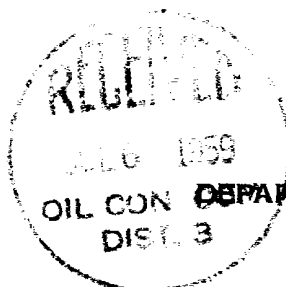


[illegible]

LOCATE WELL CORRECTLY



U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078100-B
LEASE OR PERMIT TO PROSPECT Bayview-Riddle

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company BENSON-MONTIN-GREER DRILLING Address 158 Petroleum Center Building
CORP. Farmington, New Mexico
Lessor or Tract Bayview-Riddle Field Wildcat State New Mexico
Well No. 1 Sec. 18 T. 27N R. 12W Meridian N.M.P.M. County San Juan
Location 825 ft. N. of N Line and 1190 ft. E. of E Line of Sec. 18 Elevation 5767
S. W. (Show location relative to sec. 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.

Date July 2nd 1959 ONE VOLUME Title Engineer

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

Commenced drilling March 17th, 19 59 Finished drilling April 5th, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5810 to 5923 (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. 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" 11-1/2"	11-1/2"	6	11-1/2"	11-1/2"	11-1/2"	11-1/2"	5828	5832	11-1/2"
5-1/2" 11-1/2"	11-1/2"	6	11-1/2"	11-1/2"	11-1/2"	11-1/2"	5840	5852	11-1/2"
							5892	5897	11-1/2"
							5905	5923	11-1/2"

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	169	125	Pump & Plug		
5-1/2"	6030	350	" " "		

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 6032 feet, and from _____ feet to _____ feet to complete _____.

Cable tools were used ~~to~~ ^{to complete} from _____ feet to _____ feet, and from _____ feet to _____ feet.

Ran Tubing June 4th	1959	DATES	Potential Test	
		Put to producing	July 1st	19 59

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

[illegible]

If gas well, cu. ft. per 24 hours 1,235,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1791# Open 3 hours through 3/4" choke on casing. Choke volume 1.187 MCF/day

Summit Drilling Co. Driller (Rotary) Driller

Newton Drilling Co. Driller (Cable Tools) Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			<u>ELECTRIC LOG TOPS:</u>
			FARMINGTON 330'
			FRUITLAND 918'
			PICTURED CLIFFS 1210'
			LEWIS 1340'
			CLIFFHOUSE 2110'
			MENEFEE 2215'
			POINT LOOKOUT 3790'
			MANCOS 3980'
			GALLUP 4860'
			BASE GALLUP 5305'
			SANASTEE 5357'
			GREENHORN 52 5715'
			GRANEROS 5775'
			DAKOTA 5810'

LOCATION RECORD—Continued

LOG OF OIL OR GAS WELL

Company Name
Address
City
State

Well No.
Section
Twp.
Range

Location
Date
Signed

The information given herewith is a complete and correct record of the well and all work done thereon
as far as can be determined from all available records.

SEE ATTACHMENT
Title
Signed

The summary on this page is for the condition of the well at above date
Completed drilling
Finished drilling

OIL OR GAS SANDS OR ZONES
No. 1 from
No. 2 from
No. 3 from

IMPORTANT WATER SANDS
No. 1 from
No. 2 from
No. 3 from

CASING RECORD
Casing
Depth
Diameter

It is of the greatest importance to have a complete history of the well. Please state in detail the nature of the well, its location, its purpose, the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "struck" 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 boring.

HISTORY OF OIL OR GAS WELL
Name
Address
City
State

MUDGING AND CEMENTING RECORD
Mud
Cement
Depth

PLUGS AND ADAPTERS
Plug
Adapter
Depth

SHOOTING RECORD
Shot
Depth
Diameter

TOOLS USED
Tool
Depth
Diameter

DATES
Date
Event

EMPLOYEES
Name
Position
Date

FORMATION RECORD
Formation
Depth
Diameter

FORMATION
Depth
Diameter

FORMATION
Depth
Diameter

FORMATION
Depth
Diameter

FORMATION
Depth
Diameter

LOG OF OIL OR GAS WELL

Company Name
Address
City
State

Well No.
Section
Twp.
Range

Location
Date
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Title
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Finished drilling

OIL OR GAS SANDS OR ZONES
No. 1 from
No. 2 from
No. 3 from

IMPORTANT WATER SANDS
No. 1 from
No. 2 from
No. 3 from

CASING RECORD
Casing
Depth
Diameter

It is of the greatest importance to have a complete history of the well. Please state in detail the nature of the well, its location, its purpose, the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "struck" 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 boring.

