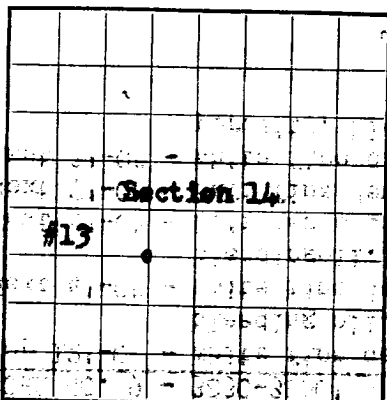


U. S. LAND OFFICE **Las Cruces**SERIAL NUMBER **029418-a**

LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

RECEIVED

MAY 9 1962

O. C. C.
ARTESIA, OFFICE

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Skelly Oil Company**Address **P.O. Box 38 - Hobbs, New Mexico**Lessor or Tract **Lea "A"**Field **Grayburg Jackson** State **New Mexico**Well No. **13** Sec. **14** T. **17S** R. **31E** Meridian **N.M.P.M.**County **Eddy**Location **1980** ft. **N** of **S** Line and **1980** ft. **E** of **W** Line of **Section 14**Elevation **3909'** DF
(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

(ORIGINAL) **H. E. Aab**Date **May 3, 1962**Title **Dist. Supt.**

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

Commenced drilling **January 21**19 **62**Finished drilling **February 2**19 **62**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3264'** to **3417'**

No. 4, from _____ to _____

No. 2, from **3502'** to **3542'**

No. 5, from _____ to _____

No. 3, from **3572'** to **3860'**

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"	24.7	8-9	SS 1-55	175	Open				Surface
4-1/2"	11.8	8-9	SS 1-55	3850	Flow		3756	3839	Oil String
							(intervals)		

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	772'	340	Pump & Plug	---	---
4-1/2"	3860'	345	Pump & Plug	---	---

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
Treated through 4-1/2" OB casing perfs. 3756-3839 (intervals) with 53,466 gals. lease oil & 28,000 20/40 sand, 2000 gals. 15% Reg. Acid & 15 ball sealers by the Western Co.						

TOOLS USED

Rotary tools were used from **0** feet to **3860** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing **April 13**, 19 **62**The production for the first 24 hours was **11** barrels of fluid of which **99.9** % was oil; _____ % emulsion; _____ % water; and **.1** % sediment.Gravity, °Bé. **36.79**

If gas well, cu. ft. per 24 hours _____

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Shannon _____, Driller
Garro _____, Driller
Williams _____, Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	530	530	Sand & red beds
530	719	189	Anhydrite
719	1708	989	Salt
1708	1882	174	Anhydrite
1882	2218	336	Sand & anhydrite
2218	2838	620	Dolomite, anhydrite & sand
2838	3018	180	Sand & anhydrite
3018	3230	212	Sand
3230	3504	274	Dolomite & sand
3504	3582	78	Sand
3582	3860	278	Dolomite
	3860 Total Depth		
	3854 Plugged Back Total Depth		

GEOLOGICAL TOPS BY SONNENBERGER GAMMA RAY DENSITY LOG:

Top Anhydrite	530'
Top Salt	719'
Base Salt	1708'
Top Yates	1882'
Top Seven Rivers	2218'
Top Queen	2838'
Top Penrose	3018'
Top Grayburg	3230'
Top Premier	3504'
Top San Andres	3582'

FORMATION RECORD—Continued

FROM	TO	TOTAL FEET	FORMATION
------	----	------------	-----------

CONF NO. 1 - 3500-35561 - Recovered 52.30%
Top 7.30% - Buff dense and little sandy dolomite, NS.
These deposits & stain

Next 8'-0" - Buff line dolomite thin, better fluorescence, trace porosity, NS
Next 9'-0" - White dense calcitic slightly sandy anhydritic dolomite, no porosity, NS
Next 21'-0" - White fine to medium calcitic dolomite, good fluorescence & stain, 10%

Next 6-8 ft. White dense calcite slightly sandy dolomite, NS. Vuggy porosity.

Next 1'-0" - Buff fine dolomitic sand, spotted fluorescence, trace porosity & stain.

Next 5'-0" Gray dense sandy dolomite & dolomitic sand, MS.
Last 3'-0" Red-pink sandy dense dolomite, MS.

Top 4'-0" - Buff-gray dense sandy dolomite, partly pisolitic with green-gray shale & Next 13'-0" - Red-pink shaley dolomite & dolomitic sand, NS.

Next	2.00	Bury-pink dense dolomite, NS.
Next	5.00	Red sandy dolomite, NS.
Next	1.00	Pink dense dolomite, NS.

