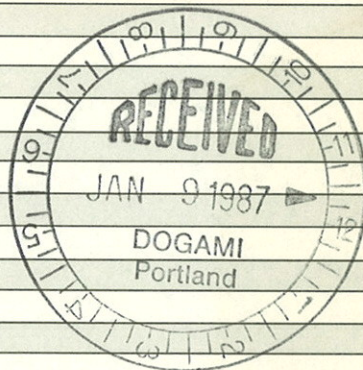


OREGON NATURAL GAS CORP.
 DM 44A-3
 MIST
 COLUMBIA
 12-12-86

OREGON



INTERVAL 425.0 TO 3651.0
 RUN 1 RLAC 11158.
 ENGINEER M. HINDS MR. THOMAS MAG DEC 20.

 * OREGON 11158 SL=12, WL= 8, ST=2 *
 * *
 * 4 0 0 0 0 *

FORMATION DIP

****BOREHOLE****

DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
439.0	8.00	8.3	225	S 45 W	100	0.5	349	N 11 W
441.0	8.00	7.7	246	S 65 W	100	0.5	358	N 2 W
451.0	8.00	0.8	238	S 58 W	100	0.6	347	N 13 W
455.0	8.00	29.0	257	S 77 W	81	0.6	349	N 11 W
459.0	8.00	27.9	270	N 90 W	100	0.5	355	N 5 W
451.0	8.00	48.6	243	S 63 W	78	0.5	356	N 4 W
455.0	8.00	1.4	209	S 29 W	100	0.5	353	N 7 W
459.0	8.00	37.3	231	S 51 W	100	0.5	350	N 10 W
471.0	8.00	25.0	266	S 86 W	100	0.5	348	N 12 W
475.0	8.00	36.1	238	S 58 W	65	0.5	347	N 13 W
479.0	8.00	6.4	163	S 17 E	100	0.6	343	N 17 W
481.0	8.00	6.5	149	S 31 E	100	0.5	340	N 20 W
483.0	8.00	5.3	155	S 25 E	100	0.5	342	N 18 W
485.0	8.00	3.0	108	S 72 E	100	0.5	346	N 14 W
489.0	8.00	2.1	113	S 67 E	100	0.5	347	N 13 W
491.0	8.00	6.4	141	S 39 E	100	0.5	347	N 13 W
499.0	8.00	39.7	136	S 44 E	100	0.4	0	N 0 E
501.0	8.00	27.5	132	S 48 E	100	0.4	6	N 6 E
505.0	8.00	2.3	89	N 89 E	100	0.4	18	N 18 E
507.0	8.00	13.3	52	N 52 E	100	0.4	18	N 18 E
509.0	8.00	9.9	318	N 42 W	100	0.3	16	N 16 E
511.0	8.00	8.3	314	N 46 W	100	0.3	12	N 12 E
513.0	8.00	9.4	313	N 47 W	100	0.4	14	N 14 E
515.0	8.00	4.2	330	N 30 W	100	0.3	13	N 13 E
517.0	8.00	2.5	331	N 29 W	100	0.3	18	N 18 E
519.0	8.00	5.6	325	N 34 W	100	0.3	27	N 27 E
521.0	8.00	2.7	285	N 75 W	100	0.4	26	N 26 E
523.0	8.00	6.4	285	N 74 W	100	0.3	31	N 31 E
525.0	8.00	5.1	280	N 80 W	100	0.3	31	N 31 E

OREGON NATURAL GAS CORP.

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WIST

COLUMBIA

OREGON

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DEPTH	WL	**FORMATION DIP**				*****BOREHOLE*****		
		ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
527.0	8.00	8.7	288	N 72 W	100	0.3	37	N 37 E
535.0	8.00	7.1	338	N 22 W	100	0.2	25	N 25 E
541.0	8.00	6.8	334	N 25 W	100	0.2	26	N 26 E
543.0	8.00	12.4	339	N 21 W	100	0.2	39	N 39 E
553.0	8.00	4.1	1	N 1 E	100	0.1	40	N 40 E
555.0	8.00	1.6	342	N 18 W	100	0.1	25	N 25 E
557.0	8.00	3.1	20	N 20 E	100	0.0	16	N 16 E
559.0	8.00	3.3	0	N 0 E	100	0.0	303	N 57 W
551.0	8.00	4.4	11	N 11 E	100	0.1	312	N 48 W
553.0	8.00	4.7	8	N 8 E	100	0.1	316	N 44 W
555.0	8.00	5.7	350	N 10 W	100	0.1	338	N 22 W
557.0	8.00	4.3	350	N 10 W	100	0.1	329	N 31 W
559.0	8.00	5.1	4	N 4 E	100	0.1	333	N 27 W
571.0	8.00	6.8	17	N 17 E	100	0.1	323	N 37 W
573.0	8.00	4.9	354	N 6 W	100	0.2	325	N 35 W
575.0	8.00	5.3	344	N 15 W	100	0.2	322	N 38 W
577.0	8.00	6.0	354	N 6 W	100	0.2	321	N 39 W
579.0	8.00	6.3	355	N 4 W	100	0.3	325	N 35 W
581.0	8.00	7.2	355	N 4 W	100	0.3	331	N 29 W
583.0	8.00	14.1	25	N 25 E	100	0.2	323	N 37 W
585.0	8.00	2.3	295	N 65 W	100	0.3	320	N 40 W
589.0	8.00	3.2	295	N 65 W	100	0.4	321	N 39 W
591.0	8.00	3.7	307	N 53 W	100	0.4	329	N 31 W
593.0	8.00	2.6	327	N 33 W	84	0.4	326	N 34 W
601.0	8.00	20.2	354	N 5 W	100	0.4	344	N 16 W
607.0	8.00	28.8	272	N 88 W	52	0.4	0	N 0 E
623.0	8.00	38.8	230	S 50 W	100	0.5	8	N 8 E
625.0	8.00	39.2	226	S 46 W	89	0.5	5	N 5 E
627.0	8.00	39.4	224	S 44 W	93	0.5	4	N 4 E
629.0	8.00	48.9	188	S 8 W	73	0.5	9	N 9 E
633.0	8.00	23.8	205	S 25 W	81	0.5	5	N 5 E
635.0	8.00	24.9	188	S 8 W	100	0.5	11	N 11 E
639.0	8.00	45.6	225	S 45 W	77	0.5	32	N 32 E
643.0	8.00	27.8	201	S 21 W	100	0.5	35	N 35 E
647.0	8.00	27.6	211	S 31 W	46	0.5	30	N 30 E
655.0	8.00	23.5	195	S 15 W	63	0.4	23	N 23 E
673.0	8.00	47.8	150	S 30 E	58	0.5	44	N 44 E
677.0	8.00	23.8	176	S 4 E	100	0.5	51	N 51 E
679.0	8.00	20.1	203	S 23 W	100	0.5	48	N 48 E
681.0	8.00	25.6	203	S 23 W	96	0.5	50	N 50 E

OREGON NATURAL GAS CORP.

OM 44A-3

WIST

CO. JMBIA

OREGON

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FORMATION DIP

*****BOREHOLE*****

DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
683.0	8.00	18.4	199	S 19 W	100	0.5	54	N 54 E
685.0	8.00	48.8	189	S 9 W	80	0.5	47	N 47 E
691.0	8.00	28.1	191	S 11 W	24	0.7	67	N 67 E
693.0	8.00	45.5	242	S 52 W	78	0.6	70	N 70 E
695.0	8.00	31.9	225	S 45 W	99	0.6	60	N 60 E
697.0	8.00	29.7	229	S 49 W	100	0.7	61	N 61 E
699.0	8.00	36.4	205	S 25 W	87	0.7	62	N 62 E
703.0	8.00	45.4	241	S 51 W	100	0.6	63	N 63 E
705.0	8.00	44.5	245	S 55 W	91	0.6	64	N 64 E
707.0	8.00	45.6	268	S 58 W	77	0.6	67	N 67 E
709.0	8.00	12.9	309	N 51 W	48	0.5	68	N 68 E
711.0	8.00	8.2	347	N 13 W	100	0.6	69	N 69 E
713.0	8.00	7.9	3	N 3 E	100	0.6	73	N 73 E
715.0	8.00	3.2	74	N 74 E	100	0.5	71	N 71 E
717.0	8.00	40.2	105	S 74 E	95	0.5	70	N 70 E
719.0	8.00	39.6	101	S 73 E	100	0.5	66	N 66 E
721.0	8.00	6.7	105	S 73 E	88	0.5	65	N 65 E
723.0	8.00	25.0	94	S 85 E	56	0.5	70	N 70 E
731.0	8.00	7.8	83	N 83 E	100	0.4	67	N 67 E
733.0	8.00	5.5	188	S 8 W	100	0.4	71	N 71 E
737.0	8.00	9.3	200	S 20 W	100	0.5	67	N 67 E
739.0	8.00	7.3	187	S 7 W	100	0.5	64	N 64 E
741.0	8.00	6.7	190	S 18 W	100	0.5	69	N 69 E
743.0	8.00	1.7	235	S 55 W	100	0.5	62	N 62 E
745.0	8.00	2.1	323	N 37 W	100	0.4	74	N 74 E
747.0	8.00	3.0	345	N 15 W	100	0.4	73	N 73 E
749.0	8.00	4.5	331	N 29 W	100	0.4	77	N 77 E
751.0	8.00	1.9	297	N 63 W	100	0.4	76	N 76 E
753.0	8.00	2.3	203	S 29 W	100	0.5	74	N 74 E
755.0	8.00	2.4	218	S 35 W	100	0.4	70	N 70 E
757.0	8.00	1.9	239	S 59 W	100	0.5	77	N 77 E
759.0	8.00	1.8	268	S 88 W	100	0.4	81	N 81 E
761.0	8.00	2.2	275	N 84 W	100	0.4	80	N 80 E
763.0	8.00	2.8	283	N 77 W	100	0.4	80	N 80 E
765.0	8.00	2.3	262	S 82 W	100	0.4	82	N 82 E
767.0	8.00	1.9	277	N 83 W	100	0.3	84	N 84 E
769.0	8.00	1.7	272	N 88 W	100	0.3	83	N 83 E
775.0	8.00	1.2	294	N 65 W	100	0.4	78	N 78 E
777.0	8.00	3.5	335	N 24 W	100	0.3	82	N 82 E
779.0	8.00	3.1	5	N 5 E	100	0.3	85	N 85 E

OREGON NATURAL GAS CORP.

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MIST

COLUMBIA

OREGON

12-12-86

DEPTH	WI	**FORMATION DIP**				GRADE	****BOREHOLE****		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
781.0	8.00	4.4	1	N 1 E	100	0.3	88	N 88 E	
783.0	8.00	4.1	329	N 31 W	100	0.3	89	N 89 E	
785.0	8.00	8.2	243	S 63 W	100	0.4	89	N 89 E	
787.0	8.00	8.9	207	S 27 W	100	0.4	88	N 88 E	
789.0	8.00	8.7	197	S 17 W	100	0.4	89	N 89 E	
791.0	8.00	9.1	197	S 17 W	100	0.4	90	N 90 E	
793.0	8.00	9.4	192	S 12 W	100	0.4	95	S 85 E	
795.0	8.00	9.9	184	S 4 W	100	0.3	95	S 85 E	
797.0	8.00	11.8	162	S 18 E	100	0.3	89	N 89 E	
799.0	8.00	11.0	168	S 12 E	100	0.3	90	N 90 E	
801.0	8.00	10.0	170	S 10 E	100	0.3	102	S 78 E	
803.0	8.00	12.1	169	S 11 E	100	0.3	107	S 73 E	
805.0	8.00	19.9	159	S 11 E	100	0.3	113	S 67 E	
807.0	8.00	21.6	197	S 17 W	100	0.2	121	S 59 E	
809.0	8.00	27.3	208	S 28 W	100	0.2	123	S 57 E	
811.0	8.00	26.4	212	S 32 W	100	0.1	117	S 63 E	
813.0	8.00	27.8	211	S 31 W	100	0.1	103	S 77 E	
815.0	8.00	27.1	217	S 37 W	100	0.1	92	S 88 E	
817.0	8.00	26.6	212	S 32 W	100	0.1	93	S 87 E	
819.0	8.00	27.2	198	S 18 W	100	0.1	124	S 56 E	
821.0	8.00	23.3	210	S 30 W	100	0.1	68	N 68 E	
823.0	8.00	21.6	223	S 43 W	100	0.2	45	N 45 E	
825.0	8.00	30.1	214	S 34 W	100	0.2	35	N 35 E	
827.0	8.00	24.0	198	S 18 W	100	0.2	21	N 21 E	
829.0	8.00	18.0	204	S 24 W	100	0.2	16	N 16 E	
831.0	8.00	19.8	220	S 40 W	100	0.3	25	N 25 E	
833.0	8.00	15.2	239	S 59 W	100	0.3	24	N 24 E	
835.0	8.00	12.5	232	S 52 W	100	0.2	22	N 22 E	
837.0	8.00	12.0	225	S 45 W	100	0.3	12	N 12 E	
839.0	8.00	9.7	248	S 68 W	100	0.3	26	N 26 E	
841.0	8.00	6.7	252	S 72 W	100	0.3	26	N 26 E	
843.0	8.00	5.1	268	S 88 W	100	0.3	21	N 21 E	
845.0	8.00	5.7	251	S 71 W	100	0.3	32	N 32 E	
847.0	8.00	5.1	228	S 48 W	100	0.3	31	N 31 E	
849.0	8.00	7.9	212	S 32 W	100	0.3	32	N 32 E	
851.0	8.00	7.5	212	S 32 W	100	0.3	33	N 33 E	
853.0	8.00	7.2	211	S 31 W	100	0.2	44	N 44 E	
855.0	8.00	6.7	206	S 25 W	100	0.2	32	N 32 E	
857.0	8.00	6.6	206	S 25 W	100	0.2	29	N 29 E	
859.0	8.00	6.7	195	S 15 W	100	0.2	21	N 21 E	

OREGON NATURAL GAS CORP.

