

CC Jackson 22-17-54



## DIP LOG CALCULATIONS

COMPANY	LEADCO INC.		
WELL	C.C. JACKSON NO. 22-17		
FIELD	PITTSBURG GAS		
COUNTY	COLUMBIA	STATE	OREGON



LEADCO INC.  
 C.C. JACKSON 22-17  
 PITTSBURG GAS  
 COLUMBIA CO., OREGON  
 " MAIN "

STATISTICAL SUMMARY OF DIP LOG CALCULATIONS  
 8.0 CORRELATION INTERVAL 2.0 STEP 60.0 MAXIMUM DIP ANGLE

DEPTH INTERVAL	AVERAGE DIP ANGLE	FRACTIONAL STANDARD DEVIATION	MEAN DIP AZIMUTH	VECTOR STRENGTH	NUMBER OF SAMPLES
350 - 400	5.9 DEG.	.87	331 (N 29 W)	.82	18
400 - 450	2.9 DEG.	.77	2 (N 2 E)	.41	25
450 - 500	5.0 DEG.	.87	57 (N 57 E)	.56	24
500 - 550	5.7 DEG.	.79	17 (N 17 E)	.28	25
550 - 600	6.7 DEG.	.62	17 (N 17 E)	.64	21
600 - 650	10.4 DEG.	.84	347 (N 13 W)	.42	11
650 - 700	8.8 DEG.	.97	187 (S 7 W)	.14	24
700 - 750	7.5 DEG.	.56	77 (N 77 E)	.85	25
750 - 800	8.6 DEG.	.72	62 (N 62 E)	.59	25
800 - 850	7.9 DEG.	.81	24 (N 24 E)	.40	25
850 - 900	12.0 DEG.	.63	45 (N 45 E)	.45	23
900 - 950	10.5 DEG.	.43	25 (N 25 E)	.41	22
950 - 1000	11.8 DEG.	1.00	205 (S 25 W)	.21	20
1000 - 1050	5.7 DEG.	.66	69 (N 69 E)	.41	25
1050 - 1100	5.1 DEG.	.71	105 (S 75 E)	.44	25
1100 - 1150	4.9 DEG.	1.12	55 (N 55 E)	.46	22
1150 - 1200	7.6 DEG.	.72	100 (S 80 E)	.54	24
1200 - 1250	7.1 DEG.	.83	345 (N 15 W)	.22	25
1250 - 1300	5.3 DEG.	.87	72 (N 72 E)	.56	25
1300 - 1350	6.5 DEG.	.52	60 (N 60 E)	.53	25
1350 - 1400	8.6 DEG.	1.05	98 (S 82 E)	.75	25
1400 - 1450	4.3 DEG.	.44	102 (S 78 E)	.88	25
1450 - 1500	5.9 DEG.	.81	119 (S 61 E)	.66	25
1500 - 1550	12.2 DEG.	.72	130 (S 50 E)	.82	25
1550 - 1600	4.7 DEG.	.58	86 (N 86 E)	.90	25
1600 - 1650	5.9 DEG.	.49	115 (S 65 E)	.80	22
1650 - 1700	7.0 DEG.	.59	82 (N 82 E)	.79	25
1700 - 1750	15.9 DEG.	.41	73 (N 73 E)	.61	22
1750 - 1800	14.6 DEG.	.51	61 (N 61 E)	.68	17
1800 - 1850	12.6 DEG.	.52	77 (N 77 E)	.62	20
1850 - 1900	11.9 DEG.	.44	140 (S 40 E)	.74	23
1900 - 1950	9.9 DEG.	.59	95 (S 85 E)	.41	19
1950 - 2000	14.0 DEG.	.42	145 (S 35 E)	.77	21
2000 - 2050	12.9 DEG.	.41	113 (S 67 E)	.80	7

" REPEAT "

STATISTICAL SUMMARY OF DIP LOG CALCULATIONS  
8.0 CORRELATION INTERVAL 2.0 STEP 60.0 MAXIMUM DIP ANGLE

DEPTH INTERVAL	AVERAGE DIP ANGLE	FRACTIONAL STANDARD DEVIATION	MEAN DIP AZIMUTH	VECTOR STRENGTH	NUMBER OF SAMPLES
2000 - 2050	14.2 DEG.	.43	168 (S 12 E)	.72	25
2050 - 2100	10.9 DEG.	.29	157 (S 23 E)	.94	23
2100 - 2150	12.7 DEG.	.52	161 (S 19 E)	.91	21
2150 - 2200	10.5 DEG.	.63	145 (S 35 E)	.78	23
2200 - 2250	10.1 DEG.	.71	58 (N 58 E)	.49	16
2250 - 2300	4.6 DEG.	1.18	303 (N 57 W)	.32	17
2300 - 2350	43.9 DEG.	.14	252 (S 72 W)	.90	3

LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DIFT ANG.	DIFT AZ.	AZ. NO.1	DIA 13	DIA 24	HBL	DISPLACEMENTS H80	HLR	HBR	BASE ARM	M	
361.0	369.0	B	9.6	267	.6	182	304	8.3	8.4		-1.0		.0	1	2
363.0	371.0	R	9.3	337	.6	153	283	8.2	8.4	-.2	-1.0			1	4
365.0	373.0	A	18.7	233	.5	159	286	8.2	8.4	-.7	-.6	2.3		1	0
367.0	375.0	A	18.9	268	.6	151	270	8.5	8.4	-1.6	-1.6	2.5		1	0
371.0	379.0	A	3.3	344	.5	226	282	8.4	8.4	-.6	-.3	.5		1	0
373.0	381.0	A	3.1	358	.5	339	95	8.5	8.4	-.5	-.2	.4		1	0
375.0	383.0	A	3.0	313	.4	315	70	8.5	8.4	-.5	-.2	.4		1	0
379.0	387.0	A	3.1	341	.3	264	106	8.5	8.5	-.5	-.3	.3		1	0
381.0	389.0	A	6.2	6	.2	318	28	8.5	8.5	-.5	-.9	.3		1	0
383.0	391.0	A	6.2	9	.1	242	32	8.6	8.5	-.5	-.9	.3		1	0
385.0	393.0	A	4.2	345	.1	101	13	8.6	8.5	-.2	-.5	.2		1	0
387.0	395.0	A	4.2	338	.3	123	354	8.6	8.5	-.2	-.5	.1		1	0
389.0	397.0	A	3.6	348	.5	107	334	8.5	8.5	.1	-.4	.1		1	0
391.0	399.0	A	3.0	342	.7	101	316	8.5	8.5	.2	-.3	.2		1	0
393.0	401.0	A	3.6	329	.8	94	296	8.4	8.5	.3	-.3	.3		1	0
395.0	403.0	A	3.4	318	1.0	84	273	8.5	8.5	.3	-.2	.4		1	0
397.0	405.0	A	2.9	322	1.1	71	242	8.4	8.4	.3	.0	.4		1	0
399.0	407.0	A	.7	13	1.2	56	219	8.4	8.4	.1	.2	.0		1	0
401.0	409.0	R	.5	28	1.0	44	196	8.4	8.4	.2	.2	.1		1	0
403.0	411.0	R	1.4	54	1.0	42	182	8.4	8.4	.3	.3	.2		1	0
405.0	413.0	A	1.2	22	.9	42	172	8.4	8.3	.2	.3	.2		1	0
407.0	415.0	A	1.0	266	.9	33	159	8.4	8.3	.2	.1	.1		1	0
409.0	417.0	A	3.0	269	.8	25	151	8.4	8.3	.3	.2	.3		1	0
411.0	419.0	A	3.8	261	.7	20	143	8.5	8.3	.4	.2	.4		1	0
413.0	421.0	A	5.9	255	.6	8	133	8.5	8.3	.6	.3	.7		1	0
415.0	423.0	A	7.7	256	.7	11	125	8.4	8.3	.7	.5	.9		1	0
417.0	425.0	A	3.5	339	.7	11	123	8.4	8.3	.6	.5	.2		1	0
419.0	427.0	A	3.2	352	.7	9	120	8.5	8.3	.1	.4	.4		1	0
421.0	429.0	A	3.0	352	.6	205	116	8.5	8.3	.0	.4	.3		1	0
423.0	431.0	A	2.6	358	.6	1	113	8.6	8.3	-.2	.3	.4		1	0
425.0	433.0	A	2.5	326	.6	355	108	8.6	8.3	-.1	.4	.2		1	0
427.0	435.0	A	10.4	16	.5	347	97	8.6	8.2	-.5	.2	1.6		1	0
429.0	437.0	A	1.6	108	.4	336	84	8.5	8.2	-.3	-.2	.0		1	0
431.0	439.0	A	2.1	95	.2	351	74	8.4	8.0	-.3	-.3	.0		1	0
433.0	441.0	A	2.1	88	.2	110	71	8.3	8.1	-.3	-.3	.0		1	0
435.0	443.0	A	2.0	74	.1	47	70	8.5	8.4	-.2	-.3	.0		1	0
437.0	445.0	A	1.8	152	.1	113	57	8.6	8.5	.0	.0	.3		1	0
439.0	447.0	A	1.2	107	.2	132	37	8.6	8.4	.0	.0	.2		1	0
441.0	449.0	A	1.3	10	.4	124	13	8.5	8.4	-.1	-.1	.1		1	0
443.0	451.0	B	2.3	353	.7	116	347	8.5	8.4	-.1	-.2	.1		1	0
445.0	453.0	R	4.0	308	.8	113	323	8.5	8.3	-.3	-.4	.1		1	0
447.0	455.0	R	2.3	320	.9	105	302	8.5	8.3	.0				1	3
449.0	457.0	A	1.5	47	1.0	90	283	8.4	8.2	.4	.2	.2		1	0
451.0	459.0	A	1.7	41	1.0	82	270	8.2	8.2	.4	.3	.2		1	0
453.0	461.0	A	2.1	44	1.0	79	264	8.5	8.6	.5	.3	.3		1	0
455.0	463.0	A	1.8	45	1.0	75	255	8.5	8.7	.5	.3	.2		1	0
457.0	465.0	A	2.1	62	1.0	72	245	8.4	8.4	.5	.4	.0		1	0
459.0	467.0	A	2.4	51	1.0	68	238	8.5	8.4	.5	.5	.0		1	0
461.0	469.0	A	.8	38	1.0	64	224	8.6	8.4	.3	.2	.0		1	0
463.0	471.0	A	.5	153	.9	55	211	8.6	8.5	.0	.1	.1		1	0
465.0	473.0	A	.7	133	.9	47	199	8.6	8.5	.0	.1	.2		1	0
467.0	475.0	R	17.0	14	.8	35	185	8.6	8.6	.7	2.7	.0		1	0
469.0	477.0	A	11.3	50	.7	6	168	8.6	8.6	.0	1.2	1.3		1	0
471.0	479.0	A	10.3	41	.8	29	154	8.5	8.5	-.1	1.1	1.3		1	0
473.0	481.0	A	9.7	29	.7	19	145	8.5	8.4	-.1	.9	1.2		1	0

LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRIFT ANG.	DRIFT AZ.	AZ. NO.1	DIA 13	DIA 24	HBL	H80	HLR	HBR	BASE ARM	H	
475.0	483.0	A	9.4	33	.7	10	128	8.7	8.5	-.3	.5	1.4		1	0
477.0	485.0	B	6.5	59	.6	6	110	8.7	8.5	-1.1	-.4	1.0		1	0
481.0	489.0	B	6.3	330	.4	352	80	8.7	8.5	-.1			.7	1	3
483.0	491.0	B	3.3	125	.3	344	69	8.7	8.5	-.3	.4	.3		1	0
485.0	493.0	B	8.5	142	.2	347	56	8.7	8.5	-.4	-.4	-1.2		1	0
487.0	495.0	B	2.8	65	.1	355	39	8.7	8.5	.0	-.4	.0		1	0
489.0	497.0	C	.2	38	.1	92	30	8.4	8.3	.3	-.1	.0		1	0
491.0	499.0	C	2.8	268	.3	119	27	8.5	8.3	.0	.3	.2		1	0
493.0	501.0	B	3.0	247	.4	121	20	8.5	8.5	.1	.3			1	4
495.0	503.0	B	1.6	1	.5	118	102	8.6	8.5	.8	-.2	-.1		1	0
497.0	505.0	B	8.2	101	.7	110	343	8.6	8.5	.4	.5			1	4
499.0	507.0	B	5.4	146	.8	107	332	8.6	8.5	.6	.9			1	4
501.0	509.0	B	6.0	197	.9	98	322	8.5	8.5	.9	.7	.6		1	0
503.0	511.0	C	4.5	148	.9	100	309	8.5	8.5	.3	.8			1	4
505.0	513.0	C	8.9	209	.9	43	295	8.5	8.4	.2	.2	.7		1	2
507.0	515.0	C	1.8	280	1.1	90	276	8.5	8.4	.1	-.1	.0		1	2
509.0	517.0	B	6.0	181	1.1	84	263	8.4	8.4	.2	.2	.6		1	2
511.0	519.0	B	1.3	325	1.1	79	253	8.5	8.4	.6	.0	-.2		1	0
513.0	521.0	C	16.2	357	1.0	75	248	8.5	8.3	1.3	.5	-2.4		1	0
515.0	523.0	C	4.7	360	1.2	62	235	8.5	8.3	.2	.4		-.1	1	2
517.0	525.0	B	7.4	135	.9	68	230	8.5	8.4	.1	.5	1.1		1	0
519.0	527.0	D	9.1	112	.8	87	221	8.6	8.4	.1	.8	1.3		1	0
521.0	529.0	C	11.8	111	1.0	78	203	8.6	8.4	.0	.6	1.8		1	0
523.0	531.0	A	12.2	315	.9	42	190	8.6	8.4	1.2	.9	-1.6		1	0
525.0	533.0	B	15.4	192	.8	27	175	8.6	8.4	1.6	2.2	-1.1		1	0
527.0	535.0	C	.5	272	1.0	30	161	8.6	8.4	1.2	.1	.0		1	0
529.0	537.0	C	.7	21	.8	24	149	8.6	8.4	1.2	.1	.2		1	0
531.0	539.0	B	2.6	3	.7	24	130	8.6	8.4	1.3	.4	.4		1	0
533.0	541.0	A	3.9	323	.6	18	115	8.6	8.4	.0	.6	.2		1	0
535.0	543.0	A	1.1	36	.6	12	102	8.5	8.4	.0	.0	.2		1	0
537.0	545.0	A	1.7	21	.4	33	91	8.6	8.5	.0	.0	.3		1	0
539.0	547.0	A	1.2	8	.2	28	77	8.6	8.5	.0	.0	.2		1	0
541.0	549.0	B	3.8	6	.1	354	65	8.4	8.5	1.2	.2	.6		1	0
543.0	551.0	B	7.2	348	.0	131	53	8.6	8.5	1.2	.2	1.1		1	0
545.0	553.0	B	4.5	81	.1	73	42	8.6	8.5	1.2	.7	.3		1	0
547.0	555.0	A	4.7	62	.5	200	35	8.5	8.5	1.1	.7	-.2		1	0
549.0	557.0	A	4.5	31	1.0	126	23	8.7	8.5	1.1	.7	-.2		1	0
551.0	559.0	A	4.9	20	.7	91	5	8.6	8.5	1.1	.7	-.2		1	0
553.0	561.0	A	2.8	13	.5	120	350	8.6	8.5	.3	.3	.7		1	0
555.0	563.0	B	.7	115	.8	107	332	8.6	8.5	.5	.2	-.2		1	0
557.0	565.0	A	4.0	33	.9	96	315	8.6	8.5	.5	.1	-.6		1	0
559.0	567.0	B	10.5	36	1.0	65	296	8.6	8.5	.2	.2	-1.6		1	0
561.0	569.0	A	12.9	27	1.1	68	283	8.6	8.5	.3	.4	-1.9		1	0
563.0	571.0	B	11.6	6	1.2	84	268	8.5	8.5	.1	.2	-1.7		1	0
565.0	573.0	C	9.7	5	1.2	75	252	8.6	8.5	.8	.6	-1.4		1	0
567.0	575.0	B	8.8	357	1.1	68	236	8.6	8.4	.7	.5	-.7		1	0
577.0	585.0	C	16.1	25	.9	23	146	8.7	8.5	.0			1.8	1	3
579.0	587.0	B	8.4	52	.8	23	124	8.7	8.4	-.8	.0	1.4		1	0
581.0	589.0	B	8.5	34	.8	14	113	8.7	8.4	-.8	.1	1.4		1	0
583.0	591.0	B	4.7	348	.7	6	98	8.6	8.4	-.3	.4	.6		1	0
585.0	593.0	B	5.1	329	.5	19	65	8.6	8.5	-.3	.5	.6		1	0
587.0	595.0	B	10.4	265	.3	24	74	8.5	8.5	.3	1.5	-.2		1	0
589.0	597.0	B	6.1	252	.3	33	65	8.6	8.5	.2	.9	-.1		1	0
591.0	599.0	B	2.6	259	.1	57	35	8.6	8.5	.7	.4	.1		1	0
593.0	601.0	B	.0	0	.5	259	46	8.6	8.5	.3	.0	.0		1	0

