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JUL 2 1957
U. S. GEOLOGICAL SURVEY
WASHINGTON, NEW MEXICO
UNITED

U. S. LAND OFFICE ----- **Santa Fe**
 SERIAL NUMBER ----- **079058-B**
 LEASE OR PERMIT TO PROSPECT -----
Sandoval

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

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Company **BENSON-MONTGOMERY DRILLING CORP.** Address **405 1/2 W. Broadway, Burlington, N.M.**

Lessor or Tract **Sandoval** Field **Wildcat** State **New Mexico**

Well No. 1 Sec. 14 T 21N R. 7W Meridian N.M.P.M. County Sandoval

Location 660 ft. N of N Line and 530 ft. E of E Line of Sec. 14 Elevation 675
(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.

so far as can be determined from the available information.

Date September 24th, 1957 Signed Robert L. ... Title Vice-President

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

Commenced drilling August 17th, 1957 Finished drilling September 20th, 1957

OIL OR GAS SANDS OR ZONES

(Deplete gas by G)

No. 1, from None 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 _____

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	169'	-	-	-	-	Surface

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	182	125	Pump & Plug		

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 5480 feet, and from _____ feet to _____ feet

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

DATES

Plugged and abandoned		DATE	
September 22nd	19-57	Put to producing	, 19.....

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

If gas well, cu. ft. per 24 hours 0 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. -----

EMPLOYEES

Company tools _____, Driller _____, Driller _____

_____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			TOPS:
			PICTURED CLIFFS 740'
			LEWIS 952'
			POINT LOOKOUT 3090'
			MANCOS 3220'
			GALLUP 4000'
			SANASTEE 4925'
			GREENHORN 5022'
			GRANEROS 5070'
			DAKOTA 5182'

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LOG 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.

8-15-57 Commenced moving in rotary.

8-17-57 Spudded.

8-18-57 TD 182' RKB. Set 6 joints 16 1/2" of 8-5/8" OD 24# J-55 casing at 180' with 12 1/2 sacks cement, 2% calcium chloride, circulated.

8-19-57 Pressured up on casing to 1000#. No pressure decrease in 30 minutes.

9-2-57 Drilled to TD 410'. Commenced coring. Cored 410' to 470'. CONT DESCRIPTION ATTACHED.

9-14-57 Drilled to 5185'. Commenced coring. Cored 5185' to 5948'. CONT DESCRIPTION ATTACHED.

9-22-57 TD 5480'. Ran electric log. Spotted cement plugs as follows:

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Location 5480' to 5550' 30 sacks from 5260' to 5350' 30 sacks from 5210' to 5300' 25 sacks from 4930' to 1000' 55 sacks from 550' to 450' 55 sacks from 550' to 450'

Well No. 1
Lessor or Trust
Company
BANKSON-ROBERTS
15-back plug in bottom of 8-5/8" surface casing and 10-back plug in top of 8-5/8" surface casing, which was left in the hole.

HISTORY OF OIL OR GAS WELL

FROM-	TO-	TOTAL FEET	FORMATION
			DAKOTA
			GRANITE
			GREENWOOD
			MAHON
			CLAY
			LEWIS
			PIEDMONT CLIFF
			COAL

BENSON-MONTIN-GREER DRILLING CORP.

#1 SANDOVAL

CORE DESCRIPTIONS

<u>CORE #1</u>	4104' to 4154'.	Recovered 49'.
	4104' to 4106'	Shale with very fine grained silty sand laminations to 1/4" thick. Small fracture. No stain, no odor, no show. Approximately 50% shale, 50% silty sand.
	4106' to 4115'	Shale with very fine grained sand laminations, slightly fossiliferous. No stain, no odor, no show. Approximately 60% shale, 40% silty sand.
	4115' to 4128'	Shale with minor fine grained irregular sand laminations, mostly shale, slightly fossiliferous. No stain, no odor, no show. Approximately 70% shale, 30% silty sand.
	4128' to 4140'	Shale with minor fine grained very irregular sand laminations, slightly fossiliferous. No stain, no odor, no show. Approximately 80% shale, 20% silty sand.
	4140' to 4153'	Shale with very few irregular fine grained silty sand laminations. Approximately 90% shale, 10% silty sand.
<u>CORE #2</u>	4220' to 4268'.	Recovered 48'.
	4220' to 4243'	Dark grey shale with occasional fine grained sand striations. No fluorescence or stain.
	4243' to 4268'	Fine grained sand striations alternating with occasional shale laminations. Fluorescence and stain in sand.
<u>CORE #3</u>	4268' to 4318'.	Recovered 49'.
	4269' to 4273'	Fine grained sand, good fluorescence and stain, interbedded with dark grey sandy shale.
	4273' to 4278'	Dark grey shale.
	4278' to 4285'	70% sand interbedded with thin sand stringers. Sand stringers generally non-continuous. No fluorescence or stain.

BENSON-MONTIN-GRASS DRILLING CORP.

