

SOUTHERN UNION PRODUCTION COMPANY

POST OFFICE BOX 808
FARMINGTON, NEW MEXICO

January 3, 1963

Mr. E. C. Arnold
New Mexico Oil Conservation Commission
1000 Rio Brazos Road
Aztec, New Mexico

Dear Mr. Arnold:

Following is a list of deviations for Southern Union Production Company's No. 1 Saiz well; located in Section 20, Township 29 North, Range 11 West, San Juan County, New Mexico.

Yours very truly,

SOUTHERN UNION PRODUCTION CO.

D. G. Macy
D. G. Macy
Petroleum Engineer

DGM:ml

Encls.



DEVIATION TABULATION REPORT

Southern Union Production Co. Saiz 1 20 29-N 11-W
 Operator Lease Well No. Sec. Twp. Rge.

<u>DEPTH</u>	<u>DEVIATION</u>	<u>DEPTH</u>	<u>DEVIATION</u>
484 ft.	1/2 deg.	3791 ft.	1-3/4 deg.
1000 ft.	1/2 deg.	4159 ft.	1 deg.
1422 ft.	3/4 deg.	4817 ft.	1-1/4 deg.
2332 ft.	3/4 deg.	5078 ft.	3/4 deg.
2700 ft.	1/2 deg.	5559 ft.	1 deg.
2951 ft.	1 deg.	6075 ft.	1-1/2 deg.
3294 ft.	1-1/2 deg.	6223 ft.	2-1/2 deg.

STATE OF New Mexico)
 COUNTY OF San Juan) ss.

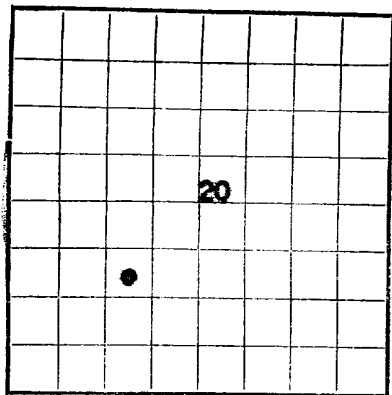
On this 3rd day of January, 1963, before as personally
 appeared D. G. Macy *D. G. Macy*
 to me known to be the person (s) described in and who executed the foregoing
 instrument and acknowledged that they executed the same as their free act and
 deed.

IN WITNESS WHEREOF, I have set my hand and seal of office on this
3 day of January, 1963.

David Evans
 Notary Public in and for
San Juan County, New Mexico



My commission expires:
My Commission Expires January 31, 1964



LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER N.M. 020982
LEASE OR PERMIT TO PROSPECT NE 1/4 SW 1/4
Sec. 20, T-29N, R-11W, N.M.P.M.
UNITED STATES San Juan Cty., N.M.
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Southern Union Prod. Co. Address P. O. Box 808, Farmington, N.M.
Lessor or Tract Sais Field Basin Dakota State New Mexico
Well No. 1 Sec. 20 T. 29N R. 11W Meridian N.M.P.M. County San Juan
Location 1840 ft. N. of S Line and 2310 ft. E. of W Line of Sec. 20 Elevation 5172 GL
(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 D. G. Macy Title Petroleum Engineer
Date January 2, 1963

