

TOTCO DEVIATION SURVEYS

<u>Depth</u>	<u>Degree Off Vertical</u>	<u>Depth</u>	<u>Degree Off Vertical</u>	<u>Depth</u>	<u>Degree Off Vertical</u>
60	1/2	6529	1 1/4	9648	3/4
119	1/4	6994	1 1/2	10164	1/2
321	3/4	6660	1 1/4	10216	3/4
840	1/4	6744	1	10309	1/4
1870	1/2	6881	1/2	10458	1
2315	3/4	7115	2	10532	3/4
2532	1/2	7234	1	10684	1
3116	1/4	7450	1 1/2	10851	1/2
3369	1 1/4	7538	1 1/4	10933	1
3638	1	7806	1	11004	3/4
4515	1/2	8077	1 1/4	11040	1
4726	1/4	8180	3/4	11237	3/4
5951	3/4	8504	1	11591	1/2
6245	1 1/2	9411	3/4		
6386	1 3/4	9508	1		

CORE RECORD

<u>No.</u>	<u>Top</u>	<u>Bottom</u>	<u>Res.</u>	<u>Description</u>
1	11510	11553	32'	Lime and Shale, No Show.
2	11553	11591	37'	Lime, 11553-11556 Brown dense lime, no show. 11556-11591 Limestone 5 - 10% porosity, trace fractures. Poor to good show. 11574-11590 Brown dense lime, no show. 11590-11591 Lime, no show.
3	11591	11642	51'	Lime with shale partings, no show.

DRILL STEM TESTS

<u>No.</u>	<u>Date</u>	<u>From</u>	<u>To</u>	<u>No. Kind & Size of Perforations (or Open Hole)</u>	<u>Tool Set @</u>	<u>Chokes Top Bottom</u>	<u>Water Cushion</u>	<u>Time Tested</u>
1	8-21-56	10410	10458	Open Hole	10410	5/8" 1"	None	1 hour
	(Penn Wolfcamp) N.T.S. Rec. 120' still, gas cut drilling mud w/rainbow of oil, no water. SFP 0#, BHFP 100#, 30 minute SIP 2800#, HH 5400-5380#.							
2	9-9-56	11530	11591	Open Hole	11530	5/8" 1"	1500'	2 1/2 hours
	(Penn) Gas to surface in 53 minutes (145 MCF/day) Recovered 1500' water cushion / 1820' of formation oil. No water. Gravity 34 @ 60°, SFP 5#, BHFP 1190#, 30 minute SIP 3460#, HH 5925-5890#.							

ACIDIZING

September 20, 1956

Chemical Process acidized Perf. 11552-11574 w/2000 gallons 15% Regular. 45 minutes. 1 BPM. TP 5000-2900#. 5 Minute SIP - on Vac. Swabbed 45 BLO (all) in 2 hours. Swabbed and flowed 25 BNO / 48 BAW in 3 hours. Flowed 183 BNO and no water in 12 hours, 18/64" choke.

September 22, 1956

Chemical Process acidized Perf. 11530-11541 w/2000 gallons 15% Regular. 48 minutes. 1 BPM. TP 5000-3100#. 5 minute SIP 0#. Swabbed 45 BLO (all) / 6 BAW in 4 hours. Flowed 44 BNO / 26 BAW in 4 3/4 hours, 21/64" choke.

100-443887-1

[illegible]

03220

Ref	Date	Location	Remarks
1	1951	1951	1951
2	1952	1952	1952
3	1953	1953	1953
4	1954	1954	1954
5	1955	1955	1955
6	1956	1956	1956
7	1957	1957	1957
8	1958	1958	1958
9	1959	1959	1959
10	1960	1960	1960
11	1961	1961	1961
12	1962	1962	1962
13	1963	1963	1963
14	1964	1964	1964
15	1965	1965	1965
16	1966	1966	1966
17	1967	1967	1967
18	1968	1968	1968
19	1969	1969	1969
20	1970	1970	1970
21	1971	1971	1971
22	1972	1972	1972
23	1973	1973	1973
24	1974	1974	1974
25	1975	1975	1975
26	1976	1976	1976
27	1977	1977	1977
28	1978	1978	1978
29	1979	1979	1979
30	1980	1980	1980
31	1981	1981	1981
32	1982	1982	1982
33	1983	1983	1983
34	1984	1984	1984
35	1985	1985	1985
36	1986	1986	1986
37	1987	1987	1987
38	1988	1988	1988
39	1989	1989	1989
40	1990	1990	1990
41	1991	1991	1991
42	1992	1992	1992
43	1993	1993	1993
44	1994	1994	1994
45	1995	1995	1995
46	1996	1996	1996
47	1997	1997	1997
48	1998	1998	1998
49	1999	1999	1999
50	2000	2000	2000
51	2001	2001	2001
52	2002	2002	2002
53	2003	2003	2003
54	2004	2004	2004
55	2005	2005	2005
56	2006	2006	2006
57	2007	2007	2007
58	2008	2008	2008
59	2009	2009	2009
60	2010	2010	2010
61	2011	2011	2011
62	2012	2012	2012
63	2013	2013	2013
64	2014	2014	2014
65	2015	2015	2015
66	2016	2016	2016
67	2017	2017	2017
68	2018	2018	2018
69	2019	2019	2019
70	2020	2020	2020
71	2021	2021	2021
72	2022	2022	2022
73	2023	2023	2023
74	2024	2024	2024
75	2025	2025	2025
76	2026	2026	2026
77	2027	2027	2027
78	2028	2028	2028
79	2029	2029	2029
80	2030	2030	2030
81	2031	2031	2031
82	2032	2032	2032
83	2033	2033	2033
84	2034	2034	2034
85	2035	2035	2035
86	2036	2036	2036
87	2037	2037	2037
88	2038	2038	2038
89	2039	2039	2039
90	2040	2040	2040

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Abstract

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