

WELL RECORD

Company _____ Lease W. A. Hays Well No. 1
 County _____ State New Mexico Section 34 Township 21S Range 36E Acre _____
 Rig Commenced _____ Drilling Commenced 4-16-28 Shot _____ Qts. _____
 Rig Completed _____ Drilling Completed 12-19-28 Date Shot _____
 _____ Gypsy Tools _____
 Rig Co. _____ Drilling Contractor _____ Torpedo Co. _____

CASING RECORD

Size	Wgt.	Thd.	Length	Seamless	Put in	Pulled	Left in
20"					270		
15 1/2"					880		
12 1/2"					1459		
10"					2195		
8 1/4"					3068 ✓		
6 5/8"							
5 1/4"							

SAND RECORD

Name	Top	Bottom
First gas encountered at 3218'		
below point where 8-1/4" is		
set. Gas is coming from		
several points in hole below		
8-1/4" casing.		
P. E.		
Total Depth		3959'

Character of Well Gas
 OIL Initial Prod. before shot _____ GAS Rock Pressure 1300
 Initial Prod. after shot _____ Volume 21,000,000 Wet or Dry _____
 Elevation 3562'
 Exact Location SW corner - 330' north of south line and 330' east of west line of
Section ~~21-36E~~ 34-21S-36E, Lea County, New Mexico

GENERAL REMARKS

Drilled to TD of 3959' and encountered water. Plugged back to 3856' with twelve
 5" x 7' glycerine shells filled with gravel and rock, and three 6-5/8" limit plugs
 driven on top of glycerine shells. Water shut off okeh.

CLEANING OUT OR DRILLING DEEPER RECORD.

Date Commenced _____ Date Shot _____ GENERAL REMARKS.
 Date Completed _____ Size of Shot _____ Qts. _____
 Original Depth _____ Location _____
 Drilled Deeper _____ Ft. Shot by _____
 Total Depth _____ Ft.
 Prod. before _____
 Prod. after _____

ADDITIONAL CASING RUN

Size	Wgt.	Thd.	St.-lr.	Put in	Pulled	Left in.

(FORMATION RECORD ON REVERSE SIDE)

ILLEGIBLE

Gulf Exhibit - 3

FORMATION RECORD

Brown sand	0	180	Gas	5 M	3275
Quick sand	180	233	Fine sand - angular		3285
Red shale		440	Fine sand - rounded		3290 10 to 15 M
Water sand		490	Lime gas sand		3305
Red shale		650	Lime		3327 28 1/2 M gas
Sandy shale		660	Reduced hole to 6-5/8		3339
Red shale		880	Gas sand, bkn line		3345
Hard sand		902	Gas sand		3353
Shale and sand		965	Bkn sand		3359
Red shale		1034	Lime		3378
Sandy blue shale		1045	Lime		3392 1 M gas
Hard sand		1054	Sand		3398
Sand		1105	Lime		3477
Red shale		1110	Lime		3532 5 M gas
Sand		1180	Gas		3542 9 M
Bkn sand		1230	Bkn sandy lime		3543 9 M Sulphur gas
Red shale and sand	30	1255	Bkn sandy lime		3547 Oil show
Sandy shale, red	55	1260	Do		3558 7 M gas
Red shale		1540	Do		
Anhydrite		1640	Grey lime		3571
Sand		1720	Lime, porous		3580
Lime		1730	Lime, hard		3582
Red rock		1740	Hard gray lime		3607
Lime		1770	Id lime		3615
Red rock		1775	Lime		3788
Salt		1785	Oil show in lime		3802
Red rock		1820	Id light gray lime		3805
Salt		1910	White lime, soft		3813
Lime		1950	Gray lime, hard & sandy		3820
Salt		2025	Id gray lime		3850
Lime		2035	Lime		3891
Salt		2065	Lime, gray		3907
Red beds & blue shale		2070	3907' to 10' - 1 bailer salt water per hour		
Salt		2155	Water sand - salt		3912
Red rock		2165	Sandy lime		3935
Salt		2200	3940 to 45 - 4 bailers sulphur water per hr		
Lime		2210	Sand		3959'
Salt		2285			
Lime		2295			
Salt		2525			
Lime		2535			
Salt		2550			
Lime		2565			
Salt		2615			
Lime		2625			
Salt		2900			
Lime Oil & gas		3065			
Brown lime		3071			
Lime		3112			
Bkn lime 1 M gas		3218			
Gas 8 M gas		3240			
Gas sand		3241			
8 M gas		3242			
Fine sandstone dolomite		3245			
Fine sand		3248			
Brown lime		3253			
White & brown limestone		3269			
Green sandy shale		3270			

Plugged back to 3856'

All upper gases fell off rapidly.

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