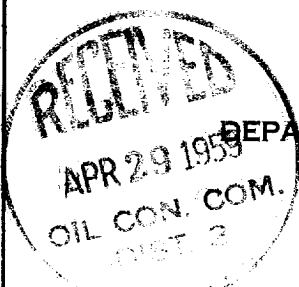


X									

Jicarilla Apache
Lease No. 64

U. S. LAND OFFICE _____
 SERIAL NUMBER _____
 LEASE OR PERMIT TO PROSPECT _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Continental Oil Company Address Box 3312, Durango, Colorado
Lessor or Tract Jicarilla Apache Field Wildcat State New Mexico
Well No. 20-2 Sec. 20 T. 25N R. 4W Meridian NMPM County Rio Arriba
Location 349 ft. $\left\{ \begin{array}{c} \text{N.} \\ \text{xx} \end{array} \right\}$ of S. Line and 596 ft. $\left\{ \begin{array}{c} \text{E.} \\ \text{W} \\ \text{xxx} \end{array} \right\}$ of W. Line of Sec. 20 Elevation 7314
(Derrick floor relative to mean 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 _____

Date April 21, 1959 Title District Superintendent

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

Commenced drilling February 2, 1959 Finished drilling March 9, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____
 No. 2, from _____ to _____ 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—	
13 3/8	48	8rd	H-40	99'	Weatherford				Surface Production
5 1/2	15.5	8rd	J-55	2139'	Baker	6860	6915		
5 1/2	14	8rd	J-55	4913'		6932	6980		

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	111' RB	175 reg.	Displacement		
5 1/2	7020' RB	445 reg. + 250 strato-crate	displacement		

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 7020 feet, and from _____ feet to _____ feet.

DATES

....., 19.....	Put to producing, 19.....
----------------	---------------------------------

April 21 59 The production for the first 24 hours was _____ barrels of fluid of which _____ March 30 59 % was oil: 59

Reduction: % water: and % sediment 67 Gravity °Bé 99 1

Gallons gasoline per ~~xxx~~ API 40.2 @ 60°

4-18-39, after testing: 41 BOPD, cut 1.2% BScd

EMPLOYEES

_____, Driller

_____, Driller Contractor: Aspen Drilling Co. _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
2830	3157	327	Ojo Alamo
3157	3532	375	Kirtland - Fruitland
3532	3608	76	Pictured Cliffs
3608	4410	802	Lewis
4410	5193	783	La Ventana
5193	5218	25	Cliff House
5218	5715	497	Mesafee
5715	5896	181	Point Lookout
5896	6759	863	Mancos
6759	7020	261	Gallup

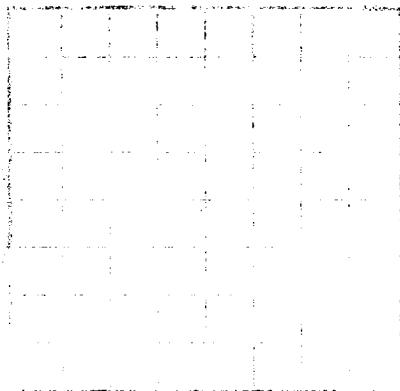
[OVER]

16—43094-4

WAB-ec
USGS(3), NMOC(2), REM, JBH

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
UNITED STATES



Spudded 2-2-59, drilled to 7020' TD, 6995' PD. Set & cemented casing as follows: 4 1/2", 13 3/8" casing @ 111' with 175 sacks regular; 2 1/2" production casing at 7020' with 2 stage collar at 3696', cemented through shoe with 320 sacks regular 2% gel mixed with 325 cu. ft. strata-crete and through collar with 125 sacks regular 2% gel mixed with 125 cu. ft. strata-crete. Corred 6875'-6947' and DST 6871'-6942', recovered 700' highly gas cut mud and 188' gas cut muddy water. Perforated with 4 jets per foot 6860-70', 6880-6915' and 6970-80' and with 8 jets per ft. 6880-80' and 6932-70'. Ran 2 7/8" tubing with RTTS packer at 6830' and acidized with 5000 gals. 7 1/2% MCA. Sand-oil traced as followed with 14,000 gals. crude with 1 lb. of sand per gal., 8,000 gals. crude with 1.5 lbs. sand per gallon, 8,000 gals. crude with 1.75# sand per gallon, and 18,000 gallons crude with 2 lbs. sand per gallon. Landed 2 7/8" tubing at 6836', swapped and released rotary rig 3-9-59. Installed pumping equipment, pumped back load oil and pumped well for test. TR 41 BOB, 9 SHM, 54 strokes, gravity 40.2 @ 600', cut 1.2% BSW, 300 1470/1. Completed as a pumping well in the Gallup formation.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

FROM		TO		TOTAL FEET		FORMATION	