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WIST

CO. UMBIA

OREGON

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DEPTH	NL	**FORMATION DIP**				****BOREHOLE****		
		ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
851.0	8.00	6.1	182	S 2 W	100	0.2	18	N 18 E
853.0	8.00	2.5	185	S 3 W	100	0.2	22	N 22 E
855.0	8.00	1.4	187	S 7 W	100	0.3	43	N 43 E
857.0	8.00	1.3	196	S 15 W	100	0.2	29	N 29 E
859.0	8.00	1.8	182	S 2 W	100	0.2	27	N 27 E
871.0	8.00	1.2	157	S 23 E	100	0.2	24	N 24 E
873.0	8.00	1.4	159	S 21 E	100	0.3	24	N 24 E
875.0	8.00	2.0	177	S 3 E	100	0.2	19	N 19 E
879.0	8.00	1.3	175	S 5 E	100	0.2	27	N 27 E
883.0	8.00	2.1	217	S 37 W	100	0.3	25	N 25 E
885.0	8.00	0.6	205	S 23 W	100	0.3	34	N 34 E
897.0	8.00	6.0	204	S 24 W	100	0.3	33	N 33 E
897.0	8.00	3.5	130	S 50 E	100	0.5	46	N 46 E
899.0	8.00	3.1	148	S 32 E	100	0.4	45	N 45 E
901.0	8.00	2.3	150	S 20 E	100	0.4	41	N 41 E
903.0	8.00	1.3	183	S 3 W	100	0.4	50	N 50 E
907.0	8.00	0.4	181	S 1 W	100	0.4	49	N 49 E
911.0	8.00	1.1	207	S 27 W	100	0.4	46	N 46 E
913.0	8.00	3.7	208	S 28 W	100	0.4	50	N 50 E
915.0	8.00	3.4	219	S 39 W	100	0.4	48	N 48 E
917.0	8.00	3.1	224	S 44 W	100	0.4	49	N 49 E
919.0	8.00	4.1	234	S 54 W	100	0.4	53	N 53 E
921.0	8.00	3.4	252	S 72 W	100	0.4	58	N 58 E
923.0	8.00	4.4	225	S 45 W	100	0.4	56	N 56 E
925.0	8.00	3.2	230	S 50 W	100	0.4	55	N 55 E
927.0	8.00	4.6	251	S 71 W	100	0.4	56	N 56 E
929.0	8.00	2.7	233	S 53 W	100	0.5	54	N 54 E
931.0	8.00	3.2	245	S 65 W	100	0.4	54	N 54 E
933.0	8.00	2.2	237	S 57 W	100	0.4	47	N 47 E
935.0	8.00	2.1	243	S 63 W	100	0.3	53	N 53 E
937.0	8.00	2.4	247	S 67 W	100	0.4	65	N 65 E
939.0	8.00	1.3	252	S 72 W	100	0.4	65	N 65 E
941.0	8.00	1.6	269	S 89 W	100	0.5	61	N 61 E
943.0	8.00	2.3	235	S 58 W	100	0.4	64	N 64 E
945.0	8.00	2.7	267	S 87 W	100	0.4	64	N 64 E
947.0	8.00	1.0	238	S 58 W	100	0.4	68	N 68 E
949.0	8.00	1.0	248	S 68 W	100	0.4	58	N 58 E
951.0	8.00	0.9	279	S 81 W	100	0.4	60	N 60 E
953.0	8.00	0.3	258	S 78 W	100	0.5	64	N 64 E
955.0	8.00	1.4	255	S 75 W	100	0.4	63	N 63 E

GREGON NATURAL GAS CORP.

GM 44A-3

MIST

CD UM31A

OREGON

12-12-86

DEPTH	DI	**FORMATION DIP**				GRADE	****BOREHOLE****		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
957.0	8.00	2.0	248	S 68 W	100	0.4	58	N 58 E	
959.0	8.00	2.2	243	S 63 W	100	0.3	54	N 54 E	
951.0	8.00	2.6	250	S 70 W	100	0.3	54	N 54 E	
953.0	8.00	3.2	248	S 68 W	100	0.3	64	N 64 E	
955.0	8.00	2.4	247	S 67 W	100	0.3	56	N 56 E	
957.0	8.00	1.8	264	S 84 W	100	0.3	57	N 57 E	
959.0	8.00	1.8	245	S 65 W	100	0.2	53	N 53 E	
971.0	8.00	0.5	239	S 59 W	100	0.3	48	N 48 E	
973.0	8.00	1.8	207	S 27 W	100	0.4	57	N 57 E	
975.0	8.00	2.4	209	S 29 W	100	0.4	66	N 66 E	
977.0	8.00	3.3	200	S 20 W	100	0.4	65	N 65 E	
979.0	8.00	2.9	214	S 38 W	100	0.4	70	N 70 E	
981.0	8.00	4.0	234	S 54 W	100	0.4	64	N 64 E	
983.0	8.00	4.2	243	S 63 W	100	0.4	65	N 65 E	
985.0	8.00	3.2	229	S 49 W	100	0.4	70	N 70 E	
987.0	8.00	3.4	220	S 40 W	100	0.4	78	N 78 E	
989.0	8.00	2.7	203	S 23 W	100	0.4	78	N 78 E	
991.0	8.00	3.5	208	S 28 W	100	0.4	77	N 77 E	
993.0	8.00	3.3	212	S 32 W	100	0.4	79	N 79 E	
995.0	8.00	2.8	205	S 25 W	100	0.4	80	N 80 E	
997.0	8.00	2.4	213	S 33 W	100	0.4	85	N 85 E	
999.0	8.00	2.5	195	S 15 W	100	0.4	71	N 71 E	
1001.0	8.00	2.5	186	S 5 W	100	0.4	61	N 61 E	
1003.0	8.00	2.3	185	S 5 W	100	0.4	71	N 71 E	
1005.0	8.00	4.1	188	S 8 W	100	0.4	72	N 72 E	
1007.0	8.00	4.6	201	S 21 W	100	0.4	75	N 75 E	
1009.0	8.00	3.9	213	S 33 W	100	0.4	85	N 85 E	
1011.0	8.00	4.8	215	S 35 W	100	0.4	84	N 84 E	
1013.0	8.00	4.3	219	S 39 W	100	0.4	81	N 81 E	
1015.0	8.00	4.8	213	S 33 W	100	0.4	73	N 73 E	
1017.0	8.00	5.9	200	S 20 W	100	0.3	67	N 67 E	
1019.0	8.00	6.1	199	S 19 W	100	0.4	81	N 81 E	
1021.0	8.00	6.8	218	S 38 W	100	0.4	87	N 87 E	
1023.0	8.00	8.5	206	S 25 W	100	0.4	78	N 78 E	
1025.0	8.00	7.8	204	S 24 W	100	0.4	86	N 86 E	
1027.0	8.00	29.0	312	N 48 W	76	0.4	89	N 89 E	
1029.0	8.00	25.8	296	N 64 W	100	0.4	80	N 80 E	
1031.0	8.00	18.7	299	N 61 W	82	0.4	84	N 84 E	
1039.0	8.00	50.6	276	N 84 W	57	0.3	81	N 81 E	
1047.0	8.00	36.6	280	N 80 W	100	0.4	100	S 00 E	

OREGON NATURAL GAS CORP.

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WIST

COLUMBIA

OREGON

12-12-86

DEPTH	TL	**FORMATION DIP**				GRADE	***BOREHOLE***		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
1049.0	8.00	36.0	167	S 13 E	100	0.4	99	S 81 E	
1051.0	8.00	38.2	151	S 29 E	35	0.4	97	S 83 E	
1059.0	8.00	12.4	173	S 7 E	58	0.4	128	S 52 E	
1071.0	8.00	12.0	177	S 3 E	100	0.4	129	S 51 E	
1073.0	8.00	12.4	175	S 5 E	100	0.4	125	S 55 E	
1075.0	8.00	11.6	175	S 5 E	100	0.4	132	S 48 E	
1077.0	8.00	11.1	179	S 1 E	100	0.4	133	S 47 E	
1079.0	8.00	13.0	174	S 5 E	100	0.4	125	S 55 E	
1081.0	8.00	12.9	174	S 5 E	100	0.4	123	S 57 E	
1083.0	8.00	13.1	175	S 5 E	100	0.4	123	S 57 E	
1085.0	8.00	12.5	185	S 5 W	100	0.3	127	S 53 E	
1087.0	8.00	11.8	182	S 3 W	100	0.3	129	S 51 E	
1089.0	8.00	12.0	188	S 8 W	100	0.3	132	S 48 E	
1091.0	8.00	12.7	204	S 24 W	100	0.3	141	S 39 E	
1093.0	8.00	14.3	195	S 16 W	100	0.3	151	S 29 E	
1095.0	8.00	13.4	203	S 23 W	100	0.3	149	S 31 E	
1097.0	8.00	15.9	199	S 19 W	100	0.3	149	S 31 E	
1099.0	8.00	16.2	207	S 27 W	100	0.3	147	S 33 E	
1101.0	8.00	12.9	196	S 16 W	100	0.3	147	S 33 E	
1103.0	8.00	13.1	199	S 19 W	100	0.3	145	S 35 E	
1105.0	8.00	13.8	200	S 20 W	100	0.3	145	S 35 E	
1107.0	8.00	14.5	198	S 18 W	100	0.3	143	S 37 E	
1109.0	8.00	15.0	199	S 19 W	100	0.3	144	S 36 E	
1111.0	8.00	15.3	200	S 20 W	100	0.4	150	S 30 E	
1113.0	8.00	15.4	200	S 20 W	100	0.4	159	S 21 E	
1115.0	8.00	16.0	204	S 24 W	100	0.4	160	S 20 E	
1117.0	8.00	15.6	201	S 21 W	100	0.3	160	S 20 E	
1119.0	8.00	19.7	207	S 27 W	100	0.3	168	S 12 E	
1123.0	8.00	10.3	151	S 29 E	100	0.3	172	S 8 E	
1125.0	8.00	9.7	154	S 25 E	100	0.3	168	S 12 E	
1127.0	8.00	10.8	184	S 4 W	100	0.4	170	S 10 E	
1129.0	8.00	13.4	172	S 8 E	100	0.3	156	S 24 E	
1131.0	8.00	13.7	170	S 2 E	100	0.3	164	S 16 E	
1133.0	8.00	14.6	175	S 5 E	100	0.3	164	S 16 E	
1135.0	8.00	15.3	180	S 8 E	100	0.3	165	S 15 E	
1137.0	8.00	16.3	182	S 2 W	100	0.3	166	S 14 E	
1139.0	8.00	17.1	185	S 5 W	100	0.3	165	S 15 E	
1141.0	8.00	17.4	187	S 7 W	100	0.3	164	S 16 E	
1143.0	8.00	18.2	185	S 5 W	100	0.3	164	S 16 E	
1145.0	8.00	17.3	172	S 8 E	100	0.3	166	S 14 E	

OREGON NATURAL GAS CORP.