HISTORY OF OIL OR GAS WELL
Name
Address
City
State

MUDGING AND CEMENTING RECORD
Mud
Cement
Depth

PLUGS AND ADAPTERS
Plug
Adapter
Depth

SHOOTING RECORD
Shot
Depth
Diameter

TOOLS USED
Tool
Depth
Diameter

DATES
Date
Event

EMPLOYEES
Name
Position
Date

FORMATION RECORD
Formation
Depth
Diameter

FORMATION
Depth
Diameter

FORMATION
Depth
Diameter

FORMATION
Depth
Diameter

FORMATION
Depth
Diameter

LOG OF OIL OR GAS WELL

Company Name
Address
City
State

Well No.
Section
Twp.
Range

Location
Date
Signed

The information given herewith is a complete and correct record of the well and all work done thereon
as far as can be determined from all available records.

SEE ATTACHMENT
Title
Signed

The summary on this page is for the condition of the well at above date
Completed drilling
Finished drilling

OIL OR GAS SANDS OR ZONES
No. 1 from
No. 2 from
No. 3 from

IMPORTANT WATER SANDS
No. 1 from
No. 2 from
No. 3 from

CASING RECORD
Casing
Depth
Diameter

It is of the greatest importance to have a complete history of the well. Please state in detail the nature of the well, its location, its purpose, the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "struck" 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 boring.

HISTORY OF OIL OR GAS WELL
Name
Address
City
State

MUDGING AND CEMENTING RECORD
Mud
Cement
Depth

PLUGS AND ADAPTERS
Plug
Adapter
Depth

SHOOTING RECORD
Shot
Depth
Diameter

TOOLS USED
Tool
Depth
Diameter

DATES
Date
Event

EMPLOYEES
Name
Position
Date

FORMATION RECORD
Formation
Depth
Diameter

FORMATION
Depth
Diameter

FORMATION
Depth
Diameter

FORMATION
Depth
Diameter

FORMATION
Depth
Diameter

ATTACHMENT TO USGS FORM 9-330
WELL HISTORY - BAYVIEW-RIDDLE #1

- 2- 7-59 Location surveyed 825' from north line, 1190' from east line, Section 18, Twp. 27N, Rge. 12W, San Juan County, New Mexico. Elevation 5767' RKB.
- 3-16-59 Moved in rotary.
- 3-17-59 Spudded.
- 3-18-59 TD 170' RKB. Set 5 joints 157' of 8-5/8" OD 24# J-55 casing at 169' RKB with 125 sacks cement, 3% calcium chloride.
- 3-30-59 Drilled to TD 5822'. Went in hole with core barrel. Pulled Core #1 from 5822' to 5850'. Cored 28', recovered 28'. Core description attached.
- 3-31-59 Pulled Core #2 from 5850' to 5878'. Cored 28', recovered 28'. Core description attached.
- 4- 1-59 Pulled Core #3 from 5878' to 5905'. Cored 27', recovered 27'.

Pulled Core #4 from 5905' to 5936'. Cored 31', recovered 31'. Core description attached.
- 4- 2-59 TD 5936'. Ran ES, microlog and sonic log.
- 4- 3-59 Drilled to TD 5960'. Went back in hole with core barrel.
- 4- 4-59 Pulled Core #5 from 5960' to 5992'. Cored 32', recovered 32'. Core description attached.
- 4- 5-59 Drilled to TD 6005'. Pulled Core #6 from 6005' to 6020'. Cored 15', recovered 14'. Core description attached.

TD 6032'. Ran ES induction log. Set 186 joints 6034' of 5-1/2" OD 15.5# J-55 casing at 6030' with 350 sacks cement mixed with 1/4# flocele per sack.
- 4-16-59 Moved in ~~rotary~~ cable tools.
- 4-18-59 Rigged up cable tools. Rigged up Christmas tree and blowout preventer.
- 4-19-59 Ran correlation log. Spotted 60 gallons acid on bottom. Clean-out total depth 5960'. Perforated 5905-23' with 4 jet shots per foot. Sandfraced with 45,459 gallons water and 25,000# 20-40 sand, flushed with 7,500 gallons water. Breakdown pressure 3700#, broke to 1450#. Maximum treating pressure 2800#, minimum 2550#, final pressure 1800#. Average injection rate 39.5 barrels per minute.

