

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYcopies to
Mr. Maddox
Roswell
filesSerial Number 045369
T.M. NS
Lease or Permit Permit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT RECORD OF SHOOTING	
NOTICE OF INTENTION TO CHANGE PLANS	RECORD OF PERFORATING CASING	
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO ABANDON WELL	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF ABANDONMENT	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO SHOOT	SUPPLEMENTARY WELL HISTORY	<input checked="" type="checkbox"/>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 30, 1938, 192 ^{SA New}Following is a ~~notice of intention to drill~~ on land under ~~lease~~ ^{permit} described as follows:

New Mexico San Juan Blanco
(State or Territory) (County or Subdivision) (Field)
Well No. 2 SW/4 Sec. 8 29 N. 9 W. New Mexico
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 1042 ft. N of S line and 1825 ft. E of W line of sec. 8The elevation of the derrick floor above sea level is 5325 ft.

DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

Plugged and abandoned as follows:

Cleaned mud out to 1700' and shot 6-5/8" casing at this depth. Shot caused well to unload. Re-mudded to about 1000' and tried to pull 8 1/4", parted at 650', mudded hole and pulled 475' of 10" casing. Mudded to surface and cemented in joint of 5-3/16" casing in 12 1/2" surface casing. After mud settled, returned and re-filled through the 5-3/16" which is fitted with screw cap. Left the following casing in the well:

6-5/8" - 440' from 1700' to 2140'
8-1/4" - 394' from 650' to 1094'
10" - 305' from 475' to 780'

Work began December, 1937, and shut down from time to time for various tools, jacks, etc. Shut down all of June and July, 1938. Work completed September 8, 1938.

Approved September 30, 1938Company UNION OIL & MINING COMPANYTitle JOHN A. FROST
District EngineerBy Bob Maddox
Title ContractorAddress Farmington, New MexicoAddress Astec, New Mexico

NOTE.—Reports on this form to be submitted in triplicate to the Supervisor for approval.

RECEIVED
APR 13 1928
U.S. GEOLOGICAL SURVEY
CASPER, WYO.

RECEIVED AND OFFICE Santa Fe, N.M.
APR 16 1928 SERIAL NUMBER 046369
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
PETROLEUM DIVISION

RECEIVED
APR 19 1928
U. S. GEOLOGICAL SURVEY,
SHIPROCK, NEW MEXICO

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Union Oil & Mining Company Address Astec, New Mexico, also 6027 Wright Blang, Tulsa, Okla.
Lessor or Tract H. J. Pine Permit Field Blanco State New Mexico
Well No. 3 Sec. 6 T^{29N} R^{9E} Meridian San Juan County New Mexico
Location 278 ft. ^N of 8 Line and 515 ft. ^E of 2 Line of SE 34 Elevation
(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 Union Oil & Mining Company by Ed J. Holland Title Superintendent
Date April 10, 1928

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

Commenced drilling March 4/3/26, 19 26 Finished drilling March 25, 19 26

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1208 to 1228-g No. 4, from 2105 to 2110-g
No. 2, from 1390 to 1417-0 No. 5, from 2110 to 2135-g
No. 3, from 2035 to 2045-g No. 6, from 2865 to 2950-g & 0

IMPORTANT WATER SANDS

No. 1, from 30 to 85 No. 3, from 285 to 1044
No. 2, from 785 to 790 No. 4, from 4010 to 4017-

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From	To	
<u>12 1/2</u>	<u>60</u>	<u>8</u>	<u>H. J.</u>	<u>30</u>	<u>plain</u>	<u>--</u>	<u>no</u>		<u>cemented</u>
<u>10</u>	<u>40</u>	<u>8</u>	<u>"</u>	<u>780</u>	<u>"</u>		<u>no</u>		<u>water</u>
<u>8 1/2</u>	<u>32</u>	<u>10</u>	<u>"</u>	<u>1044</u>	<u>"</u>		<u>no</u>		<u>"</u>
<u>6-5/8</u>	<u>24</u>	<u>10</u>	<u>"</u>	<u>2140</u>	<u>"</u>		<u>no</u>		<u>oil string</u>
<u>6-5/8-20</u>	<u>20</u>	<u>10</u>	<u>"</u>	<u>2970</u>	<u>"</u>		<u>2850</u>	<u>2970</u>	<u>"</u>

CASING OR TOOLS LOST OR SIDETRACKED

From 4244 to 4289 Description string, 7 x 3 joint, 8 1/2 stem
From to 3689 Description part of rope knife
From to Description