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WIST

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OREGON

12-12-86

DEPTH	DI	**FORMATION DIP**				GRADE	****BORFHOLE****		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
1147.0	8.00	17.6	173	S 10 E	100	0.3	168	S 12 E	
1149.0	8.00	17.0	173	S 7 E	100	0.3	178	S 2 E	
1151.0	8.00	17.6	176	S 4 E	100	0.3	168	S 12 E	
1153.0	8.00	18.2	180	S 0 E	100	0.3	170	S 10 E	
1155.0	8.00	18.5	182	S 2 W	100	0.3	170	S 10 E	
1157.0	8.00	23.0	190	S 10 W	100	0.3	173	S 7 E	
1159.0	8.00	21.6	180	S 0 E	100	0.3	173	S 7 E	
1161.0	8.00	20.8	169	S 11 E	100	0.3	165	S 15 E	
1163.0	8.00	23.8	168	S 12 E	100	0.3	160	S 20 E	
1165.0	8.00	20.3	159	S 21 E	100	0.2	160	S 20 E	
1167.0	8.00	15.6	171	S 9 E	100	0.2	159	S 21 E	
1169.0	8.00	14.4	171	S 9 E	100	0.3	162	S 18 E	
1171.0	8.00	10.4	192	S 12 W	100	0.3	161	S 19 E	
1173.0	8.00	12.5	184	S 8 W	100	0.3	161	S 19 E	
1175.0	8.00	11.7	196	S 15 W	100	0.3	162	S 18 E	
1177.0	8.00	12.2	199	S 19 W	100	0.2	159	S 21 E	
1179.0	8.00	12.2	195	S 15 W	100	0.2	162	S 18 E	
1181.0	8.00	11.8	198	S 18 W	100	0.2	167	S 13 E	
1183.0	8.00	13.3	197	S 17 W	100	0.2	163	S 17 E	
1185.0	8.00	14.7	194	S 14 W	100	0.2	170	S 10 E	
1187.0	8.00	14.5	196	S 16 W	100	0.2	172	S 8 E	
1189.0	8.00	15.3	198	S 18 W	100	0.2	179	S 1 E	
1191.0	8.00	14.8	201	S 21 W	100	0.2	184	S 4 W	
1193.0	8.00	14.1	200	S 20 W	100	0.3	176	S 4 E	
1195.0	8.00	17.6	205	S 25 W	100	0.2	183	S 3 W	
1197.0	8.00	21.1	201	S 21 W	100	0.2	191	S 11 W	
1199.0	8.00	18.2	195	S 15 W	100	0.3	205	S 25 W	
1201.0	8.00	14.9	203	S 23 W	100	0.2	202	S 22 W	
1203.0	8.00	14.5	205	S 23 W	100	0.2	204	S 24 W	
1205.0	8.00	14.3	208	S 23 W	100	0.2	197	S 17 W	
1207.0	8.00	13.5	213	S 35 W	100	0.2	197	S 17 W	
1209.0	8.00	17.0	218	S 38 W	100	0.2	189	S 9 W	
1211.0	8.00	16.7	216	S 35 W	100	0.2	188	S 8 W	
1213.0	8.00	16.3	225	S 45 W	100	0.2	188	S 8 W	
1215.0	8.00	11.4	237	S 57 W	74	0.2	199	S 19 W	
1223.0	8.00	38.3	224	S 44 W	100	0.1	195	S 15 W	
1239.0	8.00	42.3	259	S 79 W	68	0.1	141	S 39 E	
1249.0	8.00	44.4	289	N 71 W	69	0.1	151	S 29 E	
1251.0	8.00	17.3	258	S 78 W	82	0.0	131	S 49 E	
1253.0	8.00	17.2	256	S 75 W	100	0.1	130	S 50 E	

OREGON NATURAL GAS CORP.

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MIST

CO. JMBIA

OREGON

12-12-86

DEPTH	WL	**FORMATION DIP**			GRADE	****BOREHOLE****		
		ANG	AZ	BEARING		DA	DAZ	BEARING
1255.0	9.00	17.3	259	S 79 W	100	0.1	134	S 46 E
1257.0	8.00	17.0	255	S 75 W	100	0.1	135	S 45 E
1259.0	9.00	17.3	259	S 79 W	100	0.1	140	S 40 E
1261.0	9.00	17.9	254	S 79 W	100	0.1	144	S 36 E
1263.0	9.00	16.8	237	S 57 W	96	0.1	148	S 32 E
1265.0	9.00	15.2	226	S 46 W	100	0.0	154	S 26 E
1267.0	9.00	14.7	234	S 54 W	100	0.0	160	S 20 E
1269.0	9.00	13.7	242	S 62 W	100	0.0	116	S 64 E
1271.0	8.00	12.3	175	S 4 E	100	0.0	73	N 73 E
1273.0	8.00	11.3	172	S 8 E	100	0.0	29	N 29 E
1275.0	9.00	10.7	177	S 3 E	100	0.1	357	N 3 W
1277.0	9.00	11.9	192	S 12 W	100	0.1	347	N 13 W
1279.0	8.00	12.3	193	S 13 W	100	0.1	359	N 1 W
1281.0	9.00	10.0	177	S 3 E	100	0.1	5	N 5 E
1283.0	9.00	10.5	185	S 5 W	100	0.2	355	N 5 W
1285.0	9.00	11.8	191	S 11 W	100	0.2	356	N 4 W
1287.0	8.00	10.7	192	S 12 W	100	0.3	355	N 5 W
1289.0	9.00	10.7	179	S 2 E	100	0.3	4	N 4 E
1291.0	8.00	10.9	182	S 2 W	100	0.3	5	N 5 E
1293.0	8.00	11.7	177	S 3 E	100	0.3	11	N 11 E
1295.0	8.00	11.6	176	S 4 E	100	0.4	9	N 9 E
1297.0	9.00	11.0	175	S 4 E	100	0.4	7	N 7 E
1299.0	8.00	10.6	168	S 12 E	100	0.4	4	N 4 E
1301.0	9.00	10.4	166	S 14 E	100	0.4	7	N 7 E
1303.0	8.00	10.4	170	S 10 E	100	0.5	13	N 13 E
1305.0	8.00	10.7	171	S 9 E	100	0.5	15	N 15 E
1307.0	9.00	11.4	171	S 9 E	100	0.5	12	N 12 E
1309.0	8.00	12.6	169	S 12 E	100	0.5	15	N 15 E
1311.0	8.00	12.8	170	S 10 E	100	0.5	17	N 17 E
1313.0	9.00	14.7	164	S 15 E	100	0.5	14	N 14 E
1315.0	8.00	14.0	166	S 12 E	100	0.5	17	N 17 E
1317.0	9.00	13.8	165	S 13 E	100	0.5	13	N 13 E
1319.0	9.00	10.6	164	S 15 E	100	0.5	15	N 15 E
1321.0	9.00	10.7	159	S 21 E	100	0.5	12	N 12 E
1323.0	8.00	8.9	159	S 21 E	100	0.5	13	N 13 E
1325.0	8.00	7.6	153	S 27 E	100	0.5	13	N 13 E
1327.0	8.00	6.7	136	S 44 E	100	0.5	13	N 13 E
1329.0	9.00	5.0	133	S 47 E	100	0.5	13	N 13 E
1337.0	8.00	3.3	183	S 3 W	60	0.5	9	N 9 E
1339.0	8.00	4.5	178	S 2 E	100	0.6	10	N 10 E

OREGON NATURAL GAS CORP.
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 12-12-86

OREGON

DEPTH	DI	**FORWAYTON DIP**				***BOREHOLE***			
		ANG	AZ	BEARINGS	GRADE	DA	DAZ	BEARINGS	
1341.0	8.00	5.0	187	S 7 W	100	0.5	13	N 13 E	
1343.0	8.00	5.1	179	S 1 E	100	0.6	8	N 8 E	
1345.0	8.00	4.8	195	S 15 W	100	0.5	6	N 6 E	
1347.0	8.00	4.8	182	S 2 W	100	0.5	6	N 6 E	
1349.0	8.00	4.6	174	S 5 E	100	0.6	8	N 8 E	
1351.0	8.00	4.2	170	S 10 E	100	0.6	7	N 7 E	
1353.0	8.00	4.1	161	S 19 E	100	0.6	4	N 4 E	
1355.0	8.00	4.1	155	S 25 E	100	0.6	5	N 5 E	
1359.0	8.00	5.0	178	S 2 E	100	0.6	5	N 5 E	
1361.0	8.00	6.1	167	S 13 E	90	0.6	5	N 5 E	
1363.0	8.00	7.0	159	S 21 E	100	0.6	0	N 0 E	
1365.0	8.00	6.0	153	S 27 E	86	0.6	3	N 3 E	
1367.0	8.00	5.7	175	S 5 E	100	0.6	4	N 4 E	
1371.0	8.00	45.3	168	S 12 E	90	0.6	3	N 3 E	
1373.0	8.00	49.1	169	S 11 E	100	0.6	6	N 6 E	
1375.0	8.00	42.7	182	S 2 W	96	0.6	8	N 8 E	
1377.0	8.00	44.7	182	S 3 E	100	0.6	11	N 11 E	
1379.0	8.00	22.6	170	S 10 E	100	0.6	5	N 5 E	
1381.0	8.00	15.6	165	S 14 E	100	0.6	4	N 4 E	
1383.0	8.00	11.0	180	S 0 E	100	0.6	1	N 1 E	
1385.0	8.00	9.2	157	S 23 E	100	0.6	358	N 2 W	
1387.0	8.00	9.1	154	S 26 E	100	0.6	357	N 3 W	
1389.0	8.00	10.4	121	S 59 E	100	0.6	357	N 3 W	
1391.0	8.00	17.2	135	S 45 E	100	0.6	356	N 4 W	
1393.0	8.00	20.1	141	S 39 E	100	0.6	356	N 4 W	
1395.0	8.00	20.7	154	S 26 E	100	0.6	357	N 3 W	
1397.0	8.00	6.0	165	S 14 E	100	0.6	354	N 6 W	
1399.0	8.00	4.5	321	N 39 W	100	0.6	357	N 3 W	
1401.0	8.00	5.4	323	N 37 W	100	0.6	357	N 3 W	
1403.0	8.00	6.6	328	N 32 W	100	0.6	356	N 4 W	
1405.0	8.00	6.8	329	N 31 W	100	0.7	354	N 6 W	
1407.0	8.00	6.5	337	N 23 W	100	0.7	355	N 5 W	
1409.0	8.00	7.0	329	N 31 W	100	0.7	353	N 7 W	
1411.0	8.00	7.0	338	N 30 W	100	0.6	352	N 8 W	
1413.0	8.00	7.2	328	N 32 W	100	0.6	347	N 13 W	
1415.0	8.00	8.5	321	N 39 W	100	0.6	353	N 7 W	
1417.0	8.00	8.2	322	N 38 W	100	0.7	355	N 5 W	
1419.0	8.00	7.5	315	N 44 W	100	0.7	351	N 9 W	
1421.0	8.00	7.4	314	N 45 W	100	0.7	352	N 8 W	
1423.0	8.00	7.3	293	N 62 W	100	0.7	352	N 8 W	

OREGON NATURAL GAS CORP.

OM 44A-3

MIST

CO. UMBIA

OREGON

12-12-86

DEPTH	NL	**FORMATION DIP**				GRADE	****BOREHOLE****		
		ANG	AZ	BEARINGS	DA		DAZ	BEARINGS	
1425.0	8.00	7.1	299	N 70 W	100	0.7	353	N 7 W	
1427.0	8.00	7.0	291	N 69 W	100	0.6	350	N 10 W	
1429.0	8.00	6.7	281	N 79 W	100	0.6	350	N 10 W	
1431.0	8.00	7.3	265	S 85 W	100	0.6	351	N 9 W	
1433.0	8.00	8.6	260	S 80 W	100	0.6	352	N 8 W	
1435.0	8.00	10.0	255	S 75 W	100	0.6	351	N 9 W	
1437.0	8.00	12.9	249	S 69 W	100	0.7	353	N 7 W	
1439.0	8.00	14.6	242	S 62 W	100	0.7	352	N 8 W	
1441.0	8.00	17.7	351	N 9 W	100	0.7	351	N 9 W	
1443.0	8.00	18.0	350	N 10 W	100	0.7	351	N 9 W	
1445.0	8.00	18.1	352	N 8 W	100	0.7	353	N 7 W	
1447.0	8.00	18.4	351	N 9 W	100	0.7	353	N 7 W	
1449.0	8.00	23.6	1	N 1 E	100	0.6	352	N 8 W	
1451.0	8.00	11.8	3	N 3 E	95	0.7	352	N 6 W	
1455.0	8.00	13.2	312	N 48 W	100	0.6	353	N 7 W	
1457.0	8.00	9.4	324	N 36 W	100	0.6	356	N 4 W	
1459.0	8.00	8.7	335	N 24 W	100	0.6	355	N 5 W	
1461.0	8.00	8.7	333	N 27 W	100	0.6	355	N 5 W	
1463.0	8.00	7.8	331	N 29 W	100	0.6	352	N 8 W	
1465.0	8.00	7.7	332	N 28 W	100	0.6	354	N 6 W	
1467.0	8.00	7.4	325	N 36 W	100	0.6	355	N 5 W	
1469.0	8.00	7.5	331	N 29 W	100	0.6	351	N 9 W	
1471.0	8.00	7.4	320	N 40 W	100	0.6	353	N 7 W	
1473.0	8.00	5.6	272	N 88 W	100	0.6	352	N 8 W	
1475.0	8.00	5.1	279	N 90 W	100	0.6	353	N 7 W	
1477.0	8.00	5.4	247	S 67 W	100	0.6	355	N 5 W	
1479.0	8.00	7.1	272	N 88 W	100	0.6	351	N 9 W	
1481.0	8.00	4.3	255	S 75 W	100	0.6	353	N 7 W	
1485.0	8.00	1.2	216	S 36 W	95	0.6	357	N 3 W	
1487.0	8.00	3.1	195	S 15 W	100	0.6	356	N 4 W	
1489.0	8.00	4.4	185	S 5 W	100	0.6	356	N 4 W	
1491.0	8.00	5.0	195	S 15 W	100	0.6	357	N 3 W	
1493.0	8.00	4.9	186	S 6 W	100	0.6	359	N 1 W	
1495.0	8.00	5.9	188	S 8 W	100	0.6	0	N 0 E	
1497.0	8.00	6.2	192	S 12 W	100	0.6	358	N 2 W	
1499.0	8.00	5.5	193	S 15 W	100	0.5	357	N 3 W	
1501.0	8.00	6.1	202	S 22 W	100	0.5	356	N 4 W	
1503.0	8.00	5.1	225	S 45 W	100	0.5	356	N 4 W	
1505.0	8.00	5.1	217	S 37 W	100	0.5	356	N 4 W	
1507.0	8.00	5.7	214	S 34 W	100	0.5	355	N 5 W	

OREGON NATURAL GAS CORP.

