

FORMATION RECORD (continued)

10508	10558	50	Lime & shale
10558	10560	2	Lime
10560	10601	41	Lime & shale
10601	10690	89	Lime
10690	10695	5	Lime & shale
10695	10737	42	Lime
10737	10755	18	Lime & shale
10755	10878	123	Lime
10878	10908	30	Shale & lime
10908	10910	2	Chert
10910	11003	93	Lime & chert
11003	11066	63	Lime, shale & chert
11066	11108	42	Lime & shale
11108	11113	5	Lime, shale & chert
11113	11133	20	Shale & lime
11133	11156	23	Sand & lime
11156	11292	136	Lime & shale
11292	11297	5	Lime, shale & chert
11297	11445	148	Lime & shale
11445	11527	82	Shale
11527	11577	50	Shale & lime

11577 TOTAL DEPTH

11577 10825 752 P.B.T.D.

DRILL STEM TESTS:

DST # 1: Kewitz Zone of Wolfcamp from 10,745' to 10,779', 5/8" x 3/8" chokes, 1500' water blanket, tool open 4 hours 13 minutes. Gas to surface in 24 minutes, water blanket in 52 minutes, oil in 70 minutes. Flowed to pits to clean up, 3 hours flowed to test tank, first hour 23.4 bbls. oil, second hour 23.4 bbls. oil, third hour 25 bbls. oil, surface pressure 500#. Reversed out 46 bbls. oil, no water. 2' of oil below circulating sub. Shakeout 2/10% BS, Gravity 38.3 at 60 deg., GOR 920 CF/B. 30 minute initial shut in pressure 3240#, flowing pressure initial 1000#, final 2750#. 65 minute final shut in pressure 3170#, hydrostatic pressure 5285# to 5210#.

DST # 2: Kewitz Zone of Wolfcamp from 10,784' to 10,813', 5/8" x 5/8" chokes, 1500' water blanket, tool open 3 hours, had weak air blow immediately, increased to fair flow and decreased to no blow in 1-1/2 hours. Recovered 1500' slightly gas cut water blanket and 5744' of slightly gas cut salt water, no oil. 30 minute initial shut in pressure 3260#, flowing pressure initial 740#, final 3230#.

DEFLECTION TESTS

FOOTAGE	DEGREES	FOOTAGE	DEGREES	FOOTAGE	DEGREES
250	3/4	5980	1-3/4	8877	1-3/4
406	1	6115	1-3/4	9000	2
924	3/4	6240	1-1/2	9139	1-1/2
1251	3/4	6380	1-1/4	9309	1-3/4
1662	1	6520	1-1/2	9436	1-1/4
2095	3/4	6658	1-3/4	9623	1-3/4
2640	3/4	6805	2	9749	2
3050	1/2	6934	1-3/4	9851	2-1/2
3490	1	7015	1-1/2	10019	2-1/4
3710	1-3/4	7120	1-1/4	10062	2
3810	1-1/4	7270	1-1/2	10129	2-1/2
3980	1-1/4	7378	1-1/4	10186	2
4168	3/4	7490	1-1/2	10266	2-1/2
4258	1	7605	1-1/4	10362	2
4550	1	7751	1-1/2	10442	2
4685	1	7852	1-1/2	10560	2-1/4
4771	0	8048	1-1/4	10691	1-3/4
5020	1-1/2	8253	2	10870	1-1/2
5175	2	8535	2	10994	2-1/4
5355	1-1/2	8625	1-1/2	11083	2-1/2
5465	1	8698	1-3/4	11156	2-1/4
5620	1	8790	1-1/2	11375	3