WELL HISTORY - BAYVIEW-RIDGEB 51
ATTACHMENT TO UDSB FORM 3-750

4-1-52	Location surveyed 825' from north line, 1190' from east line, section 18, Twp. 24N, Rge. 12W, S&W 1/4 Sec. 18, New Mexico. Elevation 5767' RKB.
4-15-52	Moved in casing.
4-17-52	Spudded.
4-17-52	TD 170' RKB. Set 2 joints 157' of 8-5/8" OD 2 1/2" casing at 169' RKB with 125 sacks cement, 3% oiling chloride.
4-20-52	Drilled to TD 5825'. Went in hole with core barrel. Pulled core #1 from 5825' to 5850'. Cored 25'. Recovered 28'. Core description attached.
4-21-52	Pulled core #2 from 5850' to 5878'. Cored 28'. Recovered 28'. Core description attached.
4-1-52	Pulled core #3 from 5878' to 5905'. Cored 27'. Recovered 27'.
4-1-52	Pulled core #4 from 5905' to 5936'. Cored 31'. Recovered 31'. Core description attached.
4-2-52	TD 5936'. Ran 52' microlag and sand 125'.
4-2-52	Drilled to TD 5936'. Went back in hole with core barrel.
4-7-52	Pulled core #5 from 5936' to 5952'. Cored 16'. Recovered 12'. Core description attached.
4-7-52	Drilled to TD 6005'. Pulled core #6 from 6005' to 6020'. Cored 15'. Recovered 14'. Core description attached.
4-7-52	TD 6020'. Ran 52' microlag and sand 125' joints 6020' to 6050' 1 1/2" OD 1 1/2" casing at 6050' with 250 sacks cement mixed with 1/4" flueite per sack.
4-10-52	Moved in casing and cable tools.
4-10-52	Rigged up cable tools. Rigged up Christmas tree and blowout preventer.
4-14-52	Ran correlation log. Spotted 60 gallons acid on bottom. Clean-out total depth 5900'. Perforated 5905-5915' with 1 jet spots per foot. Sandstraced with 45,453 gallons water and 25,000# 20-40 sand, finished with 7,500 gallons water. Breakdown pressure 3700#, broke to 1450#. Maximum treating pressure 2800#, minimum 2550#, final pressure 1800#. Average injection rate 39.5 barrels per minute.

WELL HISTORY - CONTINUED

- 4-20-59 Ran 188 joints 5867' of 2-3/8" OD EUE tubing landed at 5879' RKB. Commenced flowing back frac water.
- 4-21-59 Moved out cable tools.
- 5-27-59 Moved cable tools in to treat upper zone.
- 5-29-59 Set Guiberson WME drillable bridge plug at 5898'. Perforated 5892-97' with 4 super dynajet shots per foot, 5840-52' with 2 super dynajet shots per foot, 5828-31' with 4 super dynajet shots per foot. Attempted to sandfrac. Formation would not break down at 3500#.
- 5-30-59 Ran 2-3/8" tubing to bottom with top cement plug ahead of tubing to protect bridge plug. Cement plug stopped at 5875'. Spotted 500 gallons MCA. Pressured up to 1000# and broke down perforations. Sandfraced with 74,400 gallons water and 60,000# sand, flushed with 7,500 gallons water. Breakdown pressure 1200#, maximum treating pressure 3500#, minimum 3100#, final pressure 1700#. Average injection rate 40.8 barrels per minute.
- 5-31-59 Ran tubing with bit, cleaned out to top of bridge plug at 5898'. Commenced swabbing load water.
- 6- 1-59 Killed well, drilled out bridge plug.
- 6- 2-59 Ran tubing to bottom to circulate out sand.
- 6- 3-59 Well unloading.
- 6- 4-59 Ran 190 joints 5925' of 2-3/8" OD EUE tubing landed at 5937' RKB. Shut well in for potential test.

WELL HISTORY - CONTINUED

4-20-52	Run 188 joints 5897' of 2-3/8" OD EUE tubing landed at 5897' AKA. Commented flowing back into water.
4-21-52	Moved out cable collar.
5-27-52	Moved cable collar in to treat upper zone.
5-27-52	Set Galsonson WMS drillable bridge plug at 5898'. Perforated 5892-97' with 4 super dyjetted shots per foot, 5840-52' with 2 super dyjetted shots per foot, 5828-51' with 4 super dyjetted shots per foot. Attempted to sandblast. Formation would not break down at 5500#.
5-30-52	Run 2-3/8" tubing to bottom with 500 cement plug ahead of tubing to prevent bridge plug. Cement plug dropped at 5897'. Spotted 500 gallons MCA. Pressured up to 1000# and broke down perforations. Sandblasted with 75,400 gallons water and 60,000# sand. Finished with 7,500 gallons water. Breakdown pressure 1200#, maximum treating pressure 3500#, minimum 2100#, final pressure 1700#. Average injection rate 40.8 barrels per minute.
5-31-52	Run casing with bit, cleaned out to top of bridge plug at 5898'. Commented sanding lead water.
6-1-52	Killed well, drilled out bridge plug.
6-2-52	Run tubing to bottom to circulate out sand.
6-3-52	Well unloading.
6-4-52	Run 200 joints 5897' of 2-3/8" OD EUE tubing landed at 5897' AKA. Shut well in for potential test.