OM 440-3

WIST

CO. JMBIA

OREGON

12-12-86

DEPTH	DI	**FORMATION DIP**				GRADE	*****BOREHOLE*****		
		ANG	AZ	BEARING	OA		DAZ	BEARINGS	
1509.0	3.00	5.1	231	S 51 W	100	0.5	355	N 5 W	
1511.0	3.00	5.1	221	S 41 W	100	0.5	357	N 3 W	
1513.0	3.00	5.5	238	S 58 W	100	0.5	357	N 3 W	
1515.0	3.00	5.4	250	S 70 W	100	0.5	358	N 2 W	
1517.0	3.00	4.0	227	S 47 W	100	0.5	357	N 3 W	
1519.0	3.00	4.1	225	S 45 W	100	0.5	358	N 2 W	
1521.0	3.00	5.5	205	S 25 W	100	0.5	357	N 3 W	
1523.0	3.00	5.8	191	S 11 W	100	0.5	350	N 10 W	
1525.0	3.00	6.3	193	S 13 W	100	0.5	351	N 9 W	
1527.0	3.00	6.6	193	S 13 W	100	0.4	348	N 12 W	
1529.0	3.00	6.6	188	S 8 W	100	0.4	347	N 13 W	
1531.0	3.00	7.7	197	S 17 W	100	0.4	350	N 10 W	
1533.0	3.00	6.6	213	S 33 W	100	0.5	0	N 0 E	
1535.0	3.00	5.4	194	S 4 W	100	0.5	0	N 0 E	
1537.0	3.00	6.6	181	S 19 E	100	0.4	352	N 8 W	
1539.0	3.00	5.0	184	S 4 W	100	0.5	354	N 6 W	
1541.0	3.00	5.9	169	S 12 E	100	0.4	352	N 8 W	
1543.0	3.00	3.9	237	S 57 W	100	0.4	356	N 4 W	
1545.0	3.00	5.4	221	S 41 W	100	0.4	357	N 3 W	
1547.0	3.00	5.0	219	S 39 W	100	0.5	352	N 8 W	
1549.0	3.00	4.5	216	S 35 W	100	0.5	352	N 8 W	
1551.0	3.00	4.8	233	S 53 W	100	0.5	351	N 9 W	
1553.0	3.00	3.7	236	S 56 W	100	0.5	351	N 9 W	
1555.0	3.00	3.3	267	S 87 W	100	0.5	351	N 9 W	
1557.0	3.00	4.6	293	N 67 W	100	0.5	351	N 9 W	
1561.0	3.00	16.5	322	N 38 W	100	0.4	348	N 12 W	
1563.0	3.00	15.9	294	N 65 W	100	0.4	349	N 11 W	
1565.0	3.00	14.6	297	N 63 W	100	0.4	348	N 12 W	
1567.0	3.00	14.9	300	N 60 W	100	0.4	348	N 12 W	
1569.0	3.00	13.1	305	N 55 W	100	0.4	348	N 12 W	
1571.0	3.00	13.3	322	N 38 W	100	0.4	350	N 10 W	
1573.0	3.00	14.0	325	N 34 W	100	0.4	351	N 9 W	
1575.0	3.00	13.9	328	N 32 W	100	0.4	352	N 8 W	
1577.0	3.00	12.8	325	N 34 W	100	0.4	348	N 12 W	
1579.0	3.00	12.5	325	N 34 W	100	0.3	354	N 6 W	
1581.0	3.00	4.3	285	N 75 W	100	0.3	353	N 7 W	
1583.0	3.00	3.9	277	N 83 W	100	0.4	348	N 12 W	
1585.0	3.00	3.5	266	S 85 W	100	0.4	348	N 12 W	
1587.0	3.00	3.6	274	N 85 W	100	0.4	346	N 14 W	
1589.0	3.00	3.1	278	N 82 W	100	0.4	346	N 14 W	

OREGON NATURAL GAS CORP.

OM 444-3

MIST

COLUMBIA

OREGON

12-12-86

DEPTH	WL	**FORMATION DIP**				GRADE	***BORCHOLE***			
		AVG	AT	BEARING	DA		DAZ	BEARING		
1591.0	8.00	4.4	288	N 81 W	100	0.4	347	N 13 W		
1593.0	8.00	5.4	285	N 75 W	100	0.4	350	N 10 W		
1595.0	8.00	5.0	299	N 61 W	100	0.3	346	N 14 W		
1597.0	8.00	5.4	299	N 61 W	100	0.3	347	N 13 W		
1599.0	8.00	3.6	295	N 65 W	100	0.3	346	N 14 W		
1601.0	8.00	2.2	318	N 41 W	100	0.3	347	N 13 W		
1607.0	8.00	1.7	299	N 61 W	100	0.3	350	N 10 W		
1609.0	8.00	1.2	338	N 22 W	100	0.3	347	N 13 W		
1611.0	8.00	2.2	334	N 25 W	100	0.2	344	N 16 W		
1613.0	8.00	3.2	339	N 21 W	100	0.2	339	N 21 W		
1615.0	8.00	7.6	355	N 5 W	100	0.2	342	N 18 W		
1617.0	8.00	8.2	340	N 20 W	100	0.2	331	N 29 W		
1619.0	8.00	7.9	336	N 24 W	100	0.2	333	N 27 W		
1621.0	8.00	7.5	333	N 27 W	100	0.2	330	N 30 W		
1623.0	8.00	8.3	302	N 58 W	100	0.2	343	N 17 W		
1625.0	8.00	4.0	318	N 42 W	100	0.2	353	N 7 W		
1627.0	8.00	4.9	325	N 36 W	100	0.2	353	N 7 W		
1629.0	8.00	0.4	246	S 66 W	100	0.2	342	N 18 W		
1631.0	8.00	0.4	189	S 21 E	100	0.2	337	N 23 W		
1635.0	8.00	2.6	124	S 56 E	100	0.2	339	N 21 W		
1637.0	8.00	3.8	128	S 52 E	100	0.2	337	N 23 W		
1639.0	8.00	5.0	142	S 36 E	100	0.2	337	N 23 W		
1641.0	8.00	3.1	171	S 9 E	100	0.2	339	N 21 W		
1643.0	8.00	4.1	169	S 11 E	100	0.3	337	N 23 W		
1645.0	8.00	2.5	198	S 18 W	100	0.3	336	N 24 W		
1647.0	8.00	1.9	215	S 35 W	100	0.3	336	N 24 W		
1651.0	8.00	5.2	166	S 14 E	100	0.2	341	N 19 W		
1653.0	8.00	12.5	138	S 42 E	100	0.2	340	N 20 W		
1655.0	8.00	12.5	144	S 35 E	100	0.3	337	N 23 W		
1657.0	8.00	13.3	165	S 14 E	100	0.3	336	N 24 W		
1659.0	8.00	9.9	180	S 0 E	100	0.3	343	N 17 W		
1661.0	8.00	13.2	170	S 10 E	100	0.3	344	N 16 W		
1663.0	8.00	12.3	161	S 19 E	100	0.3	338	N 22 W		
1665.0	8.00	12.3	155	S 25 E	100	0.2	343	N 17 W		
1667.0	8.00	10.4	187	S 7 W	100	0.2	338	N 22 W		
1669.0	8.00	11.3	177	S 3 E	100	0.2	334	N 26 W		
1671.0	8.00	14.4	166	S 14 E	100	0.2	333	N 27 W		
1673.0	8.00	10.0	174	S 5 E	100	0.2	333	N 27 W		
1675.0	8.00	9.6	178	S 10 E	100	0.2	332	N 28 W		
1677.0	8.00	7.5	153	S 27 E	69	0.2	320	N 40 W		

OREGON NATURAL GAS CORP.

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MIST

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OREGON

12-12-86

DEPTH	WI	**FORMATION DIP**				GRADE	****BOREHOLE****			
		ANG	AZ	BEARING			DA	DAZ	BEARING	
1679.0	8.00	31.2	153	S 13 W	90	0.2	313	N 47 W		
1687.0	8.00	10.2	184	S 4 E	100	0.2	302	N 58 W		
1689.0	8.00	10.3	183	S 3 W	100	0.2	302	N 58 W		
1691.0	8.00	10.0	177	S 3 E	100	0.2	300	N 60 W		
1693.0	8.00	11.0	172	S 4 E	100	0.2	302	N 58 W		
1695.0	8.00	16.2	145	S 35 E	100	0.2	303	N 57 W		
1697.0	8.00	11.5	138	S 42 E	100	0.2	305	N 55 W		
1699.0	8.00	17.1	142	S 38 E	100	0.2	299	N 61 W		
1701.0	8.00	19.3	129	S 51 E	100	0.2	297	N 63 W		
1703.0	8.00	7.2	159	S 21 E	100	0.2	290	N 70 W		
1705.0	8.00	6.1	158	S 22 E	100	0.2	290	N 70 W		
1707.0	8.00	5.3	163	S 29 E	100	0.2	298	N 62 W		
1709.0	8.00	4.4	173	S 7 E	100	0.2	293	N 67 W		
1711.0	8.00	4.5	163	S 11 E	100	0.2	289	N 71 W		
1713.0	8.00	2.9	187	S 7 W	100	0.2	288	N 72 W		
1715.0	8.00	2.9	177	S 3 E	100	0.2	286	N 74 W		
1717.0	8.00	2.7	173	S 7 E	100	0.3	290	N 70 W		
1719.0	8.00	3.0	169	S 11 E	100	0.3	289	N 71 W		
1721.0	8.00	3.0	168	S 12 E	100	0.3	288	N 72 W		
1723.0	8.00	3.1	172	S 9 E	100	0.3	287	N 73 W		
1725.0	8.00	2.8	170	S 10 E	100	0.3	283	N 77 W		
1727.0	8.00	2.7	161	S 19 E	100	0.3	286	N 74 W		
1729.0	8.00	2.6	156	S 24 E	100	0.3	284	N 76 W		
1731.0	8.00	2.7	145	S 35 E	100	0.4	286	N 74 W		
1733.0	8.00	2.8	132	S 46 E	100	0.4	284	N 76 W		
1735.0	8.00	2.4	131	S 42 E	100	0.4	281	N 79 W		
1737.0	8.00	4.2	128	S 52 E	100	0.4	283	N 77 W		
1739.0	8.00	3.1	139	S 50 E	100	0.4	281	N 79 W		
1741.0	8.00	3.1	139	S 50 E	100	0.4	279	N 81 W		
1743.0	8.00	3.3	134	S 45 E	100	0.4	283	N 77 W		
1745.0	8.00	3.5	133	S 47 E	100	0.4	283	N 77 W		
1747.0	8.00	3.7	127	S 53 E	100	0.4	283	N 77 W		
1749.0	8.00	4.1	123	S 57 E	100	0.5	277	N 83 W		
1751.0	8.00	3.1	139	S 41 E	100	0.5	279	N 81 W		
1753.0	8.00	4.0	146	S 34 E	100	0.5	279	N 81 W		
1755.0	8.00	4.3	157	S 23 E	100	0.5	279	N 81 W		
1757.0	8.00	6.5	161	S 19 E	100	0.5	278	N 82 W		
1759.0	8.00	7.7	160	S 20 E	100	0.5	278	N 82 W		
1761.0	8.00	7.6	146	S 34 E	100	0.5	282	N 78 W		
1763.0	8.00	7.3	135	S 44 E	100	0.5	279	N 81 W		

OREGON NATURAL GAS CORP.

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MIST

CO_JMBIA

OREGON

12-12-86

DEPTH	NL	**FORMATION DIP**				GRADE	****BOREHOLE****			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
1755.0	8.00	7.8	137	S 43 E	100	0.6	285	N 75 W		
1757.0	8.00	6.9	145	S 35 E	100	0.6	284	N 76 W		
1759.0	8.00	6.7	157	S 23 E	100	0.6	282	N 78 W		
1771.0	8.00	7.0	168	S 12 E	100	0.6	281	N 79 W		
1773.0	8.00	7.1	171	S 9 E	100	0.6	281	N 79 W		
1775.0	8.00	6.3	167	S 13 E	100	0.6	279	N 81 W		
1777.0	8.00	6.0	165	S 15 E	100	0.6	283	N 77 W		
1779.0	8.00	7.2	145	S 34 E	100	0.6	283	N 77 W		
1781.0	8.00	15.4	164	S 15 E	100	0.6	279	N 81 W		
1787.0	8.00	44.0	58	N 58 E	69	0.6	279	N 81 W		
1793.0	8.00	48.2	33	N 33 E	76	0.7	273	N 87 W		
1795.0	8.00	21.3	54	N 54 E	100	0.7	275	N 85 W		
1803.0	8.00	14.4	80	N 80 E	73	0.7	272	N 88 W		
1815.0	8.00	24.5	138	S 42 E	100	0.7	264	S 84 W		
1817.0	8.00	24.0	125	S 55 E	100	0.6	272	N 88 W		
1821.0	8.00	11.4	110	S 78 E	100	0.8	277	N 82 W		
1823.0	8.00	42.4	97	S 88 E	26	0.8	275	N 88 W		
1825.0	8.00	22.8	194	S 14 W	100	0.8	272	N 88 W		
1827.0	8.00	22.2	191	S 11 W	100	0.8	275	N 88 W		
1829.0	8.00	31.1	187	S 7 W	94	0.8	277	N 88 W		
1833.0	8.00	10.1	197	S 17 W	100	0.9	274	N 88 W		
1837.0	8.00	17.8	197	S 17 W	75	0.9	274	N 88 W		
1839.0	8.00	16.7	188	S 8 W	63	0.9	274	N 88 W		
1841.0	8.00	17.6	185	S 5 W	100	0.9	275	N 88 W		
1843.0	8.00	17.8	183	S 3 W	100	0.9	275	N 88 W		
1845.0	8.00	15.0	183	S 3 W	100	0.9	277	N 88 W		
1847.0	8.00	14.6	175	S 5 E	100	0.9	275	N 88 W		
1849.0	8.00	14.8	215	S 35 W	100	0.9	276	N 84 W		
1851.0	8.00	5.9	217	S 37 W	100	1.0	274	N 86 W		
1853.0	8.00	31.6	201	S 21 W	100	0.9	276	N 84 W		
1857.0	8.00	4.3	332	N 28 W	100	1.0	275	N 85 W		
1859.0	8.00	31.0	5	N 3 E	97	1.0	275	N 85 W		
1851.0	8.00	20.1	353	N 7 W	100	1.0	277	N 83 W		
1853.0	8.00	20.3	345	N 15 W	100	1.0	277	N 83 W		
1855.0	8.00	39.5	303	N 57 W	100	1.1	274	N 86 W		
1857.0	8.00	19.4	307	N 58 W	100	1.1	275	N 85 W		
1859.0	8.00	18.2	308	N 52 W	100	1.0	275	N 85 W		
1871.0	8.00	31.2	381	N 59 W	100	1.1	273	N 87 W		
1873.0	8.00	28.9	319	N 41 W	100	1.1	273	N 87 W		
1875.0	8.00	19.3	203	N 57 W	100	1.1	272	N 88 W		

ORESON NATURAL GAS CORP.

