

ORLECON NATURAL GAS CORP.

IN 330-5

FYST

COLUMBIA

ORLECON

06-02-80

INTERVAL 571.0 TO 2700.0  
 RUN 1 RLAC 12633.  
 LOGLINE# 1. SELLER MP. THOMAS MAL DEC 21.

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 \* LAC12633 SEARCH LENGTH=16" \*  
 \* WINDOW LENGTH=8" STEP LENGTH=3" \*  
 \* 4 0 0 0 0 \*  
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DEPTH	WL	**FOUNDATION DIP**			***BEDROCK DIP***		
		ANG	AZ BEARING	GRADE	DA	DAZ BEARING	
575.0	2.00	32.0	47 N 47 E	100	0.4	279	N 31 E
585.0	3.00	5.2	51 N 51 E	100	0.4	274	N 80 W
587.0	3.00	0.2	83 S 87 E	100	0.4	274	N 32 E
589.0	3.00	2.4	67 N 67 E	100	0.3	277	N 83 W
595.0	3.00	14.1	68 N 68 E	75	0.3	276	N 54 E
599.0	3.00	3.3	96 S 84 E	100	0.0	277	N 83 W
613.0	3.00	4.5	97 S 83 E	100	0.1	279	N 31 E
615.0	3.00	7.0	81 N 81 E	100	0.1	280	N 80 W
617.0	3.00	5.7	66 N 66 E	100	0.1	264	S 30 W
627.0	3.00	7.1	85 N 85 E	100	0.3	265	S 88 W
629.0	3.00	4.2	40 N 40 E	100	0.3	264	S 84 W
631.0	3.00	3.9	61 N 61 E	100	0.3	266	S 85 W
633.0	3.00	3.2	49 N 49 E	100	0.3	265	S 86 W
635.0	3.00	2.6	35 N 35 E	100	0.3	266	S 80 W
637.0	3.00	2.3	36 N 36 E	100	0.2	267	S 87 W
643.0	3.00	2.5	59 S 81 E	100	0.3	305	N 59 W
645.0	3.00	3.1	97 S 83 E	100	0.3	330	N 30 W
647.0	3.00	3.9	89 N 89 E	100	0.3	355	N 5 W
649.0	3.00	3.6	73 N 73 E	100	0.3	354	N 1 W
651.0	3.00	4.4	87 N 87 E	100	0.3	3	N 3 W
653.0	3.00	3.9	69 N 69 E	100	0.4	1	N 1 E
655.0	3.00	3.2	79 N 79 E	100	0.5	2	N 2 E
657.0	3.00	3.5	80 N 80 E	100	0.5	5	N 3 E
659.0	3.00	3.5	86 N 86 E	100	0.6	12	N 12 E
661.0	3.00	2.7	59 N 59 E	100	0.7	16	N 16 E
663.0	3.00	2.8	52 N 52 E	100	0.8	18	N 18 E
665.0	3.00	3.3	61 N 61 E	100	0.9	11	N 11 E
667.0	3.00	3.3	77 N 77 E	100	1.0	9	N 9 E
679.0	3.00	5.4	67 N 67 E	100	1.4	5	N 5 E

OREGON NATURAL GAS CORP.

TA 330-3

WIST

COLUMBIA

OREGON

06-02-88

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE****			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
681.0	8.00	3.9	59	N 59 E	100	1.5	7	N 7 E		
683.0	8.00	3.8	59	N 59 E	100	1.6	9	N 9 E		
689.0	8.00	13.8	77	N 77 E	76	1.9	6	N 6 E		
691.0	8.00	13.0	81	N 81 E	69	2.0	6	N 6 E		
697.0	8.00	11.6	157	S 23 E	100	1.5	1	N 1 E		
699.0	8.00	11.5	159	S 21 E	100	2.0	0	N 0 E		
701.0	8.00	19.2	199	S 19 W	91	2.0	358	N 35 W		
711.0	8.00	10.4	218	S 38 W	100	2.5	354	N 35 W		
713.0	8.00	11.0	218	S 38 W	100	2.5	355	N 35 W		
717.0	8.00	11.6	222	S 42 W	100	2.5	354	N 35 W		
719.0	8.00	10.0	283	N 77 W	100	2.6	353	N 35 W		
725.0	8.00	25.0	31	N 31 E	100	2.9	351	N 35 W		
727.0	8.00	20.3	20	N 20 E	100	3.0	351	N 35 W		
729.0	8.00	23.9	27	N 27 E	100	3.0	351	N 35 W		
731.0	8.00	19.3	26	N 26 E	100	3.1	349	N 35 W		
741.0	8.00	3.1	7	N 7 E	100	3.4	345	N 35 W		
743.0	8.00	6.1	11	N 11 E	100	3.5	343	N 35 W		
747.0	8.00	11.9	106	S 74 E	76	3.7	345	N 35 W		
749.0	8.00	11.8	121	S 59 E	100	3.8	346	N 35 W		
751.0	8.00	8.3	108	S 72 E	85	3.9	346	N 35 W		
757.0	8.00	7.0	54	S 86 E	100	4.2	343	N 35 W		
759.0	8.00	2.2	79	N 79 E	100	4.2	344	N 35 W		
761.0	8.00	8.4	109	S 73 E	100	4.2	345	N 35 W		
763.0	8.00	9.8	105	S 75 E	100	4.3	345	N 35 W		
765.0	8.00	7.4	111	S 69 E	100	4.4	345	N 35 W		
767.0	8.00	7.9	112	S 68 E	100	4.5	345	N 35 W		
769.0	8.00	5.2	106	S 74 E	79	4.7	345	N 35 W		
771.0	8.00	4.5	156	S 24 E	100	4.9	347	N 35 W		
779.0	8.00	10.9	202	S 22 W	100	5.2	345	N 35 W		
781.0	8.00	13.3	199	S 19 W	100	5.3	344	N 35 W		
783.0	8.00	8.3	108	S 72 E	100	5.3	345	N 35 W		
785.0	8.00	6.9	160	S 20 E	100	5.4	345	N 35 W		
789.0	8.00	10.8	328	N 32 W	52	5.7	344	N 35 W		
791.0	8.00	15.9	317	N 43 W	100	5.8	343	N 35 W		
793.0	8.00	24.1	285	N 75 W	100	5.9	342	N 35 W		
795.0	8.00	21.6	291	N 69 W	100	6.0	341	N 35 W		
797.0	8.00	28.8	282	S 82 W	100	6.0	341	N 35 W		
799.0	8.00	3.0	190	S 10 W	100	6.2	340	N 35 W		
801.0	8.00	5.3	158	S 18 W	100	6.3	339	N 35 W		
803.0	8.00	6.5	206	S 26 W	100	6.3	339	N 35 W		

CHIEF OF NATURAL GAS CORP.

IN 33D-3

W131

COLUMBIA

OREGON

06-02-88

DEPTH	NL	**FORMATION DIP**			GRADE	***FOURHOLE***		
		ANG	AZ	BEARING		DA	DAZ	BEARING
805.0	8.00	5.6	221	S 41 W	100	6.4	339	N 23 E
807.0	8.00	5.7	226	S 46 W	100	6.5	340	N 20 E
809.0	8.00	6.3	228	S 45 W	100	6.5	338	N 21 E
811.0	8.00	7.1	222	S 42 W	100	6.6	337	N 23 W
813.0	8.00	6.5	230	S 40 W	100	6.7	336	N 24 E
815.0	8.00	6.9	215	S 35 W	100	6.8	335	N 25 E
817.0	8.00	6.5	220	S 40 W	100	6.9	335	N 25 E
819.0	8.00	6.4	222	S 42 W	100	7.0	335	N 25 W
821.0	8.00	6.6	223	S 43 W	100	7.1	335	N 25 E
823.0	8.00	7.4	221	S 41 W	100	7.1	335	N 25 E
825.0	8.00	7.7	221	S 40 E	100	7.2	334	E 26 E
827.0	8.00	7.4	222	S 42 W	100	7.3	334	N 26 W
829.0	8.00	7.4	218	S 38 E	100	7.3	333	N 27 E
831.0	8.00	7.5	217	S 37 W	100	7.5	333	N 27 E
833.0	8.00	7.4	216	S 36 E	100	7.6	333	E 27 E
835.0	8.00	7.7	214	S 34 W	100	7.7	332	N 24 W
837.0	8.00	8.4	217	S 37 E	100	7.7	332	E 28 E
839.0	8.00	9.9	211	S 31 W	100	7.8	332	N 25 W
841.0	8.00	8.7	213	S 33 W	100	7.9	332	N 25 E
843.0	8.00	7.9	215	S 39 W	100	8.0	332	E 23 W
845.0	8.00	7.3	218	S 34 E	100	8.0	332	N 24 E
847.0	8.00	7.2	220	S 40 W	100	8.1	332	N 23 E
849.0	8.00	6.7	225	S 45 E	100	8.2	331	N 25 E
851.0	8.00	8.1	227	S 47 W	100	8.2	331	N 25 E
853.0	8.00	7.5	216	S 36 E	100	8.3	331	E 26 W
855.0	8.00	6.7	216	S 36 W	100	8.4	331	N 25 E
857.0	8.00	7.4	217	S 37 W	100	8.5	330	E 30 E
859.0	8.00	6.3	216	S 36 W	100	8.6	330	N 26 E
861.0	8.00	6.6	217	S 37 E	100	8.6	330	N 26 E
863.0	8.00	7.0	232	S 52 E	100	8.7	330	N 30 E
865.0	8.00	7.2	229	S 49 W	100	8.8	329	N 31 E
867.0	8.00	8.1	231	S 51 W	100	8.9	329	N 31 W
869.0	8.00	7.8	234	S 54 E	100	8.9	329	N 31 E
871.0	8.00	6.4	227	S 47 W	100	9.0	328	E 32 E
873.0	8.00	6.4	229	S 49 W	100	8.9	328	E 32 E
875.0	8.00	6.2	225	S 45 W	100	8.9	328	N 32 E
877.0	8.00	6.1	216	S 36 E	100	9.1	328	N 32 E
879.0	8.00	6.4	211	S 31 E	100	9.1	327	N 33 E
881.0	8.00	7.5	225	S 45 E	100	8.9	327	N 33 E
882.0	8.00	6.3	232	S 52 W	100	8.9	327	N 32 E

LEGION NATURAL GAS CORP.