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>12 1/2</u>	<u>30</u>	<u>8</u>	<u>regulations</u>		
		<u>32</u>	<u>"</u>	<u>from bottom to 3990</u>	<u>cemented</u>
		<u>7</u>	<u>" then</u>	<u>added to 3792</u>	<u>wooden plug, cement</u>

From 4244 to 4269 Description string, 7 x 3 joint, 32 stem
 From to 3689 Description part of rope knife
 From to Description

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
12 1/2	30	8	regulations		
		32	"	from bottom to 3990 cemented	
		8	" then	added to 3792, wooden plug, cement	
				mudded to 3250 then wooden plug,	
				then cement, then plug to 3250	

PLUGS AND ADAPTERS

Heaving plug—Material wooden Length 2 ft Depth set as above
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
31' 8" x 4"	Tin	Nitro G	80	4/8/28	2922 to 2890.4"	
70' x 3 1/2"	"	"	140	"	2990.4" to 2852	
Above in one shot-- now running casing and cleaning out.						

TOOLS USED

Rotary tools were used from 0 feet to _____ feet, and from _____ feet to _____ feet
 Cable tools were used from 0 feet to 4289 feet, and from _____ feet to _____ feet

DATES

Put to producing now cleaning out 19____
 The production for the first 24 hours was none-shot bridged well
 barrels of fluid of which _____ % was oil; _____ %
 emulsion; _____ % water; and _____ % sediment. Gravity, B6.

If gas well, cu. ft. per 24 hours 556.000 Gallons gasoline per 1,000 cu. ft. of gas Est. 3 qt to M
 Rock pressure, lbs. per sq. in. 800

EMPLOYEES

L.B. Teague, contractor Driller H.I. Waid, below 2500 ft. Driller
to 2500 feet. Driller _____ Driller _____

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	30	30	wash sand
30	85	85	sand, water
85	150	150	Blue shale
150	170	170	sand, water filling hole
170	320	320	Blue sticky shale
320	350	350	Sandy shale
350	365	365	Light sandy shale
365	500	500	Blue sticky shale
500	530	530	Sand
530	535	535	Sand
535	550	550	Blue sticky shale
550	560	560	" "
560	568	568	Sandy shale.

FORMATION RECORD—Continued.

FROM	TO	TOTAL FEET	FORMATION
568	580	580	Gray sticky shale
580	735	735	Blue sticky shale
735	770	770	water sand
770	785	785	Blue shale
785	885	885	Light blue shale
885	1044	1044	Water sand, thin shale break set 8 1/2 inch casing
1044	1170	1170	Light blue sandy shale
1170	1176	1176	Gray sand, dry
1176	1180	1180	Light blue shale
1180	1195	1195	Gray sand, dry
1195	1208	1208	Black shale
1208	1225	1225	Sand, showing of gas on top
1225	1252	1252	Light blue shale
1252	1260	1260	Hard, greenish-gray sand, dry
1260	1290	1290	Light blue sandy shale
1290	1296	1296	Gray sand
1296	1375	1375	Light blue sandy shale
1375	1390	1390	Light blue shale
1390	1417	1417	Sand, dry, showing oil.
1417	1430	1430	Sand, dry,
1430	1470	1470	Dark blue shale
1470	1500	1500	Light blue shale
1500	1780	1780	Blue shale
1780	1790	1790	Black shale
1790	1955	1955	Black shale, showing coal.
1955	1960	1960	Coal.
1960	2035	2035	Black shale, some coal, some gas
2035	2045	2045	shells and gas
2045	2100	2100	Black shale
2100	2105	2105	More gas
2105	2110	2110	shale, some gas
2110	2135	2135	Sand, dry, soft, some gas
2135	2138	2138	Shell, gas
2138	2143	2143	Shale break
2143	2210	2210	Sand, gas
2210	2400	2400	Sandy shale, dark blue
2400	2410	2410	Black sand.
2410	2415	2415	Black sandy shale
2415	2425	2425	Shale, white pebbles.
2425	2865	2865	Shale, black, sandy
2865	2950	2950	Shales and sands, some oil and gas.
2950	2995	2995	Hard brown shale.
2995	3155	3155	Brown sandy shale, hard.
3155	3260	3260	Sandy shale
3260	3718	3718	Sand and lime
(Gas from 3155 to 3175)			
3718	3728	3728	Dry sand, light gray.
3728	3765	3765	Dark sandy shale
3765	3787	3787	Shale and coal
3787	3890	3890	Sand, dry, gray, hard.
3890	4010	4010	Dark shale, soft.
4010	4017	4017	Coal and sand, One bailer of water after 12 hours shut down.
4017	4070	4070	Dark sandy shale, soft.
4070	4092	4092	Sand, dry.