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WIST

CO 1431A

ORESON

12-12-86

DEPTH	WI	**FORMATION DIP**				GRADE	*****BOREHOLE*****		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
1877.0	8.00	19.2	297	N 63 W	100	1.1	272	N 88 W	
1879.0	8.20	23.8	293	N 65 W	100	1.1	271	N 89 W	
1881.0	8.00	27.4	297	N 63 W	100	1.1	270	N 90 W	
1883.0	8.00	28.3	297	N 63 W	100	1.1	270	N 90 W	
1885.0	8.00	28.9	299	N 61 W	100	1.1	269	S 89 W	
1887.0	8.00	29.6	303	N 57 W	96	1.1	268	S 88 W	
1889.0	8.00	29.9	303	N 57 W	100	1.1	269	S 89 W	
1891.0	8.00	26.8	309	N 51 W	100	1.1	268	S 88 W	
1893.0	8.00	23.9	313	N 47 W	100	1.1	267	S 87 W	
1895.0	8.00	22.7	320	N 40 W	100	1.1	268	S 88 W	
1897.0	8.00	21.4	319	N 41 W	100	1.1	267	S 87 W	
1899.0	8.00	18.1	314	N 45 W	100	1.1	267	S 87 W	
1901.0	8.00	17.7	312	N 48 W	100	1.1	267	S 87 W	
1903.0	8.00	17.1	307	N 51 W	100	1.2	267	S 87 W	
1905.0	8.00	15.3	308	N 52 W	100	1.2	266	S 86 W	
1907.0	8.00	10.4	288	N 72 W	100	1.1	264	S 84 W	
1909.0	8.00	8.9	286	N 74 W	100	1.1	265	S 85 W	
1911.0	8.00	7.7	289	N 80 W	100	1.1	264	S 84 W	
1913.0	8.00	6.2	268	S 88 W	100	1.2	265	S 85 W	
1917.0	8.00	5.9	217	S 37 W	100	1.2	265	S 85 W	
1919.0	8.00	6.5	230	S 50 W	100	1.2	265	S 85 W	
1921.0	8.00	6.9	233	S 53 W	100	1.2	263	S 83 W	
1923.0	8.00	8.9	232	S 52 W	100	1.2	264	S 84 W	
1925.0	8.00	8.1	227	S 47 W	100	1.2	263	S 83 W	
1927.0	8.00	6.9	216	S 35 W	100	1.2	265	S 85 W	
1929.0	8.00	7.1	220	S 40 W	100	1.2	263	S 83 W	
1931.0	8.00	8.1	225	S 45 W	87	1.2	262	S 82 W	
1933.0	8.00	8.8	213	S 39 W	100	1.2	263	S 83 W	
1935.0	8.00	10.5	210	S 30 W	100	1.2	263	S 83 W	
1937.0	8.00	13.1	202	S 22 W	100	1.2	262	S 82 W	
1939.0	8.00	11.5	199	S 19 W	100	1.2	262	S 82 W	
1941.0	8.00	9.2	200	S 20 W	100	1.2	260	S 80 W	
1943.0	8.00	7.5	200	S 20 W	100	1.2	259	S 79 W	
1945.0	8.00	7.3	194	S 18 W	100	1.2	260	S 80 W	
1947.0	8.00	6.1	194	S 14 W	100	1.2	259	S 79 W	
1949.0	8.00	3.9	156	S 15 W	100	1.2	260	S 80 W	
1953.0	8.00	3.7	228	S 46 W	100	1.2	259	S 79 W	
1955.0	8.00	13.0	295	N 65 W	100	1.2	260	S 80 W	
1957.0	8.00	9.2	314	N 46 W	100	1.2	259	S 79 W	
1959.0	8.00	14.8	323	N 37 W	100	1.2	260	S 80 W	

OREGON NATURAL GAS CORP.

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WIST

CO_J431A

OREGON

12-12-86

DEPTH	WL	**FORMATION DIP**				GRADE	****BOREHOLE****		
		AVG	AZ	BEARING	DA		DAZ	BLARING	
1951.0	8.00	13.5	327	N 33 W	100	1.2	260	S 88 W	
1955.0	8.00	18.6	295	N 61 W	63	1.2	259	S 79 W	
1957.0	8.00	16.5	8	N 8 E	100	1.2	259	S 79 W	
1959.0	8.00	17.5	3	N 3 E	100	1.2	259	S 79 W	
1971.0	8.00	18.8	4	N 4 E	100	1.2	259	S 79 W	
1973.0	8.00	19.6	14	N 14 E	100	1.2	258	S 78 W	
1975.0	8.00	15.3	55	N 55 E	100	1.2	257	S 77 W	
1977.0	8.00	13.9	44	N 44 E	100	1.2	257	S 77 W	
1979.0	8.00	12.2	44	N 44 E	100	1.2	257	S 77 W	
1981.0	8.00	12.3	14	N 14 E	100	1.2	255	S 75 W	
1983.0	8.00	10.6	7	N 7 E	100	1.2	255	S 75 W	
1985.0	8.00	8.3	359	N 1 W	100	1.2	255	S 75 W	
1987.0	8.00	8.3	353	N 7 W	100	1.2	255	S 75 W	
1989.0	8.00	10.3	323	N 7 W	100	1.2	255	S 75 W	
1991.0	8.00	10.0	322	N 8 W	100	1.3	256	S 76 W	
1993.0	8.00	12.0	2	N 2 E	100	1.2	254	S 74 W	
1995.0	8.00	12.5	4	N 4 E	100	1.2	255	S 75 W	
1997.0	8.00	15.0	8	N 8 E	100	1.2	253	S 73 W	
1999.0	8.00	15.5	18	N 18 E	100	1.2	254	S 74 W	
2001.0	8.00	16.0	24	N 24 E	100	1.2	253	S 73 W	
2005.0	8.00	15.9	33	N 33 E	99	1.3	253	S 73 W	
2007.0	8.00	15.9	18	N 18 E	100	1.2	253	S 73 W	
2011.0	8.00	17.3	368	N 2 W	86	1.3	250	S 70 W	
2015.0	8.00	7.1	357	N 3 W	100	1.3	250	S 70 W	
2017.0	8.00	4.3	344	N 16 W	100	1.3	249	S 69 W	
2021.0	8.00	3.9	337	N 23 W	100	1.3	250	S 70 W	
2023.0	8.00	8.9	5	N 5 E	100	1.3	249	S 69 W	
2025.0	8.00	12.2	1	N 1 E	100	1.3	249	S 69 W	
2027.0	8.00	13.3	4	N 4 E	100	1.4	249	S 69 W	
2029.0	8.00	12.4	14	N 14 E	100	1.3	248	S 68 W	
2031.0	8.00	22.2	357	N 3 W	100	1.3	248	S 68 W	
2035.0	8.00	15.3	8	N 8 E	100	1.3	248	S 68 W	
2037.0	8.00	15.9	8	N 8 E	100	1.3	247	S 67 W	
2039.0	8.00	13.6	3	N 3 E	90	1.3	246	S 66 W	
2041.0	8.00	11.8	12	N 12 E	100	1.3	246	S 66 W	
2043.0	8.00	9.0	8	N 8 E	100	1.3	246	S 66 W	
2051.0	8.00	4.3	347	N 13 W	100	1.4	246	S 66 W	
2053.0	8.00	4.2	343	N 11 W	100	1.4	246	S 66 W	
2055.0	8.00	5.2	325	N 34 W	71	1.4	244	S 64 W	
2057.0	8.00	2.3	305	N 54 W	100	1.4	244	S 64 W	

OREGON NATURAL GAS CORP.
 GN 44A-3
 MIST
 COLUMBIA
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OREGON

DEPTH	WT	**FORMATION DIP**				****BOREHOLE****			
		ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
2057.0	8.00	16.7	325	N 34 W	100	1.3	243	S 63 W	
2059.0	8.00	19.9	338	N 22 W	100	1.3	244	S 64 W	
2071.0	8.00	11.0	330	N 30 W	100	1.4	242	S 62 W	
2073.0	8.00	8.9	335	N 25 W	100	1.4	243	S 63 W	
2075.0	8.00	7.4	2	N 2 E	100	1.4	241	S 61 W	
2077.0	8.00	2.5	23	N 23 E	100	1.3	241	S 61 W	
2079.0	8.00	3.7	41	N 41 E	100	1.4	241	S 61 W	
2081.0	8.00	8.9	45	N 45 E	100	1.4	237	S 57 W	
2083.0	8.00	16.9	39	N 39 E	100	1.4	239	S 59 W	
2085.0	8.00	15.9	35	N 35 E	100	1.4	239	S 59 W	
2087.0	8.00	20.7	25	N 25 E	100	1.5	240	S 60 W	
2089.0	8.00	30.5	343	N 17 W	100	1.5	240	S 60 W	
2091.0	8.00	10.6	12	N 12 E	100	1.5	240	S 60 W	
2093.0	8.00	24.5	343	N 15 W	100	1.5	238	S 58 W	
2095.0	8.00	10.9	20	N 20 E	100	1.5	238	S 58 W	
2097.0	8.00	10.7	25	N 25 E	100	1.5	239	S 58 W	
2099.0	8.00	12.7	14	N 14 E	100	1.5	238	S 58 W	
2101.0	8.00	13.9	9	N 9 E	100	1.5	237	S 57 W	
2103.0	8.00	14.8	6	N 6 E	100	1.5	236	S 56 W	
2105.0	8.00	14.5	0	N 0 E	100	1.5	238	S 58 W	
2107.0	8.00	13.7	7	N 7 E	100	1.5	238	S 58 W	
2109.0	8.00	13.7	3	N 3 E	100	1.5	238	S 58 W	
2111.0	8.00	10.7	24	N 24 E	100	1.5	240	S 60 W	
2115.0	8.00	7.0	18	N 18 E	100	1.5	240	S 60 W	
2117.0	8.00	6.4	19	N 19 E	100	1.5	240	S 60 W	
2119.0	8.00	7.0	15	N 15 E	100	1.5	240	S 60 W	
2121.0	8.00	11.0	356	N 4 W	100	1.6	240	S 60 W	
2125.0	8.00	24.4	315	N 45 W	100	1.5	240	S 60 W	
2131.0	8.00	28.3	298	N 62 W	55	1.5	240	S 60 W	
2133.0	8.00	25.5	285	N 74 W	51	1.4	233	S 53 W	
2139.0	8.00	52.0	176	S 4 E	62	1.6	242	S 62 W	
2151.0	8.00	53.7	140	S 40 E	100	1.7	238	S 58 W	
2155.0	8.00	52.1	130	S 50 E	100	1.7	238	S 58 W	
2153.0	8.10	44.0	67	N 57 E	100	1.8	238	S 58 W	
2159.0	8.00	42.0	22	N 22 E	100	1.7	235	S 55 W	
2171.0	8.10	40.8	23	N 23 E	100	1.7	234	S 54 W	
2173.0	8.00	40.6	25	N 25 E	100	1.8	236	S 56 W	
2175.0	8.10	26.0	23	N 23 E	76	1.8	237	S 57 W	
2179.0	8.00	30.1	44	N 44 E	98	1.7	235	S 55 W	
2131.0	8.00	23.8	32	N 32 E	100	1.8	234	S 54 W	

ORESON NATURAL GAS CORP.