W 33D-3

PICT

COLUMBIA

OREGON

06-02-FR

\*\*FORMATION DIP\*\*

\*\*\*CORRECTION\*\*\*

DEPTH RL ANG AZ BEARING GRADE DA DAZ BEARING

885.0	8.00	4.2	222	S 42 W	100	8.9	327	N 52 W
887.0	8.00	6.4	235	S 55 W	100	8.9	327	N 53 W
889.0	7.00	5.6	234	S 54 W	100	5.0	327	N 53 W
891.0	8.00	6.2	347	N 13 W	100	8.8	327	N 33 W
893.0	8.00	7.5	3	N 3 E	100	8.8	327	N 33 W
895.0	8.00	4.0	39	N 39 E	100	8.8	327	N 33 W
897.0	8.00	3.5	13	N 13 E	100	8.8	327	N 33 W
899.0	8.00	2.7	28	N 28 E	100	8.9	326	N 34 W
901.0	8.00	2.2	38	N 38 E	100	8.9	326	N 34 W
903.0	8.00	4.2	347	N 13 W	100	8.8	327	N 33 W
909.0	8.00	10.0	351	N 9 W	100	8.8	327	N 33 W
911.0	8.00	12.9	350	N 10 W	100	8.8	327	N 33 W
913.0	8.00	2.4	326	N 34 W	100	8.9	327	N 33 W
915.0	8.00	1.6	327	N 33 W	100	8.9	327	N 33 W
917.0	8.00	1.1	349	N 11 W	100	8.5	327	N 33 W
919.0	8.00	0.5	335	N 21 W	100	8.7	327	N 33 W
923.0	8.00	0.9	8	N 8 E	100	8.8	327	N 33 W
927.0	8.00	1.3	4	N 4 E	100	8.7	326	N 34 W
929.0	8.00	1.5	0	W 0 L	100	8.7	326	N 34 W
931.0	8.00	1.7	354	N 6 W	100	8.7	326	N 34 W
933.0	8.00	1.6	359	N 1 W	100	8.8	326	N 34 W
935.0	8.00	2.5	25	N 25 E	100	8.8	327	N 33 W
937.0	8.00	2.7	25	N 25 E	100	8.8	326	N 34 W
939.0	8.00	2.1	31	N 31 E	100	8.8	327	N 33 W
943.0	8.00	2.3	24	N 24 E	100	8.6	327	N 33 W
945.0	8.00	3.2	34	N 34 E	100	8.6	326	N 34 W
947.0	8.00	3.1	45	N 45 E	100	8.5	326	N 34 W
949.0	8.00	3.1	41	N 41 E	100	8.6	326	N 34 W
951.0	8.00	3.3	44	N 44 E	100	8.6	327	N 33 W
953.0	8.00	3.3	38	N 38 E	100	8.6	327	N 33 W
955.0	8.00	3.6	26	N 26 E	100	8.5	326	N 34 W
957.0	8.00	4.4	14	N 14 E	100	8.5	326	N 34 W
959.0	8.00	4.4	12	N 12 E	100	8.5	327	N 33 W
961.0	8.00	4.0	41	N 41 E	100	8.5	327	N 33 W
963.0	8.00	3.1	35	N 35 E	100	8.5	327	N 33 W
965.0	8.00	7.0	45	N 45 E	100	8.5	327	N 33 W
967.0	8.00	3.5	41	N 41 E	100	8.5	327	N 33 W
969.0	8.00	2.0	25	N 25 E	100	8.5	327	N 33 W
971.0	8.00	2.5	7	N 7 E	100	8.5	327	N 33 W
973.0	8.00	3.2	25	N 25 E	100	8.5	327	N 33 W

UNIBOIL NATURAL GAS CORP.

IN 330-3

WYET

COLUMBIA

OREGON

05-02-88

DEPTH	EL	**FORMATION DIP**			GRADE	***FOREROLL***		
		ANG	AZ	BEARING		DA	DAZ	BEARING
975.0	8.00	1.1	8	N 8 E	100	8.4	327	N 32 W
977.0	8.00	2.6	23	N 23 E	100	8.4	327	N 32 W
979.0	8.00	2.4	27	N 27 E	100	8.5	327	N 32 W
981.0	8.00	2.6	20	N 20 E	100	8.5	327	N 32 W
983.0	8.00	2.1	22	N 22 E	100	8.4	327	N 32 W
985.0	8.00	2.5	37	N 37 E	100	8.5	327	N 32 W
987.0	8.00	2.2	34	N 34 E	100	8.4	327	N 32 W
989.0	8.00	1.3	60	N 60 E	100	8.4	327	N 32 W
991.0	8.00	0.7	35	N 35 E	100	8.4	327	N 32 W
995.0	8.00	0.8	33	N 33 E	100	8.4	327	N 32 W
997.0	8.00	1.2	25	N 25 E	100	8.4	328	N 32 W
999.0	8.00	1.5	9	N 9 E	100	8.3	328	N 32 W
1001.0	8.00	1.1	312	N 43 W	100	8.4	327	N 32 W
1007.0	8.00	0.7	319	N 41 W	100	8.3	327	N 32 W
1011.0	8.00	0.5	286	N 74 W	100	8.3	328	N 32 W
1015.0	8.00	1.0	315	N 45 W	100	8.3	328	N 32 W
1017.0	8.00	1.1	317	N 43 W	100	8.4	328	N 32 W
1019.0	8.00	1.3	9	N 9 E	100	8.3	328	N 32 W
1021.0	8.00	2.2	27	N 27 E	100	8.2	328	N 32 W
1023.0	8.00	2.4	42	N 42 E	100	8.2	327	N 32 W
1025.0	8.00	1.3	20	N 20 E	100	8.3	328	N 32 W
1027.0	8.00	2.0	23	N 23 E	100	8.2	328	N 32 W
1029.0	8.00	2.5	80	N 80 E	100	8.3	327	N 32 W
1031.0	8.00	2.6	77	N 77 E	100	8.2	328	N 32 W
1033.0	8.00	2.3	13	N 13 E	100	8.3	328	N 32 W
1035.0	8.00	2.2	12	N 12 E	100	8.2	328	N 32 W
1037.0	8.00	2.2	62	N 62 E	100	8.2	328	N 32 W
1041.0	8.00	0.6	40	N 40 E	100	8.3	328	N 32 W
1043.0	8.00	1.5	44	N 44 E	100	8.2	328	N 32 W
1047.0	8.00	1.6	301	N 59 W	100	8.2	328	N 32 W
1049.0	8.00	1.6	310	N 50 W	100	8.2	328	N 32 W
1051.0	8.00	0.7	347	N 13 W	100	8.2	328	N 32 W
1053.0	8.00	1.7	347	N 13 W	100	8.2	328	N 32 W
1055.0	8.00	3.8	11	N 11 E	100	8.2	328	N 32 W
1057.0	8.00	1.4	18	N 18 E	100	8.1	328	N 32 W
1059.0	8.00	1.5	41	N 41 E	100	8.1	328	N 32 W
1063.0	8.00	2.1	27	N 27 E	100	8.1	327	N 32 W
1065.0	8.00	2.2	65	N 65 E	100	8.1	327	N 32 W
1067.0	8.00	3.0	96	N 96 E	100	8.1	327	N 32 W
1069.0	8.00	3.4	84	N 84 E	100	8.1	327	N 32 W

OREGON NATURAL GAS CORP.