3156	3260	3260	Sandy shale
3260	3718	3718	Sand and lime
	(Gas from 3156 to 3175)		
3718	3728	3728	Dry sand, light gray.
3728	3765	3765	Dark sandy shale
3745	3787	3787	Shale and coal
3787	3890	3890	Sand, dry, gray, hard,
3890	4010	4010	Dark shale, soft.
4010	4017	4017	Coal and sand, One bailer of water
			after 12 hours shut down.
4017	4070	4070	Dark sandy shale, soft.
4070	4092	4092	Sand, dry.
4092	4097	4097	White hard sand
4097	4117	4117	Hard shale, soft
4117	4142	4142	Sand, white, hard, dry.
4142	4165	4165	Light sandy shale
4165	4289	4289	Shale with sand streaks, dark and
			hard, except last 8 feet which
			was more sandy and lighter in color

NOTE.

Plugging, cementing, shooting done under direction and supervision of Department Field Inspector Snow of Shiprock, New Mexico. See copy of his letter attached.

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U. S. Land Office

note old lease
Santa Fe

Serial Number **046369**

Lease or Permit **Permit**

RECEIVED
U. S. GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT RECORD OF SHOOTING	NOV 18 1930 MEX.
NOTICE OF INTENTION TO CHANGE PLANS	RECORD OF PERFORATING CASING	
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REPORT ON RESULT OF TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO ABANDON WELL	
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(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Astco, New Mexico, November 18, 1930

Following is a ~~notice of intention to do work~~ report of work done on land under ~~permit~~ described as follows:

New Mexico (State or Territory) **San Juan** (County or Subdivision) **Blanco** (Field)
Well No. **2** **SE 3-3-2** **8** **29N** **9W** **N.M.P.M.**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located **278** ft. **S** of **N** line and **815** ft. **E** of **W** line of sec. **SE 3-3-2**

The elevation of the derrick floor above sea level is _____ ft.

DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

This well has been mudded in from bottom at approximately 2920', where the 5-3/16" casing was set, to the surface, the 5-3/16" casing pulled and the space between the 6-5/8" and 8" casing filled with mud, after lifting the 6-5/8" casing to obtain circulation behind same.

The well will be left as is, mudded in, until conditions warrant further repair work or a market is developed for the available gas.

Unfavorable conditions in the oil industry at this time did not warrant the expenditures necessary to place the well in first class condition as per Notice to Repair, dated June 4, 1930.

APPROVED AS A MATTER OF RECORD ONLY:

Approved **DECEMBER 2, 1930.**
(Date)
John A. Fawcett

Title **Petroleum Engineer, U.S. GEOLOGICAL SURVEY**

Address **Washington, D.C.**

Company **UNION OIL & SWEET COMPANY**
By *Ed J. Hollander*

Title **Field Manager**
927 W. 1st Bldg

Address **Tulsa, Okla.**

NOTE.—Reports on this form to be filed to the Supervisor for approval.

Box 188,
Farmington, New Mexico,
December 24, 1929.

Mr. J. W. Steels,
Casper Office.

SUBJECT: Condition of Well # 2, Sec.
8-29N-9W. Santa Fe 046369.

Dear Mr. Steele:-

Please refer to office letter of December 18, 1929 by Mr. H. G. Barton, on the above subject.

According to the records this well was drilled to a total depth of 4289' and later plugged back to 3250'. The 5-3/16" casing was perforated from 2830' to 2970' and run and set at 2970' after shooting the hole from 2852' to 2980', leaving the balance of the hole open to 3250', except that portion which may be filled up from the shot and subsequent caving. This string being perforated and probably hanging at 2970', rather than being set, leaves the exposed behind this string of casing to 2140' where the 6-1/8" casing is set. The following oil and gas sands have been logged,

2035'-2045'	Gas
2105'-2110'	"
2110'-2138'	" 6-5/8" casing set at 2140'
2865'-2950'	" and oil. 5-3/16" casing at 2970'

4. The gas volume was reported at 556,000 cu. ft.. However, at this time it is estimated, not having equipment to test open flow, at approximately 100,000 cu. ft. It appears that this well has been produced for oil at the expense of the gas, in that it has been allowed to flow open since completion, the gas going to waste in the air and the oil being collected in a gas trap. Furthermore, the oil is being retained in an open tank at the well, and being reported as 48 gravity, the resultant loss from evaporation is rather high.

