

TOTCO DEVIATION SURVEY

Depth	Off Vertical	Depth	Off Vertical	Depth	Off Vertical
930	1/4	7253	1	9480	3
1600	3/4	7260	1 3/4	9622	2 3/4
2000	1/4	7485	2	9711	3
3190	1/4	7596	2 1/2	9850	3 1/4
3521	1 -	7686	2	10017	2 1/2
4449	1 3/4	7772	3	10087	2
4797	1 1/2	7855	2 3/4	10143	2 1/4
4945	1 1/4	8021	3	10215	2
5155	1 1/2	8165	2 1/2	10329	2 3/4
5437	1 1/4	8293	2 1/4	10383	2
5701	1 -	8342	3	10622	2 1/4
5948	2 -	8401	2 3/4	10782	2
6203	2 1/2	8469	3	10966	2 3/4
6367	3 -	8577	2 3/4	11115	3
6534	2 1/2	8673	3 1/4	11154	2 1/2
6642	2 3/4	8970	3 3/4	11225	3
6686	2	9047	3	11431	2 3/4
6878	1 1/2	9143	3 1/4		
7003	2	9250	2 3/4		
7132	1-3/4	9356	3 1/4		

DRILL STEM TESTS

No.	Date	From	To	No. Kind & Size of Perforations or Open Hole	Tool Set #	Chokes Top Bottom	Water Cushion	Time Tested
1	2-23-57	10742	10782	Open Hole	10742	5/8 1	None	2 1/2 hrs.
(Wolfcamp) Nothing to surface acc't pipe stuck. Surface Flowing Pressure 0#. Bottom hole flowing pressure 50-300#, 15 min. S.I. Bottom Hole Pressure - No gauge circulated out recovery - showed gas cut mud.								
2	2-26-57	10731	10797	Open Hole	10731	5/8 1	None	1 1/2 hrs.
(Wolfcamp) Nothing to surface recovered 150' drlg. mud & 20' salt water, SFP 0#, Bottom hole flowing pressure 60-90#, 30 minutes SIP 3925#, Hydrostatic Head 5235-5175								
3	3-11-57	11604	11640	Open Hole	11604	5/8 1	None	3 hrs.
(Perm) Gas to surface in 2 hrs. to small to measure. Recovered 150' Oil & Gas cut mud. SFP 0#, Bottom Hole Flowing Pressure 60-110#, 30 minute SIP 1490# Hydrostatic Head 5825-5770.								

CORE RECORD

None

ACIDIZING OR OTHER COMPLETION OPERATION

Date

- 3-18-57 Cardinal Chemical attempted to acidize perfs 11636 - 11642 with 500 gals. Fkr. failed.
- 3-19-57 Cardinal Chemical acidized perfs 11636 - 11642 with 500 gals. acid TP 5300-800# .8 of 1 BPM - 3 mins. S/D Pressure 0# Swab 16 BLO
- 3-25-57 Cardinal Chemical acidized perfs 11618 - 11628 with 1000 gals. 15% reg. on vacuum TP 0#, inj. rate 2.4 BPM Swab 45 BLO (All) in 10 hrs. swab 14 BNO & 14 BAW in 8 hrs. 700' Fluid in hole, Sli show of gas 2.75 BLH Shake out 2% B.S. & 6% AW
- 3-27-57 Western Company acidized perfs with 4000 gals. 15% reg. behind 50 bbls. lse crude TP - 3000 - 5300, 5 min. S/D Pressure 0#. Swab 44 BLO & 17 BAW in 9 hrs., 3000 FIH Sli show of gas, shake out 35% AW.
- 3-30-57 Cardinal Chemical acidized perfs with 10,000 gals. 15% reg. behind 75 BLO, TP - 500 - 3100#, 7 1/2 BPM Swab 61 BLO & 83 BAW in 39 hrs. 1600' Fluid in Hole. Sli Show of gas, shake out 35% AW.

