

U.S. Law Office

SERIAL NUMBER **14-20-603-2198**

LEASE OR PERMIT TO PROSPECT

Hawaii Tribal

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company East American Petroleum Corporation Address 212 2nd, Farmington, New Mexico
 Person or Firm Samuel J. Tishler, Inc. Field Utah-Gallia State New Mexico
 Well No. 11 Sec. 14 T. 20N R. 10W Meridian N.M.P.M. County San Juan
 Location 2090 ft. S. of N. Line and 1840 ft. W. of E. Line of Section 14 Elevation 2204 (RDS)

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. Bauer, Jr.

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

Commenced drilling August 15, 1961 Finished drilling August 29, 1961

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____

No. 2, from 1919 to 1921, and No. 5, from 1922 to 1924.

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

IMPORTANT WATER SANDS

No. 1, from 1947-1951, Central - Personnel to No. 3, from ~~1947-1951~~ ¹⁹⁴⁷⁻¹⁹⁵¹ Personnel

No. 2, from 1942 to 1943 No. 4, from 1944 to 1945

PLACING 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"	22.74	S	Ampco	199	Gulda	Cut by hand			Surface
4-1/2"	8.50	6	Dynalene	199	Gulda	Cut by hand			Oil storage
HISTORICAL RECORD OF OIL FIELD LEFT									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	208'	180	Halliburton	1 plug	
4-1/2"	5031'	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 0 feet to 5035 feet, and from _____ feet to _____ feet

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

Completed as Totah Gallup Field Development well		DATES	First new oil	
September 11	1961	Put to producing	September 8	1961

Put to producing September 8, 1961

The production for the first 24 hours was 255 barrels of fluid of which 99.8 % was oil; ----- % emulsion; ----- % water; and .2 % sediment. Gravity, °Bé. 10.3° API

Gravity, °Bé. 40.3° API-----

If gas well, cu. ft. per 24 hours ----- Gallons gasoline per 1,000 cu. ft. of gas -----

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

----- **Vernar Buck** -----, Driller ----- **K. R. Euryan** -----, Driller

M. W. McDonald, Driller Pete Estes, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	813	813	Surface sands and shales including Kirtland, Farmington, and Fruitland zones.
813	1016	203	Pictured Cliffs.
1016	1777	761	Lewis shale.
1777	3614	1837	Mesaverde sands and shales.
3614	4533	919	Mancos shale.
4533	4903	370	Gallup sands and shales.
4903	5035	132	Gallup Pay sands and shales.
			(Tops from "B" log)

(Tops from "E" log)

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HISTORY OF OIL OR GAS WELL

Size Casing	Weight lb	Number sacks of cement	Method used	Mud gravity	Amount of mud used
2 1/2"	500	100	Hydraulic	1.10	
2 1/2"	500	100	Hydraulic	1.10	

PLUGS AND ADAPTERS

Depth set	Length	Material
		Leaving plug—Material
		Abutments—Material

SHOOTING RECORD

[illegible]

TOOLS USED

test	test	test	test	test	test
test	test	test	test	test	test

2371

11	19 51	Put to producing	19 51
12	19 51	Put to producing	19 51

The production for the first 24 hours was _____	
% water; and % sediment	Gravity, °Be. 10.10

Rock pressure, lbs. per sq. in.	_____
Gas well, cu. ft. per 24 hours	_____
Gallons gasoline per 1,000 cu. ft. of gas	_____

EMPLOYEES

Driller	James M. [unclear]
Driller	W. L. [unclear]

FORMATION RECORD

FORMATION	TOTAL FEET	TO	FROM
Surface sands and shales including Kirtland, Wellington, and Portland sands.	217	217	0
Unconsolidated shales.	203	420	217
Hard shales.	181	601	420
Massive shales and shales.	127	728	601
Massive shales.	92	820	728
Shale and shales.	67	887	820
Shale and shales.	13	900	887

(b)(7)(C), (b)(7)(D)

FORMATION RECORD—Continued