LEADCOR INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRIFT ANG.	DRIFT AZ.	AZ. NO.1	DTA 13	DIA 24	HBL	DISPLACEMENTS			BASE ARM	M
										H80	HLR	HHR		
595.0	603.0	A	3.1	52	.2	189	32	8.5	8.4	.0	-.4	.0		1 0
597.0	605.0	B	4.6	74	.4	116	18	8.6	8.5	.0	-.4	-.6		1 0
599.0	607.0	B	7.1	73	.5	105	5	8.6	8.5	.0	-.5	-1.0		1 0
601.0	609.0	B	7.3	22	.5	85	351	8.6	8.5	.1	-1.0	-.5		1 0
603.0	611.0	B	13.0	26	.7	95	337	8.6	8.5	.1	-1.5	-1.3		1 0
605.0	613.0	B	.5	82	.7	67	326	8.6	8.5	.1			.0	1 3
607.0	615.0	D	6.9	285	.8	82	319	8.6	8.5	-.6			.0	1 3
633.0	641.0	D	19.6	35	.9	18	167	8.5	8.3	.3			2.2	1 3
635.0	643.0	C	13.2	312	.9	15	151	8.6	8.3	.6	1.8	-.9		1 0
637.0	645.0	D	10.1	281	.8	306	134	8.6	8.4		1.1		.0	1 2
639.0	647.0	C	5.2	257	1.0	9	118	8.6	8.4	-.1	.4	-.5		1 0
641.0	649.0	B	.9	233	.6	12	110	8.6	8.4	-.4	.0	.0		1 0
643.0	651.0	C	7.1	10	.8	14	102	8.6	8.3	-.3			.8	1 3
649.0	657.0	D	31.0	60	.6	17	101	8.6	8.3		-2.5		1.0	1 2
653.0	661.0	D	8.2	342	.4	7	93	8.5	8.3	-.2			.8	1 3
655.0	663.0	D	10.6	322	.3	1	74	8.5	8.2	.0			.8	1 3
657.0	665.0	C	10.4	288	.3	346	66	8.4	8.1		1.4		1.0	1 2
659.0	667.0	C	20.6	333	.3	16	62	8.6	8.4		.9		2.0	1 2
661.0	669.0	C	15.3	298	.2	154	53	8.6	8.4		1.7		1.6	1 2
663.0	671.0	C	39.5	326	.2	10	49	8.6	8.3	-2.6	1.5			1 2
665.0	673.0	D	1.5	23	.2	348	47	8.6	8.1	-.2			.0	1 3
667.0	675.0	D	5.9	30	.4	32	41	8.5	8.4	-.6			-.2	1 3
669.0	677.0	B	1.8	159	.3	11	30	8.6	8.5	-.2	.1	-.3		1 0
671.0	679.0	A	1.4	212	.2	58	15	8.6	8.5	.0	.2	.0		1 0
673.0	681.0	A	.8	204	.3	120	200	8.6	8.5	.1	.1	.0		1 0
675.0	683.0	A	1.1	170	.5	91	329	8.6	8.5	.2	.2	.0		1 0
677.0	685.0	A	1.0	173	.6	80	311	8.6	8.5	.2	.2	.0		1 0
679.0	687.0	B	12.8	298	.7	72	243	8.6	8.5	-.1	-1.8	-.1		1 0
681.0	689.0	D	.8	176	.9	64	273	8.6	8.5	-.1	.2	.1		1 0
683.0	691.0	D	8.5	231	1.0	61	252	8.6	8.5	-.4	-1.0	.6		1 0
685.0	693.0	C	6.6	278	1.1	52	236	8.6	8.5	-.2	-.7	-.5		1 0
687.0	695.0	B	6.0	137	1.0	48	226	8.6	8.5	.3	.3	.9		1 0
689.0	697.0	A	7.1	131	1.3	50	207	8.5	8.5	.1	.1	1.1		1 0
691.0	699.0	A	6.9	118	1.4	33	192	8.4	8.3	.0	.1	1.1		1 0
693.0	701.0	A	6.3	108	1.2	123	183	8.6	8.4	.0	.2	1.0		1 0
695.0	703.0	A	7.4	86	1.2	30	172	8.6	8.4	.3	.4	1.2		1 0
697.0	705.0	D	17.3	145	1.1	37	175	8.6	8.5	-.1	.8		.2	1 3
699.0	707.0	D	12.4	150	1.1	34	159	8.6	8.4	-.1	.2		.5	1 3
701.0	709.0	D	13.6	137	.8	11	140	8.6	8.4	-.3			.5	1 3
703.0	711.0	D	17.2	147	.7	354	122	8.6	8.4	-.1	-2.5	-.5		1 0
705.0	713.0	C	14.1	89	.6	345	106	8.6	8.4	-.5			.3	1 3
707.0	715.0	C	16.7	65	.4	340	90	8.5	8.3	-.8			.1	1 3
709.0	717.0	C	12.9	57	.3	8	82	8.5	8.3	-.4			.0	1 3
711.0	719.0	B	7.0	351	.4	350	75	8.5	8.4	-.0	.2	1.1		1 0
713.0	721.0	B	9.1	31	1.3	267	68	8.5	8.4	-.5	.8	1.0		1 0
715.0	723.0	B	2.9	94	.1	268	51	8.5	8.4	.1	.3	1.2		1 0
717.0	725.0	B	5.0	93	.0	107	35	8.5	8.4	-.1	.6	1.5		1 0
719.0	727.0	B	5.1	72	.2	94	20	8.5	8.4	-.2	.5	1.6		1 0
721.0	729.0	B	5.3	59	.2	83	8	8.5	8.4	-.2	.5	1.6		1 0
723.0	731.0	B	6.3	46	.3	125	358	8.5	8.4	-.4	.6	1.6		1 0
725.0	733.0	B	4.2	78	.5	183	344	8.5	8.4	.2	.0	.7		1 0
727.0	735.0	A	4.9	86	.6	114	333	8.5	8.4	.7	.2	.8		1 0
729.0	737.0	B	5.3	71	.8	80	321	8.4	8.3	.7	.2	.8		1 0
731.0	739.0	A	6.5	77	.8	75	306	8.4	8.0	.8	.6	.9		1 0
733.0	741.0	A	5.7	51	.8	60	292	8.3	8.0	.6	.4	.8		1 0

LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	HBL	H80	HLR	HBR	BASE ARM	M
735.0	743.0	A	5.1	41	1.0	65	274	8.0	8.1	.5	.4	-.7		1 0
737.0	745.0	A	3.5	65	1.0	68	268	8.1	8.5	.4	.5	-.4		1 0
739.0	747.0	A	2.9	50	1.0	59	261	8.2	8.5	.2	.4	-.3		1 0
741.0	749.0	A	3.5	77	1.0	52	253	8.4	8.5	.3	.7	-.1		1 0
743.0	751.0	A	9.1	103	1.1	50	237	8.5	8.5	.1	1.2	.8		1 0
745.0	753.0	A	9.7	103	1.0	44	224	8.5	8.5	.1	1.1	1.1		1 0
747.0	755.0	A	5.9	120	1.0	37	209	8.4	8.4	.4	.3	.9		1 0
749.0	757.0	A	6.2	105	1.1	33	196	8.4	8.4	.4	.3	.4		1 0
751.0	759.0	A	5.8	95	.9	18	184	8.6	8.4	.6	.2	.9		1 0
753.0	761.0	A	4.0	92	.9	24	166	8.6	8.5	.4	.0	.7		1 0
755.0	763.0	C	17.9	27	.8	8	151	8.6	8.4	.1	2.1	2.0		1 0
757.0	765.0	A	3.1	56	.8	7	131	8.6	8.5	.3	.0	.6		1 0
759.0	767.0	B	4.8	5	.8	152	111	8.6	8.5	.1	.4	.7		1 0
761.0	769.0	C	4.2	13	.6	349	93	8.5	8.5	.3	.1			1 4
763.0	771.0	C	5.6	94	.5	332	78	8.6	8.5	.4	.8			1 4
765.0	773.0	C	9.7	70	.2	332	62	8.5	8.4	.9	1.4			1 4
767.0	775.0	C	28.1	359	.1	54	47	8.5	8.5	3.0	1.9			1 4
769.0	777.0	B	8.0	72	.2	113	35	8.5	8.5	.0	1.1	.4		1 0
771.0	779.0	B	4.7	66	.3	43	22	8.5	8.5	.6	.6	.4		1 0
773.0	781.0	B	6.1	98	.2	47	8	8.6	8.5	.8	.2	.9		1 0
775.0	783.0	D	11.6	81	.2	73	358	8.5	8.4	.0	.5	1.7		1 0
777.0	785.0	D	10.1	81	.4	62	347	8.5	8.4	1.2	.0	1.6		1 0
779.0	787.0	C	10.4	261	.7	75	334	8.6	8.5	.2	.2		.6	1 2
781.0	789.0	D	14.0	41	.4	118	318	8.5	8.5	.6	.5	2.1		1 0
783.0	791.0	A	1.7	332	.7	77	302	8.6	8.5	.4	.2	.1		1 0
785.0	793.0	A	2.4	307	.7	72	289	8.6	8.5	.2	.3	.1		1 0
787.0	795.0	A	3.5	189	.6	99	275	8.5	8.5	.1	.2	.9		1 0
789.0	797.0	B	1.8	134	.9	58	262	8.5	8.5	.3	.3	.2		1 0
791.0	799.0	B	5.2	148	.9	51	249	8.4	8.5	.2	.4	.7		1 0
793.0	801.0	A	17.9	82	.9	45	232	8.5	8.5	1.9	2.7	.9		1 0
795.0	803.0	A	11.3	64	.9	34	215	8.5	8.5	1.0	1.8	.5		1 0
797.0	805.0	A	11.2	51	1.0	26	202	8.4	8.4	1.0	1.8	.5		1 0
799.0	807.0	A	11.2	38	1.1	16	190	8.5	8.4	.7	1.7	.7		1 0
801.0	809.0	A	7.7	3	1.0	6	171	8.6	8.4	.2	1.3	.2		1 0
803.0	811.0	B	7.7	55	.8	3	147	8.6	8.5	.4	.4	1.2		1 0
805.0	813.0	A	7.5	30	.7	356	126	8.6	8.4	.4	.4	1.2		1 0
807.0	815.0	A	5.4	73	.6	320	100	8.6	8.4	.5	.5	.7		1 0
809.0	817.0	B	4.2	127	.5	343	80	8.5	8.5	.0	.5	.2		1 0
811.0	819.0	A	6.2	100	.6	339	61	8.5	8.5	.2	.9	.3		1 0
813.0	821.0	A	4.0	88	.3	294	44	8.5	8.5	.0	.5	.2		1 0
815.0	823.0	A	2.7	55	.3	326	32	8.4	8.5	.0	.4	.0		1 0
817.0	825.0	A	2.4	35	.1	265	18	8.4	8.5	.1	.4	.1		1 0
819.0	827.0	A	1.7	17	.2	73	4	8.5	8.4	.0	.2	.1		1 0
821.0	829.0	B	2.6	57	.3	81	356	8.4	8.2	.2	.3	.3		1 0
823.0	831.0	C	25.9	238	.3	85	349	8.2	8.3	.2			2.8	1 3
825.0	833.0	B	24.9	238	.5	63	351	8.1	8.3	.0	2.5	2.8		1 0
827.0	835.0	C	3.8	261	.3	61	351	8.2	8.3	.2	.1			1 4
829.0	837.0	C	2.3	282	.6	74	346	8.4	8.4	.2	.0			1 4
831.0	839.0	B	4.1	13	.3	63	343	8.5	8.4	.0	.5	.2		1 0
833.0	841.0	B	9.5	2	.4	156	337	8.5	8.4	.2	1.4	.3		1 0
835.0	843.0	B	7.4	352	.7	94	330	8.5	8.4	.1	1.1	.2		1 0
837.0	845.0	B	14.5	173	.4	71	327	8.5	8.4	.9			1.3	1 3
839.0	847.0	B	14.7	167	.4	79	324	8.5	8.4	1.0			1.3	1 3
841.0	849.0	A	.9	285	.5	83	318	8.4	8.4	.9	.0	.0		1 0
843.0	851.0	B	9.5	359	.6	87	309	8.4	8.4	.0	1.1	.9		1 0

LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO. 1	DIA 13	DIA 24	HBL	HBO	HLR	HHR	BASE ARM	M
845_0	853_0	D	10.6	10	.7	67	301	8.5	8.4	.0	-.9	-1.3	1	0
847_6	855_0	C	9.0	15	.5	80	294	8.4	8.4	-.2	-.5	-1.3	1	0
849_0	857_0	C	9.1	6	.5	91	289	8.6	8.5	.1	-.5	-1.3	1	0
851_0	859_0	R	6.3	74	.7	54	282	8.5	8.4	.0	.8	-.7	1	0
853_0	861_0	A	.7	137	.7	60	275	8.4	8.4	-.5	.2	.0	1	0
855_0	863_0	B	.4	128	.6	56	273	8.4	8.4	-.3	.1	.0	1	0
857_0	865_0	H	2.3	192	.6	51	271	8.5	8.4	-.3	.1	.3	1	0
859_0	867_0	R	8.2	33	.8	54	265	8.5	8.4	.5	.5	.3	1	2
861_0	869_0	C	24.2	51	.8	45	260	8.5	8.4	2.8	.8	.1	1	3
863_0	871_0	C	14.4	142	.8	34	259	8.4	8.4	-.1	1.6	1.5	1	0
865_0	873_0	C	20.2	147	.9	33	258	8.4	8.4	-.3	1.8	.8	1	4
867_0	875_0	C	10.4	298	1.0	33	250	8.5	8.4	.0	-1.1	.8	1	4
869_0	877_0	R	8.5	359	1.0	40	239	8.5	8.4	1.3	.5	-1.2	1	0
871_0	879_0	R	10.9	341	1.0	35	228	8.5	8.4	1.7	.4	-1.6	1	0
873_0	881_0	B	7.7	337	.8	32	220	8.5	8.4	1.7	.4	-1.1	1	0
875_0	883_0	R	5.5	30	.9	22	211	8.5	8.4	1.2	.9	-.2	1	0
877_0	885_0	R	9.8	98	.6	19	206	8.4	8.3	.0	1.0	1.2	1	0
879_0	887_0	B	17.0	112	.8	21	200	8.7	8.4	.0	1.0	2.4	1	0
881_0	889_0	A	8.3	95	.9	21	201	8.5	8.4	.0	.8	1.0	1	0
883_0	891_0	A	9.4	92	1.1	19	199	8.4	8.4	.0	.9	1.1	1	0
889_0	897_0	C	26.0	355	.9	13	183	8.2	8.2	2.8	.8	.8	1	3
891_0	899_0	C	26.3	352	1.0	5	179	8.4	8.3	2.8	.8	.8	1	3
893_0	901_0	C	20.9	0	1.0	9	174	8.4	8.3	1.9	.8	.8	1	3
895_0	903_0	C	11.7	346	.8	11	170	8.4	8.4	1.1	.6	.6	1	3
897_0	905_0	R	14.0	8	.6	206	163	8.3	8.1	1.2	2.2	.3	1	0
899_0	907_0	R	11.8	13	1.0	349	157	8.2	8.1	1.0	1.9	.6	1	0
901_0	909_0	C	11.6	14	1.0	348	155	8.2	8.2	.6	1.7	.7	1	0
903_0	911_0	C	5.6	353	.9	352	149	8.2	8.2	.4	.8	.8	1	3
905_0	913_0	C	17.3	14	.8	350	141	8.3	8.2	.2	.8	.8	1	3
907_0	915_0	C	13.5	22	1.0	329	127	8.3	8.3	-.3	.8	.8	1	3
911_0	919_0	A	12.4	339	.8	319	118	8.4	8.3	-.3	1.8	.8	1	0
913_0	921_0	A	11.6	13	.8	323	113	8.4	8.2	-.1	.9	1.6	1	0
915_0	923_0	A	9.8	12	.8	323	107	8.3	8.2	-.1	.6	1.4	1	0
917_0	925_0	A	6.5	13	.7	323	101	8.6	8.5	.0	.3	1.0	1	0
919_0	927_0	A	6.1	80	.7	320	91	8.4	8.4	-.2	.7	.5	1	0
921_0	929_0	A	10.5	96	.6	308	78	8.3	8.3	-.4	-1.5	.1	1	0
923_0	931_0	A	9.7	84	.5	303	65	8.6	8.4	-.4	-1.4	.1	1	0
925_0	933_0	A	11.0	85	.3	329	58	8.7	8.4	-.3	-1.6	-.1	1	0
927_0	935_0	C	5.2	248	.5	309	56	8.7	8.4	.8	.8	.8	1	2
929_0	937_0	C	16.1	288	.7	305	54	8.6	8.4	2.0	.8	.8	1	2
931_0	939_0	C	17.5	289	.5	302	49	8.6	8.4	2.1	.8	.8	1	2
933_0	941_0	C	18.8	276	.6	300	44	8.6	8.5	2.4	.8	.8	1	2
935_0	943_0	C	16.9	260	.4	296	38	8.6	8.5	2.4	.8	.8	1	2
939_0	947_0	R	4.9	195	.2	237	9	8.6	8.5	.0	.8	.0	1	0
941_0	949_0	A	6.6	87	.1	235	152	8.6	8.5	.1	-.2	-1.0	1	0
943_0	951_0	A	6.8	83	.1	93	352	8.6	8.5	.3	-.2	-1.0	1	0
945_0	953_0	A	6.7	72	.3	132	345	8.6	8.4	.1	-.2	-1.0	1	0
947_0	955_0	R	6.3	69	.3	138	336	8.6	8.4	.3	-.1	-1.0	1	0
951_0	959_0	C	30.7	157	.4	68	320	8.6	8.4	2.1	.8	.8	1	3
955_0	963_0	C	25.2	294	.6	53	294	8.4	8.1	-2.3	.8	.8	1	3
957_0	965_0	C	25.5	288	.8	56	287	8.3	8.3	-2.4	.8	.8	1	3
959_0	967_0	C	19.5	308	.7	61	281	8.4	8.4	.8	.8	.8	1	2
961_0	969_0	C	24.9	237	.8	43	278	8.6	8.5	-2.7	-2.3	.8	1	4
963_0	971_0	D	39.2	181	1.0	34	267	8.6	8.5	-2.4	1.1	.8	1	4
965_0	973_0	B	5.0	74	.8	54	258	8.6	8.5	.0	.6	-.1	1	0



LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRIFT ANG.	DRIFT AZ.	AZ. NO. 1	DIA 13	DIA 24	HOL	DISPLACEMENTS HOB	HLP	HBR	BASE ARM	M	
967.0	975.0	A	2.8	74	.9	66	245	8.6	8.5	.2	.5	.0	1	0	
969.0	977.0	A	2.8	63	.8	43	237	8.6	8.5	.2	.5	.0	1	0	
971.0	979.0	A	2.7	56	.8	37	223	8.6	8.5	.2	.5	.0	1	0	
973.0	981.0	D	2.6	57	.7	31	218	8.7	8.5	.5	.5	.0	1	0	
975.0	983.0	C	12.5	89	1.0	36	212	8.6	8.5	.0	2.1	.0	1	4	
985.0	993.0	B	4.0	259	.9	351	164	8.5	8.5	.8	.0	.6	1	0	
987.0	995.0	B	4.0	254	.9	357	161	8.5	8.5	.6	.0	.5	1	0	
989.0	997.0	B	6.8	204	1.1	358	163	8.5	8.4	.4	.7	.4	1	0	
991.0	999.0	B	2.8	201	1.0	354	151	8.5	8.4	.2	.2	.1	1	0	
993.0	1001.0	A	3.0	199	1.0	351	147	8.5	8.4	.2	.3	.1	1	0	
995.0	1003.0	A	3.3	181	1.0	345	146	8.7	8.4	.2	.3	.1	1	0	
997.0	1005.0	B	1.0	298	.8	342	135	8.5	8.4	.7	.2	.0	1	0	
999.0	1007.0	D	12.0	201	.7	339	120	8.4	8.3	.3	.3	.0	-1.1	1	3
1001.0	1009.0	D	10.4	204	.7	338	119	8.4	8.4	.5	.5	.0	-.9	1	3
1003.0	1011.0	D	15.6	106	.7	322	109	8.6	8.6	-1.4	.0	.0	-.8	1	3
1005.0	1013.0	C	11.2	88	.6	309	88	8.6	8.5	-1.5	-1.6	.6	.0	1	0
1007.0	1015.0	D	9.7	66	.5	312	72	8.6	8.5	-1.5	-1.3	.6	.0	1	0
1009.0	1017.0	C	6.5	22	.5	314	55	8.6	8.5	-1.5	-.6	.8	.0	1	0
1011.0	1019.0	R	3.7	65	.4	291	38	8.6	8.6	-.1	-.5	.0	.0	1	0
1013.0	1021.0	B	4.1	83	.2	301	24	8.6	8.6	.0	-.5	.4	.0	1	0
1015.0	1023.0	B	4.8	53	.1	287	14	8.6	8.6	.4	-.6	.3	.0	1	0
1017.0	1025.0	B	5.1	22	.2	193	4	8.6	8.6	.4	-.8	.2	.0	1	0
1019.0	1027.0	B	1.3	336	.4	39	354	8.6	8.6	.3	-.2	.0	.0	1	0
1021.0	1029.0	A	3.8	44	.4	49	343	8.6	8.6	.0	-.3	.5	.0	1	0
1023.0	1031.0	A	4.0	40	.5	81	331	8.6	8.6	.2	-.3	.6	.0	1	0
1025.0	1033.0	A	4.2	32	.5	86	322	8.6	8.6	.2	-.3	.6	.0	1	0
1027.0	1035.0	A	2.0	105	.5	74	313	8.6	8.6	.4	.3	.3	.0	1	0
1029.0	1037.0	A	2.7	61	.6	73	302	8.6	8.6	.5	.1	.5	.0	1	0
1031.0	1039.0	A	2.7	63	.7	74	298	8.5	8.5	.5	.2	.4	.0	1	0
1033.0	1041.0	A	2.6	55	.7	78	295	8.6	8.5	.5	.2	.4	.0	1	0
1035.0	1043.0	A	2.7	18	.7	73	289	8.6	8.5	.3	.0	.5	.0	1	0
1037.0	1045.0	B	7.8	143	.8	62	284	8.6	8.5	.2	1.1	.5	.0	1	0
1039.0	1047.0	B	9.7	222	.7	67	276	8.6	8.5	.4	.5	1.3	.0	1	0
1041.0	1049.0	B	10.6	207	.7	61	263	8.6	8.5	.3	.4	1.5	.0	1	0
1043.0	1051.0	B	7.7	219	.9	59	255	8.6	8.5	.3	.6	.9	.0	1	0
1045.0	1053.0	B	5.9	213	.7	52	248	8.6	8.5	.2	.5	.6	.0	1	0
1047.0	1055.0	B	1.3	142	.8	58	241	8.6	8.5	.0	.0	.0	.2	1	3
1049.0	1057.0	C	1.6	331	.9	46	235	8.6	8.5	.2	.0	.0	-.1	1	3
1051.0	1059.0	B	3.3	69	.8	33	226	8.6	8.5	.5	.6	.0	.0	1	0
1053.0	1061.0	B	2.4	176	1.0	36	221	8.5	8.5	.0	.0	.3	.0	1	0
1055.0	1063.0	B	2.7	182	1.0	38	224	8.5	8.5	.0	.0	.4	.0	1	0
1057.0	1065.0	A	2.6	167	1.1	50	234	8.6	8.7	.0	.1	.4	.0	1	0
1059.0	1067.0	A	3.9	80	.8	48	232	8.6	8.5	.2	.7	.1	.0	1	0
1061.0	1069.0	B	3.3	132	.7	43	221	8.6	8.5	.3	.3	.5	.0	1	0
1063.0	1071.0	B	3.7	128	1.0	41	216	8.4	8.4	.3	.3	.5	.0	1	0
1065.0	1073.0	B	4.9	132	1.0	37	211	8.6	8.4	.5	.2	.7	.0	1	0
1067.0	1075.0	C	5.4	194	.8	38	208	8.6	8.4	.0	.6	.0	.0	1	2
1069.0	1077.0	C	14.1	160	.9	33	208	8.6	8.5	.0	.9	.0	.5	1	2
1071.0	1079.0	B	8.3	127	.9	28	203	8.6	8.5	-1.5	.0	1.3	.0	1	0
1073.0	1081.0	A	2.0	23	.9	15	185	8.6	8.5	.2	.4	.0	.0	1	0
1075.0	1083.0	A	2.1	7	.8	5	172	8.5	8.4	.2	.4	.0	.0	1	0
1077.0	1085.0	B	4.5	57	.8	4	165	8.6	8.4	.4	.4	.6	.0	1	0
1079.0	1087.0	B	5.2	59	.9	10	152	8.6	8.4	.2	.4	.8	.0	1	0
1081.0	1089.0	C	8.6	180	.6	346	143	8.7	8.4	.4	-1.2	.0	.0	1	4
1083.0	1091.0	C	8.4	179	.5	325	134	8.7	8.4	.3	-1.1	.0	.0	1	4

LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CURR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO. 1	DIA 13	DIA 24	HBL	HBO	HLR	HBR	BASE ARM	M
1085.0	1093.0	B	2.9	76	.6	341	129	8.7	8.4	.0	.1	.4	1	0
1087.0	1095.0	B	2.5	107	.6	324	123	8.7	8.5	.0	.2	.2	1	0
1089.0	1097.0	C	7.9	8	.6	322	116	8.7	8.5	.4	.7	1.0	1	0
1091.0	1099.0	C	4.2	287	.6	316	108	8.7	8.5	.6	.7	.1	1	0
1093.0	1101.0	C	15.5	19	.8	331	101	8.6	8.5	.6	.3	2.4	1	0
1095.0	1103.0	C	2.2	338	.6	312	88	8.6	8.5	.3	.3	.4	1	0
1097.0	1105.0	B	2.8	90	.8	295	73	8.6	8.5	.4	.4	.1	1	0
1099.0	1107.0	B	3.0	93	.9	316	63	8.6	8.5	.3	.4	.0	1	0
1101.0	1109.0	A	4.4	346	.6	289	48	8.6	8.5	.0	.1	.7	1	0
1103.0	1111.0	A	4.5	332	.2	290	33	8.6	8.5	.0	.0	.7	1	0
1105.0	1113.0	A	4.6	324	.3	288	29	8.6	8.5	.0	.0	.7	1	0
1107.0	1115.0	A	4.8	318	.3	272	27	8.6	8.6	.0	.1	.7	1	0
1109.0	1117.0	B	9.9	53	.3	244	19	8.6	8.6	.3	-1.3	.6	1	0
1111.0	1119.0	H	4.8	72	.2	216	7	8.6	8.5	.0	.4	.6	1	0
1113.0	1121.0	B	5.0	36	.2	178	359	8.6	8.5	.4	.7	.3	1	0
1115.0	1123.0	B	1.7	21	.3	176	356	8.6	8.5	.3	.2	.1	1	0
1117.0	1125.0	A	1.7	94	.3	168	351	8.6	8.5	.1	.1	.3	1	0
1119.0	1127.0	A	1.7	82	.4	130	341	8.6	8.5	.1	.0	.3	1	0
1121.0	1129.0	A	1.7	75	.4	125	334	8.6	8.5	.2	.0	.3	1	0
1123.0	1131.0	A	2.0	70	.4	114	326	8.6	8.5	.2	.0	.3	1	0
1125.0	1133.0	A	3.3	74	.4	98	320	8.7	8.5	.7	.1	.5	1	0
1127.0	1135.0	A	4.6	84	.5	84	312	8.7	8.5	.8	.4	.7	1	0
1129.0	1137.0	A	4.4	76	.6	80	304	8.6	8.5	.8	.4	.6	1	0
1131.0	1139.0	A	3.7	58	.6	75	298	8.7	8.5	.7	.3	.6	1	0
1133.0	1141.0	C	4.6	356	.6	89	289	8.7	8.5	.2	.3	.6	1	0
1135.0	1143.0	D	3.5	280	.7	90	275	8.6	8.5	.2	.2	.6	1	0
1143.0	1151.0	C	27.8	105	.9	58	247	8.6	8.5	1.3	.0	.0	1	0
1145.0	1153.0	A	2.7	183	.8	49	242	8.6	8.5	.2	.0	.4	1	0
1147.0	1155.0	A	2.8	173	.7	51	238	8.6	8.5	.1	.0	.4	1	0
1149.0	1157.0	B	2.9	182	.8	45	231	8.6	8.5	.6	.1	.4	1	0
1151.0	1159.0	A	1.9	166	.9	41	224	8.6	8.5	.5	.1	.3	1	0
1153.0	1161.0	A	.8	187	1.1	43	217	8.6	8.5	.7	.1	.1	1	0
1155.0	1163.0	B	7.2	33	.9	40	215	8.6	8.5	.7	.0	.5	1	3
1157.0	1165.0	B	2.4	134	1.2	32	206	8.6	8.5	.3	.1	.4	1	0
1161.0	1169.0	D	15.6	160	.9	13	190	8.6	8.5	-1.8	-1.4	1.8	1	0
1163.0	1171.0	D	15.8	156	1.0	12	186	8.6	8.5	-1.8	-1.5	1.8	1	0
1165.0	1173.0	C	11.0	138	.8	2	187	8.6	8.5	-1.4	.7	1.5	1	0
1167.0	1175.0	C	11.8	124	.9	256	178	8.7	8.5	-1.8	.6	1.6	1	0
1169.0	1177.0	C	20.7	27	1.0	355	165	8.5	8.5	.3	3.0	1.5	1	0
1171.0	1179.0	B	17.6	6	.9	354	158	8.6	8.3	.1	2.7	.8	1	0
1173.0	1181.0	B	5.1	123	.8	348	142	8.7	8.5	.1	.5	.4	1	0
1175.0	1183.0	B	5.1	96	.7	318	127	8.6	8.4	.4	.4	.6	1	0
1177.0	1185.0	B	3.5	101	.4	289	113	8.6	8.4	.3	.4	.2	1	0
1179.0	1187.0	A	2.3	36	.5	297	99	8.6	8.4	.3	.0	.4	1	0
1181.0	1189.0	B	2.8	115	.5	313	85	8.7	8.4	.3	.4	.1	1	0
1183.0	1191.0	A	8.1	95	.3	295	71	8.7	8.5	.6	-1.2	.0	1	0
1185.0	1193.0	B	12.2	95	.4	294	61	8.7	8.4	.2	-1.8	.4	1	0
1187.0	1195.0	A	9.4	79	.4	239	54	8.7	8.4	.0	-1.4	.2	1	0
1189.0	1197.0	A	5.4	94	.2	248	46	8.8	8.5	.3	.7	.4	1	0
1191.0	1199.0	A	2.4	145	.2	252	37	8.6	8.5	.7	.0	.3	1	0
1193.0	1201.0	A	4.4	125	.2	227	29	8.6	8.5	.5	.1	.6	1	0
1195.0	1203.0	B	5.0	353	.1	256	26	8.6	8.5	.2	.5	.6	1	0
1197.0	1205.0	B	5.5	344	.1	224	24	8.5	8.5	.4	.5	.7	1	0
1199.0	1207.0	B	6.5	322	.1	88	13	8.5	8.5	.3	.5	.8	1	0
1201.0	1209.0	B	6.2	306	.2	120	1	8.6	8.5	.1	.4	.8	1	0