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

Commenced drilling 11-18, 19 62 Finished drilling 12-2, 19 62OIL OR GAS SANDS OR ZONES
(Denote gas by G)No. 1, from 6082 to 6098 No. 4, from _____ to _____
No. 2, from 6110 to 6120 No. 5, from _____ to _____
No. 3, from 6168 to 6208 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—	
<u>10-3/4</u>	<u>32.75</u>	<u>8rd.</u>	<u>JAW</u>	<u>5103</u>	<u>-</u>	<u>None</u>	<u>6092</u>	<u>6098</u>	<u>Production</u>
<u>8-1/2</u>	<u>11.30</u>	<u>8rd.</u>	<u>JAW</u>	<u>5103</u>	<u>-</u>	<u>None</u>	<u>6092</u>	<u>6098</u>	<u>Production</u>
<u>6-1/2</u>	<u>11.30</u>	<u>8rd.</u>	<u>JAW</u>	<u>5103</u>	<u>-</u>	<u>None</u>	<u>6092</u>	<u>6098</u>	<u>Production</u>
<u>4-1/2</u>	<u>11.30</u>	<u>8rd.</u>	<u>JAW</u>	<u>5103</u>	<u>-</u>	<u>None</u>	<u>6092</u>	<u>6098</u>	<u>Production</u>
<u>3-1/2</u>	<u>11.30</u>	<u>8rd.</u>	<u>JAW</u>	<u>5103</u>	<u>-</u>	<u>None</u>	<u>6092</u>	<u>6098</u>	<u>Production</u>
<u>2-1/2</u>	<u>11.30</u>	<u>8rd.</u>	<u>JAW</u>	<u>5103</u>	<u>-</u>	<u>None</u>	<u>6092</u>	<u>6098</u>	<u>Production</u>
<u>1-1/2</u>	<u>11.30</u>	<u>8rd.</u>	<u>JAW</u>	<u>5103</u>	<u>-</u>	<u>None</u>	<u>6092</u>	<u>6098</u>	<u>Production</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>10-3/4</u>	<u>293</u>	<u>225</u>	<u>Pump Plug</u>		
<u>4-1/2</u>	<u>6340</u>	<u>2150 cu. ft.</u>	<u>Pump Plug</u>		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
<u>Perf. 2 holes/ft. 6168-6208. Sand water frac w/60,000# 20-40 sand and 63,210 gallons 1% CaCl₂ water. Perf. 6110-6126 and 6182-6198, 2 holes/ft. Sand Water Frac w/40,000# 20-40 sand and 44,520 gals. 1% CaCl₂ water. Used 500 gal. 15% acid on each stage.</u>						

TOOLS USED

Rotary tools were used from 0 feet to 6340 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19 _____ 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 _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. Q = 5931CAOP = 6225 psi, SIPT 1925 psi, SICP 1934 psi_____, Driller _____, Driller
Aspen Drilling Co. _____, Driller M. P. Holman
E. O. Farley _____, Driller Roy Shepherd

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>Surf.</u>	<u>490</u>	<u>490</u>	<u>Wasatch</u>
<u>490</u>	<u>1350</u>	<u>860</u>	<u>Kirtland</u>
<u>1350</u>	<u>1620</u>	<u>270</u>	<u>Fruitland</u>
<u>1620</u>	<u>1750</u>	<u>130</u>	<u>Pictured Cliffs</u>
<u>1750</u>	<u>3180</u>	<u>1430</u>	<u>Lewis</u>
<u>3180</u>	<u>4350</u>	<u>1170</u>	<u>Mesa Verde</u>
<u>4350</u>	<u>6035</u>	<u>1685</u>	<u>Mancos</u>
<u>6035</u>	<u>6340</u>	<u>305</u>	<u>Dakota</u>

U.S. LAND OFFICE
SERIAL NUMBER

STATES
Dec. 20, 1957
San Juan, P.R.
PLEASE OR PERMIT TO PROCEED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

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 _____

Location at N. E. corner of sec. 10 T. 8 S., R. 9 W., Meridian Sec. 26 T. 8 S., R. 9 W., Meridian Well No. 1

Dessor or Trustee _____ State _____ County _____ Field Notes _____ Address _____ Company _____

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

Date January 1, 1955 Title Water level

Commenced drilling	12-17	1952	Finished drilling	1-14	1953
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OIL OR GAS SANDS OR ZONES

(I) (b) (7) (C)

No. 1, from	100	to	100	No. 4, from	to
No. 2, from	100	to	100	No. 5, from	to
No. 3, from	100	to	100	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

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please make in detail the dates of drilling, 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 substituted, state in the well, give the size and location. If the well has been abandoned, give date, position, and diameter of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or balling.

