

A blank 10x10 grid with a horizontal line across the middle. The letter 'x' is written in the bottom-left corner.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078525
LEASE OR PERMIT TO PROSPECT Pilgrim

UNITED STATES
DEPARTMENT OF THE INTERIOR

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company BENSON-MONTIN-GREER DRILLING Address 158 Petroleum Center Building
CORP. Farmington, New Mexico

Lessor or Tract Pilgrim Field Wildcat State New Mexico

Well No. 1 Sec. 35 T. 25N R. 8W Meridian N.M.P.M. County San Juan

Location 790 ft. N. of S Line and 890 ft. E. of W Line of Sec. 35 Elevation 7314

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.

Date November 9th, 1959 Title Vice-President

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

Commenced drilling February 13th, 1959. Finished drilling March 13th, 1959.

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 7012 to 7125 (G) 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. 2, from _____ to _____

No. 3, 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	11.1#	3	3-55	1271	Texas	7029	7039	Production	
5-1/2	15.5#	8	3-55	1271	Texas	7120	7125	Production	
							70-75004-3	U. S. GOVERNMENT PRINTING OFFICE	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	175 7266	120	Pump & Plug		
5-1/2"	7266	325	" " "		

PLUGS AND ADAPTERS

Heaving plug—Material None Length _____ Depth set _____
Adapters—Material None Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		None				

TOOLS USED

Rotary tools were used from Surface _____ feet to 7268 _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

DATES	
Ran Tubing April 16th, 1959	Potential Test Put to producing November 6th, 1959

The production for the first 24 hours was 17 barrels of fluid of which 100 % was oil; - % emulsion; - % water; and - % sediment. Gravity, °Bé. 42

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

Rock pressure, lbs. per sq. in. _____ Pumped 17 barrels of oil on 24-hour

EMPLOYEES test.

EMPLOYEES

Company tools	Driller		Driller
	Driller		Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			<u>ELECTRIC LOG TOPS</u>
			UPPER CRETACEOUS 2062'
			FRUITLAND 2375'
			PICTURED CLIFFS 2650'
			LEWIS 2743'
			MESAVERDE 3475'
			MENEFEE 3615'
			POINT LOOKOUT 4960'
			MANCOS 5134'
			GALLUP 6055'
			BASE GALLUP 6520'
			SANASTEE 6615'
			GREENHORN 6945'
			GRANEROS 6993'
			DAKOTA 7012'

PILGRIM #1 - WELL HISTORY

- 2-13-59 Moved in to set surface casing. Spudded.
- 2-15-59 TD 175' RKB. Set 5 joints 161' of 8-5/8" OD 24# J-55 casing at 175' with 120 sacks regular cement, circulated to surface.
- 2-17-59 Moved in rotary. Pressured up on casing to 500#. No pressure decrease in 30 minutes.
- 3- 9-59 Pulled Core #1 from 7018' to 7068'. Recovered 48½'. Core description attached.
- 3-11-59 Pulled Core #2 from 7219' to 7256'. Recovered 37'.
- 3-12-59 Pulled Core #3 from 7256' to 7268'. Recovered 11½'. Core description attached.
- 3-13-59 Ran ES and microlog. Ran 225 joints 7271' of 5-1/2" OD 15.5# J-55 casing to 7266'. Ran Baker Model J two-stage tool at 4993'. Cemented first stage with 275 sacks neat cement with ¼# flocele per sack and .4% by weight HR-4 retarder, followed by 50 sacks neat cement.
- 3-14-59 Ran temperature survey. Located top first stage at 5180'. Opened two-stage tool and cemented through tool with 100 sacks neat cement.
- 3-20-59 Moved in cable tools. Cleaned out to 7030'. Pressured up on casing to 1850#. No pressure decrease in 1-3/4 hours.
- 3-24-59 Perforated 7120-25' with 4 shots per foot. Spotted 150 gallons MCA. Sand-oil treated as follows: Loaded hole with 7,000 gallons Dakota distillate, treated with 12,500 gallons distillate and 5,500# sand, flushed with 8,500 gallons distillate. No breakdown. Average treating pressure 3500#, maximum 3550#, minimum 3400#, average injection rate 24.7 barrels per minute. Flowed back total of 5,000 gallons load oil.
- 3-25-59 Perforated 7029-39' with 4 shots per foot. Set Baker bridge plug at 7053'. Spotted 32 gallons MCA from 7051' to 7019'. Loaded hole with 7,000 gallons distillate, treated with 22,200 gallons distillate and 10,500# sand, flushed with 8,500 gallons distillate. Breakdown pressure with one truck 3100#, broke to 2400#. Maximum treating pressure 3550#, minimum 3450#, average injection rate 28.1 barrels per minute.
- 4-16-59 Flowed and swabbed back load oil. Ran 125 joints 7038' of 2-3/8" OD EUE tubing landed at 7076' RKB.
- 8-20-59 Installed Kobe pumping equipment.

BENSON-MONTIN-GREER DRILLING CORP.

PILGRIM #1

CORE #1 Cored 7018' to 7068'. Cored 50', recovered 38½'.

7018 - 7024-1/3 Dark grey very silty compact sandstone.
7024-1/3 - 7024-2/3 Black sandy shale.
7024-2/3 - 7031' Grey to light grey silty compact sandstone.
7031 - 7034' Grey medium quartzitic sand with good odor
and stain, vertical fracture at 7032'.
7034 - 7035' Grey medium quartzitic sand with thin black
shale laminations.
7035 - 7040' Dark grey fine-grained hard sandstone with
stain and odor. Vertical fracture 7036½' to
7039½'.
7040 - 7066½' Grey to light grey slightly carbonaceous
silty sandstone.

Slight bleed of gas throughout core. Spotted
slight show of distillate.

CORE #2 Cored 7219' to 7256'. Cored 37', recovered 37'.

7219 - 7227' Dark grey fine grained silty shale.
7227 - 7228' Very fine grained quartzitic sand.
7228 - 7231' Black pokerchip shale.
7231 - 7242' Light grey very fine grained hard silty
sandstone, slight sporadic bleed of gas. No
odor.
7242 - 7245' Dark grey very fine grained sandy shale.
7245 - 7247' Light grey very fine grained sub quartzitic
sandstone.
7247 - 7248' Light grey very fine grained sub quartzitic
sandstone with thin coal laminations.
7248 - 7249m' Hard black shale.
7249 - 7256' Very fine grained hard compact sandstone,
slightly shaly and slightly carbonaceous, very
slight sporadic bleed of gas, no odor.

CORE #3 Cored 7256' to 7268'. Cored 12', recovered 11½'

7256 - 7267' Very fine hard compact silty sandstone.

7267 - 7267¼' Black very coaly shale.

7267¼ - 7267½' Black very fine hard carbonaceous sandstone.
Very slight bleed of gas, no odor.