OH 444-3

MIST

COLUMBIA

OREGON

12-12-86

DEPTH	WL	**FORMATION DIP**			GRADE	****BOREHOLE****		
		ANG	AZ	BEARING		DA	DAZ	BEARING
2183.0	8.00	22.6	15	N 15 E	100	1.8	236	S 56 W
2189.0	8.00	37.8	347	N 13 W	79	1.8	236	S 56 W
2193.0	8.00	47.0	14	N 14 E	93	1.9	238	S 58 W
2197.0	8.00	42.6	13	N 13 E	100	1.8	235	S 55 W
2199.0	8.00	44.5	35	N 35 E	87	1.8	235	S 55 W
2201.0	8.00	19.9	356	N 4 W	100	1.8	235	S 55 W
2207.0	8.00	26.5	14	N 14 E	100	1.9	236	S 56 W
2211.0	8.00	39.1	358	N 10 W	64	1.9	237	S 57 W
2213.0	8.00	27.2	332	N 28 W	100	1.9	237	S 57 W
2215.0	8.00	27.9	348	N 20 W	100	1.8	237	S 57 W
2217.0	8.00	36.6	357	N 3 W	100	1.8	235	S 55 W
2221.0	8.00	38.3	333	N 27 W	100	1.8	237	S 57 W
2223.0	8.00	39.4	343	N 17 W	100	1.8	235	S 55 W
2225.0	8.00	36.5	352	N 5 W	100	1.8	234	S 54 W
2227.0	8.00	31.9	10	N 10 E	100	1.8	234	S 54 W
2229.0	8.00	32.6	16	N 15 E	100	1.8	234	S 54 W
2231.0	8.00	30.8	12	N 12 E	75	1.8	233	S 53 W
2233.0	8.00	30.3	338	N 2 W	100	1.9	235	S 55 W
2235.0	8.00	46.6	358	N 2 W	100	1.8	235	S 55 W
2237.0	8.00	47.6	359	N 1 W	100	1.8	234	S 54 W
2239.0	8.00	31.8	343	N 17 W	100	1.9	234	S 54 W
2243.0	8.00	24.9	322	N 38 W	100	1.9	237	S 57 W
2251.0	8.00	15.4	11	N 11 E	100	1.9	232	S 52 W
2253.0	8.00	15.5	9	N 9 E	100	2.0	235	S 55 W
2255.0	8.00	25.3	13	N 13 E	100	2.0	234	S 54 W
2265.0	8.00	19.0	69	N 69 E	74	2.0	235	S 55 W
2273.0	8.00	22.4	55	N 55 E	58	2.0	234	S 54 W
2275.0	8.00	33.1	355	N 5 W	100	2.0	234	S 54 W
2281.0	8.00	28.2	14	N 14 E	100	2.0	236	S 56 W
2283.0	8.00	28.1	24	N 24 E	100	2.0	233	S 53 W
2285.0	8.00	28.1	24	N 24 E	100	2.0	233	S 53 W
2287.0	8.00	26.7	14	N 14 E	100	2.0	233	S 53 W
2289.0	8.00	31.5	329	N 31 W	100	2.0	234	S 54 W
2291.0	8.00	32.9	338	N 30 W	100	2.0	233	S 53 W
2293.0	8.00	32.5	339	N 21 W	100	2.0	231	S 51 W
2297.0	8.00	32.2	325	N 35 W	73	2.0	233	S 53 W
2313.0	8.00	58.3	347	N 13 W	100	2.0	233	S 53 W
2315.0	8.00	43.4	4	N 4 E	100	2.0	232	S 52 W
2317.0	8.00	22.7	11	N 11 E	100	2.0	234	S 54 W
2321.0	8.00	39.7	40	N 40 E	100	2.1	234	S 54 W

OREGON NATURAL GAS CORP.

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2352V

12-12-85

DEPTH	WL	**FORMATION DIP**			GRADE	*****BORHOLE*****		
		ANG	AZ	BEARING		DA	DAZ	BEARING
2323.0	8.00	35.3	41	N 41 E	100	2.1	234	S 54 W
2325.0	8.00	35.3	41	N 41 E	100	2.1	234	S 54 W
2327.0	8.00	36.2	41	N 41 E	100	2.2	235	S 55 W
2329.0	8.00	32.4	33	N 33 E	100	2.1	234	S 54 W
2331.0	8.00	32.6	37	N 37 E	100	2.1	234	S 54 W
2353.0	8.00	40.3	55	N 55 E	100	2.1	232	S 52 W
2355.0	8.00	42.2	60	N 60 E	78	2.1	232	S 52 W
2359.0	8.00	10.7	47	N 47 E	100	2.2	232	S 52 W
2363.0	8.00	37.4	10	N 10 E	100	2.2	234	S 54 W
2365.0	8.00	26.2	342	N 18 W	100	2.2	232	S 52 W
2367.0	8.00	29.5	339	N 21 W	100	2.2	233	S 53 W
2369.0	8.00	36.5	317	N 43 W	100	2.3	232	S 52 W
2373.0	8.00	31.1	347	N 13 W	100	2.2	231	S 51 W
2377.0	8.00	2.9	21	N 21 E	86	2.2	230	S 50 W
2379.0	8.00	36.5	43	N 43 E	85	2.3	231	S 51 W
2381.0	8.00	32.1	30	N 30 E	100	2.2	230	S 50 W
2383.0	8.00	31.0	33	N 33 E	100	2.1	229	S 49 W
2385.0	8.00	20.4	352	N 8 W	100	2.1	228	S 48 W
2387.0	8.00	24.5	341	N 19 W	100	2.1	228	S 48 W
2389.0	8.00	34.3	352	N 8 W	100	2.2	229	S 49 W
2395.0	8.00	34.2	344	N 15 W	100	2.3	231	S 51 W
2403.0	8.00	36.9	343	N 17 W	67	2.2	228	S 48 W
2405.0	8.00	26.3	355	N 5 W	100	2.2	228	S 48 W
2417.0	8.00	42.1	53	N 53 E	94	2.1	223	S 43 W
2425.0	8.00	42.3	40	N 40 E	100	2.2	230	S 50 W
2427.0	8.00	41.7	57	N 57 E	61	2.2	230	S 50 W
2435.0	8.00	37.3	59	N 59 E	74	2.4	230	S 50 W
2437.0	8.00	24.1	12	N 12 E	100	2.3	230	S 50 W
2439.0	8.00	12.8	0	N 0 E	100	2.3	228	S 48 W
2445.0	8.00	30.1	35	N 35 E	73	2.4	230	S 50 W
2449.0	8.00	43.5	42	N 42 E	60	2.3	229	S 49 W
2457.0	8.00	16.0	15	N 15 E	81	2.4	230	S 50 W
2475.0	8.00	36.2	19	N 19 E	39	2.3	230	S 50 W
2477.0	8.00	42.7	2	N 2 E	100	2.4	229	S 49 W
2499.0	8.00	29.5	322	N 38 W	54	2.3	226	S 46 W
2501.0	8.00	29.5	331	N 29 W	100	2.3	225	S 45 W
2505.0	8.00	30.2	346	N 14 W	100	2.3	224	S 44 W
2511.0	8.00	30.9	254	S 84 W	72	2.3	221	S 41 W
2513.0	8.00	35.9	259	S 79 W	100	2.4	222	S 42 W
2515.0	8.00	43.1	246	S 66 W	89	2.3	221	S 41 W

OREGON NATURAL GAS CORP.

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WISY

COLUMBIA

OREGON

12-12-86

DEPTH	WI	**FORMATION DIP**				GRADE	****BOREHOLE****		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
2533.0	8.00	9.5	307	N 53 W	100	2.4	218	S 38 W	
2535.0	8.00	10.8	318	N 42 W	100	2.4	219	S 39 W	
2539.0	8.00	9.1	18	N 18 E	100	2.4	217	S 37 W	
2543.0	8.00	46.5	30	N 30 E	100	2.4	218	S 38 W	
2545.0	8.00	32.6	13	N 13 E	100	2.5	219	S 39 W	
2547.0	8.00	37.3	355	N 4 W	100	2.5	220	S 40 W	
2549.0	8.00	35.7	355	N 5 W	100	2.5	220	S 40 W	
2551.0	8.00	34.3	359	N 1 W	100	2.5	219	S 39 W	
2553.0	8.00	33.9	354	N 5 W	100	2.6	219	S 39 W	
2555.0	8.00	30.4	328	N 32 W	100	2.5	221	S 41 W	
2557.0	8.00	19.1	347	N 13 W	98	2.5	222	S 42 W	
2551.0	8.00	14.7	344	N 16 W	72	2.5	219	S 39 W	
2555.0	8.00	17.2	339	N 21 W	82	2.5	217	S 37 W	
2557.0	8.00	21.8	327	N 33 W	100	2.5	218	S 38 W	
2559.0	8.00	34.3	325	N 34 W	100	2.5	214	S 34 W	
2571.0	8.00	35.2	305	N 55 W	100	2.5	214	S 34 W	
2573.0	8.00	47.1	305	N 54 W	100	2.5	214	S 34 W	
2577.0	8.00	47.3	297	N 63 W	100	2.6	215	S 35 W	
2579.0	8.00	32.7	348	N 12 W	98	2.6	216	S 36 W	
2581.0	8.00	19.7	343	N 17 W	100	2.5	216	S 36 W	
2583.0	8.00	17.8	335	N 25 W	100	2.6	215	S 35 W	
2585.0	8.00	16.7	328	N 32 W	100	2.6	215	S 36 W	
2587.0	8.00	19.3	335	N 25 W	100	2.6	215	S 35 W	
2593.0	8.00	30.7	335	N 24 W	100	2.6	214	S 34 W	
2595.0	8.00	26.2	22	N 22 E	100	2.6	215	S 36 W	
2597.0	8.00	25.8	13	N 19 E	100	2.6	217	S 37 W	
2601.0	8.00	40.9	12	N 12 E	100	2.7	217	S 37 W	
2603.0	8.00	26.6	344	N 15 W	130	2.7	218	S 38 W	
2605.0	8.00	46.4	269	S 89 W	76	2.6	217	S 37 W	
2607.0	8.00	29.5	274	N 85 W	130	2.7	215	S 35 W	
2609.0	8.00	30.0	275	N 85 W	70	2.7	214	S 34 W	
2611.0	8.00	13.5	193	S 15 W	77	2.8	216	S 36 W	
2613.0	8.00	31.1	154	S 25 E	74	2.8	214	S 34 W	
2615.0	8.00	25.0	185	S 75 E	43	2.8	214	S 34 W	
2617.0	8.00	41.2	53	N 53 E	67	2.8	214	S 34 W	
2619.0	8.00	40.0	55	N 55 E	65	2.8	214	S 34 W	
2621.0	8.00	31.2	11	N 11 E	97	2.9	214	S 34 W	
2623.0	8.00	27.2	14	N 14 E	85	2.8	215	S 35 W	
2627.0	8.00	32.9	344	N 15 W	66	2.8	213	S 33 W	
2629.0	8.00	47.2	320	N 40 W	100	2.8	211	S 31 W	

OREGON NATURAL GAS CORP.

OM 440-3

WIST

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OREGON

12-12-86

DEPTH	DI	**FORMATION DIP**				****BORFHOLE****			
		ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
2631.0	8.00	29.1	335	N 24 W	100	2.8	211	S 31 W	
2633.0	8.00	29.2	349	N 11 W	87	2.8	213	S 33 W	
2635.0	8.00	33.9	13	N 13 E	100	2.9	212	S 32 W	
2639.0	8.00	32.3	355	N 4 W	100	2.9	212	S 32 W	
2647.0	8.00	20.4	318	N 42 W	100	2.8	207	S 27 W	
2649.0	8.00	18.0	319	N 41 W	100	2.8	207	S 27 W	
2651.0	8.00	19.5	297	N 63 W	100	2.9	209	S 29 W	
2653.0	8.00	31.6	294	N 65 W	100	3.0	209	S 29 W	
2655.0	8.00	30.4	291	N 69 W	100	3.0	210	S 30 W	
2681.0	8.00	50.3	309	N 51 W	64	3.0	208	S 28 W	
2695.0	8.00	11.6	24	N 24 E	69	3.1	205	S 25 W	
2699.0	8.00	40.3	58	N 58 E	56	3.2	205	S 25 W	
2701.0	8.00	42.3	59	N 59 E	74	3.2	205	S 25 W	
2709.0	8.00	48.9	94	S 97 E	100	3.1	206	S 26 W	
2711.0	8.00	44.2	93	S 87 E	100	3.1	206	S 26 W	
2713.0	8.00	25.6	124	S 56 E	100	3.1	204	S 24 W	
2715.0	8.00	42.5	172	S 4 E	88	3.1	204	S 24 W	
2717.0	8.00	40.7	233	S 53 W	52	3.1	204	S 24 W	
2719.0	8.00	45.9	271	M 89 W	100	3.2	205	S 25 W	
2721.0	8.00	37.8	289	N 71 W	100	3.1	203	S 23 W	
2723.0	8.00	29.1	2	N 2 E	100	3.0	203	S 23 W	
2727.0	8.00	37.5	7	N 7 E	98	3.1	204	S 24 W	
2731.0	8.00	39.2	359	N 1 W	100	3.2	203	S 23 W	
2733.0	8.00	32.9	358	N 2 W	100	3.2	204	S 24 W	
2735.0	8.00	18.4	18	N 18 E	100	3.2	204	S 24 W	
2741.0	8.00	53.7	349	N 11 W	57	3.3	204	S 24 W	
2743.0	8.00	33.3	321	N 39 W	89	3.3	204	S 24 W	
2745.0	8.00	55.0	4	N 4 E	100	3.3	204	S 24 W	
2747.0	8.00	54.1	1	N 1 E	80	3.2	203	S 23 W	
2749.0	8.00	52.3	25	N 25 E	59	3.3	203	S 23 W	
2751.0	8.00	53.8	14	N 14 E	54	3.3	204	S 24 W	
2753.0	8.00	51.6	15	N 15 E	67	3.4	205	S 25 W	
2755.0	8.00	17.9	19	N 19 E	100	3.3	204	S 24 W	
2757.0	8.00	45.9	289	N 71 W	100	3.3	204	S 24 W	
2759.0	8.00	29.0	299	N 61 W	100	3.4	204	S 24 W	
2751.0	8.00	30.0	324	N 35 W	100	3.4	205	S 25 W	
2757.0	8.00	22.5	41	N 41 E	100	3.4	205	S 25 W	
2759.0	8.00	22.1	59	N 59 E	100	3.4	204	S 24 W	
2773.0	8.00	44.8	80	N 80 E	70	3.5	206	S 26 W	
2779.0	8.00	47.5	69	N 69 E	60	3.5	208	S 28 W	

GREGOV NATURAL GAS CORP.