Casing Set tool	Size Weight	Thickness Inch	Make	Amount	Kind of shoe	Cut and bled from	Perforated	To—	Purpose
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MUDDING AND CEMENTING RECORD

Case	Where set	Number sacks of cement	Methanol used	Quantity	Amount burnt to taromat
1-2	1-2	1000	1000	1000	1000
3-4	3-4	1000	1000	1000	1000
5-6	5-6	1000	1000	1000	1000
7-8	7-8	1000	1000	1000	1000
9-10	9-10	1000	1000	1000	1000
11-12	11-12	1000	1000	1000	1000
13-14	13-14	1000	1000	1000	1000
15-16	15-16	1000	1000	1000	1000
17-18	17-18	1000	1000	1000	1000
19-20	19-20	1000	1000	1000	1000
21-22	21-22	1000	1000	1000	1000
23-24	23-24	1000	1000	1000	1000
25-26	25-26	1000	1000	1000	1000
27-28	27-28	1000	1000	1000	1000
29-30	29-30	1000	1000	1000	1000
31-32	31-32	1000	1000	1000	1000
33-34	33-34	1000	1000	1000	1000
35-36	35-36	1000	1000	1000	1000
37-38	37-38	1000	1000	1000	1000
39-40	39-40	1000	1000	1000	1000
41-42	41-42	1000	1000	1000	1000
43-44	43-44	1000	1000	1000	1000
45-46	45-46	1000	1000	1000	1000
47-48	47-48	1000	1000	1000	1000
49-50	49-50	1000	1000	1000	1000
51-52	51-52	1000	1000	1000	1000
53-54	53-54	1000	1000	1000	1000
55-56	55-56	1000	1000	1000	1000
57-58	57-58	1000	1000	1000	1000
59-60	59-60	1000	1000	1000	1000
61-62	61-62	1000	1000	1000	1000
63-64	63-64	1000	1000	1000	1000
65-66	65-66	1000	1000	1000	1000
67-68	67-68	1000	1000	1000	1000
69-70	69-70	1000	1000	1000	1000
71-72	71-72	1000	1000	1000	1000
73-74	73-74	1000	1000	1000	1000
75-76	75-76	1000	1000	1000	1000
77-78	77-78	1000	1000	1000	1000
79-80	79-80	1000	1000	1000	1000
81-82	81-82	1000	1000	1000	1000
83-84	83-84	1000	1000	1000	1000
85-86	85-86	1000	1000	1000	1000
87-88	87-88	1000	1000	1000	1000
89-90	89-90	1000	1000	1000	1000
91-92	91-92	1000	1000	1000	1000
93-94	93-94	1000	1000	1000	1000
95-96	95-96	1000	1000	1000	1000
97-98	97-98	1000	1000	1000	1000
99-100	99-100	1000	1000	1000	1000

PLUGS AND ADAPTERS

Adapters—Material	Size
Heaving plug—Material	Length
	Depth and

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

OLDS USED

Rotary tools were used from	feet to	feet, and from	feet to	feet
Cable tools were used from	feet to	feet, and from	feet to	feet

DATE

[illegible]

