

LOG AND HISTORY

WELL NO. 1

PROPERTY STATE 4

STANDARD OIL

COMPANY

COMPANY OF TEXAS

NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS

FROM	TO	FEET	FORMATION DRILLED AND CORED
			Appropriation SOT PRO-149, to drill State 4-#1 received August 26, 1936. (B-1840 lease) Location: 1980' North of the South line 1980' East of the West line of Section 27, Twp. 17-S, Rg. 35-E, Lea County, New Mexico. August 29, 1936, staked location August 30, 1936, started rigging up. September 3, 1936 - completed rigging up and started drilling 15" hole.
0	30	30	Caliche
30	90	60	Sand and red rock
90	100	10	Red rock, shale, and red beds
100	235	135	Sand and gravel
235	250	15	Red beds
250	256	06	Red rock
			September 4, 1936 - Reamed 15" hole to 19". Landed and cemented 233' of 16" casing at 256' with 185 sacks El Toro Green bag Cement, Halliburton method, top plug only. Casing free, circulation good. <u>Casing Detail</u> 233' of 16", 70#, 5 thd., second-hand, welded, casing; Texas Pattern Shoe. September 6, 1936 - after standing cemented 48 hours, tested casing with 400 #s pressure. Pipe o.k. Drilled plug and tested WSO with 400#. WSO not successful. Got circulation around surface pipe. Pumped test plug down to test casing. Plug went to bottom o.k. Pumped in 2 sacks aquagel and 4 sacks lime. Cir- culation obtained o.k.. Recemented with 200 sacks of El Toro Cement. September 8, 1936 - after standing cemented 48 hours, tested WSO with 400 #s pressure. WSO o.k. Drilled ahead in 13-3/4" hole.
256	568	312	Red beds
568	710	142	Red beds and lime shells
			Acid bottle at 450' o.k.
710	992	282	Red beds
992	1118	126	Red beds and red rock
			Acid bottle at 1050' o.k.

WELL COMPLETION REPORT LOG AND HISTORY

WELL NO. 4 PROPERTY STATE 5 POSITION 001 COMPANY
NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS

FORMATION DRILLED AND CORED	FEET	TO	FROM
Approximate 100' - 110' - 120' - 130' - 140' - 150' - 160' - 170' - 180' - 190' - 200' - 210' - 220' - 230' - 240' - 250' - 260' - 270' - 280' - 290' - 300' - 310' - 320' - 330' - 340' - 350' - 360' - 370' - 380' - 390' - 400' - 410' - 420' - 430' - 440' - 450' - 460' - 470' - 480' - 490' - 500' - 510' - 520' - 530' - 540' - 550' - 560' - 570' - 580' - 590' - 600' - 610' - 620' - 630' - 640' - 650' - 660' - 670' - 680' - 690' - 700' - 710' - 720' - 730' - 740' - 750' - 760' - 770' - 780' - 790' - 800' - 810' - 820' - 830' - 840' - 850' - 860' - 870' - 880' - 890' - 900' - 910' - 920' - 930' - 940' - 950' - 960' - 970' - 980' - 990' - 1000'	100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000	100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000	100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000

LOG AND HISTORY

WELL NO. 1

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STANDARD OIL COMPANY OF

COMPANY

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TEXAS

FROM	TO	FEET	FORMATION DRILLED AND CORED
1116	1273	155	Red rock
1273	1360	107	Red beds and red rock
			Acid bottle at 1250' o.k.
1360	1541	161	Red rock
			Acid bottle at 1450' o.k.
1541	1592	51	Red rock
1592	1627	35	Anhydrite
1627	1645	18	Anhydrite
			September 13, 1938 - Landed and cemented 1622' of 10-3/4" casing at 1639' with 735 sacks El Toro Green Bag Cement, Halliburton method, top plug only. Casing free, circulation good. Maximum pump pressure, 800 #s. 30 minutes mixing cement, 10 minutes pumping down plug.
			<u>Casing Detail</u>
			1622' of 10-3/4", 40.5#, 8 thd., Smith welded casing with Baker Float shoe.
			September 16, 1938 - after standing cemented 60 hours, casing was tested with 1200# pressure. No pressure drop in 30 minutes. Casing o.k. Drilled plug and tested WSO with 1200# pressure. Pressure dropped 60# in 30 minutes. WSO o.k. Drilled ahead in 8-3/4" hole.
1645	1735	90	Anhydrite
1735	1965	230	Broken anhydrite and red rock
1965	1995	30	Anhydrite and salt
1995	2054	59	Anhydrite and red rock
2054	2296	244	Salt, red rock, anhydrite, shells
2296	2753	455	Salt, anhydrite shells
			Acid bottle at 2050' o.k.
			Acid bottle at 2250' o.k.
			Acid bottle at 2450' o.k.
			Acid bottle at 2750' o.k.
2753	2825	72	Broken anhydrite and salt
2825	2875	50	Anhydrite
2875	2975	100	Anhydrite and salt
2975	3034	59	Anhydrite
3034	3053	19	Anhydrite
3053	3056	03	GAS SAND (Yates Gas Sand)
3056	3126	70	Anhydrite

NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS

[illegible]

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NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS

TEXAS

FROM	TO	FEET	FORMATION DRILLED AND CORED														
			September 20, 1938 - Ran Halliburton formation tester to test Yates Gas Sand. Anchor packer set at 3022'. Tested 3022' to 3094'. Results of test were:														
			<table><thead><tr><th>Time</th><th>Rate of flow</th></tr></thead><tbody><tr><td>12:05 a.m.</td><td>1390 MCF/day</td></tr><tr><td>12:08</td><td>1390 " "</td></tr><tr><td>12:15</td><td>886 " "</td></tr><tr><td>12:20</td><td>831 " "</td></tr><tr><td>12:25</td><td>801 " "</td></tr><tr><td>12:30</td><td>763 " "</td></tr></tbody></table>	Time	Rate of flow	12:05 a.m.	1390 MCF/day	12:08	1390 " "	12:15	886 " "	12:20	831 " "	12:25	801 " "	12:30	763 " "
Time	Rate of flow																
12:05 a.m.	1390 MCF/day																
12:08	1390 " "																
12:15	886 " "																
12:20	831 " "																
12:25	801 " "																
12:30	763 " "																
3126	3140	14	Broken, sandy lime and anhydrite														
3140	3190	50	Anhydrite														
3190	3254	64	Anhydrite and lime														
3254	3300	46	Anhydrite														
3300	3303	03	GAS SAND														
3303	3406	103	Anhydrite														
3406	3440	34	Anhydrite and gypsum														
3440	3570	130	Anhydrite and gypsum														
			Acid bottle at 3550' o.k.														
3570	3657	87	Anhydrite and lime														
3657	3691	34	Anhydrite and gypsum														
3691	3732	41	Anhydrite and lime - streaks of gypsum														
	3752	20	Anhydrite and lime														
	3795	43	Anhydrite and gypsum														
	3815	20	Brown lime														
	3917	102	Anhydrite and lime														
			Acid bottle at 3900' o.k.														
		86	Lime														
		90	Lime														
		69	Lime														
			4100' ELM - 4100' D.F.M.														
			lime and light gray lime.														
			September 30, 1938 - Landed and cemented 4179' of 7" casing at 4193' with 144 sacks El Toro Green Bag Cement, float method, top plug only. Casing free, circulation good. Pumped in 250 bbls. fresh water ahead of cement to displace mud out of hole. Squeezed 144 sacks of cement into the formation. Maximum pressure, 1200/lbs on casing, 900/lbs on braden head. Stopped pumping in water, 15 minutes mixing cement, 20 minutes to pump plug down.														
			<u>Casing Detail</u>														
			4179' of 7", 24#, 10 thd., new Grade D Youngstown casing at 4193'.														

Figure 1. A schematic diagram of the experimental setup. The subject is seated in a chair and views the target through a video camera. The target is a small object (e.g., a ball) that is suspended in the air. The subject's hand is positioned near the target. The video camera is positioned above the target and the subject's hand. The video camera is connected to a computer, which displays the video feed on a monitor. The subject is instructed to move their hand towards the target. The video camera captures the movement of the hand and the target, and the computer processes the data to provide feedback to the subject.

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[illegible]

LOG AND HISTORY

WELL NO. 1

PROPERTY STATE 4

STANDARD OIL COMPANY COMPANY
OF TEXAS

NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS

FROM	TO	FEET	FORMATION DRILLED AND CORED
			Baker float shoe on bottom October 2, 1936 - Mixed 250 sacks of lime dust and 30 sacks of aquagel with 400 bbls. of water for drilling fluid. Unloaded water from braden head. Yates gas flowing at rate of 500 MCF/day. October 3, 1936 - After standing cemented 72 hours, casing was tested with 1200#s pressure. Pressure dropped 20# in 30 minutes. Casing o.k. Drilled plug and tested water shut-off with 1200#s pressure. Pressure dropped 75#s in 30 minutes. WSO o.k. Drilled ahead in 6-1/4" hole.
4201	4215	14	Light gray lime, streaks sandy brown lime
4215	4230	15	Gray sandy lime
4230	4254	24	Gray lime, streaks sandy, gray and tan lime
4254	4359	105	Gray and tan lime
4359	4507	148	Gray and brown lime
			October 5, 1936 - Tested braden head gas. After blowing to the air for 48 hours, gas was flowing at rate of 504 MCF/day.
4507	4590	83	Lime October 7, 1936 - Ran Schlumberger temp. survey 4193' - 4575'. Could not get to bottom with Schlumberger electrodes due to the lime settling out of the mud. October 7, 1936 - Ran 4569' of 2" tubing bottomed at 4579'. <u>Tubing Detail</u> 4569' of 2", 4.7#, 10 thd. U.E. new, Youngstown tubing. 4' perforations from 4575' to 4579'. October 8, 1936 - Swabbed in well thru 2" tubing. October 9, 1936 - Well produced at rate of 33 bbls. per hour on a 19-hour potential test.

NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS

FORMATION DRILLED AND CORED

7237

57

MOF:

Amount of money to recording fees - \$291.00
 Total collected - \$1,000.00

WELL COMPLETION REPORT P 18-3

LOG AND HISTORY

WELL NO. 1

PROPERTY STATE 4

STANDARD OIL COMPANY

COMPANY

NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS

OF TEXAS

FROM	TO	FEET	FORMATION DRILLED AND CORED
<u>Porosity Log</u>			
<u>Top of Pay</u>			
4345	4350		Brown lime-20% of sample shows porosity
4350	4355		" " 5% " " "
4355	4360		" " 20% " " "
4360	4365		" " 5% " " "
4365	4390		" " 2% " " "
4390	4400		" " 25% " " "
4400	4410		" " 20% " " "
4410	4425		Gray and tan lime - 50% of sample shows porosity
4425	4435		" " " 15% " " "
4435	4445		" " " 50% " " "
4445	4455		" " " 20% " " "
4455	4540		" " " 3-5% " " "
4540	4550		Gray and brown lime- 10% " " "
4550	4565		" " " 50% " " "
4565	4575		" " " 75% " " "
4575	4580		" " " 50% " " "
4580	4590		" " " 15% " " "

EARL M. KIPP

ek

Drillers: W. E. Hollis
G. A. Alberty
T. T. Fortenberry

emk/bn
November 1, 1938

WELL COMPLETION REPORT P -18-3 LOG AND HISTORY

WELL NO. 1 PROPERTY STATE # STANDARD OIL COMPANY OF TEXAS COMPANY

FORMATION DRILLED AND CORED

FEET

TO

FROM

Porosity Log

Top of log

#345	#345
#350	#350
#355	#355
#360	#360
#365	#365
#370	#370
#375	#375
#380	#380
#385	#385
#390	#390
#395	#395
#400	#400
#405	#405
#410	#410
#415	#415
#420	#420
#425	#425
#430	#430
#435	#435
#440	#440
#445	#445
#450	#450
#455	#455
#460	#460
#465	#465
#470	#470
#475	#475
#480	#480
#485	#485
#490	#490

Brown lime-50% of sample shows porosity
50%
50%
50%
50%
50%
50%
50%
50%
50%
50%
50%
50%

Gray and tan lime - 50% of sample shows porosity
50%
50%
50%
50%
50%
50%
50%
50%
50%
50%
50%
50%

Gray and brown lime- 50%
50%
50%
50%
50%
50%
50%
50%
50%
50%
50%
50%

EARL R. KIRK

Drillers: W. B. Hollis
G. W. Alberry
T. T. Forrester

encl/br
November 1, 1933

WELL COMPLETION REPORT P -18-3

LOG AND HISTORY

WELL NO. 1

PROPERTY STATE 4

STANDARD OIL COMPANY OF
TEXAS COMPANY

NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS

FROM	TO	FEET	FORMATION DRILLED AND CORED		
<u>DRILLING TIME</u>			<u>From</u>	<u>To</u>	<u>Min</u>
<u>From</u>	<u>To</u>	<u>Min</u>			
4201	4205	50	4450	4455	60
4205	4210	110	4455	4460	52
4210	4215	85	4460	4465	20
4215	4220	85	4465	4470	25
4220	4225	105	4470	4475	37
4225	4230	75	4475	4480	55
4230	4235	70	4480	4485	45
4235	4240	65	4485	4490	50
4240	4245	42	4490	4495	37
4245	4250	70	4495	4500	40
4250	4255	70	4500	4505	42
4255	4260	65	4505	4510	60
4260	4265	60	4510	4515	90
4265	4270	70	4515	4520	70
4270	4275	80	4520	4525	55
4275	4280	55	4525	4530	60
4280	4285	60	4530	4535	
4285	4290	50	4535	4540	50
4290	4295	60	4540	4545	60
4295	4300	70	4545	4550	30
4300	4305	65	4550	4555	25
4305	4310	65	4555	4560	20
4310	4315	70	4560	4565	30
4315	4320	55	4565	4570	20
4320	4325	61	4570	4575	25
4325	4330	55	4575	4580	45
4330	4335	45	4580	4585	40
4335	4340	52	4585	4590	40
4340	4345	50			
4345	4350	43			
4350	4355	52			
4355	4360	55			
4360	4365	45			
4365	4370	55			
4370	4375	60			
4375	4380	60			
4380	4385	45			
4385	4390	35			
4390	4395	50			
4395	4400	25			
4400	4405	20			
4405	4410	20			
4410	4415	20			
4415	4420	30			
4420	4425	40			
4425	4430	45			
4430	4435	20			
4435	4440	20			
4440	4445	45			
4445	4450	65			

WELL NO. 1 PROPERTY STATE OF TEXAS STANDARD OIL COMPANY OF TEXAS COMPANY

FORMATION DRILLED AND CORED			DRILLING TIME		
FEET	TO	FROM	FEET	TO	FROM
100	100	100	100	100	100
90	90	90	90	90	90
80	80	80	80	80	80
70	70	70	70	70	70
60	60	60	60	60	60
50	50	50	50	50	50
40	40	40	40	40	40
30	30	30	30	30	30
20	20	20	20	20	20
10	10	10	10	10	10
0	0	0	0	0	0