BAYVIEW-RIDDLE #1 - CORE DESCRIPTIONS

CORE #1

Cored 5822' to 5850'. Cored 28', recovered 28'.

5822 - 5827' Black hard sandy shale.

5827 - 5829' Hard grey fine-grained sandstone. Good show of oil and gas. Slight bleed of gas.

5829 - 5840' Black hard fine sandy shale.

5840 - 5850' Fine grey hard sandstone. Slight odor throughout and good odor and show of gas 5849-50'.

CORE #2

Cored 5850' to 5878'. Cored 28', recovered 28'.

5850 - 5863½' Hard dark grey fine silty sandstone, bleeding gas.

5863½' - 5864' Hard black shale.

5864 - 5878' Hard dark grey silty sand, bleeding gas.

CORE #3

Cored 5878' to 5905'. Cored 27', recovered 27'.

5878 - 5883' Hard dark grey silty sandstone. Slight show of gas.

5883 - 5887' Black shale, slightly sandy.

5887 - 5888' Hard black sandy shale.

5888 - 5895' Dark grey very hard sandstone.

5895 - 5899½' Hard black sandy shale.

5899½' - 5905' Grey medium fine sand with show of gas and distillate, fair odor.

CORE #4

Cored 5905' to 5936'. Cored 31', recovered 31'.

5905 - 5920' Fine to medium fine quartzitic sand, slightly porous, slight bleed of gas, slight to good odor throughout. Vertical fractures 5907-08' and 5913-15'.

DAYVINE-RIDDLE #1 - CORE DESCRIPTIONS

CORE #1

Core 58251 to 58501. Core 581, recovered 48'.
 58251 - 58271. Hard hard sandy shale.
 58271 - 58311. Hard grey fine-grained sandstone. Dark and
 of oil and gas. Slight bleed of gas.
 58311 - 58401. Black hard fine sandy shale.
 58401 - 58501. Fine grey hard sandstone. Slight oil
 throughout and good odor and show of gas.
 58499-501.

CORE #2

Core 58501 to 58751. Core 582, recovered 251'.
 58501 - 58631. Hard dark grey fine silty sandstone, cleaving
 gas.
 58631 - 58641. Hard black shale.
 58641 - 58751. Hard dark grey silty sand, bleeding gas.

CORE #3

Core 58751 to 59001. Core 583, recovered 251'.
 58751 - 58811. Hard dark grey silty sandstone. Slight bleed
 of gas.
 58811 - 58831. Black shale, slightly sandy.
 58831 - 58851. Hard black sandy shale.
 58851 - 58911. Dark grey very hard sandstone.
 58911 - 58931. Hard black sandy shale.
 58931 - 59001. Grey medium fine sand with show of gas and
 effluence, fair odor.

CORE #4

Core 59001 to 59251. Core 584, recovered 251'.
 59001 - 59251. Fine to medium fine granular sand, slightly
 porous, slight bleed of gas, slight to good
 show throughout. Vertical fractures 59251-5931
 and 5933-5941.

CORE DESCRIPTIONS - CONTINUED

5920 - 5925'	Medium to fine quartzitic sand, few carbonaceous inclusions. Vertical fracture 5921-22'.
5925 - 5930'	Black silty micaceous and carbonaceous shale, few sand streaks.
5930 - 5936'	Black silty mx micaceous shale, bleeding gas 5935-36'.

CORE #5

Cored 5960' to 5992'. Cored 32', recovered 32'.	
5960 to 5963'	Hard dark grey silty slightly carbonaceous sandstone.
5963 - 5964'	Dark grey shale.
5964 - 5965'	Coal.
5965 - 5983'	Dark grey shale.
5983 - 5984'	Good black coal.
5984 - 5992'	Black shale slightly carbonaceous.

CORE #6

Cored 6005' to 6020'. Cored 15', recovered 14'.	
6005 - 6009'	Black carbonaceous shale.
6009 - 6019'	Coarse conglomeritic sandstone, brown clay-filled to very carbonaceous. No shows of either oil or gas.

