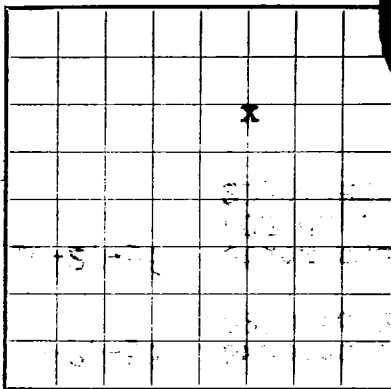


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **080375**
LEASE OR PERMIT TO PROSPECT **Sheets**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **BENSON-MONTIN** Address **2808 FIRST NATL. BLDG., OKLAHOMA CITY**
Lessor or Tract **SHEETS** Field **BALLARD EXT.** State **NEW MEXICO**
Well No. **9** Sec. **31** T26N R. 7W Meridian **N.M.P.M.** County **RIO ARriba**
Location **1450** ft. **N** of **N** Line and **1815** ft. **E** of **E** Line of **SEC. 31** Elevation **6409**
(Denote Gas 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 *[Signature]*
Date **November 19th, 1956** Title **Field Superintendent**

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

Commenced drilling **September 6th, 1956** Finished drilling **September 14th, 1956**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **2222** to **2354 (G)** No. 4, from _____ to _____
No. 2, from _____ to _____ No. 3, 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	92	-	-	-	-	Surface
5-1/2"	15.5#	8	J-55	2348	Pattern	-	-	-	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	102	70	Pump & Plug		
5-1/2"	2354	100	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
8-5/8" 4"	Tin	SNG	220 qts.	10-23-56	2230-2319	2265'

TOOLS USED

Rotary tools were used from **Surface** feet to **2354** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Ran Tubing **October 28th**, 19**56** 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 **87,000** Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. **655 (shut in 17 days)**

EMPLOYEES

Benson-Montin-Greer, Driller _____, Driller
Drilling Corp., Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	2200	2200	Surface sand and shale, Ojo Alamo, Kirtland and Fruitland formations
2200	2220	20	Coal
2220	2222	2	Shale
2222	2354	132	Sand
			TOP OF PICTURED CLIFFS 2222'