Next 3'-0" Gray sandy oolitic dolomite, NS.
Next 6'-0" Pink buff dolomite, large anhydrite inclusions, NS.
Late Fluorescence

Next 3.0"	White line to medium crystalline angular dolomite, good yellow fluorescence, 20% porosity & stain.	CORE NO. 3
Last 3.0"	White medium crystalline angular dolomite, good yellow fluorescence, 20% porosity & stain.	
	3611-5667 - Recovered 50'	

Top 7.0' - White medium crystalline calcitic dolomite, good fluorescence & strain, X

Next 61-011 - White fine to medium crystalline deposits, fair fluorescence & stain

Next 121-0"-white fine to medium crystals, trace fluorapatite, trace fluorapatite dolomite, trace fluorapatite.

Next 61.0% - Any white fine to medium crystalline anhydrite with fossiliferous dolomite, trace fluorescence, no porosity.

Next 17'-0" Light gray, fine to medium crystalline, some shaly partings, NS.
Next 11'-0" Tan brown, dense lithographic dolomite with more shaly partings, NS.
Last 21'-0" Light gray to buff, fine dense dolomite with few pink spots.

Top 4.0' - - Gray buff, fine dense oolitic and argillite dolomite with gray shale streaks

Next 81-0" - Grey-buff dense anhydritic dolomite, trace of fluorescence, no prosity.
Next 27-0" - Buff dense dolomite, fluorescence on fractures, no prosity.

March 6, 1940 - Brown pine dolomite with various gray marls and at top - some spotted fluorescence, 5% waxy black wax stain.

Next 21'-0" - Brown shaley dolomite, gray shale, trace fluorescence, no porosity.

Next	Time	Color	Quantity	Date	Depth	Remarks
Next	21-00	Gray fine detrital sand, spotted ironstone, trace fossils, a small			10 ft (least)	
Next	11-00	Green-gray shale, MS.				
Next	15-00	Red dense dolomite, bottom 2' fractured with ironstone & chert off				

COPIES OF THE REPORTS OF THE SHOOTING RECORDS.

Top 01-6" - Buff dense nodular, no. Length 100 ft.
Next 01-3" - Green-gray shale.
Next 01-6" - Buff dense dolomite, trace fluorescence on fractures, NS.
PLUGS AND ADAPTERS

Next 0'-3"	- Green-Gray fine micaceous shale.
Next 4'-6"	- Buff dense dolomite, MS.

Next 0-1-9 - Green-Rock, dense, shale with thin dolomite streaks. Amount of limestone.

North 31-0	-	Light Gray fine dense dolomite, ss.
Last 51-0	-	Buff fine dense dolomite with occasional thin beds of fluorescence on fract.
Core No 6	-	121-02251 - 121-02252

Top 131.0 - But the dense amygdalite dolomite with green-gray shale partings.

Notes of the greatest importance to have a complete history of the well. Please state in detail the dates, conditions, with the logging for the work and the results. If there were any changes made in the casing, state fully, and if any casing or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and nature of the dynamite used, and the results.

