

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	311	311	Sand, Shells & Red Beds
311	1320	1009	Red Beds
1320	1712	392	Red Beds & Sand
1712	1845	133	Anhydrite, Salt & Red Beds
1845	2431	586	Anhydrite & Salt
2431	2675	244	Anhydrite
2675	2981	306	Lime & Shell
2981	3432	451	Anhydrite & Lime
3432	3710	278	Anhydrite & Gyp
3710	4480	770	Dolomite
4480	6976	2496	Lime
6976	7254	278	Dolomite
7254	7348	94	Dolomite & Shale
7348	7460	112	Shale
7460	7563	103	Dolomite
7563	7702	137	Lime
7702	8025	323	Lime & Shale
8025	8095	70	Lime
8095	8230	133	Lime & Shale
8230	8478	248	Dolomite
8478	8760	282	Lime & Dolomite
8760	10,359	1599	Lime
10,359	11,060	701	Lime & Shale
11,060	11,075	15	Dolomite
DST #1	8590 - 8762' (Wolfcamp Lime)		Tool open 2 hrs. thru 5/8" BC & 1" TC on 3-1/2" DS. Immediate strong air blow dying in 40 mins. Rec. 910' (6.7 bbls.) drilling fluid & 5190' (38.4 bbls.) salt water. No shows. HMH 4750 psi, FBHP 2975', SIBHP failed. <u>Positive Test.</u>
DST #2	8971 - 9126' (Penn. Lime)		Tool open 3 hrs. thru 5/8" BC & 1" TC on 3-1/2" DS. Immediate strong air blow. Gas in 20 min. Gas flowed for 25 mins. at gauged rate of 288 Mcf/D before mud began leaking by packer. Rec. 1365' (9.68 bbls.) GCM, no oil shows. FBHP 150 psi before packer leak, 500 psi after packer reset. 30 min. SIBHP 1550 psi. HMH 5000 psi. <u>Positive Test.</u>
DST #3	9128 - 9245' (Penn. Lime)		Tool open 1-1/2 hrs. thru 5/8" BC, 1" TC on 3-1/2" DS. Immediate moderate air blow dying in 90 min. Rec. 1700' (12.6 bbls.) heavily GCM, 3000' (22.2 bbls.) salt water w/trace of oil (2 - 3%) and 3000' (22.2 bbls.) clean salt water. FBHP 850 - 3300 psi. 30 min. SIBHP 3300 psi. HMH 5000 psi. <u>Positive Test.</u>
DST #4	9262 - 9400' (Penn. Lime)		Tool open 1 hr. 40 min. thru 5/8" BC & 1" TC on 3-1/2" DS. Immediate strong air blow. Gas to surface in 9 min, volume est. 100 Mcf/D, mud in 71 min, salt water in 80 min. Flowed salt water w/trace oil at st. rate of 25 bbls. reversed out recovery. Initial FBHP 700 - 1950 psi, 30 min. SIBHP 2975 psi. HMH 5150 psi. <u>Positive Test.</u>
DST #5	9554 - 9400' (Penn. Lime)		Tool open 1 hr. 30 min. thru 5/8" BC & 1" TC on 3-1/2" DS. Immediate moderate air blow. Gas to surface in 20 min. vol. est. 50 Mcf/day. Rec. approx. 450' (3.2 bbls.) heavily gas cut mud & 6300' (44.1 bbls.) salt water w/trace heavily oil-and-gas-cut mud. FBHP 1725 500 - 1725 psi, 30 min. SIBHP failed. HMH 5275 psi. <u>Positive Test.</u>
DST #6	9753 - 9840' (Penn. Lime)		Tool open 1 hr. & 0 min. thru 5/8" BC & 1" TC on 3-1/2" DS. Immediate strong air blow. Gas to surface in 3 min., fluid in 10 mins. Flowed gas w/condensate mist and daily rate of 7390 Mcf. Rec. 180' (1.3 bbls.) of clean condensate, gravity 55.6° API, plus 270' (1.9 bbls.) mud cut condensate. HMH 5375 psi. FBHP 1450 - 1475 psi. 30 min. SIBHP 3025 psi. <u>Positive Test.</u>
DST #7	10,972 - 11,060' (Dev. Dolo.) <i>Top Dev. 11,050' + 6776)</i>		Tool open 36 mins. thru 5/8" BC & 1" TC on 3-1/2" DS. Immediate weak air blow dying in 12 mins. Rec. 30' (.27 bbls.) mud. No shows. FBHP 0 psi. 15 min. SIBHP 0 psi. HMH 5960 psi. <u>Positive Test.</u>
DST #8	10,964 - 11,075' (Dev. Dolo.)		Tool open 1 hr. thru 5/8" BC & 1" TC on 3-1/2" DS. Immediate moderate air blow lasting throughout test. Rec. 1000' (7.4 bbls.) mud, 2400' (17.8 bbls.) mud cut w/ sulfur water & 1800' (13.3 bbls.) sulfur water, no oil shows. FBHP - - 1725 psi. 15 min. SIBHP failed. HMH 5975 psi. <u>Positive Test.</u>