

3E.
UTE MOUNTAIN UTE 28-43

The following is a tabulation of all deviation surveys run on the Ute Mountain Ute 28-43 well. The surface location is Unit I, 1550' FSL & 810' FSL. Sec. 28; T31N; R14W; San Juan County, New Mexico

Due to surface dips and no significant thickening of formations all calculations are based on a N 22.5 W direction for direction of bottomhole.

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OIL CON. DIV
DIST. 3

DEPTH	DEVIATION DEGREES	VERTICAL DISTANCE	HORIZONTAL DISTANCE	TRUE VERT DEPTH	HORIZONTAL DISPLACEMENT	BOTTOMHOLE FSL	LOCATION FSL
0	0.00					1,550.00	810.00
50	2.25	49.9904	0.9817	49.99	0.98	1,550.91	810.38
85	2.25	34.9730	1.3741	84.96	2.36	1,552.18	810.90
115	3.00	29.9685	1.3740	114.93	3.73	1,553.45	811.43
145	2.50	29.9655	1.4393	144.90	5.17	1,554.78	811.98
176	2.25	30.9734	1.2846	175.87	6.45	1,555.96	812.47
207	2.25	30.9761	1.2171	206.85	7.67	1,557.09	812.94
238	2.25	30.9761	1.2171	237.82	8.89	1,558.21	813.40
275	2.00	36.9746	1.3720	274.80	10.26	1,559.48	813.93
335	2.25	59.9587	2.2248	334.76	12.48	1,561.53	814.78
390	2.00	54.9622	2.0394	389.72	14.52	1,563.42	815.56
492	1.50	101.9524	3.1149	491.67	17.64	1,566.30	816.75
607	1.50	114.9606	3.0103	606.63	20.65	1,569.08	817.90
729	1.50	121.9582	3.1936	728.59	23.34	1,572.03	819.12
819	1.75	89.9638	2.5522	818.55	26.40	1,574.39	820.10
922	3.25	102.9020	4.4928	921.46	30.89	1,578.54	821.32
1,005	3.50	82.9560	4.9863	1,004.31	35.77	1,583.05	823.69
1,067	4.25	61.9583	4.1900	1,066.17	39.96	1,586.92	825.29
1,131	4.50	63.9135	4.5822	1,129.98	44.35	1,591.43	827.16
1,224	5.00	92.9806	7.7012	1,222.66	52.55	1,598.55	830.11
1,326	5.75	101.5515	9.5547	1,324.22	62.10	1,607.37	833.77
1,443	6.00	116.9855	11.9759	1,440.60	74.08	1,618.44	838.35
1,536	6.00	92.4905	9.7211	1,533.09	83.80	1,627.42	842.07
1,635	6.00	98.4577	10.3483	1,631.55	94.15	1,636.98	846.03
1,736	7.00	100.3508	11.4335	1,731.90	105.58	1,647.54	850.40
1,820	7.00	33.3739	10.2370	1,815.27	115.32	1,657.00	854.32
1,914	7.00	93.2993	11.4557	1,908.57	127.27	1,667.59	858.71
2,039	7.75	123.9659	16.0454	2,032.54	143.32	1,682.41	864.85
2,142	8.00	102.0286	14.1123	2,134.57	157.43	1,695.45	870.25
2,235	8.25	92.0665	13.1440	2,226.63	170.58	1,707.59	875.28
2,354	8.25	117.7685	17.0756	2,344.40	187.65	1,723.37	881.81
2,476	8.75	120.6599	18.0327	2,465.06	205.68	1,740.03	888.71
2,598	9.00	120.5393	18.8221	2,585.60	224.51	1,757.42	895.91
2,721	9.75	121.3571	20.0361	2,706.96	244.54	1,775.93	903.58
2,853	10.00	130.0443	22.6379	2,837.00	267.18	1,796.84	912.25
2,937	9.75	82.7555	14.4059	2,919.76	281.59	1,810.15	917.76
3,063	10.25	124.0858	21.8797	3,043.84	303.47	1,830.37	926.13
3,186	10.50	120.9890	22.1511	3,164.83	325.62	1,850.83	934.61
3,309	11.50	120.7401	23.4695	3,285.57	349.09	1,872.51	943.59
3,400	11.75	89.1334	18.3370	3,374.71	367.42	1,889.45	950.61
3,524	12.00	121.3463	25.5164	3,496.05	392.94	1,913.03	960.37
3,650	13.00	123.0133	27.2714	3,619.07	420.21	1,938.22	970.81
3,774	13.75	120.6367	28.5841	3,739.70	448.39	1,964.72	981.78
3,934	14.50	116.3719	29.2846	3,856.08	478.18	1,991.78	992.99
3,959	15.25	62.8217	16.5862	3,918.90	494.37	2,007.20	999.38
4,020	16.00	58.7458	16.4297	3,977.64	511.30	2,022.38	1,005.66
4,085	16.50	62.4032	18.1889	4,040.05	529.48	2,039.18	1,012.62
4,148	15.75	60.5215	17.4972	4,100.57	546.98	2,055.35	1,019.32
4,210	15.00	50.8254	12.0505	4,160.20	563.24	2,071.01	1,025.81

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4,274	15.25	61.6349	17.2378	4,221.34	531.18	2,086.34	1,032.41
4,398	14.75	119.7748	32.0936	4,341.61	613.27	2,116.59	1,044.69
4,521	15.50	118.7391	32.0939	4,460.35	645.37	2,146.24	1,056.97
4,648	17.50	121.7701	36.0699	4,582.12	681.44	2,179.56	1,070.77
4,710	17.75	59.0896	18.7727	4,641.21	700.21	2,195.91	1,077.96
4,835	17.75	119.0495	38.1080	4,760.26	738.32	2,232.12	1,092.54
4,975	18.25	133.1479	43.2624	4,893.41	781.58	2,272.09	1,109.10
5,052	18.00	73.1793	23.9540	4,966.59	805.53	2,294.22	1,118.26
5,262	18.25	199.5798	65.3291	5,166.17	870.86	2,354.57	1,143.26
5,297	18.25	33.2395	10.9607	5,199.41	881.82	2,364.70	1,147.46

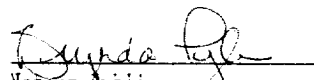
I, Fred J. Clausen, Area Superintendent for Wintershall Energy, A Business Group of BASF Corporation, do hereby attest that I have inspected the above surveys and found the same to be accurate, valid and complete to the best of my knowledge.


Fred J. Clausen
Area Superintendent

State of Colorado

County of Montezuma

Subscribed and sworn to me this 7th day of February, 1990.


Notary Public

My Commission Expires: 06/01/91