W 330-3

WET

COLUMBIA

OREGON

08-02-88

DEPTH	WL	**FORMATION DIP**			GRACE	***EORLHOLE****		
		ANG	AZ	BEARING		DA	DAZ	BEARING
1071.0	8.00	2.0	93	S 87 E	100	8.0	327	N 37 W
1073.0	8.00	1.3	118	S 82 E	100	8.0	328	N 37 W
1075.0	8.00	2.7	81	N 61 E	100	7.9	327	N 37 W
1077.0	8.00	0.5	78	N 78 E	100	7.9	327	N 37 W
1079.0	8.00	2.1	59	S 61 E	100	7.9	327	N 37 W
1083.0	8.00	1.7	103	S 77 E	100	7.9	327	N 37 W
1085.0	8.00	1.4	74	N 74 E	100	7.8	327	N 37 W
1087.0	8.00	2.1	60	N 60 E	100	7.9	327	N 37 W
1089.0	8.00	0.7	41	N 41 E	100	7.8	327	N 37 W
1091.0	8.00	1.0	59	N 59 E	100	7.8	327	N 37 W
1093.0	8.00	1.7	70	N 70 E	100	7.8	327	N 37 W
1097.0	8.00	0.8	68	N 68 E	100	7.8	327	N 37 W
1099.0	8.00	1.2	78	N 78 E	100	7.7	327	N 37 W
1101.0	8.00	1.3	84	N 84 E	100	7.7	327	N 37 W
1103.0	8.00	1.0	75	N 75 E	100	7.7	328	N 37 W
1105.0	8.00	1.0	72	N 72 E	100	7.7	327	N 37 W
1107.0	8.00	1.3	49	N 49 E	100	7.7	327	N 37 W
1109.0	8.00	0.8	22	N 22 E	100	7.8	327	N 37 W
1113.0	8.00	1.1	10	N 10 E	100	7.8	327	N 37 W
1115.0	8.00	1.3	40	N 40 E	100	7.8	327	N 37 W
1117.0	8.00	1.5	57	N 57 E	100	7.8	327	N 37 W
1119.0	8.00	2.0	65	N 65 E	100	7.8	327	N 37 W
1121.0	8.00	1.3	75	N 75 E	100	7.8	328	N 37 W
1123.0	8.00	2.5	70	N 70 E	100	7.8	328	N 37 W
1125.0	8.00	2.1	64	N 64 E	100	7.9	328	N 37 W
1127.0	8.00	2.8	54	N 54 E	100	8.0	328	N 37 W
1129.0	8.00	2.6	75	N 75 E	100	8.0	328	N 37 W
1131.0	8.00	0.2	62	N 62 E	100	8.1	328	N 37 W
1133.0	8.00	1.3	88	N 88 E	100	8.1	328	N 37 W
1135.0	8.00	1.6	99	S 81 E	100	8.2	328	N 37 W
1139.0	8.00	1.4	91	S 89 E	100	8.2	329	N 37 W
1141.0	8.00	1.1	35	N 35 E	100	8.2	329	N 37 W
1143.0	8.00	1.8	27	N 27 E	100	8.3	329	N 37 W
1145.0	8.00	1.5	3	N 3 E	100	8.2	329	N 37 W
1147.0	8.00	2.1	14	N 14 E	100	8.4	329	N 37 W
1149.0	8.00	2.2	358	N 2 W	100	8.4	329	N 37 W
1151.0	8.00	2.5	22	N 22 E	100	8.4	329	N 37 W
1153.0	8.00	2.8	10	N 10 E	100	8.4	330	N 37 W
1155.0	8.00	1.2	21	N 21 E	100	8.5	330	N 37 W
1157.0	8.00	1.6	4	N 4 E	100	8.5	329	N 37 W

ORION NATURAL GAS CORP.

IN 330-3

WCT

COLUMBIA

ORICON

GC-02-EM

\*\*CORRECTION LIP\*\*

\*\*\*CORRECTION\*\*\*

DEPTH	SL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
1159.0	8.00	1.5	30	N 10 E	100	8.5	330	N 30 W
1161.0	8.00	1.8	11	N 11 E	100	8.6	330	N 30 W
1163.0	8.00	1.1	355	N 5 W	100	8.6	330	N 30 W
1165.0	8.00	1.1	353	N 7 W	100	8.7	330	N 30 W
1167.0	8.00	1.5	354	N 6 W	100	8.7	330	N 30 W
1169.0	8.00	1.5	327	N 33 W	100	8.8	331	N 29 W
1171.0	8.00	1.7	6	N 8 E	100	8.9	331	N 29 W
1173.0	8.00	1.3	12	N 12 E	100	8.9	331	N 29 W
1175.0	8.00	2.1	40	N 40 E	100	9.0	331	N 29 W
1177.0	8.00	1.4	47	N 47 E	100	9.0	331	N 29 W
1179.0	8.00	1.8	39	N 39 E	100	9.0	331	N 29 W
1181.0	8.00	3.1	23	N 23 E	100	9.1	331	N 29 W
1183.0	8.00	3.6	19	N 19 E	100	9.1	331	N 29 W
1185.0	8.00	5.3	1	N 1 E	100	9.2	331	N 29 W
1187.0	8.00	5.4	0	N 0 E	100	9.2	331	N 29 W
1189.0	8.00	5.8	350	N 10 W	100	9.2	332	N 28 W
1191.0	8.00	5.1	351	N 9 W	100	9.4	332	N 28 W
1193.0	8.00	5.0	347	N 13 W	100	9.4	332	N 28 W
1195.0	8.00	4.8	344	N 16 W	100	9.5	332	N 28 W
1197.0	8.00	4.4	345	N 15 W	100	9.5	332	N 28 W
1199.0	8.00	3.7	341	N 19 W	100	9.6	332	N 28 W
1201.0	8.00	4.3	352	N 8 W	100	9.6	333	N 27 W
1203.0	8.00	5.5	11	N 11 E	100	9.7	333	N 27 W
1205.0	8.00	2.8	24	N 24 E	100	9.7	333	N 27 W
1207.0	8.00	2.9	318	N 45 W	100	9.7	333	N 27 W
1209.0	8.00	3.5	316	N 44 W	100	9.8	333	N 27 W
1211.0	8.00	5.7	333	N 27 W	100	9.9	333	N 27 W
1213.0	8.00	6.1	321	N 39 W	100	10.1	334	N 26 W
1215.0	8.00	2.4	313	N 47 W	100	10.1	334	N 26 W
1217.0	8.00	4.0	318	N 42 W	100	10.1	334	N 26 W
1219.0	8.00	2.6	5	N 5 E	100	10.1	334	N 26 W
1221.0	8.00	2.8	350	N 10 W	100	10.2	334	N 26 W
1223.0	8.00	3.3	339	N 21 W	100	10.2	334	N 26 W
1225.0	8.00	3.1	312	N 48 W	100	10.2	334	N 26 W
1227.0	8.00	3.6	345	N 25 W	100	10.3	334	N 26 W
1229.0	8.00	5.3	358	N 2 W	100	10.3	335	N 25 W
1231.0	8.00	4.6	335	N 25 W	100	10.3	335	N 25 W
1233.0	8.00	7.3	325	N 25 W	100	10.4	325	N 25 W
1235.0	8.00	10.2	343	N 17 W	100	10.3	335	N 25 W
1237.0	8.00	10.2	3	N 3 E	85	10.3	335	N 25 W

## OREGON NATURAL GAS LIFT.

TR 330-3

WGT

COLUMBIA

OREGON

06-02-88

DEPTH	BL	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
1239.0	8.00	10.8	3	N 3 E	100	10.3	335	N 25 W		
1241.0	8.00	9.6	344	N 10 W	100	10.3	335	N 25 W		
1243.0	8.00	10.8	351	N 9 W	100	10.4	335	N 25 W		
1245.0	8.00	11.8	352	N 8 W	100	10.2	335	N 25 W		
1247.0	8.00	11.7	12	N 12 E	100	10.3	335	N 25 W		
1253.0	8.00	10.6	349	N 11 W	100	10.5	335	N 24 W		
1255.0	8.00	10.8	344	N 10 W	100	10.4	335	N 24 W		
1257.0	8.00	14.2	8	N 5 E	100	10.3	335	N 24 W		
1259.0	8.00	14.7	13	N 13 E	100	10.3	335	N 24 W		
1261.0	8.00	14.1	358	N 2 W	100	10.3	335	N 24 W		
1263.0	8.00	16.9	1	N 1 E	100	10.4	335	N 24 W		
1265.0	8.00	14.4	1	N 0 E	100	10.4	335	N 24 W		
1267.0	8.00	13.5	359	N 1 W	100	10.4	335	N 24 W		
1269.0	8.00	12.5	8	N 0 E	100	10.4	337	N 23 W		
1271.0	8.00	12.7	3	N 6 E	100	10.3	335	N 24 W		
1273.0	8.00	10.8	27	N 27 E	100	10.3	335	N 24 W		
1275.0	8.00	9.7	23	N 23 E	100	10.3	337	N 23 W		
1277.0	8.00	10.5	34	N 34 E	100	10.3	337	N 23 W		
1279.0	8.00	10.1	37	N 37 E	100	10.4	337	N 23 W		
1281.0	8.00	5.5	41	N 41 E	100	10.3	335	N 24 W		
1283.0	8.00	8.5	23	N 23 E	100	10.3	335	N 23 W		
1285.0	8.00	7.4	3	N 3 E	100	10.3	335	N 24 W		
1287.0	8.00	7.4	9	N 9 E	100	10.3	335	N 23 W		
1289.0	8.00	7.6	5	N 5 E	100	10.4	335	N 24 W		
1291.0	8.00	7.3	7	N 7 E	100	10.3	337	N 23 W		
1293.0	8.00	5.7	22	N 22 E	100	10.3	335	N 24 W		
1295.0	8.00	5.0	26	N 26 E	100	10.2	335	N 24 W		
1297.0	8.00	6.0	48	N 48 E	100	10.2	335	N 24 W		
1299.0	8.00	7.5	35	N 35 E	100	10.2	335	N 24 W		
1301.0	8.00	7.9	39	N 39 E	100	10.2	335	N 24 W		
1303.0	8.00	11.5	62	N 62 E	100	10.2	335	N 24 W		
1305.0	8.00	10.2	56	N 56 E	100	10.2	335	N 24 W		
1307.0	8.00	10.1	56	N 56 E	100	10.2	337	N 24 W		
1309.0	8.00	11.0	54	N 54 E	100	10.1	335	N 24 W		
1311.0	8.00	10.7	48	N 48 E	100	10.1	335	N 24 W		
1313.0	8.00	11.5	49	N 49 E	100	10.2	335	N 24 W		
1315.0	8.00	12.5	47	N 47 E	100	10.2	335	N 24 W		
1317.0	8.00	12.5	41	N 41 E	100	10.1	335	N 24 W		
1319.0	8.00	7.7	33	N 33 E	100	10.2	337	N 23 W		
1321.0	8.00	6.9	30	N 30 E	100	10.1	335	N 24 W		



ORLEON NATURAL GAS CORP.