It is not believed that another well drilled upon this permit would result ~~in a commercial producer~~ in a commercial producer, testing the same horizons that this well penetrated. Your attention is called to the Huntington Park, Dorothy Oil Company, Goede # 1, Sec. 29-30N-9W. This well is approximately 3 miles north of the well in question and has reached a depth of 4550'. This well encountered

J. W. Steele,
Page # 2,
Dec. 24, 1929.

approximately 225,000 cu. ft. of gas in the Picture Cliff sand, and approximately 300,000 cu. ft. in the Mesa Verde sand. Some oil was encountered at approximately 1650' and from file information it was reported as 3 barrels and some water. This well, I believe, is a fair test of the corresponding horizons in the Pine Well, and as you will note the discoveries are very nearly the same. The surface formations are practically the same and no apparent structural changes between the two wells.

Very truly yours,

JOHN A. FROST.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
CONSERVATION BRANCH

Sec. 8

T. 29N

R. 9W

New Mexico Mer.

Ref. No. 2

PUBLIC LAND:

Land office Santa Fe State New Mexico

Serial No. 016369 County San Juan

Permittee

~~no lease~~ Harry E. Pine Field Blanco

Operator Union Oil & Mining Co. District Farmington

Well No. 2 Pine Subdivision II Cor. SE ¼ SW ¼ Sec.

Location 1042 feet from N. S. line and 1825 feet from W. line of ¼ ¼ Sec.

Drilling approved March 27 19.26 Well elevation 5695 feet

Drilling commenced April 3 19.26 Total depth 4289 feet

Drilling ceased March 25 19.28 Initial production Oil - 4 bbls.
Gas - 540 M.

Completed for production 19. Gravity A. P. I. 48.8 deg.

Abandonment approved Sept. 30 19.38 Initial R. P. 835 lbs.

Geologic Formations

Productive Horizons

Surface	Lowest tested	Name	Depths	Contents
Torrejon	Mesaverde	Lewis shale	2865-2950	Oil & Gas

WELL STATUS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1931	Mudded in for indefinite suspension.											
1932	DSI											
1934	DSI											
1937												ABD
1938	ABD					Fsg.	SD.	CO @ 900'	P&A.			

REMARKS Well PB from 4289 to 3250. Mudded in November 1930. Oil analysis on record.
Comp. set fwd. Roswell 10-12-38.

NM 73877 c/A NM 74082 c/A
A. J. J. 2

NM 58997
Amoco

NM 73269
c/A

Amoco
NM 73321
c/A

Amoco
NM 73534
c/A

UNION OIL & MINING COMPANY

INCORPORATED

827 WRIGHT BUILDING
TULSA, OKLAHOMA

January 15, 1930

Mr. John A. Frost,
Box 188,
Farmington, New Mexico.

SUBJECT: Permit Santa Fe
#046369.

Mechanical condition well #2

Dear Mr. Frost:

We have your letter of 10th, inst., addressed to this office, relative to the mechanical condition of the above well in Sec. 8, 29N-9W, San Juan County, New Mexico.