FORMATION RECORD-Continued

FROM-	TO-	TOTAL FEET	FORMATION
2580	2570	10	Gravel
2570	2560	10	Gravel
2560	2550	10	Gravel
2550	2540	10	Gravel
2540	2530	10	Gravel
2530	2520	10	Gravel
2520	2510	10	Gravel
2510	2500	10	Gravel
2500	2490	10	Gravel
2490	2480	10	Gravel
2480	2470	10	Gravel
2470	2460	10	Gravel
2460	2450	10	Gravel
2450	2440	10	Gravel
2440	2430	10	Gravel
2430	2420	10	Gravel
2420	2410	10	Gravel
2410	2400	10	Gravel
2400	2390	10	Gravel
2390	2380	10	Gravel
2380	2370	10	Gravel
2370	2360	10	Gravel
2360	2350	10	Gravel
2350	2340	10	Gravel
2340	2330	10	Gravel
2330	2320	10	Gravel
2320	2310	10	Gravel
2310	2300	10	Gravel
2300	2290	10	Gravel
2290	2280	10	Gravel
2280	2270	10	Gravel
2270	2260	10	Gravel
2260	2250	10	Gravel
2250	2240	10	Gravel
2240	2230	10	Gravel
2230	2220	10	Gravel
2220	2210	10	Gravel
2210	2200	10	Gravel
2200	2190	10	Gravel
2190	2180	10	Gravel
2180	2170	10	Gravel
2170	2160	10	Gravel
2160	2150	10	Gravel
2150	2140	10	Gravel
2140	2130	10	Gravel
2130	2120	10	Gravel
2120	2110	10	Gravel
2110	2100	10	Gravel
2100	2090	10	Gravel
2090	2080	10	Gravel
2080	2070	10	Gravel
2070	2060	10	Gravel
2060	2050	10	Gravel
2050	2040	10	Gravel
2040	2030	10	Gravel
2030	2020	10	Gravel
2020	2010	10	Gravel
2010	2000	10	Gravel
2000	1990	10	Gravel
1990	1980	10	Gravel
1980	1970	10	Gravel
1970	1960	10	Gravel
1960	1950	10	Gravel
1950	1940	10	Gravel
1940	1930	10	Gravel
1930	1920	10	Gravel
1920	1910	10	Gravel
1910	1900	10	Gravel
1900	1890	10	Gravel
1890	1880	10	Gravel
1880	1870	10	Gravel
1870	1860	10	Gravel
1860	1850	10	Gravel
1850	1840	10	Gravel
1840	1830	10	Gravel
1830	1820	10	Gravel
1820	1810	10	Gravel
1810	1800	10	Gravel
1800	1790	10	Gravel
1790	1780	10	Gravel
1780	1770	10	Gravel
1770	1760	10	Gravel
1760	1750	10	Gravel
1750	1740	10	Gravel
1740	1730	10	Gravel
1730	1720	10	Gravel
1720	1710	10	Gravel
1710	1700	10	Gravel
1700	1690	10	Gravel
1690	1680	10	Gravel
1680	1670	10	Gravel
1670	1660	10	Gravel
1660	1650	10	Gravel
1650	1640	10	Gravel
1640	1630	10	Gravel
1630	1620	10	Gravel
1620	1610	10	Gravel
1610	1600	10	Gravel
1600	1590	10	Gravel
1590	1580	10	Gravel
1580	1570	10	Gravel
1570	1560	10	Gravel
1560	1550	10	Gravel
1550	1540	10	Gravel
1540	1530	10	Gravel
1530	1520	10	Gravel
1520	1510	10	Gravel
1510	1500	10	Gravel
1500	1490	10	Gravel
1490	1480	10	Gravel
1480	1470	10	Gravel
1470	1460	10	Gravel
1460	1450	10	Gravel
1450	1440	10	Gravel
1440	1430	10	Gravel
1430	1420	10	Gravel
1420	1410	10	Gravel
1410	1400	10	Gravel
1400	1390	10	Gravel
1390	1380	10	Gravel
1380	1370	10	Gravel
1370	1360	10	Gravel
1360	1350	10	Gravel
1350	1340	10	Gravel
1340	1330	10	Gravel
1330	1320	10	Gravel
1320	1310	10	Gravel
1310	1300	10	Gravel
1300	1290	10	Gravel
1290	1280	10	Gravel
1280	1270	10	Gravel
1270	1260	10	Gravel
1260	1250	10	Gravel
1250	1240	10	Gravel
1240	1230	10	Gravel
1230	1220	10	Gravel
1220	1210	10	Gravel
1210	1200	10	Gravel
1200	1190	10	Gravel
1190	1180	10	Gravel
1180	1170	10	Gravel
1170	1160	10	Gravel
1160	1150	10	Gravel
1150	1140	10	Gravel
1140	1130	10	Gravel
1130	1120	10	Gravel
1120	1110	10	Gravel
1110	1100	10	Gravel
1100	1090	10	Gravel
1090	1080	10	Gravel
1080	1070	10	Gravel
1070	1060	10	Gravel
1060	1050	10	Gravel
1050	1040	10	Gravel
1040	1030	10	Gravel
1030	1020	10	Gravel
1020	1010	10	Gravel
1010	1000	10	Gravel
1000	990	10	Gravel
990	980	10	Gravel
980	970	10	Gravel
970	960	10	Gravel
960	950	10	Gravel
950	940	10	Gravel
940	930	10	Gravel
930	920	10	Gravel
920	910	10	Gravel
910	900	10	Gravel
900	890	10	Gravel
890	880	10	Gravel
880	870	10	Gravel
870	860	10	Gravel
860	850	10	Gravel
850	840	10	Gravel
840	830	10	Gravel
830	820	10	Gravel
820	810	10	Gravel
810	800	10	Gravel
800	790	10	Gravel
790	780	10	Gravel
780	770	10	Gravel
770	760	10	Gravel
760	750	10	Gravel
750	740	10	Gravel
740	730	10	Gravel
730	720	10	Gravel
720	710	10	Gravel
710	700	10	Gravel
700	690	10	Gravel
690	680	10	Gravel
680	670	10	Gravel
670	660	10	Gravel
660	650	10	Gravel
650	640	10	Gravel
640	630	10	Gravel
630	620	10	Gravel
620	610	10	Gravel
610	600	10	Gravel
600	590	10	Gravel
590	580	10	Gravel
580	570	10	Gravel
570	560	10	Gravel
560	550	10	Gravel
550	540	10	Gravel
540	530	10	Gravel
530	520	10	Gravel
520	510	10	Gravel
510	500	10	Gravel
500	490	10	Gravel
490	480	10	Gravel
480	470	10	Gravel
470	460	10	Gravel
460	450	10	Gravel
450	440	10	Gravel
440	430	10	Gravel
430	420	10	Gravel
420	410	10	Gravel
410	400	10	Gravel
400	390	10	Gravel
390	380	10	Gravel
380	370	10	Gravel
370	360	10	Gravel
360	350	10	Gravel
350	340	10	Gravel
340	330	10	Gravel
330	320	10	Gravel
320	310	10	Gravel
310	300	10	Gravel
300	290	10	Gravel
290	280	10	Gravel
280	270	10	Gravel
270	260	10	Gravel
260	250	10	Gravel
250	240	10	Gravel
240	230	10	Gravel
230	220	10	Gravel
220	210	10	Gravel
210	200	10	Gravel
200	190	10	Gravel
190	180	10	Gravel
180	170	10	Gravel
170	160	10	Gravel
160	150	10	Gravel
150	140	10	Gravel
140	130	10	Gravel
130	120	10	Gravel
120	110	10	Gravel
110	100	10	Gravel
100	90	10	Gravel
90	80	10	Gravel
80	70	10	Gravel
70	60	10	Gravel
60	50	10	Gravel
50	40	10	Gravel
40	30	10	Gravel
30	20	10	Gravel
20	10	10	Gravel