14 330-3

F101

COLUMBIA

ORLEON

06-02-28

DEPTH	BL	**CORRECTION DIP**			GRADE	***HOLEHOLE****		
		ANG	AZ	BEARING		DA	DAZ	BEARING
1323.0	8.00	6.4	00	N 33 E	100	10.1	336	N 24 W
1325.0	8.00	7.9	28	N 28 E	100	10.1	336	N 24 W
1327.0	8.00	7.7	70	N 20 E	100	10.1	337	N 24 W
1329.0	8.00	7.5	348	N 12 W	100	10.1	336	N 20 W
1331.0	8.00	13.0	13	N 13 E	100	10.1	337	N 24 W
1333.0	8.00	9.4	26	N 36 E	100	10.1	336	N 24 W
1335.0	8.00	8.0	33	N 53 E	100	10.1	336	N 24 W
1337.0	8.00	8.1	38	N 58 E	100	10.1	336	N 24 W
1339.0	8.00	5.7	56	N 56 E	100	10.1	336	N 24 W
1341.0	8.00	6.1	51	N 51 E	100	10.1	336	N 24 W
1345.0	8.00	3.8	0	N 0 E	100	10.1	336	N 24 W
1347.0	8.00	9.3	0	N 0 E	100	10.0	336	N 24 W
1349.0	8.00	10.9	0	N 0 E	100	10.0	336	N 24 W
1351.0	8.00	9.5	3	N 3 E	100	10.0	336	N 24 W
1353.0	8.00	8.0	354	N 6 W	100	10.0	336	N 24 W
1355.0	8.00	7.4	347	N 13 W	100	10.0	336	N 24 W
1357.0	8.00	7.8	344	N 16 W	100	10.1	336	N 24 W
1359.0	8.00	8.5	334	N 26 W	100	10.0	336	N 24 W
1361.0	8.00	8.9	334	N 26 W	100	9.9	336	N 24 W
1363.0	8.00	8.5	332	N 28 W	100	10.0	336	N 24 W
1365.0	8.00	7.3	333	N 27 W	100	9.9	336	N 24 W
1367.0	8.00	8.2	335	N 21 W	100	10.0	336	N 24 W
1369.0	8.00	7.7	325	N 35 W	100	9.9	336	N 24 W
1371.0	8.00	6.8	328	N 32 W	100	10.0	336	N 24 W
1373.0	8.00	7.0	323	N 37 W	100	10.0	336	N 24 W
1375.0	8.00	6.4	320	N 40 W	100	10.0	336	N 24 W
1377.0	8.00	7.2	325	N 35 W	100	9.9	336	N 24 W
1379.0	8.00	7.6	321	N 39 W	100	9.9	336	N 24 W
1381.0	8.00	8.1	314	N 46 W	100	9.9	336	N 24 W
1383.0	8.00	8.2	319	N 41 W	100	9.9	336	N 24 W
1385.0	9.00	7.9	323	N 37 W	100	9.9	336	N 24 W
1387.0	8.00	8.6	328	N 32 W	100	9.9	336	N 24 W
1389.0	8.00	7.1	335	N 21 W	100	9.9	336	N 24 W
1391.0	8.00	11.6	348	N 12 W	100	9.9	336	N 24 W
1393.0	8.00	12.6	350	N 13 W	100	9.9	336	N 24 W
1395.0	8.00	11.8	344	N 16 W	100	9.9	336	N 24 W
1397.0	8.00	11.5	341	N 19 W	100	9.9	336	N 24 W
1399.0	8.00	12.7	345	N 13 W	100	9.8	336	N 24 W
1401.0	8.00	10.7	354	N 6 W	100	9.8	336	N 24 W
1403.0	8.00	10.2	2	N 2 E	100	9.8	336	N 24 W

OREGON NATURAL GAS COMP.

1W 33D-3

PIST

COLUMBIA

OREGON

CC-02-88

DEPTH	EL	**FORMATION DIP**			GRADE	***BOREHOLE****		
		ANG	AZ	BEARING		DA	DAZ	BLARING
1405.0	8.00	9.6	8	N 8 E	100	9.8	336	N 24 E
1407.0	8.00	11.0	15	N 15 E	100	9.8	336	N 24 N
1409.0	8.00	11.5	21	N 21 E	100	9.8	336	N 24 E
1411.0	8.00	12.1	25	N 25 E	100	9.8	336	N 24 E
1413.0	8.00	11.7	25	N 25 E	100	9.8	336	N 24 E
1415.0	8.00	10.1	14	N 14 E	100	9.8	336	N 24 E
1417.0	8.00	5.7	357	N 3 W	100	9.8	336	N 24 E
1419.0	8.00	6.3	356	N 4 W	100	9.8	336	N 24 W
1421.0	8.00	6.4	17	N 17 E	100	9.8	336	N 24 E
1423.0	8.00	28.1	40	N 40 E	73	9.7	336	N 24 W
1425.0	8.00	27.5	27	N 27 E	100	9.8	336	N 24 E
1433.0	8.00	10.3	42	N 43 E	100	9.7	336	N 24 E
1435.0	8.00	8.5	39	N 39 E	100	9.8	336	N 24 E
1437.0	8.00	9.5	44	N 44 E	100	9.8	336	N 24 E
1439.0	8.00	10.6	43	N 43 E	100	9.7	336	N 24 E
1441.0	8.00	8.8	39	N 39 E	100	9.7	336	N 24 W
1443.0	8.00	8.4	321	N 39 W	100	9.7	336	N 24 E
1445.0	8.00	8.5	329	N 31 W	100	9.7	336	N 24 W
1447.0	8.00	9.8	320	N 40 W	100	9.7	336	N 24 E
1449.0	8.00	9.8	308	N 52 W	100	9.7	336	N 24 W
1451.0	8.00	9.8	292	N 68 W	100	9.7	336	N 24 E
1453.0	8.00	10.5	292	N 68 W	100	9.7	336	N 24 W
1455.0	8.00	9.5	284	N 76 W	100	9.7	336	N 24 W
1457.0	8.00	8.5	305	N 55 W	100	9.7	336	N 24 W
1459.0	8.00	7.1	335	N 25 W	100	9.7	336	N 24 E
1461.0	8.00	7.2	338	N 22 W	100	9.7	336	N 24 W
1463.0	8.00	6.8	337	N 23 W	100	9.7	336	N 24 W
1465.0	8.00	5.8	325	N 25 W	100	9.6	336	N 24 W
1469.0	8.00	4.6	323	N 37 W	100	9.6	336	N 24 E
1471.0	8.00	4.5	321	N 39 W	100	9.6	336	N 24 W
1473.0	8.00	2.9	323	N 37 W	100	9.6	336	N 24 E
1475.0	8.00	2.7	324	N 36 W	100	9.6	336	N 25 W
1477.0	8.00	2.8	358	N 2 W	100	9.6	336	N 24 E
1479.0	8.00	1.7	346	N 14 W	100	9.6	336	N 24 W
1481.0	8.00	3.7	353	N 7 W	100	9.6	336	N 24 E
1483.0	8.00	3.1	324	N 36 W	100	9.6	336	N 24 W
1485.0	8.00	3.8	355	N 8 W	100	9.6	336	N 24 E
1487.0	8.00	3.2	5	N 9 E	100	9.5	336	N 24 W
1489.0	8.00	4.7	337	N 23 W	100	9.5	336	N 24 E
1491.0	8.00	11.5	307	N 53 W	100	9.6	336	N 24 W

ORION NATURAL GAS CORP.

16 335-3

F151

COLUMBIA

ORION

06-02-88

DEPTH	SL	**FORMATION DIP**				***WORTHOLE***			
		ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
1495.0	8.00	15.8	404	N 56 W	100	9.8	330	N 27 E	
1498.0	8.00	21.4	300	N 60 W	100	9.6	330	N 24 E	
1497.0	8.00	13.3	305	N 55 W	100	9.5	330	N 24 E	
1499.0	8.00	5.2	322	N 28 W	100	9.5	330	N 24 E	
1501.0	8.00	13.0	331	N 29 W	100	9.5	336	N 24 E	
1503.0	8.00	11.5	307	N 53 W	100	9.5	336	N 24 E	
1505.0	8.00	12.2	323	N 37 W	100	9.5	336	N 24 E	
1507.0	8.00	12.2	323	N 37 W	100	9.4	335	N 25 E	
1509.0	8.00	12.0	328	N 32 W	100	9.5	336	N 24 E	
1511.0	8.00	15.5	347	N 13 W	100	9.4	336	N 24 E	
1513.0	8.00	15.4	340	N 14 W	100	9.4	335	N 24 E	
1515.0	8.00	5.4	325	N 35 W	100	9.5	335	N 24 E	
1517.0	8.00	7.7	0	N 0 E	100	9.5	336	N 24 E	
1519.0	8.00	4.1	42	N 42 E	100	9.5	336	N 24 E	
1521.0	8.00	0.5	51	S 89 E	100	9.5	336	N 24 E	
1523.0	8.00	2.1	65	N 65 E	100	9.5	336	N 24 E	
1525.0	8.00	3.2	47	N 47 E	100	9.4	336	N 24 E	
1527.0	8.00	2.5	54	N 54 E	100	9.4	336	N 24 E	
1529.0	8.00	2.2	57	N 57 E	100	9.5	336	N 24 E	
1531.0	8.00	3.4	68	N 68 E	100	9.4	336	N 24 E	
1533.0	8.00	4.0	70	N 70 E	100	9.4	336	N 24 E	
1535.0	8.00	4.2	76	N 76 E	100	9.4	336	N 24 E	
1537.0	8.00	3.3	62	N 62 E	100	9.4	336	N 24 E	
1539.0	8.00	2.5	16	N 16 E	100	9.4	336	N 24 E	
1541.0	8.00	5.0	26	N 26 E	100	9.4	336	N 24 E	
1543.0	8.00	4.4	52	N 52 E	100	9.4	336	N 24 E	
1545.0	8.00	4.3	55	N 55 E	100	9.4	336	N 24 E	
1547.0	8.00	3.9	52	N 52 E	100	9.3	336	N 24 E	
1549.0	8.00	4.2	64	N 64 E	100	9.3	336	N 24 E	
1551.0	8.00	4.1	56	N 56 E	100	9.3	336	N 24 E	
1553.0	8.00	4.3	57	N 57 E	100	9.3	336	N 24 E	
1555.0	8.00	4.2	58	N 58 E	100	9.3	336	N 24 E	
1557.0	8.00	3.5	39	N 39 E	100	9.2	330	N 24 E	
1559.0	8.00	4.4	50	N 50 E	100	9.2	330	N 24 E	
1561.0	8.00	4.0	47	N 47 E	100	9.2	335	N 24 E	
1563.0	8.00	5.0	23	N 23 E	100	9.3	336	N 24 E	
1565.0	8.00	5.7	23	N 23 E	100	9.2	331	N 24 E	
1567.0	8.00	6.9	83	N 83 E	100	9.2	335	N 25 E	
1569.0	8.00	7.1	79	N 79 E	100	9.2	335	N 25 E	
1571.0	8.00	7.9	79	N 79 E	100	9.2	335	N 25 E	