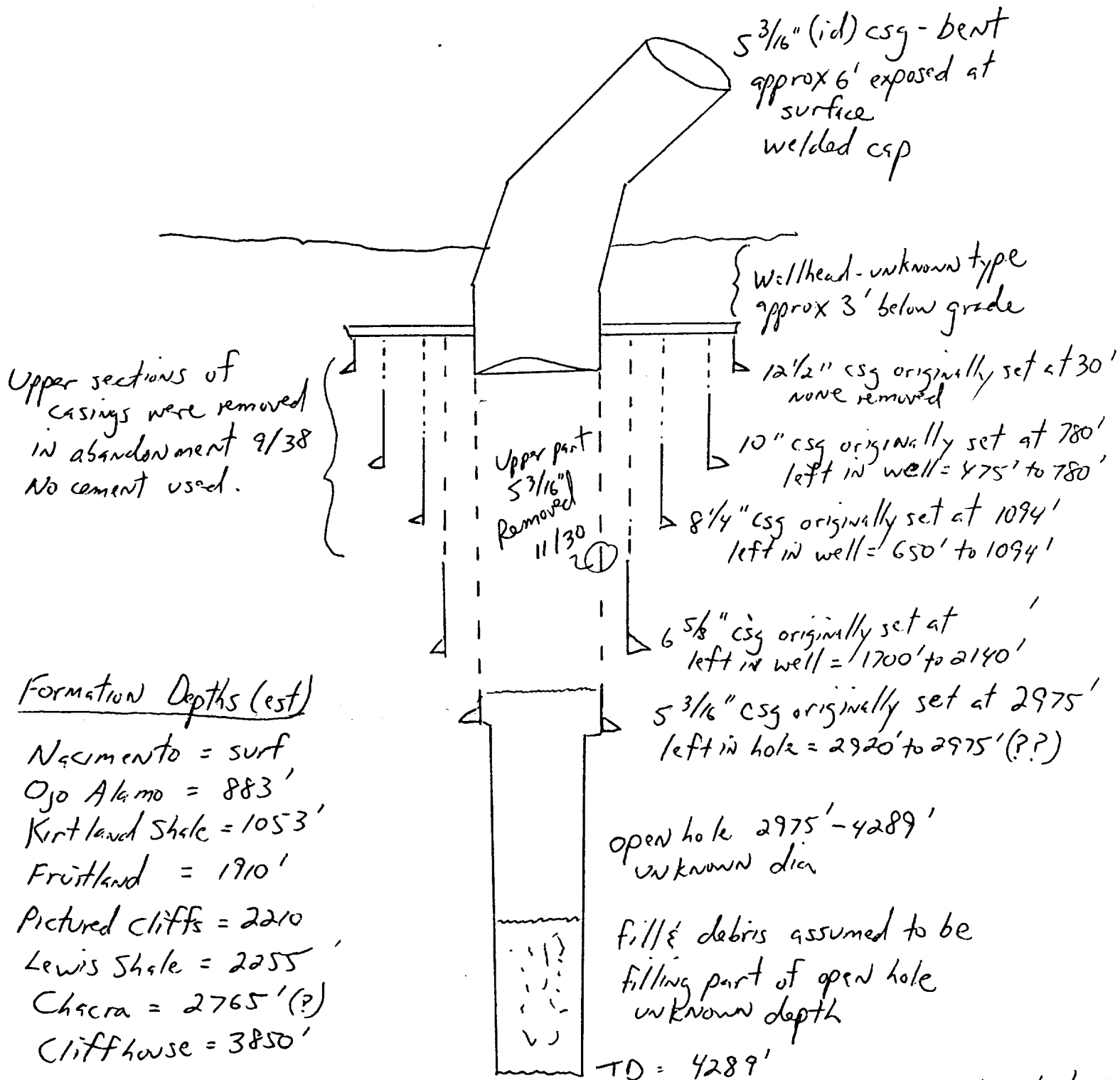
Mr. Green had taken this matter up in previous correspondence, having sent you a copy of the letter which you had evidently not received on the 10th, the date of your letter to him, he having asked in his letter, the advice of the Department as to what should be done with this well, and explaining our prime object in the handling of same, was and is, to protect ourselves on the permit, upon which you are aware that we have spent close to \$100,000.00. We have filed an application for an extension of this permit, and have not applied for a lease as your letter indicated. Of course, we prefer a lease if same can be granted at this time without forcing us to do additional drilling under the present market conditions, and we would be pleased to hear from you as to any information you might have relative to the requirements on the department leases at the present time.

Paragraph #1 of your letter, states the 6-5/8" casing set at 2140 feet which is correct, this 6-5/8" shut off all water and cave down to this depth. Below this depth, we picked up some sandy shale that carried some gas and on down around 2850 to 2950 we placed the shot of 220 quarts, and after cleaning out we run the 5-3/16" Casing in the hole to approximately 2900 feet, clamping it there. We put 100 feet of perforated pipe in this 5-3/16" the perforation extending from 2150 to 2250, the object of which was to allow the gas at 2150 to enter the 5-3/16", and of course, as the top of this perforation extends up to the 6-5/8" when the 5-3/16" was shut in it forced the gas up outside the 5-3/16". At the time we completed the well we had packed this off at the top of the hole, forcing all the gas out thru the 5-3/16".

I note further in your letter that you refer to open hole down as low as 3250 feet. At the time we shot the well the hole was plugged up to 2970 feet which leaves only the gas sand open at 2850 to 2950, and the pay sand at produces the small amount of oil at 2150.

ABANDONED IN SEPT 1938

UNION OIL & MINING PINE #2
1042' FSL & 1825' FWL - SEC 8 T29N R9W



SK 10/23/55