



## FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
Note. This well was formerly drilled by Twin Oil Corporation and sold to Neville Penrose Incorporation and was purchased from Neville Penrose by Amerada Petroleum Corporation, and was deepened to 6623'			
3748'			Old Total Depth
3748'	3950'	202	Lime
3950'	3958'	8	Gray Lime
3958	3983	35	Light Brown Lime
3983	4238'	255	Lime
4238	4250	12	Brown Sandy Lime
4250	4405	155	Lime
4405	4442	37	Lime, Anhydrite and Gypsum
4442	4752	310	Lime
4752	4779	27	Broken Lime and Sand
4779	4825	46	Lime
4825	4854	29	Broken Lime
4854	5013	159	Lime
5013	5020	7	Brown Lime
5020	5035	15	Lime
5035	5050	15	Gray Lime
5050	5063	13	Brown Lime
5063	5090	27	Gray Lime and Dolomite
5090	5094	4	Blue Shale and Lime
5094	5140	46	Lime
5140	5148	8	Blue Shale and Lime
5148	5160	12	Broken Lime (Carrying Oil Odor)
5160	5165	5	Brown Lime
5165	5179	14	Lime (Oil Stain and Odor)
5179	5188	9	Lime
5188	5415	227	Lime
5415	5425	10	Lime (Oil Stain and Odor)
5425	5431	6	Lime and Blue Shale
5431	5461	30	Lime
5461	5466	5	Lime and Blue Shale
5466	5561	95	Lime
5561	5564	3	Shale
5564	6087	523	Lime
6087	6108	21	Lime and Blue Shale
6108	6111	3	Lime
6111	6116	5	Shale and Lime
6116	6155	39	Lime
6155	6176	21	Lime and Shale
6176	6180	4	Lime
6180	6193	13	Black Shale and Lime
6193	6475	282	Lime
6475	6510	35	Lime (Broken)
6510	6535	25	Lime
6535	6567	32	Brown Lime (Oil Show)
6567	6623	56	Lime
6623			Total Depth
			5" OD Casing 15#, N-80, R-3, 8 Round Thread, set at 6623' with 300 Sacks Cement.
6605			Drilled out depth

J. G. HARE WELL NUMBER 2  
RECORD OF DRILL-STEM TESTS.

DATE	TOTAL DEPTH	
6-2-46	5236'	Took drill stem test with packer set at 5205' with 5/8" Orifice on bottom, started blowing at once, small blow of gas 1 hour 50 minutes, recovered 100' oil and gas cut drilling mud, no free water, Hydrostatic Pressure 2600#, flowing pressure 200#, No build up pressure test.
6-4-46	5282'	Took drill stem test with packer set at 5228', 5/8" Orifice on bottom, gas to top in 15 minutes, tool opened 2 hours 45 minutes, recovered 255' Heavy oil and gas cut drilling mud, figured 10% Oil, Estimated of 35M cu. ft. gas, Hydrostatic pressure 2600#, Flowing pressure 200#, build up pressure in 15 minutes 1150#.
6-4-46	5305'	Took drill stem test with packer set at 5275', 5/8" Orifice on bottom, opened 2 hours 45 minutes, small steady flow of gas, showed 3000' of gas in drill pipe, and 150' Heavy oil and gas cut drilling mud, 300' sulphur water, water tested 55,800 PPM Chlorides, Hydrostatic Pressure 2600#, Flowing pressure 50#, build up pressure 15 minutes 1300#.
6-25-46	6425'	Took drill stem test with packer set at 6339', opened tool at 12:21AM closed tool at 2:21AM, gas to top in 5 minutes, first hour flowed at rate of 5,000M cu. ft. per day and second hour at rate of 2,500M cu. ft. per day, recovered 330' of gas cut mud.
6-25-46	6443'	Took drill stem test with packer set at 6374', tool opened at 5:20PM, gas to top in 4 minutes, first hour flowed at rate of 179M cu. ft. per day, and second hour at rate of 163M cu. ft. per day, tool closed at 7:20PM, Hydrostatic Pressure 3400#, flowing pressure Zero, build up pressure 15 minutes 2200#, recovered 120' of gas cut mud and distillate.
6-27-46	6535'	Took drill stem test with packer set at 6456', tool opened at 1:56AM, gas to top in 4 minutes, mud in 20 minutes, oil in 26 minutes, gas at rate of 11,1,250M cu. ft. per day, flowed estimate of 3 bbls oil into pits and turned into tanks and in 2 1/2 hours made 50.95 barrels of oil, corrected gravity 40°, recovered 40' of cut mud and 670' of oil, Hydrostatic Pressure 2900#, Build up pressure 15 minutes 1700#, flowing pressure 300#.
6-28-46	6608'	Took drill stem test with packer set at 6530', tool opened at 4:33AM, gas to top in 5 minutes, 738M cu. ft. per day, mud to top in 1 hour, oil to top 1 hour 2 minutes, turned into tanks at 5:38AM, and in 2 hours 22 minutes made 33.22 barrel oil, gravity of oil corrected 38.4, recovered 895' oil, 15' oil and gas cut mud, Hydrostatic Pressure 3200#, Build up Pressure 15 minutes 2000#, Flowing pressure 600#.
7-4-46	6605'	Drilled out depth, 5 1/2" OD Casing set at 6623', gun perforated with Lane Wells from 6490' to 6494' with 16 shots to test cement behind casing, took drill stem test with packer set at 6482' with perforations below, Tool opened 5 hours, and recovered 50' Oil cut mud and 10' of Oil, Hydrostatic Pressure 3000#, no build up pressure, Pipe was OK.

Deviation tests Ran by Amerada's W. T. Jordan May 4, 1946 before deepening.

500'	Straight	3000'	Straight
1000'	Straight,	3500'	Straight
1500'	Straight	3725'	<del>2 1/2</del> 1 Degree
2000'	2 Degrees		
2500'	1 Degree		

Deviation tests run while deepening by McVay and Stafford Drilling Company.

3758'	2 degrees	4800'	1 degree
4000'	2 degrees	5019'	3/4 degree
4096'	2 degrees	5210'	1/2 degree
4176'	1 1/4 degrees	5400'	Straight
4339'	1/2 Degree	5768'	1/2 degree
4505'	1 1/2 Degrees	6000'	Straight
4570'	1 1/4 degrees	6303'	1/4 degree
4660'	3/4 degree		