

ALL DIRECTIONAL DRILLING CALCULATIONS PERFORMED BY AN IBM ELECTRONIC COMPUTER

COMPANY- CITIES SERVICE OIL COMPANY

WELL- CSOC TRACY 3 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		
						NORTH	SOUTH	WEST
9790	60	13.00	58.46 9733.17	13.50	N10W	460.40		163.36
9850	60	15.45	57.75 9790.92	16.29	N 7W	476.57		165.35
9885	35	17.00	33.47 9824.39	10.23	N 6W	486.74		166.42
9920	35	18.00	33.29 9857.68	10.82	N 9W	497.43		168.11
9955	35	18.30	33.19 9890.87	11.11	N 8W	508.43		169.66
9985	30	18.00	28.53 9919.40	9.27	N 7W	517.63		170.79
10025	40	17.30	38.15 9957.55	12.03	N 9W	529.51		172.67
10090	65	15.45	62.56 10020.11	17.64	N 9W	546.93		175.43
10150	60	14.00	58.22 10078.33	14.52	N 7W	561.34		177.20
10225	75	14.30	72.61 10150.94	18.78	N12W	579.71		181.10
10350	125	16.00	120.16 10271.10	34.46	N 9W	613.75		186.49
10575	225	17.30	214.59 10485.69	67.66	N 8W	680.75		195.91
10705	130	18.15	123.46 10609.15	40.71	N12W	720.57		204.37
10860	155	19.30	146.11 10755.26	51.74	N 7W	771.92		210.68
11010	150	20.45	140.27 10895.53	53.14	N 7W	824.66		217.16
11230	220	23.30	201.75 11097.28	87.73	N 6W	911.91		226.33