CHLOE NATURAL GAS CORP.

W 330-3

CTOT

COLUMBIA

UNLUOK

00-02-88

DEPTH	NL	**FORMATION DIP**				GRADE	***HORHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
1573.0	8.00	6.0	98	N 90 E	100	9.2	335	N 25 W		
1575.0	8.00	8.4	99	S 81 E	100	9.2	335	N 25 W		
1577.0	8.00	7.7	99	S 81 E	100	9.1	335	N 25 W		
1579.0	8.00	7.8	116	S 64 E	100	9.1	335	N 25 W		
1589.0	8.00	9.9	100	S 80 E	100	9.2	335	N 25 W		
1591.0	8.00	6.0	108	S 72 E	100	9.2	335	N 25 W		
1593.0	8.00	5.3	123	S 57 E	100	9.3	335	N 25 W		
1595.0	8.00	5.6	85	N 85 E	100	9.4	335	N 25 W		
1597.0	8.00	7.8	75	N 75 E	100	9.3	335	N 25 W		
1599.0	8.00	6.2	49	N 49 E	100	9.4	335	N 25 W		
1603.0	8.00	5.3	14	N 14 E	100	9.5	335	N 25 W		
1605.0	8.00	5.2	7	N 7 E	100	9.5	335	N 25 W		
1607.0	8.00	5.9	47	N 47 E	100	9.5	335	N 25 W		
1613.0	8.00	14.2	79	N 79 E	100	9.6	334	N 25 W		
1615.0	8.00	16.7	84	N 84 E	100	9.6	335	N 25 W		
1617.0	8.00	24.0	113	S 67 E	100	9.6	335	N 25 W		
1619.0	8.00	23.7	110	S 70 E	100	9.6	335	N 25 W		
1621.0	8.00	25.7	118	S 62 E	100	9.6	335	N 25 W		
1623.0	8.00	26.1	121	S 59 E	100	9.7	334	N 25 W		
1625.0	8.00	32.2	98	S 82 E	100	9.7	334	N 25 W		
1629.0	8.00	8.4	123	S 82 E	100	9.7	334	N 25 W		
1631.0	8.00	7.3	135	S 45 E	100	9.7	334	N 25 W		
1623.0	8.00	7.5	130	S 50 E	100	9.8	334	N 25 W		
1635.0	8.00	6.5	59	S 81 E	100	9.8	334	N 25 W		
1637.0	8.00	6.0	91	S 85 E	100	9.9	334	N 25 W		
1639.0	8.00	28.9	17	N 17 E	100	10.1	333	N 27 W		
1641.0	8.00	16.7	27	N 27 E	100	9.5	334	N 25 W		
1643.0	8.00	3.8	71	N 71 E	100	10.0	334	N 25 W		
1645.0	8.00	3.2	91	S 89 E	100	10.1	334	N 25 W		
1647.0	8.00	2.7	135	S 45 E	100	10.2	334	N 25 W		
1651.0	8.00	9.4	157	S 23 E	100	10.2	334	N 25 W		
1653.0	8.00	9.0	158	S 22 E	100	10.2	334	N 25 W		
1655.0	8.00	9.8	157	S 23 E	100	10.3	334	N 25 W		
1657.0	8.00	9.9	157	S 23 E	100	10.4	334	N 25 W		
1659.0	8.00	2.2	157	S 28 E	100	10.4	334	N 25 W		
1661.0	8.00	2.4	133	S 47 E	100	10.5	334	N 25 W		
1663.0	8.00	2.3	135	S 45 E	100	10.6	334	N 25 W		
1665.0	8.00	2.7	135	S 45 E	100	10.6	334	N 25 W		
1667.0	8.00	2.7	133	S 47 E	100	10.7	334	N 25 W		
1669.0	8.00	2.0	123	S 57 E	100	10.7	334	N 25 W		

## ORLOGON NATURAL GAS CORP.

1# 331-3

WIST

COLUMBIA

ORLOGON

01-02-88

DEPTH	KL	**FORMATION DIP**				GRADE	***CORRECTION***			
		ANG	AZ	BEARING	DA		AZ	BEARING		
1671.0	8.00	2.0	113	S 67 E	100	10.7	334	N 24 W		
1673.0	8.00	2.2	125	S 55 E	100	10.8	334	N 20 W		
1681.0	8.00	1.8	132	S 46 E	100	11.0	334	N 17 W		
1683.0	8.00	2.2	149	S 31 E	100	11.0	334	N 21 W		
1685.0	8.00	3.0	154	S 19 E	100	11.0	334	N 24 W		
1687.0	8.00	3.3	162	S 12 E	100	11.1	334	N 26 W		
1691.0	8.00	3.5	172	S 12 W	100	11.2	334	N 24 W		
1693.0	8.00	4.0	190	S 12 W	100	11.2	334	N 26 W		
1695.0	8.00	5.0	175	S 5 W	100	11.2	334	N 20 W		
1697.0	8.00	3.8	169	S 11 E	100	11.4	334	N 21 W		
1699.0	8.00	4.1	166	S 14 E	100	11.4	334	N 24 W		
1701.0	8.00	4.2	162	S 17 E	100	11.5	334	N 20 W		
1703.0	8.00	4.5	172	S 8 E	100	11.5	334	N 24 W		
1705.0	8.00	4.0	188	S 6 W	100	11.6	334	N 20 W		
1707.0	8.00	4.2	164	S 16 E	100	11.7	334	N 21 W		
1709.0	8.00	3.0	156	S 24 E	100	11.6	334	N 20 W		
1711.0	8.00	2.2	214	E 34 W	100	11.7	334	N 25 W		
1713.0	8.00	5.1	208	S 28 W	100	11.8	334	N 26 W		
1715.0	8.00	3.7	182	S 3 W	100	11.8	334	N 21 W		
1717.0	8.00	16.4	94	S 86 E	100	11.9	334	N 26 W		
1719.0	8.00	21.0	99	S 81 E	100	12.0	334	N 27 W		
1723.0	8.00	7.8	10	N 10 E	100	12.0	334	N 24 W		
1725.0	8.00	8.2	9	N 9 E	100	12.1	334	N 16 W		
1727.0	8.00	16.1	358	N 2 W	100	12.1	334	N 26 W		
1729.0	8.00	16.7	317	N 43 W	100	12.2	334	N 24 W		
1731.0	8.00	8.5	310	N 50 W	100	12.2	334	N 24 W		
1735.0	8.00	8.2	295	N 65 W	100	12.3	334	N 24 W		
1743.0	8.00	7.2	331	N 29 W	100	12.6	334	N 26 W		
1747.0	8.00	14.1	328	N 32 W	100	12.9	333	N 27 W		
1749.0	8.00	15.1	321	N 39 W	100	12.9	333	N 27 W		
1751.0	8.00	15.7	250	N 70 W	100	13.0	334	N 22 W		
1755.0	8.00	12.6	214	N 46 W	100	13.0	334	N 26 W		
1757.0	8.00	12.5	286	N 74 W	100	13.1	333	N 27 W		
1761.0	8.00	14.1	281	N 79 W	100	13.4	334	N 26 W		
1763.0	8.00	34.3	236	S 55 E	100	13.5	333	N 27 W		
1765.0	8.00	33.6	248	S 68 W	100	13.6	334	N 26 W		
1767.0	8.00	37.2	235	S 55 W	100	13.6	334	N 26 W		
1769.0	8.00	12.5	321	S 81 W	100	13.6	334	N 26 W		
1771.0	8.00	8.1	230	S 50 W	100	13.7	334	N 26 W		
1773.0	8.00	5.2	224	S 44 W	100	13.8	333	N 27 W		

OREGON NATURAL GAS CORP.

