EASTMAN WHIPSTOCK, INC.

COMPANY Steam Reserve Corp FIELD Fish Lake Valley JOB NO.

LEASE WELL NO. 88-11A DISTRICT

TYPE OF SURVEY Single Shot COMPUTATIONS AVERAGE ANGLE DATE 11-21-84

ENGINEER Joe Howard OBJECTIVE 6000' @ N25E SHEET 1 OF

Declination 15° EAST

DOG LEG	OBS. ANGLE	OBS. DIRECTION	MEASURED DEPTH	COURSE LENGTH	AVG. DRIFT ANGLE	VERTICAL DEPTH	TRUE VERTICAL DEPTH	VERTICAL SECTION	SECT'N DIFF.	COURSE DEVIAT'N	AVG. DRIFT DIRECTION	DIRECT'L DIFF.	COORDINATE DIFFERENCES NORTH	SOUTH	EAST	WEST	RECTANGULAR COORDINATES NORTH	SOUTH	EAST	WEST
					TIE	IN	FROM	Scientific	Gyro											
	1°	S61W	1465				1464 94											5 26		33
	3/4	N56E	1535				1534 43	-4	27									4 35		79
	2 1/4	N65E	1566				1565 92	-3	62									3 43		02
	4	N71E	1599				1598 87	-2	30									3 94	1 57	
	7 1/4	N70E	1694				1693 91	4	54									17	10 57	
	7 3/4	N65E	1786				1784 22	13	08								4 43		21 46	
	8 1/4	N65E	1878				1875 72	22	49								9 44		33 06	
	9	N63E	1973				1969 62	33	96								16 01		45 86	
	9	N58E	2008				2004 22	38	42								18 79		50 63	
	8 30	N51E	2039				2034 66	42	53								21 53		54 47	
	8 45	N43E	2070				2065 51	46	50								24 70		57 67	
	10 15	N40E	2145				2139 48	58	71								33 97		66 07	
	12°	N40E	2240				2232 42	76	42								48 01		77 85	
	13°	N39E	2330				2320 29	95	27								63 04		90 24	
	13 45	N37E	2393				2381 58	109	47								74 52		99 21	
	13 45	N35E	2507				2492 31	136	06								96 06		115 14	
	14	N36E	2629				2610 44	164	83								120 26		132 13	
	14	N36E	2750				2728 16	193	57								143 94		149 34	
	14 15	N37E	2879				2853 26	224	92								169 25		169 07	

EASTMAN WHIPSTOCK, INC.

Declination 15' EAST

COMPANY Stean Reserve Corp FIELD Fish Lake Valley JOB NO.

LEASE WELL NO. 88-11A DISTRICT

TYPE OF SURVEY COMPUTATIONS Average Angle DATE 11-28-84

ENGINEER Joe Howard OBJECTIVE 6000' N25E Proposed SHEET 2 OF 2

OBS. ANGLE	OBS. DIRECTION	MEASURED DEPTH	COURSE LENGTH	AVG. DRIFT ANGLE 1	VERTICAL DEPTH 2	3 TRUE VERTICAL DEPTH	VERTICAL SECTION	SECT'N DIFF.	4 COURSE DEVIAT'N	AVG. 5 DRIFT DIRECTION	DIRECT'L DIFF.	6 COORDINATE DIFFERENCES NORTH	SOUTH	EAST	WEST	7 RECTANGULAR COORDINATES NORTH	SOUTH	EAST	WEST
14 15	N36E	2999				2969 57	253 37									193 00		185 64	
14 15	N35E	3127				3093 63	284 35									218 65		203 94	
13 45	N37E	3250				3212 98	313 56									242 72		221 43	
14	N37E	3366				3325 60	340 77									264 94		238 17	
13 45	N37E	3495				3450 84	371 03									289 65		256 79	
14	N36E	3619				3571 22	400 17									313 55		274 48	
14	N35E	3742				3690 57	429 43									337 78		291 76	
13 45	N34E	3867				3811 92	459 00									362 48		308 74	
13 45	N34E	3991				3952 37	488 11									386 91		325 22	
13 45	N35E	4113				4171 4050 87	516 70									410 81		341 64	
13 15	N31E	4237 37				121 4171 44	545 40									435 27		357 19	
13	N30E	4361	124	13 125	120 76	4292 20	573 43	28 02	28 157	N 30.5 E	5.5	24 26		14 29		459 53		371 48	
14 30	N34E	4485				4412 65	602 68									484 47		387 10	
15 15	N35E	4547	62	14 88	59 92	4472 57	618 38	15 70	15 92	N 34.5 E	9.5	13 12		9 01		497 59		396 11	
15 15	N32E	4630	83	15 25	80 08	4552 65	639 96	21 59	21 83	N 33.5 E	8.5	18 21		12 05		515 80		408 16	
15	N31-E	4753	123	15 125	118 70	4671.79 4670 73	628.78 667 24	27 28	32 00	N 31.5 E	6.5	27 28		16 71		543.16 543 08		424.93 424 87	.29
15	N30E	4888	135	15	130 39	4801.79 4800 .4	615.92 701 95	34 71	34 94	N 30.5 E	5.5	30 10		17 73		573.27 573 18		442.66 442 60	.19
15 30	N32-E	5013	125	15 25	120 59	4922.39 4921 0	694.11 734 69	32 74	32 87	N 31 E	6.0	28 13		16 92		601.45 601 31		459.60 459 52	.58
15 25	N32-E	5135	122	15 37	117 63	5040.02 5038 63	591.98 766 85	32 16	32 34	N 32 E	7.0	27 42		17 13		628.88 628 73		476.74 476 65	.20
15 15	N31-E	5250	115	15 75	110 95	5150.97 5149 58	580.87 791 78	25 78	30 24	N 31.5 E	7.0	25 71		15 91		654.68 654 44		492.54 492 56	.23
15 30	N30E	5333	83	15 125	110 [illegible]	522.9 [illegible]	821 79	[illegible] 65	[illegible] 65	[illegible]	[illegible]	[illegible] 65		94		[illegible]		[illegible]	