GM 44A-3

WYST

COLUMBIA

OREGON

12-12-86

DEPTH	WL	**FORMATION DIP**			GRADE	***BOREHOLE***		
		ANG	AZ	BEARING		DA	DAZ	BEARING
2785.0	8.00	29.1	29	N 29 E	100	3.6	208	S 28 W
2795.0	8.00	47.1	27	N 27 E	86	3.5	207	S 27 W
2807.0	8.00	12.4	50	N 50 E	100	3.6	208	S 28 W
2809.0	8.00	13.3	68	N 68 E	100	3.6	208	S 28 W
2815.0	8.00	22.8	34	N 34 E	100	3.4	205	S 25 W
2817.0	8.00	17.5	33	N 33 E	100	3.5	205	S 25 W
2821.0	8.00	18.0	58	N 58 E	100	3.5	205	S 25 W
2823.0	8.00	21.9	18	N 18 E	100	3.6	204	S 24 W
2825.0	8.00	25.6	24	N 24 E	100	3.6	206	S 26 W
2827.0	8.00	26.9	25	N 25 E	100	3.5	205	S 25 W
2829.0	8.00	39.9	12	N 12 E	100	3.6	205	S 25 W
2831.0	8.00	35.0	40	N 40 E	100	3.6	206	S 26 W
2833.0	8.00	45.0	333	N 27 W	82	3.6	207	S 27 W
2835.0	8.00	47.2	324	N 35 W	76	3.5	206	S 26 W
2837.0	8.00	10.3	290	N 70 W	91	3.6	207	S 27 W
2839.0	8.00	21.3	316	N 44 W	85	3.6	207	S 27 W
2841.0	8.00	8.5	240	S 60 W	98	3.6	206	S 26 W
2843.0	8.00	8.2	229	S 49 W	100	3.6	207	S 27 W
2845.0	8.00	0.5	267	S 87 W	100	3.6	207	S 27 W
2849.0	8.00	19.3	328	N 32 W	100	3.6	207	S 27 W
2851.0	8.00	36.2	335	N 25 W	100	3.6	206	S 26 W
2853.0	8.00	23.2	0	N 0 E	100	3.7	206	S 26 W
2855.0	8.00	27.0	320	N 40 W	94	3.7	206	S 26 W
2871.0	8.00	29.8	303	N 57 W	61	3.8	206	S 26 W
2873.0	8.00	42.2	352	N 8 W	87	3.7	205	S 25 W
2885.0	8.00	27.7	343	N 17 W	100	3.8	206	S 26 W
2889.0	8.00	22.1	342	N 18 W	100	3.8	206	S 26 W
2903.0	8.00	14.3	350	N 10 W	100	3.7	204	S 24 W
2907.0	8.00	26.0	334	N 26 W	100	3.8	204	S 24 W
2909.0	8.00	15.8	331	N 29 W	100	3.8	205	S 25 W
2911.0	8.00	34.1	355	N 5 W	100	3.8	203	S 23 W
2913.0	8.00	26.6	10	N 10 E	100	3.8	204	S 24 W
2915.0	8.00	26.7	17	N 17 E	100	3.7	203	S 23 W
2919.0	8.00	24.1	40	N 40 E	100	3.8	201	S 21 W
2927.0	8.00	10.1	31	N 31 E	68	3.8	201	S 21 W
2929.0	8.00	13.3	50	N 50 E	100	3.8	201	S 21 W
2931.0	8.00	11.5	81	N 81 E	100	3.8	200	S 20 W
2933.0	8.00	9.9	76	N 76 E	100	3.8	200	S 20 W
2935.0	8.00	7.7	51	N 51 E	100	3.8	201	S 21 W
2937.0	8.00	8.0	41	N 41 E	100	3.8	202	S 22 W

OREGON NATURAL GAS CORP.

OM 444-3

WIST

CO JM31A

OREGON

12-12-86

DEPTH	DI	**FORMATION DIP**				****BORFHOLE****			
		AVG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
2941.0	8.00	11.4	79	N 79 E	59	3.8	202	S 22 W	
2943.0	8.00	16.4	96	S 84 E	76	3.8	203	S 23 W	
2945.0	8.00	16.5	98	N 90 E	81	3.8	203	S 23 W	
2947.0	8.00	20.9	81	N 81 E	100	3.8	202	S 22 W	
2949.0	8.00	25.3	85	N 85 E	100	3.8	201	S 21 W	
2951.0	8.00	25.1	95	S 87 E	100	3.8	202	S 22 W	
2953.0	8.00	15.3	54	N 54 E	100	3.8	202	S 22 W	
2955.0	8.00	13.3	34	N 34 E	100	3.8	201	S 21 W	
2951.0	8.00	43.5	11	N 11 E	80	3.9	201	S 21 W	
2953.0	8.00	42.8	4	N 4 E	100	4.0	201	S 21 W	
2955.0	8.00	14.3	25	N 25 E	61	3.9	201	S 21 W	
2959.0	8.00	43.8	0	N 0 E	56	4.0	202	S 22 W	
2975.0	8.00	21.8	345	N 14 W	97	3.9	203	S 23 W	
2979.0	8.00	11.5	347	N 13 W	100	4.1	203	S 23 W	
2983.0	8.00	12.1	7	N 7 E	100	4.0	204	S 24 W	
2985.0	8.00	12.5	59	N 59 E	100	4.0	203	S 23 W	
2987.0	8.00	41.2	44	N 44 E	100	4.1	204	S 24 W	
2989.0	8.00	18.9	25	N 25 E	100	4.1	203	S 23 W	
2991.0	8.00	14.7	61	N 61 E	100	4.1	204	S 24 W	
2993.0	8.00	13.9	52	N 52 E	100	4.1	205	S 25 W	
2997.0	8.00	24.8	68	N 68 E	100	4.1	204	S 24 W	
2999.0	8.00	32.0	34	N 34 E	100	4.1	204	S 24 W	
3003.0	8.00	13.5	29	N 29 E	100	4.1	204	S 24 W	
3005.0	8.00	25.8	28	N 28 E	100	4.1	204	S 24 W	
3007.0	8.00	27.3	9	N 9 E	65	4.1	205	S 25 W	
3009.0	8.00	19.2	39	N 39 E	88	4.1	204	S 24 W	
3015.0	8.00	34.2	103	S 77 E	100	4.2	205	S 25 W	
3017.0	8.00	41.9	104	S 75 E	95	4.2	205	S 25 W	
3021.0	8.00	8.6	63	N 63 E	100	4.2	205	S 25 W	
3027.0	8.00	7.4	57	N 57 E	100	4.1	205	S 25 W	
3029.0	8.00	8.7	52	N 52 E	100	4.2	204	S 24 W	
3031.0	8.00	10.4	63	N 63 E	100	4.1	205	S 25 W	
3033.0	8.00	10.8	67	N 67 E	100	4.1	205	S 25 W	
3045.0	8.00	6.1	59	N 59 E	100	4.2	206	S 26 W	
3047.0	8.00	7.2	16	N 15 E	100	4.2	205	S 25 W	
3049.0	8.00	9.6	352	N 8 W	96	4.3	206	S 26 W	
3051.0	8.00	4.0	354	N 5 W	100	4.3	205	S 25 W	
3053.0	8.00	28.5	324	N 35 W	86	4.3	205	S 25 W	
3057.0	8.00	36.6	328	N 32 W	86	4.3	205	S 25 W	
3059.0	8.00	36.3	328	N 32 W	100	4.3	205	S 25 W	

OREGON NATURAL GAS CORP.

OM 444-3

MIST

CD J431A

OREGON

12-12-86

DEPTH	NL	**FORMATION DIP**			GRADE	****BORHOLE****		
		ANG	AZ	BEARING		DA	DAZ	BEARING
3071.0	8.00	35.9	338	N 27 W	100	4.2	204	S 24 W
3073.0	8.00	35.0	336	N 24 W	100	4.3	204	S 24 W
3075.0	8.00	37.9	345	N 15 W	100	4.2	205	S 25 W
3081.0	8.00	29.5	323	N 37 W	77	4.2	204	S 24 W
3085.0	8.00	25.9	324	N 35 W	100	4.2	204	S 24 W
3087.0	8.00	27.2	326	N 34 W	98	4.2	204	S 24 W
3089.0	8.00	31.3	334	N 25 W	100	4.2	204	S 24 W
3091.0	8.00	29.4	329	N 31 W	100	4.2	204	S 24 W
3093.0	8.00	31.7	333	N 25 W	100	4.2	204	S 24 W
3095.0	8.00	26.3	0	N 0 E	100	4.2	203	S 23 W
3097.0	8.00	32.0	18	N 18 E	100	4.2	203	S 23 W
3099.0	8.00	34.6	21	N 21 E	92	4.2	203	S 23 W
3121.0	8.00	21.6	340	N 20 W	100	4.3	204	S 24 W
3123.0	8.00	19.5	342	N 18 W	100	4.3	203	S 23 W
3125.0	8.00	15.7	3	N 3 E	100	4.3	203	S 23 W
3127.0	8.00	13.9	354	N 6 W	100	4.4	203	S 23 W
3129.0	8.00	15.5	1	N 1 E	100	4.4	203	S 23 W
3131.0	8.00	18.2	335	N 25 W	100	4.3	203	S 23 W
3133.0	8.00	17.7	338	N 22 W	100	4.3	204	S 24 W
3135.0	8.00	53.7	176	S 4 E	100	4.4	203	S 23 W
3137.0	8.00	43.2	142	S 38 E	35	4.4	203	S 23 W
3139.0	8.00	42.7	128	S 52 E	100	4.4	202	S 22 W
3141.0	8.00	33.2	184	S 75 E	90	4.3	203	S 23 W
3147.0	8.00	31.9	63	N 65 E	100	4.3	201	S 21 W
3153.0	8.00	28.1	98	S 82 E	100	4.3	203	S 23 W
3157.0	8.00	15.9	89	N 89 E	100	4.4	203	S 23 W
3159.0	8.00	17.9	86	N 85 E	100	4.3	203	S 23 W
3151.0	8.00	22.7	101	S 79 E	100	4.3	203	S 23 W
3153.0	8.00	34.0	104	S 75 E	72	4.4	203	S 23 W
3159.0	8.00	28.9	31	N 31 E	100	4.4	204	S 24 W
3171.0	8.00	16.1	22	N 22 E	100	4.4	203	S 23 W
3173.0	8.00	34.2	0	N 0 E	83	4.4	203	S 23 W
3175.0	8.00	34.7	9	N 9 E	71	4.4	204	S 24 W
3177.0	8.00	24.9	357	N 3 W	90	4.4	204	S 24 W
3179.0	8.00	25.2	14	N 14 E	92	4.3	203	S 23 W
3191.0	8.00	23.0	24	N 24 E	100	4.4	203	S 23 W
3183.0	8.00	16.2	22	N 22 E	100	4.4	203	S 23 W
3185.0	8.00	17.3	6	N 5 E	100	4.4	203	S 23 W
3187.0	8.00	19.5	356	N 4 W	100	4.4	203	S 23 W
3189.0	8.00	19.3	3	N 3 E	100	4.3	202	S 22 W

OREGON NATURAL GAS CORP.