10-330-3

F151

COLUMBIA

OREGON

06-02-85

\*\*FORMATION DIP\*\*

\*\*\*WELLHOLE\*\*\*

DEPTH	BL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
1775.0	8.00	9.3	234	S 54 W	100	13.8	334	N 57 W
1777.0	8.00	9.4	231	S 51 W	100	13.9	334	N 56 W
1781.0	8.00	10.1	204	S 34 W	100	13.9	334	N 55 W
1785.0	8.00	10.1	192	S 12 W	100	14.0	334	N 26 W
1787.0	8.00	3.3	213	S 33 W	100	14.1	334	N 26 W
1791.0	8.00	5.6	243	S 63 W	100	14.1	334	N 26 W
1793.0	8.00	6.3	248	S 68 W	100	14.1	334	N 26 W
1795.0	8.00	9.3	209	S 29 W	100	14.1	334	N 26 W
1797.0	8.00	11.6	202	S 22 W	100	14.2	334	N 26 W
1799.0	8.00	11.6	199	S 19 W	100	14.3	334	N 26 W
1805.0	8.00	12.5	222	S 42 W	93	14.5	334	N 26 W
1809.0	8.00	9.1	212	S 32 W	100	14.7	334	N 26 W
1811.0	8.00	5.3	213	S 33 W	100	14.7	334	N 26 W
1813.0	8.00	15.8	279	N 81 W	100	14.8	334	N 26 W
1815.0	8.00	7.8	307	N 53 W	100	14.9	334	N 26 W
1817.0	8.00	12.8	272	N 68 W	100	14.9	334	N 26 W
1819.0	8.00	13.7	274	N 66 W	100	15.0	334	N 26 W
1821.0	8.00	14.0	270	N 60 W	100	15.0	334	N 26 W
1823.0	8.00	13.8	278	S 82 E	100	15.1	324	N 26 W
1825.0	8.00	8.6	251	S 71 W	100	15.0	334	N 26 W
1827.0	8.00	15.5	227	S 47 W	100	15.2	334	N 26 W
1829.0	8.00	12.8	286	N 74 W	100	15.0	334	N 26 W
1831.0	8.00	10.1	297	N 73 W	100	15.2	334	N 27 W
1833.0	8.00	11.6	270	N 90 W	100	15.3	333	N 27 W
1835.0	8.00	12.5	274	N 86 W	100	15.4	334	N 26 W
1837.0	8.00	10.6	287	N 73 W	100	15.3	334	N 26 W
1839.0	8.00	13.8	263	S 83 E	100	15.3	334	N 26 W
1841.0	8.00	6.0	260	S 86 W	100	15.4	334	N 26 W
1843.0	8.00	9.3	285	N 75 W	100	15.4	334	N 26 W
1845.0	8.00	28.2	302	N 58 W	100	15.4	335	N 26 W
1847.0	8.00	33.5	314	N 46 W	100	15.4	334	N 26 W
1849.0	8.00	24.0	311	N 49 W	100	15.5	335	N 26 W
1851.0	8.00	7.7	304	N 56 W	100	15.6	335	N 26 W
1853.0	8.00	4.0	265	S 85 W	100	15.7	335	N 26 W
1855.0	8.00	1.7	248	S 68 W	100	15.7	335	N 26 W
1857.0	8.00	1.8	219	S 39 W	100	15.7	335	N 26 W
1859.0	8.00	5.6	240	S 66 W	100	15.7	335	N 26 W
1871.0	8.00	4.3	245	S 65 W	100	15.8	335	N 26 W
1873.0	8.00	2.3	259	S 79 W	100	15.9	335	N 26 W
1875.0	8.00	4.0	252	S 72 W	100	15.9	335	N 26 W

OPL606 NATURAL GAS CORP.

TR 330-5

W157

COLUMBIA

OREGON

00-02-88

DEPTH	ML	**FLYWAY DIP**			GPALE	***HOLEHOLE***		
		ANG	AZ	BEARING		DA	DAZ	BEARING
1877.0	8.00	4.4	252	S 72 W	100	15.9	335	N 22 E
1879.0	8.00	6.3	259	S 79 W	100	15.8	335	N 20 E
1891.0	8.00	4.4	260	S 80 W	100	15.9	335	N 22 E
1883.0	8.00	4.5	244	S 64 W	100	15.9	334	N 26 W
1887.0	8.00	3.6	234	S 54 W	100	15.8	335	N 23 E
1889.0	8.00	4.4	240	S 60 W	100	15.9	335	N 22 E
1891.0	8.00	4.3	244	S 64 W	100	15.9	335	N 22 W
1893.0	8.00	6.1	242	S 62 W	100	15.9	335	N 22 E
1855.0	8.00	4.6	245	S 65 W	100	15.8	334	N 21 E
1897.0	8.00	9.1	243	S 63 W	100	15.9	335	N 22 E
1907.0	8.00	23.4	184	S 4 W	100	15.8	335	N 25 E
1909.0	8.00	26.4	178	S 2 E	100	15.8	335	N 24 E
1911.0	8.00	26.4	178	S 2 E	100	15.8	335	N 24 E
1913.0	8.00	25.7	182	S 2 W	100	15.8	335	N 25 E
1915.0	8.00	26.1	181	S 19 W	100	15.8	335	N 23 E
1919.0	8.00	17.1	198	S 18 W	100	15.8	335	N 22 W
1921.0	8.00	19.7	219	S 39 E	100	15.7	335	N 22 E
1923.0	8.00	15.0	208	S 28 E	100	15.7	335	N 22 W
1925.0	8.00	16.3	210	S 30 W	72	15.7	335	N 22 E
1927.0	8.00	12.6	177	S 3 E	100	15.8	335	N 25 W
1929.0	8.00	12.4	179	S 3 E	100	15.7	335	N 25 E
1931.0	8.00	12.3	205	S 25 W	100	15.7	335	N 25 W
1933.0	8.00	18.0	209	S 29 W	100	15.7	335	N 25 E
1935.0	8.00	19.0	204	S 24 W	100	15.7	335	N 25 W
1937.0	8.00	28.0	200	S 20 W	100	15.6	335	N 25 E
1939.0	8.00	21.5	200	S 20 W	100	15.7	335	N 25 E
1941.0	8.00	15.7	196	S 18 W	100	15.7	335	N 25 E
1943.0	8.00	11.3	202	S 22 W	100	15.7	335	N 25 E
1945.0	8.00	10.1	202	S 22 W	100	15.7	335	N 25 E
1947.0	8.00	9.5	206	S 26 W	100	15.7	335	N 25 E
1955.0	8.00	20.1	190	S 18 W	100	15.6	335	N 25 E
1957.0	8.00	8.0	184	S 4 W	100	15.7	335	N 25 E
1959.0	8.00	11.7	180	S 0 E	100	15.6	335	N 25 W
1961.0	8.00	11.9	178	S 2 E	100	15.7	335	N 25 W
1963.0	8.00	11.7	189	S 9 W	100	15.7	335	N 23 E
1965.0	8.00	12.8	172	S 8 E	100	15.7	335	N 25 W
1967.0	8.00	7.9	164	S 16 E	100	15.6	335	N 25 E
1969.0	8.00	19.9	146	S 32 E	100	15.6	335	N 25 E
1971.0	8.00	20.3	174	S 0 E	100	15.6	335	N 25 E
1973.0	8.00	25.4	160	S 20 E	100	15.6	335	N 25 W

ORIGON NATURAL GAS CORP.

W 320-3

FTST

COLUMBIA

ORIGON

90-02-00

\*\*\*CORRECTION DIP\*\*\*

\*\*\*BOREHOLE\*\*\*

DEPTH	ML	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
1975.0	8.00	20.0	171	S 9 E	100	15.8	335	N 25 E
1977.0	8.00	11.6	206	S 26 W	100	15.8	335	N 25 E
1979.0	8.00	9.2	215	S 38 W	100	15.8	335	N 25 E
1981.0	8.00	9.6	210	S 30 W	100	15.5	335	N 25 E
1983.0	8.00	11.1	197	S 17 W	100	15.6	335	N 25 E
1985.0	8.00	10.1	188	S 8 W	100	15.5	335	N 25 E
1987.0	8.00	10.1	178	S 2 E	100	15.5	335	N 25 E
1989.0	8.00	9.9	173	S 7 E	100	15.5	335	N 25 E
2001.0	8.00	14.7	173	S 7 E	100	15.5	335	N 25 E
2003.0	8.00	14.1	174	S 6 E	100	15.4	334	N 25 W
2005.0	8.00	15.4	177	S 15 E	100	15.4	334	N 25 W
2007.0	8.00	14.4	164	S 16 E	100	15.5	335	N 25 W
2009.0	8.00	13.9	181	S 6 W	100	15.4	335	N 25 E
2011.0	8.00	17.5	173	S 7 E	100	15.4	335	N 25 W
2012.0	8.00	17.7	174	S 6 E	100	15.4	335	N 25 E
2015.0	8.00	17.4	172	S 6 E	100	15.4	335	N 25 W
2021.0	8.00	20.4	184	S 4 W	100	15.3	335	N 25 E
2027.0	8.00	32.4	185	S 5 W	100	15.3	334	N 25 W
2029.0	8.00	21.0	212	S 32 E	100	15.3	335	N 25 W
2031.0	8.00	21.7	176	S 4 E	100	15.3	335	N 25 W
2037.0	8.00	26.2	178	S 2 E	100	15.2	335	N 25 E
2039.0	8.00	25.9	179	S 1 E	100	15.3	335	N 25 W
2041.0	8.00	30.2	195	S 15 W	100	15.2	334	N 25 W
2043.0	8.00	18.1	193	S 13 W	100	15.3	335	N 25 W
2045.0	8.00	16.4	183	S 3 W	100	15.2	335	N 25 E
2047.0	8.00	17.4	182	S 2 W	100	15.2	335	N 25 W
2051.0	8.00	17.6	177	S 3 E	100	15.2	335	N 25 W
2053.0	8.00	17.6	177	S 3 E	100	15.2	335	N 25 W
2059.0	8.00	13.0	177	S 3 E	100	15.1	335	N 25 E
2061.0	8.00	14.8	176	S 4 E	100	15.1	335	N 25 E
2063.0	8.00	32.2	190	S 10 W	85	15.0	335	N 25 E
2065.0	8.00	33.0	193	S 13 W	100	15.0	335	N 25 W
2069.0	8.00	23.1	195	S 15 W	100	15.0	335	N 25 W
2071.0	8.00	33.4	193	S 13 W	100	15.0	335	N 25 W
2083.0	8.00	11.9	200	S 20 W	100	14.9	335	N 25 W
2085.0	8.00	10.1	234	S 54 W	100	14.9	335	N 25 W
2087.0	8.00	11.4	240	S 20 W	100	14.9	335	N 25 W
2089.0	8.00	11.5	189	S 9 W	100	14.9	335	N 25 W
2091.0	8.00	10.0	189	S 21 E	100	14.9	335	N 25 W
2093.0	8.00	11.5	180	S 0 E	100	14.9	335	N 25 W



