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LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 077976
LEASE OR PERMIT TO PROSPECT Jones

LOG OF OIL OR GAS WELL

Company BENSON-MONTIN-GREER DRILLING CORP. Address 158 Petroleum Center Building Farmington, New Mexico
Lessor or Tract Jones Field Undesignated State New Mexico
Well No. 4 Sec. 17 T. 28N R. 13W Meridian N.M.P.M. County San Juan
Location 600 ft. S. of 8 Line and 600 ft. E. of W. Line of Sec. 17 Elevation 5389
(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 _____

Date September 6th, 1960 Title Vice-President

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

Commenced drilling August 26th, 1960 Finished drilling August 18th, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5558 to 5586 No. 4, from _____ to _____
No. 2, from 5620 to 5634 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"	24#	8	J-55	241	-	-	-	-	Surface
4-1/2"	9.5#	8	J-55	5690	Texas Pattern	-	5558 5620	5586 5634	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	252	225	Pump & Plug		
4-1/2"	5701	175	" "		

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 5702 feet, and from _____ feet to _____ feet
Cable tools were used to complete feet to _____ feet, and from _____ feet to _____ feet

DATES

Ran Tubing August 26th, 1960 Potential Test Put to producing September 6th, 1960

The production for the first 24 hours was 16 1/2 barrels of fluid of which 100 % was oil, _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. 33

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Company Tool, Driller _____, Driller _____
_____, Driller _____, Driller _____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			<u>ELECTRIC LOG TOPS</u>
			KIRTLAND 270'
			FARMINGTON 410'
			PICTURED CLIFFS 1540'
			LEWIS 1675'
			CLIFFHOUSE 2470'
			MENEFEE 2795'
			POINT LOOKOUT 4135'
			MANCOS 4225'
			GALLUP 5220'

FORMATION RECORD--Continued

FROM-	TO-	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

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.

BENSON-MONTIN-GREEK DRILLING CORP.

JONES #4 - WELL HISTORY

- 8- 6-60 Spudded. Drilled to TD 260' RKB. Set 8 joints 241' of 8-5/8" OD 24# J-55 casing at 252' RKB with 225 sacks regular cement, 2% calcium chloride.
- 8- 7-60 Pressured up on casing to 500#. No pressure decrease in 30 minutes.
- 8-15-60 Drilled to TD 5565'. Went in hole with core barrel.
- 8-16-60 Pulled Core #1 from 5565' to 5615'. Core description attached.
- 8-17-60 Pulled Core #2 from 5615' to 5665'. Core description attached.
- 8-18-60 Drilled to TD 5702' RKB. Set 178 joints 5690' of 4-1/2" OD 9.5# J-55 casing at 5701' with 175 sacks cement, 25# Gilsomite per sack, 1/4# flocele per sack. Temperature survey showed top of cement at 4270'.
- 8-21-60 Moved in and rigged up cable tools.
- 8-22-60 Circulated out water. Cleaned out to 5671'. Pressured up to 3000# for 10 minutes. No decrease in pressure. Ran gamma ray correlation log. Perforated 5620-34' with 4 jet shots per foot.
- 8-23-60 Spotted 300 gallons 15% MCA at 5620'. Set packer at 5600'. Breakdown pressure 1600#, broke to 700#. Injected acid at 1350#. Overflushed with 4 barrels. Swabbed hole dry.
- 8-24-60 Pulled tubing and packer. Perforated 5558-5586' with 2 jet shots per foot. Spotted 300 gallons 15% MCA. Set packer at 5600'. Displaced acid into formation. Maximum pressure 1500#, broke to 700#. Reset packer at 5538'. Swabbed hole dry.
- 8-25-60 Sand-oil treated with 72,875 gallons oil and 90,000# 20/40 sand, flushed with 2,222 gallons oil. Used 2100# Adomite and 65 rubber balls during treatment. Maximum treating pressure 2850#. Instantaneous shut-down pressure 800#, average injection rate 33 BPM.
- 8-26-60 Ran 181 joints 5629' of 2-3/8" OD EUE tubing landed at 5638' RKB. Commenced flowing back load oil.
- 9- 6-60 After recovery of load oil, tested well for 6 hours on 20/64" choke. Flowing CP 600, flowing TP 100#. Flowed 41 barrels oil in 6 hours.

BENSON-MONTIN-GREER DRILLING CORP.

JONES #4 - CORE DESCRIPTION

CORE #1 Cored 5565' to 5615'. Cored 50', recovered 50'.

5565 - 5573' Black very fossiliferous pokerchip shale with thin sandstone streaks, bleeding oil, vertical fractures.

5573 - 5586' Medium coarse very glauconitic sub-angular quartz sand, good oil shows, vertical fractures 5577-78', 5584-85'.

5586 - 5615' Hard dark grey very glauconitic sub-angular quartz sand with silt matrix, slight bleed of oil and gas throughout.

CORE #2 Cored 5615' to 5665'. Cored 50', recovered 50'.

5615 - 5616' Hard dark grey silty glauconitic sandstone, vertical fracture, show of oil.

5616 - 5618' Hard dark grey glauconitic medium silty quartz sand, bleed of oil.

5618 - 5619' Hard dark grey glauconitic medium silty quartz sand, bleed of oil, vertical fracture.

5619 - 5633' Hard dark grey silty glauconitic sand, bleed of oil and gas.

5633 - 5640' Dark grey very shaly sandstone, show of oil.

5640 - 5654' Dark grey very shaly sandstone, show of oil, vertical fracture.

5654 - 5663' Hard dark grey shale with thin sandstone streaks, vertical fracture 5656-60', 5661-62'.

5663 - 5665' Hard black fossiliferous sandy shale.