CUSTOMER Harding Oil Company

LOCATION State #34-1

COUNTY & STATE Lea, New Mexico

PERMIAN DIRECTIONAL SERVICE COMPANY

SURVEY RECORD

FIELD Wildcat

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DEPTH MEASURED	MEAS. COURSE	VERT. COURSE	TRUE VERT. DEPTH	COURSE DEVIATION	DRIFT	DIRECTION	COURSE CO-ORDINATES NORTH	COURSE CO-ORDINATES SOUTH	COURSE CO-ORDINATES EAST	COURSE CO-ORDINATES WEST	TOTAL CO-ORDINATES NORTH	TOTAL CO-ORDINATES SOUTH	TOTAL CO-ORDINATES EAST	TOTAL CO-ORDINATES WEST	SECTION DIFF.
10,695	91	87.47	10,663.96	25.08	16°	S46W		17.43		18.04		118.88		9.60	
10,785	90	85.83	10,749.79	27.66	17½°	S58W		17.40		20.73		136.28		30.33	
10,836	51	48.22	10,798.01	16.60	19°	S51W		10.45		12.90		146.73		43.23	
10,887	51	48.22	10,846.23	16.60	19°	S51W		10.45		12.90		157.18		56.13	
10,949	62	58.90	10,905.03	19.67	18½°	S54W		11.56		15.91		165.74		72.04	
11,040	91	86.79	10,991.82	27.36	17½°	S57W		14.91		22.94		183.65		94.98	
11,133	93	88.82	11,080.64	27.58	17¼°	S58W		14.62		23.39		198.27		118.37	
11,226	93	89.05	11,169.69	26.80	16¾°	S59W		13.80		22.98		212.07		141.35	
11,256	30	28.73	11,198.42	8.65	16¾°	S59W		4.45		7.42		216.52		148.77	
11,379	123	118.24	11,316.66	33.90	16°	S61W		16.44		29.65		232.96		178.42	
11,504	125	120.31	11,436.97	33.93	15¾°	S63W		15.40		30.23		248.36		208.65	
11,629	125	120.74	11,557.71	32.35	15°	S64W		14.18		29.07		262.54		237.72	
11,750	121	117.41	11,675.12	29.27	14°	S65W		12.37		26.52		274.91		264.24	
11,871	121	117.66	11,792.78	28.24	13½°	S67W		11.03		25.99		285.94		290.23	
11,996	125	121.80	11,914.58	28.12	13°	S69W		10.07		26.35		296.01		316.48	
12,170	174	170.35	12,084.93	35.43	11¾°	S70W		12.12		33.29		308.13		349.77	
12,364	194	190.43	12,275.36	37.62	11°	S68W		13.87		34.33		322.00		384.10	
12,452	88	86.66	12,361.96	15.66	10¼°	S64W		6.87		14.07		328.87		398.17	

Horizontal Displacement = 516.43 ft at South 50° 27' West