ORION NATURAL GAS CORP.  
 IV 330-3  
 F151  
 COLUMBIA  
 05-02-88

ORION

DEPTH	EL	**FORMATION DIP**				GRADE	***BOREHOLE****			
		ANL	AZ	BLARING			DA	DAZ	BEARING	
2095.0	8.00	14.4	175	S 5 L	100	14.9	335	N 25 E		
2097.0	8.00	14.4	174	S 6 E	100	14.9	335	N 24 W		
2107.0	8.00	8.0	160	S 20 L	100	14.8	335	S 25 E		
2109.0	8.00	8.0	145	S 35 E	100	14.8	335	N 25 W		
2111.0	8.00	10.0	158	S 22 L	100	14.9	335	N 27 E		
2113.0	8.00	11.0	161	S 18 E	100	14.8	335	N 28 W		
2115.0	8.00	11.0	157	S 23 E	100	14.8	335	N 27 E		
2117.0	8.00	11.1	156	S 24 E	100	14.8	335	N 28 W		
2119.0	8.00	10.1	164	S 16 L	100	14.8	335	N 28 W		
2129.0	8.00	12.4	165	S 11 L	100	14.8	335	N 28 W		
2131.0	8.00	11.4	195	S 15 W	100	14.8	335	N 29 W		
2133.0	8.00	14.6	204	S 24 W	100	14.8	335	N 28 W		
2135.0	8.00	13.0	195	S 19 W	100	14.8	335	N 29 W		
2137.0	8.00	15.2	179	S 1 L	100	14.8	335	N 28 E		
2139.0	8.00	14.7	176	S 4 L	100	14.8	335	N 28 E		
2141.0	8.00	14.4	178	S 2 E	100	14.8	335	N 28 W		
2143.0	8.00	11.0	188	S 8 W	100	14.8	335	N 29 W		
2147.0	8.00	9.4	206	S 26 W	100	14.8	335	N 28 W		
2149.0	8.00	9.4	211	S 31 W	100	14.8	335	N 28 W		
2151.0	8.00	9.5	214	S 34 W	100	14.8	335	N 28 W		
2159.0	8.00	27.6	140	S 40 E	100	14.7	335	N 28 E		
2161.0	8.00	28.0	142	S 38 E	100	14.7	335	N 28 E		
2163.0	8.00	17.5	142	S 37 E	100	14.7	335	N 28 E		
2165.0	8.00	7.0	240	S 60 W	100	14.7	335	N 28 W		
2167.0	8.00	18.2	271	S 41 W	100	14.7	335	N 28 W		
2173.0	8.00	30.5	197	S 17 W	100	14.7	335	N 28 W		
2175.0	8.00	30.9	197	S 17 W	100	14.6	335	N 28 W		
2187.0	8.00	5.3	178	S 2 E	100	14.6	335	N 28 W		
2189.0	8.00	7.1	161	S 19 E	100	14.6	335	N 28 W		
2203.0	8.00	8.0	153	S 13 W	100	14.6	335	N 28 W		
2205.0	8.00	12.0	191	S 11 W	100	14.5	335	N 28 E		
2207.0	8.00	26.0	170	S 10 E	100	14.5	335	N 28 W		
2209.0	8.00	17.2	182	S 12 W	100	14.5	335	N 28 E		
2211.0	8.00	36.4	169	S 11 L	100	14.5	335	N 28 W		
2213.0	8.00	37.5	152	S 20 L	100	14.5	335	N 28 E		
2217.0	8.00	24.5	104	S 76 E	100	14.4	335	N 28 E		
2219.0	8.00	21.3	31	N 31 E	100	14.4	335	N 28 W		
2221.0	8.00	24.1	17	N 17 E	100	14.4	335	N 28 W		
2223.0	8.00	25.0	17	N 17 E	100	14.3	335	N 28 W		
2225.0	8.00	21.5	31	N 31 E	100	14.3	335	N 28 W		

OREGON NATURAL GAS CORP.

TR 330-3

F101

COLUMBIA

OREGON

06-02-88

DEPTH	SL	**FORMATION DIP**				***BONEHOLE***		
		ANG	AZ	BEAKING	GRADE	DA	DAZ	BEARING
2227.0	8.00	26.1	42	N 42 E	60	14.3	335	N 25 E
2229.0	8.00	26.4	58	N 58 E	71	14.3	335	N 25 W
2231.0	8.00	27.3	33	N 33 E	73	14.2	335	N 25 E
2235.0	8.00	30.0	1	N 1 E	87	14.2	335	N 25 W
2237.0	8.00	30.7	22	N 22 E	100	14.2	335	N 25 E
2239.0	8.00	36.9	257	S 77 W	100	14.2	335	N 25 W
2241.0	8.00	35.9	257	S 77 W	100	14.2	335	N 25 W
2243.0	8.00	29.5	291	N 69 W	62	14.2	335	N 25 W
2275.0	8.00	24.8	304	N 56 W	100	13.6	335	N 25 W
2293.0	8.00	16.1	324	N 36 W	100	13.6	334	N 26 W
2295.0	8.00	13.7	323	N 27 W	100	13.6	334	N 26 W
2297.0	8.00	13.9	333	N 27 W	100	13.5	334	N 26 W
2299.0	8.00	20.1	316	N 49 W	57	13.5	334	N 26 W
2301.0	8.00	34.1	247	N 13 W	100	13.5	334	N 26 W
2317.0	8.00	20.8	353	N 7 E	100	13.3	334	N 26 W
2319.0	8.00	28.4	358	N 2 W	100	13.3	334	N 26 W
2321.0	8.00	5.1	248	N 12 W	100	13.2	334	N 26 W
2323.0	8.00	19.8	359	N 1 W	68	13.2	334	N 26 W
2325.0	8.00	31.4	340	N 12 W	79	13.2	334	N 26 W
2327.0	8.00	16.8	335	N 25 W	65	13.2	334	N 26 W
2329.0	8.00	13.7	41	N 41 E	100	13.2	334	N 26 W
2333.0	8.00	10.4	78	N 78 E	100	13.2	334	N 26 W
2335.0	8.00	10.8	80	N 80 E	100	13.2	334	N 26 W
2337.0	8.00	34.9	20	N 20 E	91	13.1	334	N 26 W
2339.0	8.00	32.7	21	N 21 E	100	13.1	334	N 26 W
2341.0	8.00	22.6	36	N 36 E	81	13.1	334	N 26 W
2343.0	8.00	19.1	357	N 3 W	100	13.1	334	N 26 W
2345.0	8.00	19.5	355	N 5 W	100	13.0	334	N 26 W
2347.0	8.00	19.8	311	N 49 W	100	13.0	334	N 26 W
2349.0	8.00	20.0	312	N 48 W	100	13.0	334	N 26 W
2351.0	8.00	20.4	300	N 60 W	100	13.0	334	N 26 W
2353.0	8.00	21.7	219	N 41 W	100	13.0	334	N 26 W
2355.0	8.00	25.7	211	S 31 W	100	12.9	334	N 26 W
2367.0	8.00	29.8	196	S 16 W	100	12.9	334	N 26 W
2369.0	8.00	5.0	185	S 5 W	67	12.8	334	N 26 W
2371.0	8.00	7.7	185	S 9 W	100	12.8	334	N 26 W
2373.0	8.00	40.1	189	S 9 W	100	12.8	334	N 26 W
2375.0	8.00	48.1	182	S 2 W	100	12.8	334	N 26 W
2379.0	8.00	32.4	78	N 68 E	100	11.8	334	N 26 W
2381.0	8.00	8.4	46	N 46 E	100	12.8	334	N 26 W

OREGON NATURAL GAS CORP.