W1 SANDOVAN

CORE DESCRIPTIONS

<u>CORE #1</u>			Recovered 41.
4100 to 4104	4100 to 4104	Shale with very fine grained silty sand laminations to 1/4" thick. Small fracture. No stain, no odor, no show. Approximately 50% shale, 50% silty sand.	
4106 to 4112	4106 to 4112	Shale with very fine grained sand laminations, slightly fossiliferous. No stain, no odor, no show. Approximately 60% shale, 40% silty sand.	
4114 to 4120	4114 to 4120	Shale with minor fine grained irregular sand laminations, mostly shale, slightly fossiliferous. No stain, no odor, no show. Approximately 70% shale, 30% silty sand.	
4122 to 4130	4122 to 4130	Shale with minor fine grained very irregular sand laminations, slightly fossiliferous. No stain, no odor, no show. Approximately 80% shale, 20% silty sand.	
4132 to 4140	4132 to 4140	Shale with very few irregular fine grained silty sand laminations. Approximately 90% shale, 10% silty sand.	
<u>CORE #2</u>			Recovered 42.
4200 to 4208	4200 to 4208	Dark grey shale with occasional fine grained sand variations. No fluorescence or stain.	
4210 to 4218	4210 to 4218	Fine grained sand variations alternating with occasional shale laminations. Fluorescence and stain in sand.	
<u>CORE #3</u>			Recovered 43.
4220 to 4230	4220 to 4230	Fine grained sand, good fluorescence and stain, interbedded with dark grey sandy shale.	
4232 to 4238	4232 to 4238	Dark grey shale.	
4240 to 4250	4240 to 4250	70% sand interbedded with thin sand stringers. Sand stringers generally non- conchoidal. No fluorescence or stain.	

<u>CORE #4</u>	4318' to 4370'.	Recovered 51'.
	4318' to 4327'	60% fine light grey fine grained sand, slightly shaly, with dark grey sandy shale. laminations. No fluorescence, trace stain.
	4327' to 4358'	Dark grey shaly sand with fine grey sand stringers. No fluorescence, no stain.
	4358' to 4370'	Dark grey sandy shale. No fluorescence, no stain.
<u>CORE #5</u>	5185' to 5235'.	Recovered 47'.
	5185' to 5195'	Fine light grey sand, trace fluorescence, no stain.
	5195' to 5211'	Alternating dark grey shale with very fine grey sand stringers.
	5211' to 5235'	21' of dark grey shale with occasional very fine thin sand stringers.
<u>CORE #6</u>	5235' to 5285'.	Recovered 52' (2' of shale from Core #5).
	5235' to 5258'	Dark grey shale with very fine thin sand stringers.
	5258' to 5271'	Dark grey and light grey very fine hard shaly siltstone.
	5271' to 5285'	Medium to light tan sand, trace fluorescence.
<u>CORE #7</u>	5285' to 5328'.	Recovered 42'.
	5286' to 5292'	Medium to coarse grained grey sandstone with dark grey shale stringers with vertical fracture 5287-90'.
	5292' to 5305'	Fine to medium grained sandy shale with vertical fracture at 5299'.
	5305' to 5328'	Dark grey to black fissile shale with pyrite inclusions.
<u>CORE #8</u>	5328' to 5378'.	Recovered 50'.
	5328' to 5340'	Black carbonaceous slightly sandy shale.
	5340' to 5367'	Very fine carbonaceous sand.
	5367' to 5378'	Medium to coarse grained light grey clean sand. No fluorescence, no stain.

CORE #4

4518' to 4520'

Recovered 50%.

4520' to 4521'

Box fine light grey fine grained sand, slightly sandy, with dark grey sandy shale. Laminations. No fluorescence, trace stain.

4521' to 4528'

Dark grey sandy sand with fine grey sand stringers. No fluorescence, no stain.

4528' to 4530'

Dark grey sandy shale. No fluorescence, no stain.

CORE #5

5185' to 5187'

Recovered 40%.

5187' to 5188'

Fine light grey sand, trace fluorescence, no stain.

5188' to 5191'

Alternating dark grey shale with very fine grey sand stringers.

5191' to 5195'

51% of dark grey shale with occasional very fine thin sand stringers.

5195' to 5198'

Recovered 52% (4% of shale from Core #5).

5198' to 5200'

Dark grey shale with very fine thin sand stringers.

5200' to 5201'

Dark grey and light grey very fine sand, shaly siltstone.

5201' to 5205'

Medium to light tan sand, trace fluorescence.

CORE #7

5285' to 5287'

Recovered 42%.

5287' to 5292'

Medium to coarse grained grey sandstone with dark grey shale stringers with vertical fracture 5287-901.

5292' to 5295'

Fine to medium grained sandy shale with vertical fracture at 5292'.

5295' to 5298'

Dark grey to black fissile shale with pyrite inclusions.

CORE #8

5328' to 5330'

Recovered 50%.

5330' to 5340'

Black carbonaceous slightly sandy shale.

5340' to 5347'

Very fine carbonaceous sand.

5347' to 5350'

Medium to coarse grained light grey clean sand. No fluorescence, no stain.