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

Rock pressure, lbs. per sq. in.	Il gas well, cu. ft. per 24 hours
100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900
1000	1000
1100	1100
1200	1200
1300	1300
1400	1400
1500	1500
1600	1600
1700	1700
1800	1800
1900	1900
2000	2000
2100	2100
2200	2200
2300	2300
2400	2400
2500	2500
2600	2600
2700	2700
2800	2800
2900	2900
3000	3000
3100	3100
3200	3200
3300	3300
3400	3400
3500	3500
3600	3600
3700	3700
3800	3800
3900	3900
4000	4000
4100	4100
4200	4200
4300	4300
4400	4400
4500	4500
4600	4600
4700	4700
4800	4800
4900	4900
5000	5000
5100	5100
5200	5200
5300	5300
5400	5400
5500	5500
5600	5600
5700	5700
5800	5800
5900	5900
6000	6000
6100	6100
6200	6200
6300	6300
6400	6400
6500	6500
6600	6600
6700	6700
6800	6800
6900	6900
7000	7000
7100	7100
7200	7200
7300	7300
7400	7400
7500	7500
7600	7600
7700	7700
7800	7800
7900	7900
8000	8000
8100	8100
8200	8200
8300	8300
8400	8400
8500	8500
8600	8600
8700	8700
8800	8800
8900	8900
9000	9000
9100	9100
9200	9200
9300	9300
9400	9400
9500	9500
9600	9600
9700	9700
9800	9800
9900	9900
10000	10000

[illegible]

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0030	0040	10	Gravel
0040	0050	10	Gravel
0050	0060	10	Gravel
0060	0070	10	Gravel
0070	0080	10	Gravel
0080	0090	10	Gravel
0090	0100	10	Gravel
0100	0110	10	Gravel
0110	0120	10	Gravel
0120	0130	10	Gravel
0130	0140	10	Gravel
0140	0150	10	Gravel
0150	0160	10	Gravel
0160	0170	10	Gravel
0170	0180	10	Gravel
0180	0190	10	Gravel
0190	0200	10	Gravel
0200	0210	10	Gravel
0210	0220	10	Gravel
0220	0230	10	Gravel
0230	0240	10	Gravel
0240	0250	10	Gravel
0250	0260	10	Gravel
0260	0270	10	Gravel
0270	0280	10	Gravel
0280	0290	10	Gravel
0290	0300	10	Gravel
0300	0310	10	Gravel
0310	0320	10	Gravel
0320	0330	10	Gravel
0330	0340	10	Gravel
0340	0350	10	Gravel
0350	0360	10	Gravel
0360	0370	10	Gravel
0370	0380	10	Gravel
0380	0390	10	Gravel
0390	0400	10	Gravel
0400	0410	10	Gravel
0410	0420	10	Gravel
0420	0430	10	Gravel
0430	0440	10	Gravel
0440	0450	10	Gravel
0450	0460	10	Gravel
0460	0470	10	Gravel
0470	0480	10	Gravel
0480	0490	10	Gravel
0490	0500	10	Gravel
0500	0510	10	Gravel
0510	0520	10	Gravel
0520	0530	10	Gravel
0530	0540	10	Gravel
0540	0550	10	Gravel
0550	0560	10	Gravel
0560	0570	10	Gravel
0570	0580	10	Gravel
0580	0590	10	Gravel
0590	0600	10	Gravel
0600	0610	10	Gravel
0610	0620	10	Gravel
0620	0630	10	Gravel
0630	0640	10	Gravel
0640	0650	10	Gravel
0650	0660	10	Gravel
0660	0670	10	Gravel
0670	0680	10	Gravel
0680	0690	10	Gravel
0690	0700	10	Gravel
0700	0710	10	Gravel
0710	0720	10	Gravel
0720	0730	10	Gravel
0730	0740	10	Gravel
0740	0750	10	Gravel
0750	0760	10	Gravel
0760	0770	10	Gravel
0770	0780	10	Gravel
0780	0790	10	Gravel
0790	0800	10	Gravel
0800	0810	10	Gravel
0810	0820	10	Gravel
0820	0830	10	Gravel
0830	0840	10	Gravel
0840	0850	10	Gravel
0850	0860	10	Gravel
0860	0870	10	Gravel
0870	0880	10	Gravel
0880	0890	10	Gravel
0890	0900	10	Gravel
0900	0910	10	Gravel
0910	0920	10	Gravel
0920	0930	10	Gravel
0930	0940	10	Gravel
0940	0950	10	Gravel
0950	0960	10	Gravel
0960	0970	10	Gravel