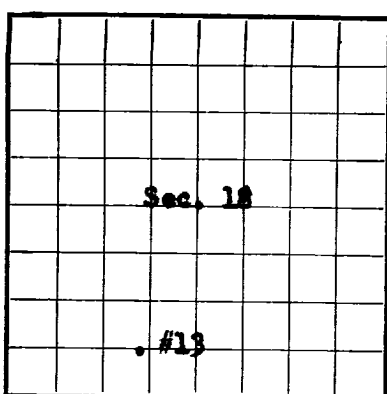


Geopis ent. DEC August 19, 1958

Form 9-230

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER NM 013492
LEASE OR PERMIT TO PROSPECT
A. L. Duff



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Skelly Oil Company Address Box 426 Farmington, New Mexico
Lessor or Tract A. L. Duff Field Bisti (Gallup) Ext State New Mexico
Well No. 13 Sec. 18 T. 26N R. 13W Meridian N.M.P.M. County San Juan
Location 660 ft. N. of 3 Line and 2494 ft. E. of W Line of Sec. 18-26N-13W Elevation 6529'
(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 G. E. Cooper

Date August 19, 1958 Title District Superintendent

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

Commenced drilling July 17, 1958 Finished drilling July 31, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5346 to 5364 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—	
10-3/4" OD	32.75	8	H-40	200'	Guide	5346			Production
5 1/2"	14.7	8	H-40	1500'	Guide	5346			Production
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4" OD	215'	250	Halliburton		
5 1/2"	5437'	200	Halliburton		

Temperature survey indicated top of cement behind 5 1/2" casing at 4620'

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
Frased down 5 1/2" casing through 5 1/2" casing perforations 5346-64' with 40,000# of sand and 53,340 gals. of lease oil. BDP 2000#, broke to 1500#, Max. TP 2400#, Min. TP 2000# Inf. rate 47.1 bbls. per min.						

TOOLS USED

Rotary tools were used from _____ feet to 5438 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing August 16, 1958

The production for the first 24 hours was 135 barrels of fluid of which 99.8% was oil; .2% emulsion; _____% water; and _____% sediment. Gravity, °Bé. 37.9

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Schafer Drilling Company, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1670	1670	Sand and Shale
1670	1758	88	Sand and Shale - Top Pictured Cliffs 1670'
1758	3148	1390	Sand and Shale - Top Lewis 1758'
3148	3205	57	Sand and Shale - Top Cliff House 3148'
3205	4120	915	Sand and Shale - Top Menefee 3205'
4120	4322	202	Sand and Shale - Top Point Lookout 4120'
4322	5233	911	Sand and Shale - Top Mancos 4322'
5233	5338	105	Sand and Shale - Top Gallup "H" 5233'
5338	5438	100	Sand and Shale - Top Gallup "H" 5338'
Tops by Schlumberger Induction-Electrical Log			
TOTAL DEPTH		5438'	
PRODUCED BACK TOTAL DEPTH		5399'	

FORMATION RECORD—CONTINUED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

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

Date _____

Completed drilling _____

18-58 _____

18-59 _____

18-60 _____

18-61 _____

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21

OIL OR GAS SANDS OR ZONES

(Derechos reservados por el C. S. de la U. de Chile)

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

IMPORTANT WATER SANDS

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

(Denote box on C)

CASING RECORD

Case No.	Per No.	Per No.	Amount	Kind of shoe	Cut and gait of shoe	Estimated	Pinpoint
----------	---------	---------	--------	--------------	----------------------	-----------	----------

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reworking, 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 "matted off," or fell in the well, give its size and location. If pumps or bridges were put in use, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

Crane size	Wharf set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
12"	100'	100	100'	100'	100'

PLUGS AND ADAPTERS

Heaving plug—Material	Depth	Depth set
Adapters—Material		

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
100 lb			100 lb	10/10/10	100 ft	100 ft
50 lb			50 lb	10/10/10	50 ft	50 ft
25 lb			25 lb	10/10/10	25 ft	25 ft
10 lb			10 lb	10/10/10	10 ft	10 ft
5 lb			5 lb	10/10/10	5 ft	5 ft
2 lb			2 lb	10/10/10	2 ft	2 ft
1 lb			1 lb	10/10/10	1 ft	1 ft
1/2 lb			1/2 lb	10/10/10	1/2 ft	1/2 ft
1/4 lb			1/4 lb	10/10/10	1/4 ft	1/4 ft
1/8 lb			1/8 lb	10/10/10	1/8 ft	1/8 ft
1/16 lb			1/16 lb	10/10/10	1/16 ft	1/16 ft
1/32 lb			1/32 lb	10/10/10	1/32 ft	1/32 ft
1/64 lb			1/64 lb	10/10/10	1/64 ft	1/64 ft
1/128 lb			1/128 lb	10/10/10	1/128 ft	1/128 ft
1/256 lb			1/256 lb	10/10/10	1/256 ft	1/256 ft
1/512 lb			1/512 lb	10/10/10	1/512 ft	1/512 ft
1/1024 lb			1/1024 lb	10/10/10	1/1024 ft	1/1024 ft
1/2048 lb			1/2048 lb	10/10/10	1/2048 ft	1/2048 ft
1/4096 lb			1/4096 lb	10/10/10	1/4096 ft	1/4096 ft
1/8192 lb			1/8192 lb	10/10/10	1/8192 ft	1/8192 ft
1/16384 lb			1/16384 lb	10/10/10	1/16384 ft	1/16384 ft
1/32768 lb			1/32768 lb	10/10/10	1/32768 ft	1/32768 ft
1/65536 lb			1/65536 lb	10/10/10	1/65536 ft	1/65536 ft
1/131072 lb			1/131072 lb	10/10/10	1/131072 ft	1/131072 ft
1/262144 lb			1/262144 lb	10/10/10	1/262144 ft	1/262144 ft
1/524288 lb			1/524288 lb	10/10/10	1/524288 ft	1/524288 ft
1/1048576 lb			1/1048576 lb	10/10/10	1/1048576 ft	1/1048576 ft
1/2097152 lb			1/2097152 lb	10/10/10	1/2097152 ft	1/2097152 ft
1/4194304 lb			1/4194304 lb	10/10/10	1/4194304 ft	1/4194304 ft
1/8388608 lb			1/8388608 lb	10/10/10	1/8388608 ft	1/8388608 ft
1/16777216 lb			1/16777216 lb	10/10/10	1/16777216 ft	1/16777216 ft
1/33554432 lb			1/33554432 lb	10/10/10	1/33554432 ft	1/33554432 ft
1/67108864 lb			1/67108864 lb	10/10/10	1/67108864 ft	1/67108864 ft
1/134217728 lb			1/134217728 lb	10/10/10	1/134217728 ft	1/134217728 ft
1/268435456 lb			1/268435456 lb	10/10/10	1/268435456 ft	1/268435456 ft
1/536870912 lb			1/5			

TOOL 2 USED

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

DATE:

If gas well, cu. ft. per 24 hours	Gallons gasoline per 1,000 cu. ft. of gas
% water; and % sediment	Gravity, lbs.
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____%	Pnt to producing _____
	DATES _____

EMBI OYFES

	Driller		EMPLOYEES		Driller	
	Driller					

FORMATION RECORD

[illegible]

FORMATION RECORD—Continued