Item No.	Description	Quantity	Unit	Price	Total
1	Concrete for bridge piers	100	cuyd	1.50	150.00
2	Concrete for bridge deck	200	cuyd	2.00	400.00
3	Concrete for bridge abutments	50	cuyd	1.00	50.00
4	Concrete for bridge approach	150	cuyd	1.20	180.00
5	Concrete for bridge railing	100	cuyd	0.50	50.00
6	Concrete for bridge drainage	100	cuyd	0.20	20.00
7	Concrete for bridge foundation	100	cuyd	1.00	100.00
8	Concrete for bridge pier cap	50	cuyd	1.00	50.00
9	Concrete for bridge deck slab	200	cuyd	2.00	400.00
10	Concrete for bridge approach slab	150	cuyd	1.20	180.00
11	Concrete for bridge railing base	100	cuyd	0.50	50.00
12	Concrete for bridge drainage base	100	cuyd	0.20	20.00
13	Concrete for bridge foundation base	100	cuyd	1.00	100.00
14	Concrete for bridge pier cap base	50	cuyd	1.00	50.00
15	Concrete for bridge deck slab base	200	cuyd	2.00	400.00
16	Concrete for bridge approach slab base	150	cuyd	1.20	180.00
17	Concrete for bridge railing base base	100	cuyd	0.50	50.00
18	Concrete for bridge drainage base base	100	cuyd	0.20	20.00
19	Concrete for bridge foundation base base	100	cuyd	1.00	100.00
20	Concrete for bridge pier cap base base	50	cuyd	1.00	50.00
21	Concrete for bridge deck slab base base	200	cuyd	2.00	400.00
22	Concrete for bridge approach slab base base	150	cuyd	1.20	180.00
23	Concrete for bridge railing base base base	100	cuyd	0.50	50.00
24	Concrete for bridge drainage base base base	100	cuyd	0.20	20.00
25	Concrete for bridge foundation base base base	100	cuyd	1.00	100.00
26	Concrete for bridge pier cap base base base	50	cuyd	1.00	50.00
27	Concrete for bridge deck slab base base base	200	cuyd	2.00	400.00
28	Concrete for bridge approach slab base base base	150	cuyd	1.20	180.00
29	Concrete for bridge railing base base base base	100	cuyd	0.50	50.00
30	Concrete for bridge drainage base base base base	100	cuyd	0.20	20.00
31	Concrete for bridge foundation base base base base	100	cuyd	1.00	100.00
32	Concrete for bridge pier cap base base base base	50	cuyd	1.00	50.00
33	Concrete for bridge deck slab base base base base	200	cuyd	2.00	400.00
34	Concrete for bridge approach slab base base base base	150	cuyd	1.20	180.00
35	Concrete for bridge railing base base base base base	100	cuyd	0.50	50.00
36	Concrete for bridge drainage base base base base base	100	cuyd	0.20	20.00
37	Concrete for bridge foundation base base base base base	100	cuyd	1.00	100.00
38	Concrete for bridge pier cap base base base base base	50	cuyd	1.00	50.00
39	Concrete for bridge deck slab base base base base base	200	cuyd	2.00	400.00
40	Concrete for bridge approach slab base base base base base	150	cuyd	1.20	180.00
41	Concrete for bridge railing base base base base base base	100	cuyd	0.50	50.00
42	Concrete for bridge drainage base base base base base base	100	cuyd	0.20	20.00
43	Concrete for bridge foundation base base base base base base	100	cuyd	1.00	100.00
44	Concrete for bridge pier cap base base base base base base	50	cuyd	1.00	50.00
45	Concrete for bridge deck slab base base base base base base	200	cuyd	2.00	400.00
46	Concrete for bridge approach slab base base base base base base	150	cuyd	1.20	180.00
47	Concrete for bridge railing base base base base base base base	100	cuyd	0.50	50.00
48	Concrete for bridge drainage base base base base base base base	100	cuyd	0.20	20.00
49	Concrete for bridge foundation base base base base base base base	100	cuyd	1.00	100.00
50	Concrete for bridge pier cap base base base base base base base	50	cuyd	1.00	50.00
51	Concrete for bridge deck slab base base base base base base base	200	cuyd	2.00	400.00
52	Concrete for bridge approach slab base base base base base base base	150	cuyd	1.20	180.00
53	Concrete for bridge railing base base base base base base base base	100	cuyd	0.50	50.00
54	Concrete for bridge drainage base base base base base base base base	100	cuyd	0.20	20.00
55	Concrete for bridge foundation base base base base base base base base	100	cuyd	1.00	100.00
56	Concrete for bridge pier cap base base base base base base base base	50	cuyd	1.00	50.00
57	Concrete for bridge deck slab base base base base base base base base	200	cuyd	2.00	400.00
58	Concrete for bridge approach slab base base base base base base base base	150	cuyd	1.20	180.00
59	Concrete for bridge railing base base base base base base base base base	100	cuyd	0.50	50.00
60	Concrete for bridge drainage base base base base base base base base base	100	cuyd		

Next 21.0" - white fine-medium flint, anhydritic dolomite, poor po

Next 6'-0" - Buff fine crystalline white dense collitic dolomite, MS.
Next 2'-0" - Green-gray shaly dense anhydrite dolomite,
MS.

Next 3'-0" - Blue limestone
Last 3'-0" - White fine-medium collite and pyrite dolomite, 10% vugs & fractured
Mo. 3 from
Good spotted limestone & bleeding oil.

COBE NO. 7 - 3751-3799 - recovered 15%
Top 4' - 0" - gray fine dense dolomite, 20%
vugs porosity & orange-brown fluorescence

Next 6'-0" - Gray fine dense diploids, trace brown oil stain.

17-86 9-04 - Tan-gray denim dolomite, MS.
Circuit Diagram:
Finished outfit as shown.

Top 4'-0" - Buff dense dolomite, trace fluorescence on fractures.
Next 7'-0" - White dense calcite dolomite, 10% vuggy porosity, good fluorescence.

(SIGNED) H. E. VAP

oil on fractures & vugs.
Next 1'-0" green dolomitic shale, MS.
to
of
time of
Elevation 2'

Next 31.0" - Butt-white fine dense dolomite, 30% angular porosity, good fluorescent dead oil.

Next 1-10 m - Gray-white, fine dense dolomite, good thickness, then all on fact

LOG OF OIL OR GAS WELL

bleeding all, some dead brown glaucous.
Next 7, 0 - White fine dense denticulate, trace porosity, good spotted lustrousness

Next 7.0m - Buff dense dolomite, streaks green-gray shaly dolomite, MS.
Next 7.0m - Buff fine dense dolomite, streaks gray, good Mn-ores on fract

1000 - 1000' - White fine crystalline anhydritic sulfate dolomite, trace pyrite, in porosity, blebbing live oil, some brown glauconite.

[illegible]