IP 330-3

PIST

COLUMBIA

OREGON

06-02-89

DEPTH	ML	**PUMPATIC DIP**			***BOREHOLE***		
		ANG	AZ BEARING	GRADE	DA	DAZ BEARING	
2383.0	8.00	10.7	42 N 43 E	100	12.7	334 N 27 E	
2385.0	8.00	11.6	60 N 50 E	100	12.7	332 N 27 E	
2387.0	8.00	8.7	60 N 50 E	100	12.7	334 N 27 E	
2395.0	8.00	32.6	152 S 28 E	100	12.7	334 N 26 E	
2397.0	8.00	32.1	142 S 37 E	100	12.7	334 N 26 E	
2399.0	8.00	20.1	205 S 35 W	100	12.6	333 N 27 W	
2401.0	8.00	8.3	220 S 40 W	100	12.7	333 N 27 W	
2403.0	8.00	26.4	275 N 55 W	100	12.7	334 N 26 W	
2409.0	8.00	30.5	303 N 57 W	100	12.6	334 N 26 W	
2413.0	8.00	21.3	342 N 17 W	100	12.4	334 N 26 W	
2415.0	8.00	21.4	341 N 17 W	100	12.4	334 N 26 W	
2417.0	8.00	20.6	336 N 24 W	100	12.4	334 N 26 W	
2419.0	8.00	20.3	328 N 32 W	100	12.4	334 N 26 W	
2421.0	8.00	28.0	350 N 10 W	100	12.4	334 N 26 W	
2423.0	8.00	33.9	356 N 10 W	84	12.4	334 N 26 W	
2441.0	8.00	31.2	15 N 19 E	100	12.2	333 N 27 E	
2443.0	8.00	39.8	42 N 43 E	100	12.2	333 N 27 E	
2445.0	8.00	31.4	30 W 30 E	100	12.1	333 N 27 E	
2453.0	8.00	33.7	10 N 20 E	100	12.1	333 N 27 E	
2455.0	8.00	27.1	41 N 41 E	80	12.0	333 N 27 E	
2457.0	8.00	27.4	42 N 42 E	100	12.0	332 N 27 E	
2459.0	8.00	26.0	43 N 43 E	100	12.0	333 N 27 E	
2461.0	8.00	26.4	41 N 41 E	100	12.0	332 N 27 E	
2463.0	8.00	28.4	34 N 34 E	100	12.0	332 N 27 E	
2465.0	8.00	28.4	31 N 31 E	100	11.9	332 N 27 E	
2473.0	8.00	17.1	19 N 19 E	100	11.8	332 N 28 W	
2475.0	8.00	19.4	18 N 18 E	100	11.8	332 N 28 W	
2479.0	8.00	26.0	17 N 17 E	100	11.8	332 N 28 W	
2481.0	8.00	25.8	14 N 14 E	100	11.7	332 N 28 W	
2483.0	8.00	26.6	19 N 19 E	100	11.8	332 N 28 W	
2485.0	8.00	40.3	30 N 30 E	72	11.7	332 N 28 W	
2487.0	8.00	31.7	35 N 35 E	100	11.7	332 N 28 W	
2489.0	8.00	47.9	29 N 29 E	100	11.7	332 N 28 W	
2491.0	8.00	38.0	27 N 27 E	100	11.7	332 N 28 W	
2493.0	8.00	45.7	26 N 26 E	100	11.6	332 N 28 W	
2495.0	8.00	28.4	41 N 41 E	100	11.6	332 N 28 W	
2497.0	8.00	21.1	63 N 63 E	100	11.6	332 N 28 W	
2507.0	8.00	24.7	75 N 75 E	100	11.5	332 N 28 W	
2511.0	8.00	8.7	75 N 75 E	100	11.5	332 N 28 W	
2513.0	8.00	9.0	76 N 76 E	100	11.4	332 N 28 W	

OREGON NATURAL GAS CORP.

W 330-3

PLCT

COLUMBIA

OREGON

06-02-88

DEPTH	RL	**FORMATION DIP**			GRADE	***WELLHOLE***	
		ANG	AZ BEARING	DA		DAZ BEARING	
2515.0	8.00	10.6	71 N 71 E	100	11.4	332	N 78 W
2517.0	8.00	24.2	74 N 74 E	100	11.4	332	N 28 W
2519.0	8.00	24.1	75 N 75 E	100	11.4	331	N 28 W
2523.0	8.00	30.6	56 N 56 E	100	11.4	331	N 25 W
2525.0	8.00	22.5	42 N 42 E	100	11.4	331	N 24 W
2527.0	8.00	11.4	148 S 32 E	100	11.3	331	N 24 W
2529.0	8.00	11.0	152 S 29 E	100	11.4	332	N 25 W
2533.0	8.00	11.0	154 S 26 E	100	11.4	331	N 29 E
2539.0	8.00	6.1	100 S 80 E	100	11.3	331	N 29 W
2541.0	8.00	6.7	95 S 81 E	100	11.3	331	N 29 W
2545.0	8.00	8.1	82 N 82 E	100	11.2	331	N 29 W
2547.0	8.00	29.2	49 N 49 E	75	11.1	331	N 29 W
2551.0	8.00	15.0	52 N 53 E	100	11.2	331	N 25 W
2553.0	8.00	14.9	74 N 74 E	100	11.2	331	N 24 W
2557.0	8.00	23.4	56 N 56 E	100	11.1	331	N 29 W
2559.0	8.00	27.1	43 N 43 E	100	11.1	331	N 29 W
2563.0	8.00	29.5	38 N 38 E	100	11.0	331	N 29 W
2565.0	8.00	33.9	45 N 45 E	100	11.0	331	N 29 W
2571.0	8.00	38.9	27 N 27 E	100	10.9	331	N 29 W
2573.0	8.00	35.3	201 S 21 W	100	11.0	331	N 29 W
2575.0	8.00	20.7	191 S 11 W	100	10.9	331	N 27 W
2577.0	8.00	17.7	225 S 45 W	100	10.9	331	N 29 W
2581.0	8.00	21.6	217 S 37 W	100	10.8	331	N 29 W
2583.0	8.00	18.8	220 S 40 W	100	10.8	331	N 29 W
2587.0	8.00	30.1	313 N 47 W	100	10.8	330	N 30 W
2589.0	8.00	30.2	315 N 45 W	100	10.8	330	N 30 W
2591.0	8.00	4.9	260 S 20 W	100	10.8	331	N 29 W
2593.0	8.00	5.0	258 S 70 W	100	10.8	331	N 29 W
2595.0	8.00	3.7	279 N 81 W	100	10.7	331	N 27 W
2597.0	8.00	17.2	194 S 19 W	100	10.7	330	N 30 W
2613.0	8.00	31.2	155 S 25 E	100	10.5	331	N 29 W
2623.0	8.00	32.3	121 S 60 E	82	10.5	331	N 29 W
2627.0	8.00	20.3	111 S 69 E	74	10.5	330	N 30 W
2629.0	8.00	25.1	169 S 11 E	100	10.5	330	N 30 W
2639.0	8.00	45.1	166 S 14 E	100	10.5	330	N 30 W
2647.0	8.00	19.5	143 S 37 E	100	10.4	330	N 30 W
2649.0	8.00	16.0	169 S 71 E	100	10.5	330	N 30 W
2651.0	8.00	25.2	124 S 56 E	100	10.4	330	N 30 W
2653.0	8.00	26.0	127 S 53 E	100	10.4	330	N 30 W
2655.0	8.00	26.1	123 S 57 E	100	10.4	330	N 30 W

OREGON NATURAL GAS CORP.

IN 330-3

FIST

COLUMBIA

OREGON

06-02-89

DEPTH	RL	**INFORMATION LIP**				GRADE	***LORHOLE***			
		AVG	AZ	BEARING	DA		DAZ	BEARING		
2657.0	8.00	18.3	115	S 61 E	100	10.3	330	N 31 W		
2659.0	8.00	20.9	20	N 20 E	100	10.3	329	N 31 W		
2661.0	8.00	28.7	16	N 16 E	100	10.3	330	N 31 W		
2663.0	8.00	34.7	30	N 30 E	100	10.3	330	N 30 W		
2667.0	8.00	31.5	25	N 25 E	100	10.2	330	N 31 W		
2669.0	8.00	30.9	23	N 23 E	100	10.2	330	N 30 W		
2687.0	8.00	23.8	36	N 36 E	100	10.1	329	N 31 W		
2689.0	8.00	26.4	31	N 31 E	100	10.1	328	N 32 W		
2691.0	8.00	26.8	37	N 37 E	100	10.1	330	N 31 W		
2695.0	8.00	15.3	44	N 44 E	100	10.1	329	N 31 W		
2703.0	8.00	34.9	29	N 29 E	100	10.0	329	N 31 W		
2705.0	8.00	33.2	21	N 21 E	76	10.0	329	N 31 W		
2707.0	8.00	29.0	345	N 15 W	62	10.0	329	N 31 W		
2709.0	8.00	33.7	3	N 3 E	93	10.0	329	N 31 W		
2717.0	8.00	20.1	8	N 8 E	100	9.5	329	N 31 W		
2719.0	8.00	7.8	335	N 21 W	100	9.5	329	N 31 W		
2721.0	8.00	7.4	354	N 6 W	100	9.5	329	N 31 W		
2723.0	8.00	18.4	326	N 34 W	100	9.5	329	N 31 W		
2725.0	8.00	13.5	14	N 14 E	100	9.8	329	N 31 W		
2731.0	8.00	11.7	9	N 9 E	100	9.8	329	N 31 W		
2733.0	8.00	26.2	15	N 15 E	100	9.8	329	N 31 W		
2735.0	8.00	34.1	27	N 27 E	100	9.8	329	N 31 W		
2737.0	8.00	23.8	15	N 15 E	100	9.8	329	N 31 W		
2739.0	8.00	26.9	15	N 15 E	100	9.8	329	N 31 W		
2741.0	8.00	11.8	341	N 19 W	100	9.7	329	N 31 W		
2753.0	8.00	20.4	340	N 20 W	100	9.6	328	N 32 W		
2755.0	8.00	26.1	330	N 30 W	100	9.2	328	N 37 W		