U. S. GOVERNMENT PRINTING OFFICE 10-43094-2

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, state the date, position, and number of the well. If the well has been dynamited, give date, 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.

Notice of intention to drill approved by U.S.G.S.

Moved in to set surface casing. Spudded.

TD 102' RKB. Set 3 joints 92' of 8-5/8" OD 24# J-55 casing at 102' RKB with 70 sacks cement, circulated.

Moved in rotary.

TD 2354' RKB. Set 74 joints 2448' of 5-1/2" OD 15.5# casing at 2354' RKB with 100 sacks cement.

Moved in cable tools.

perforated 2304-2315' with 4 holes per foot commenced sandrac treatment. At 2700# pressure, casing collapsed. Pumped plug and found hole in casing at 188'. Cut off casing at 235' and set casing bowl.

Attempted to sandrac again. Formation did not break down. Perforated 2304-2315' with 4 jet holes per foot. Ran 2-1/2" tubing with packer set at 1820'. Pressured up to 4000#. Unable to break formation. Shut down.

Perforated 2224' to 2235' with 4 holes per foot. Set Halliburton DM packer at 1820'. Sandraced with 6,000 gallons water and 4,000# sand, finished with 1,200 gallons water. Breakdown pressure 4500#, treating pressure 4000#. Final pressure 4500#. Packer failed.

Swabbed out water. No gas. Loaded 220 quarts SNG from 2230 to 2319' tamped with 1' gravel and 100' calseal.

Stuck wash 2265'. Unable to recover. Well flowing 91 MGD/day. Ran 101 joints 2228' of 1" tubing landed at 2234' RKB. Shut well.

UNITED STATES

Dist. 3
OK COM. COM.

RECEIVED