OM 44A-3

MIST

COLUMBIA

OREGON

12-12-86

DEPTH	WI	**FORMATION DIP**				GRADE	****BOREHOLE****		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
3191.0	8.00	23.6	2	N 2 E	100	4.3	200	S 20 W	
3193.0	8.00	20.6	359	N 1 W	100	4.3	200	S 20 W	
3197.0	8.00	25.9	318	N 42 W	60	4.3	201	S 21 W	
3199.0	8.00	37.6	328	N 32 W	100	4.3	200	S 20 W	
3203.0	8.00	30.1	353	N 7 W	100	4.4	200	S 20 W	
3205.0	8.00	46.7	7	N 7 E	100	4.4	199	S 19 W	
3207.0	8.00	31.5	352	N 8 W	88	4.4	198	S 18 W	
3209.0	8.00	32.1	359	N 1 W	100	4.4	197	S 17 W	
3211.0	8.00	38.6	345	N 15 W	100	4.4	198	S 18 W	
3213.0	8.00	41.5	357	N 3 W	100	4.4	197	S 17 W	
3215.0	8.00	37.7	17	N 17 E	100	4.5	197	S 17 W	
3217.0	8.00	39.6	19	N 19 E	100	4.5	196	S 16 W	
3219.0	8.00	34.5	21	N 21 E	83	4.6	197	S 17 W	
3221.0	8.00	17.6	72	N 72 E	97	4.6	196	S 16 W	
3223.0	8.00	36.6	80	N 80 E	95	4.7	196	S 16 W	
3225.0	8.00	45.6	73	N 73 E	100	4.6	195	S 15 W	
3229.0	8.00	48.5	97	S 83 E	100	4.6	196	S 16 W	
3235.0	8.00	29.6	357	N 3 W	75	4.7	195	S 15 W	
3237.0	8.00	29.9	355	N 5 W	64	4.8	196	S 16 W	
3239.0	8.00	25.5	30	N 30 E	100	4.8	196	S 16 W	
3241.0	8.00	34.2	33	N 33 E	100	4.8	195	S 15 W	
3243.0	8.00	26.4	23	N 23 E	100	4.8	195	S 15 W	
3245.0	8.00	24.8	312	N 48 W	83	4.8	193	S 13 W	
3247.0	8.00	27.2	334	N 26 W	77	4.9	194	S 14 W	
3249.0	8.00	32.4	334	N 26 W	100	4.8	194	S 14 W	
3251.0	8.00	28.6	344	N 16 W	100	4.8	194	S 14 W	
3253.0	8.00	29.7	335	N 25 W	100	4.8	195	S 15 W	
3255.0	8.00	29.4	357	N 3 W	100	4.7	194	S 14 W	
3257.0	8.00	31.8	13	N 13 E	100	4.8	194	S 14 W	
3259.0	8.00	28.0	31	N 31 E	77	4.7	194	S 14 W	
3251.0	8.00	35.9	359	N 1 W	100	4.7	195	S 15 W	
3253.0	8.00	37.5	359	N 1 W	100	4.7	194	S 14 W	
3255.0	8.00	36.1	354	N 5 W	100	4.9	194	S 14 W	
3257.0	8.00	33.6	355	N 5 W	100	4.9	194	S 14 W	
3259.0	8.00	31.0	353	N 7 W	100	4.9	194	S 14 W	
3271.0	8.00	31.6	351	N 9 W	100	4.8	193	S 13 W	
3273.0	8.00	30.0	357	N 3 W	88	4.8	193	S 13 W	
3275.0	8.00	38.1	2	N 2 E	70	4.8	192	S 12 W	
3287.0	8.00	43.7	316	N 44 W	96	4.8	193	S 13 W	
3299.0	8.00	37.7	310	N 50 W	100	4.7	192	S 12 W	

OREGON NATURAL GAS CORP.

OM 44A-3

MIST

COLUMBIA

OREGON

12-12-86

DEPTH	WL	**FORMATION DIP**			GRADE	****BOREHOLE****		
		ANG	AZ	BEARING		DA	DAZ	BEARING
3301.0	8.00	39.4	292	N 69 W	100	4.8	194	S 14 W
3303.0	8.00	35.6	343	N 17 W	100	4.8	194	S 14 W
3305.0	8.00	29.2	338	N 22 W	100	4.8	193	S 13 W
3307.0	8.00	36.3	337	N 23 W	92	4.9	193	S 13 W
3309.0	8.00	33.1	331	N 29 W	100	4.9	193	S 13 W
3311.0	8.00	33.1	7	N 7 E	100	4.9	193	S 13 W
3313.0	8.00	30.5	346	N 14 W	100	4.9	192	S 12 W
3315.0	8.00	33.6	353	N 7 W	100	4.9	192	S 12 W
3317.0	8.00	36.7	353	N 7 W	100	4.8	192	S 12 W
3319.0	8.00	36.3	337	N 23 W	91	4.9	192	S 12 W
3321.0	8.00	51.0	355	N 5 W	100	4.9	192	S 12 W
3323.0	8.00	32.4	315	N 45 W	100	4.9	191	S 11 W
3325.0	8.00	35.2	326	N 34 W	100	5.0	192	S 12 W
3333.0	8.00	37.5	356	N 4 W	100	4.9	192	S 12 W
3335.0	8.00	38.5	355	N 5 W	100	4.9	191	S 11 W
3337.0	8.00	37.2	4	N 4 E	100	4.9	191	S 11 W
3339.0	8.00	40.9	353	N 7 W	100	4.8	191	S 11 W
3341.0	8.00	33.6	354	N 6 W	93	4.9	192	S 12 W
3343.0	8.00	42.3	359	N 1 W	100	4.9	192	S 12 W
3345.0	8.00	37.6	355	N 5 W	100	4.9	191	S 11 W
3347.0	8.00	41.9	3	N 3 E	100	4.9	191	S 11 W
3349.0	8.00	53.3	357	N 3 W	100	4.9	192	S 12 W
3353.0	8.00	47.7	349	N 11 W	70	4.8	193	S 13 W
3357.0	8.00	40.1	358	N 2 W	100	4.7	193	S 13 W
3359.0	8.00	39.5	349	N 11 W	100	4.7	194	S 14 W
3361.0	8.00	35.5	325	N 35 W	84	4.7	196	S 16 W
3363.0	8.00	34.8	297	N 63 W	95	4.7	196	S 16 W
3365.0	8.00	51.0	272	N 88 W	100	4.7	196	S 16 W
3367.0	8.00	43.5	359	N 1 W	100	4.9	196	S 16 W
3373.0	8.00	34.7	350	N 10 W	100	4.9	195	S 15 W
3375.0	8.00	31.3	353	N 7 W	100	4.9	194	S 14 W
3377.0	8.00	35.5	342	N 18 W	100	4.9	196	S 16 W
3379.0	8.00	34.3	349	N 11 W	76	4.8	195	S 15 W
3381.0	8.00	43.1	357	N 3 W	100	4.9	195	S 15 W
3383.0	8.00	34.3	357	N 3 W	65	4.8	195	S 15 W
3387.0	8.00	35.2	28	N 28 E	100	4.9	195	S 15 W
3391.0	8.00	30.4	19	N 19 E	91	5.0	193	S 13 W
3397.0	8.00	25.8	8	N 8 E	66	4.9	194	S 14 W
3399.0	8.00	29.2	5	N 5 E	77	4.9	193	S 13 W
3401.0	8.00	30.7	350	N 10 W	100	4.9	193	S 13 W

OREGON NATURAL GAS CORP.

OM 44A-3

WIST

COLUMBIA

OREGON

12-12-86

DEPTH	WL	**FORMATION DIP**				GRADE	*****BOREHOLE*****		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
3403.0	8.00	31.3	356	N 4 W	100	4.9	193	S 13 W	
3407.0	8.00	26.2	244	S 64 W	47	4.9	193	S 13 W	
3409.0	8.00	25.5	237	S 57 W	93	4.9	192	S 12 W	
3411.0	8.00	44.5	242	S 62 W	59	4.9	194	S 14 W	
3419.0	8.00	35.7	204	S 24 W	93	5.0	195	S 15 W	
3421.0	8.00	23.1	205	S 25 W	94	5.0	195	S 15 W	
3423.0	8.00	18.1	243	S 63 W	74	5.0	195	S 15 W	
3431.0	8.00	34.9	277	N 83 W	82	5.0	193	S 13 W	
3433.0	8.00	33.7	345	N 14 W	100	4.9	192	S 12 W	
3435.0	8.00	45.7	339	N 21 W	100	4.9	191	S 11 W	
3437.0	8.00	36.2	3	N 3 E	86	4.8	192	S 12 W	
3439.0	8.00	25.5	27	N 27 E	100	4.9	193	S 13 W	
3441.0	8.00	36.2	353	N 7 W	100	4.9	192	S 12 W	
3443.0	8.00	39.8	2	N 2 E	100	4.9	191	S 11 W	
3451.0	8.00	52.2	1	N 1 E	83	5.0	191	S 11 W	
3453.0	8.00	37.3	7	N 7 E	85	5.0	191	S 11 W	
3455.0	8.00	44.7	357	N 3 W	100	5.0	191	S 11 W	
3457.0	8.00	40.1	350	N 10 W	100	5.1	191	S 11 W	
3459.0	8.00	38.7	353	N 7 W	100	5.0	191	S 11 W	
3451.0	8.00	35.6	5	N 5 E	100	5.0	190	S 10 W	
3453.0	8.00	34.1	5	N 5 E	100	5.1	190	S 10 W	
3455.0	8.00	35.0	353	N 7 W	100	5.1	189	S 9 W	
3457.0	8.00	51.2	351	N 9 W	98	5.2	190	S 10 W	
3459.0	8.00	40.9	351	N 9 W	88	5.2	190	S 10 W	
3471.0	8.00	40.5	345	N 15 W	91	5.2	190	S 10 W	
3473.0	8.00	41.1	19	N 19 E	32	5.2	190	S 10 W	
3477.0	8.00	37.7	351	N 9 W	100	5.2	189	S 9 W	
3481.0	8.00	37.2	336	N 24 W	77	5.3	189	S 9 W	
3487.0	8.00	44.3	355	N 5 W	100	5.2	188	S 8 W	
3489.0	8.00	44.7	350	N 10 W	100	5.3	188	S 8 W	
3491.0	8.00	33.3	355	N 5 W	100	5.3	188	S 8 W	
3493.0	8.00	46.1	0	N 0 E	100	5.3	188	S 8 W	
3495.0	8.00	46.4	355	N 5 W	100	5.3	188	S 8 W	
3497.0	8.00	47.3	351	N 9 W	100	5.3	188	S 8 W	
3499.0	8.00	42.9	346	N 14 W	100	5.4	188	S 8 W	
3501.0	8.00	48.4	356	N 4 W	100	5.5	187	S 7 W	
3505.0	8.00	53.0	347	N 13 W	73	5.5	188	S 8 W	
3507.0	8.00	39.3	35	N 35 E	100	5.4	187	S 7 W	
3511.0	8.00	37.8	45	N 45 E	100	5.5	187	S 7 W	
3513.0	8.00	37.2	49	N 49 E	100	5.6	187	S 7 W	

OREGON NATURAL GAS CORP.

OM 44A-3

MIST

CO. U431A

OREGON

12-12-86

DEPTH	WL	**FORMATION DIP**				****BOREHOLE****			
		ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
3515.0	8.00	39.7	41	N 41 E	100	5.6	187	S 7 W	
3521.0	8.00	33.3	21	N 21 E	73	5.7	187	S 7 W	
3523.0	8.00	49.6	343	N 17 W	63	5.7	186	S 6 W	
3525.0	8.00	42.7	359	N 1 W	70	5.7	185	S 5 W	
3527.0	8.00	38.2	32	N 32 E	89	5.7	186	S 6 W	
3531.0	8.00	15.4	57	N 57 E	100	5.7	186	S 6 W	
3533.0	8.00	12.3	65	N 65 E	94	5.7	185	S 5 W	
3535.0	8.00	35.1	326	N 34 W	100	5.7	185	S 5 W	
3537.0	8.00	37.3	328	N 32 W	77	5.7	185	S 5 W	
3539.0	8.00	38.0	335	N 25 W	91	5.6	184	S 4 W	
3541.0	8.00	36.9	348	N 12 W	76	5.6	184	S 4 W	
3543.0	8.00	43.8	344	N 16 W	100	5.6	183	S 3 W	
3545.0	8.00	38.7	346	N 14 W	100	5.7	183	S 3 W	
3551.0	8.00	33.2	17	N 17 E	80	5.7	183	S 3 W	
3553.0	8.00	31.3	21	N 21 E	72	5.7	182	S 2 W	
3555.0	8.00	28.1	16	N 16 E	95	5.7	182	S 2 W	
3557.0	8.00	31.8	0	N 0 E	96	5.8	182	S 2 W	
3559.0	8.00	31.5	350	N 10 W	74	5.8	183	S 3 W	
3551.0	8.00	34.4	350	N 10 W	100	5.8	182	S 2 W	
3553.0	8.00	33.9	345	N 15 W	100	5.8	181	S 1 W	
3555.0	8.00	35.6	343	N 17 W	100	5.8	180	S 0 E	
3557.0	8.00	38.1	340	N 20 W	100	5.8	181	S 1 W	
3559.0	8.00	41.4	341	N 19 W	100	5.7	182	S 2 W	
3571.0	8.00	42.0	348	N 12 W	100	5.7	181	S 1 W	
3577.0	8.00	32.7	344	N 16 W	92	5.7	182	S 2 W	
3579.0	8.00	44.2	346	N 14 W	100	5.8	182	S 2 W	
3581.0	8.00	42.0	345	N 15 W	100	5.9	182	S 2 W	
3583.0	8.00	56.9	56	N 56 E	95	5.9	182	S 2 W	
3585.0	8.00	44.4	47	N 47 E	100	5.8	182	S 2 W	
3587.0	8.00	49.7	64	N 64 E	95	5.9	181	S 1 W	
3605.0	8.00	37.1	67	N 67 E	100	5.9	179	S 1 E	
3607.0	8.00	37.0	64	N 64 E	100	5.9	179	S 1 E	
3611.0	8.00	35.3	150	S 30 E	69	5.8	180	S 0 E	
3613.0	8.00	46.2	174	S 6 E	77	5.8	180	S 0 E	
3615.0	8.00	46.1	170	S 10 E	91	5.9	180	S 0 E	
3627.0	8.00	47.1	173	S 7 E	100	6.0	180	S 0 E	
3641.0	8.00	23.3	203	S 23 W	100	6.0	180	S 0 E	