

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. SF-077968
Unit C. J. Holder

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY (core & frac)	X
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

C. J. Holder

Farlington, New Mexico June 20, 19 61

Well No. 14 is located 810 ft. from S line and 210 ft. from W line of sec. 16

SE/4, SW/4 of Section 16 T-28-N R-15-W N.E.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Cha Cha Gallup San Juan New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. (To be reported later.)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Core No. 1. 5672-5685' Gallup. Recovered 13' as follows: 2' sandy shale, 5' shale, 1' sandy shale, 1' Bentonite, 5' shale, 1' sandy shale. Highly fractured and broken throughout.

Core No. 2. 5685-5705' Gallup. Recovered 20' as follows: 1/2' black shale, 10-1/2' sand good porosity and permeability 5687-5691'. Vertically fractured throughout, 9' black sand, bentonite shale at 5701'.

Core No. 3. 5705-5745'. Recovered 40' as follows: 28' shale with occasional scattered sandy shale particles, 12' shaly sand with oil and gas bleed throughout with vertical fractures.

4-1/2" casing set at 5833' with 125 sacks 6 percent gel cement containing 2-1/2 pounds

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced (see reverse side)

Company Pan American Petroleum Corporation

Address Box 480

Farlington, New Mexico

Attn: L. O. Speer, Jr.

By _____
Title Senior Petroleum Engineer

JUN 22 1961
OIL CON. DIST.

tuf plug per sack followed by 75 sacks neat. Tested 4-1/2" casing to 3000 psi. Test ok.

Perforated Lower Gallup with 4 shots per foot 5735-5749'. Fracked these perforations with 10,100 gallons oil containing 25 pounds Adomite Mark II with 8 gallons J-105 per 1000 gallons and 10,000 pounds sand. Pressures were: Breakdown 1800 psi, maximum treating 2800 psi, minimum treating 2500 psi. Average injection rate 30 barrels per minute.

Set retrievable bridge plug at 5720'.

Perforated Upper Gallup with 6 shots per foot 5686-5692'. Fracked these perforations with 20,000 gallons oil containing 50 pounds Adomite Mark II and 8 gallons J-105 per 1,000 gallons and 20,000 pounds sand. Pressures were: Breakdown 2600 psi, maximum treating 3200 psi, minimum treating 2700 psi. Average injection rate 28 barrels per minute. Retrieved bridge plug. Tubing landed at 5801'. Tested well. Producing rate would not stabilize.

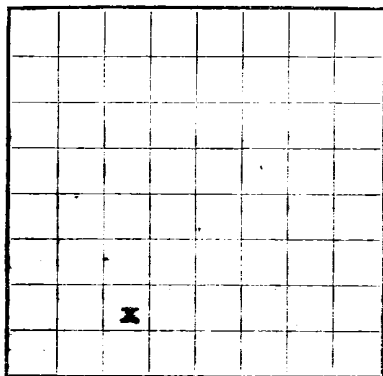
Set Retreivable Bridge Plug at 5725'.

Perforated with McCullough Triple Notch at 5689'. Fracked these perforations with 15,200 gallons oil containing 50 pounds Adomite Mark II and 8 gallons J-105 per 1000 gallons and 15,000 pounds sand. Pressures were: Breakdown 3300 psi, maximum treating 3400 psi, minimum treating 2950 psi. Average injection rate 24 barrels per minute. Landed tubing at 5707'. Currently testing well.

U. S. LAND OFFICE Santa Fe

SERIAL NUMBER SF-777968

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 480, Farmington, New MexicoLessor or Tract C. J. Holder Field Cha Cha Gallup State New MexicoWell No. 14 Sec. 16 T. 24N R. 13W Meridian N.M.P.M. County San JuanLocation 810 ft. N. of S Line and 2130 ft. E. of W Line of Section 16 Elevation 6074'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

R. M. Sayer, Jr.

Date July 13, 1961Title Senior Petroleum Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling May 25, 1961 Finished drilling June 5, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5735 to 5749 No. 4, from _____ to _____No. 2, from 5689 to 5692 No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____

No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8-5/8"	20#	8VT	C&I	197	Guide				Surface
4-1/2"	9.5#	8ET	C&I	5852	Guide				Oil string

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	208	110	Halliburton	2 plug	
4-1/2"	5833	200	Halliburton	2 plug	

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Completed as pumping Cha Cha Gallup well _____ Put to _____ oil produced _____, 1961The production for the first 24 hours was _____ barrels of fluid of which July 6 % was oil; 61 %emulsion; _____ % water; and _____ % sediment. 12.0 Gravity, °Bé. 49.8If gas well, cu. ft. per 24 hours 12 Gallons gasoline per 1,000 cu. ft. of gas 40.60

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller

Sam Kinney, Driller Jim Speaker, DrillerEarl Babcock, Driller Jim Babcock, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	264	264	Surface sands and shales.
264	358	94	Ojo Alamo sand.
358	1618	1260	Undifferentiated Kirtland-Fruitland sands, shales, and coals.
1618	1800	182	Pictured cliffs sand and shale.
1800	2586	786	Lewis shale.
2586	2634	48	Cliffhouse sand and shale.
2634	4143	1509	Mancos sands and shales, and coals.
4143	4433	290	Point lookout sands and shales.
4433	5330	897	Mancos shale.
5330	5662	332	Gallup sands and shales.
5662	5840	178	Gallup pay sands and shales.

(Tops from _____ log)

