

ALL DIRECTIONAL DRILLING CALCULATIONS PERFORMED BY AN IBM ELECTRONIC COMPUTER

COMPANY- CITIES SERVICE OIL COMPANY

WELL- CSOC TRACY B WELL NO. 1

FIELD- CARLSBAD

EDDY COUNTY STATE OF NEW MEXICO

MEAS DEPTH	COURSE LENGTH	DRIFT ANGLE	VERTICAL-DEPTH COURSE	TOTAL	DEVIATION	DIRECTION	TOTAL COORDINATES			WEST
							NORTH	SOUTH	EAST	
8675	65	12.45	63.40	8651.48	14.35	N39W	225.35			54.30
8735	60	13.15	58.40	8709.88	13.75	N41W	235.73			63.32
8880	145	14.45	140.22	8850.10	36.92	N44W	262.29			88.97
8935	55	14.45	53.19	8903.29	14.00	N44W	272.36			98.70
9025	90	16.00	86.51	8989.80	24.81	N48W	288.96			117.14
9165	140	16.30	134.23	9124.03	39.76	N15W	327.37			127.43
9230	65	16.00	62.48	9186.51	17.92	N12W	344.90			131.16
9290	60	15.30	57.82	9244.33	16.03	N15W	360.38			135.31
9350	60	15.00	57.96	9302.29	15.53	N13W	375.51			138.80
9445	95	13.00	92.57	9394.86	21.37	N15W	396.15			144.33
9510	65	12.00	63.58	9458.44	13.51	N20W	408.85			148.95
9575	65	11.30	63.69	9522.13	12.96	N22W	420.87			153.80
9635	60	10.30	59.00	9581.13	10.93	N19W	431.20			157.36
9670	35	10.00	34.47	9615.60	6.08	N18W	436.98			159.24
9700	30	9.30	29.59	9645.19	4.95	N11W	441.84			160.18
9730	30	10.15	29.52	9674.71	5.34	N9W	447.11			161.02