling was Completed **May 29**, 19 **57**

Name of Drilling Contractor **Sage Drilling Company**
Address **Box 788, San Angelo, Texas**

Elevation above sea level at Top of Tubing Head **5657** The information given is to be kept confidential until
Not confidential, 19 _____

OIL SANDS OR ZONES

No. 1, from **2210** to **2332 Gas** No. 4, from _____ to _____
No. 2, from _____ to _____ 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 **1" water flow encountered at 800'** 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
8-5/8	22.7	New	299'	Guide			Surface
5-1/2	14#	New	2329'	Guide			Oil String

MUDDING AND CEMENTING RECORD

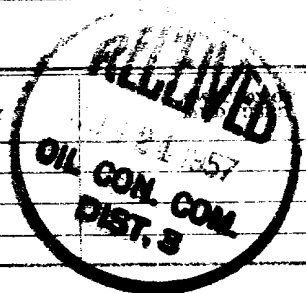
SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY
12-1/4"	8-5/8"	303	240	Halliburton 2 plug	
7-7/8"	5-1/2"	2329	230	Halliburton 2 plug	

RECORD OF PRODUCTION AND STIMULATION

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

This well was perforated with 4 shots per foot 2216-38, 2244-72. These perforations were sand water fracked with 23,100 gallons water and 35,000 pounds sand. Formation broke at 2000 pounds. Average injection rate 44.8 barrels per minute. Injected 50 rubber balls midway thru treatment. Preliminary test 3954 MCFPD.

Result of Production Stimulation _____
Depth Cleaned Out _____



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 2330 feet, and from feet to feet.
Cable tools were used from feet to feet, and from feet to feet.

PRODUCTION

Put to Producing, 19

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

GAS WELL: The production during the first 24 hours was 3954 M.C.F. plus barrels of
liquid Hydrocarbon. Shut in Pressure lbs. (Not available)
Length of Time Shut in (Not available)

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

Southeastern New Mexico

Northwestern New Mexico

T. Anhy	T. Devonian	T. Ojo Alamo
T. Salt	T. Silurian	T. Kirtland-Fruitland
B. Salt	T. Montoya	T. Farmington
T. Yates	T. Simpson	T. Pictured Cliffs
T. 7 Rivers	T. McKee	T. Menefee
T. Queen	T. Ellenburger	T. Point Lookout
T. Grayburg	T. Gr. Wash	T. Mancos
T. San Andres	T. Granite	T. Dakota
T. Glorieta	T.	T. Morrison
T. Drinkard	T.	T. Penn.
T. Tubbs	T.	T.
T. Abo	T.	T.
T. Penn.	T.	T.
T. Miss.	T.	T.

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1020	1020	Surface sand & shale & Animas shales				
1020	1182	162	Ojo Alamo sandstone				
1182	1830	648	Kirtland-Farmington sand & shales.				
1830	2210	380	Fruitland-sands, shales & coals.				
2210	2330	120	Pictured Cliffs sandstone.				

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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.

June 7, 1957

Company or Operator Pan American Petroleum Corporation Address Box 487, Farmington, New Mexico
Name L. J. Jewett, Jr. Position or Title Field Superintendent

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-104)
(Revised 7/1/52)

REQUEST FOR ~~(Oil)~~ - (GAS) ALLOWABLE

New Well
~~XXXXXXXXXX~~

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Farmington, New Mexico June 7, 1957
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS Pan American Petroleum Corporation Jaguar Gas Unit "A" Well No. 2 in SW $\frac{1}{4}$ NW $\frac{1}{4}$,
(Company or Operator) (Lease)

E Sec. 5 T-29-N R. -9-W NMPM, Blanco-Pictured Cliffs Pool
Unit Letter

San Juan County. Date Spudded May 16, 1957 Date Completed May 29, 1957

Please indicate location:

D	C	B	A
E X	F	G	H
L	K	J	I
M	N	O	P

Elevation 5657 Total Depth 2339 P.B. 2281

Top oil/gas pay 2211 Name of Prod. Form Pictured Cliffs

Casing Perforations: See Below or

Depth to Casing shoe of Prod. String 2329

Natural Prod. Test BOPD

based on bbls. Oil in Hrs. Mins.

Test after acid or shot BOPD

Based on bbls. Oil in Hrs.

Gas Well Potential 3954 MCPPD (Preliminary test)

Size choke in inches 2" Outlet

Date first oil run to tanks or gas to Transmission system:

Transporter taking Oil or Gas: El Paso Natural Gas Company

Section 5

Casing and Cementing Record
Size Feet Sax

<u>8-5/8"</u>	<u>299'</u>	<u>240</u>
<u>5-1/2"</u>	<u>2329'</u>	<u>230</u>
<u>1-1/4"</u>	<u>2265'</u>	

Remarks: Includes 2329' of 5-1/2" OD 5.012 ID 14 lb. casing, and 2265' of 1-1/4" ID 1.66" OD 2.3 pound tubing. Perforated with 4 shots per foot 2216-38, 2244-22. These perforations were sand water fracked with 23,100 gallons water and 35,000 pounds sand, and injected 50 rubber balls midway thru treatment. Formation broke at 2000 lbs. Average injection rate 44.8 barrels per minute. Preliminary test 3954 MCPPD complete to the best of my knowledge.

Approved JUN 11 1957, 19

OIL CONSERVATION COMMISSION

Original Signed By

By: A. R. KENDRICK

Title PETROLEUM ENGINEER DIST. NO. 3

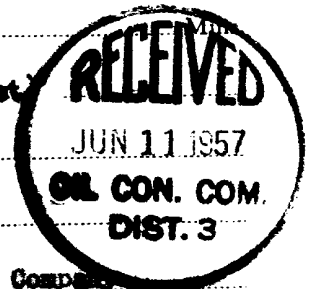
PAN AMERICAN PETROLEUM CORPORATION
(Company or Operator)

By: [Signature]
(Signature)

Title Field Clerk
Send Communications regarding well to:

Name PAN AMERICAN PETROLEUM CORPORATION

Address Box 487, Farmington, New Mexico



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NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator PAN AMERICAN PETROLEUM CORPORATION Lease Jacques Gas Unit #A8

Well No. 2 Unit Letter R S 5 T -29-N R -9-W Pool Elanco-Pictured Cliffs

County San Juan Kind of Lease (State, Fed. or Patented) Patented

If well produces oil or condensate, give location of tanks: Unit S T R

Authorized Transporter of Oil or Condensate Pan American Petro. Corp. Eff. 2-1-71,

Address AMOCO PROD. CO. has changed its name to

(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas El Paso Natural Gas Company

Address Box 997, Farmington, New Mexico

(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well X

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership () Other ()

Remarks:

(Give explanation below)



The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 8th day of June 1957

By [Signature]

Approved [Signature] 1957

Title Field Clerk

OIL CONSERVATION COMMISSION

Company Pan American Petroleum Corp.

By Original Signed Emery C. Arnold

Address Box 487, Farmington, New Mexico

Title Supervisor Dist. # 3

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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Unlabeled	<u>1</u>	<input checked="" type="checkbox"/>