1000 feet  
 1000 feet  
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LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO. 1	DTA 13	DIA 24	DISPLACEMENTS				BASE ARM	H	
									HBL	HBO	HLR	HBR			
1203.0	1211.0	C	2.4	315	.3	131	347	8.6	8.5	.3	-.2	.2		1	0
1205.0	1213.0	B	7.0	215	.4	146	341	8.5	8.4	.4	-.9	.7		1	0
1207.0	1215.0	B	8.7	148	.4	136	334	8.6	8.5	.4	1.3	-.4		1	0
1209.0	1217.0	A	12.0	152	.6	112	327	8.7	8.5	1.9	1.9	-.2		1	0
1211.0	1219.0	B	10.0	150	.5	119	318	8.6	8.5	1.3	1.6	.0		1	0
1213.0	1221.0	B	12.4	126	.7	119	305	8.6	8.5	1.1				1	3
1215.0	1223.0	A	1.7	175	.5	109	293	8.6	8.5	.8	.3	.2		1	0
1217.0	1225.0	A	2.8	246	.8	76	284	8.6	8.5	.6	-.2	.3		1	0
1219.0	1227.0	A	3.7	303	.9	69	276	8.6	8.5	.0	-.4	-.2		1	0
1221.0	1229.0	B	2.1	307	.8	69	267	8.5	8.5	-.2	-.2	-.2		1	0
1223.0	1231.0	B	1.8	296	.8	61	260	8.5	8.5	.0	-.1	-.1		1	0
1225.0	1233.0	B	2.7	322	.8	74	254	8.5	8.5	.0	-.1	-.3		1	0
1227.0	1235.0	B	1.8	62	.8	67	254	8.6	8.5	.0	.3	.1		1	0
1229.0	1237.0	C	4.5	126	.8	62	253	8.6	8.5	.1				1	3
1231.0	1239.0	C	7.3	313	.8	70	252	8.4	8.4	.0				1	3
1233.0	1241.0	C	23.1	312	.7	75	249	8.5	8.5	.1	-.4			1	4
1235.0	1243.0	C	22.7	314	.7	57	244	8.6	8.5	.4	-.1			1	4
1237.0	1245.0	C	8.6	4	.6	54	243	8.6	8.5	.8	.5			1	4
1239.0	1247.0	C	13.2	353	.4	54	237	8.6	8.5	1.3	.7			1	4
1241.0	1249.0	C	4.5	355	.4	37	228	8.5	8.5		.4			1	2
1243.0	1251.0	B	6.1	75	.7	27	210	8.6	8.5	-.7	1.1	.6		1	0
1245.0	1253.0	B	7.2	67	.8	20	197	8.5	8.5	-.2	1.0	.6		1	0
1247.0	1255.0	B	2.4	63	.6	11	185	8.5	8.4	-.1	.8	.2		1	0
1249.0	1257.0	B	1.7	13	.7	358	173	8.5	8.4	.0	.4	.0		1	0
1251.0	1259.0	A	.5	7	.8	359	168	8.5	8.4	.0	.2	.0		1	0
1253.0	1261.0	B	.8	358	.8	6	161	8.6	8.4	.0	.2	.0		1	0
1255.0	1263.0	B	10.1	84	.8	342	156	8.6	8.4	-.6	.1	1.5		1	0
1257.0	1265.0	B	12.6	85	.8	349	152	8.6	8.4	-1.1	.0	1.9		1	0
1259.0	1267.0	B	14.7	55	.6	358	154	8.6	8.4	-.7	1.0	2.1		1	0
1261.0	1269.0	B	12.2	54	.8	345	148	8.6	8.4	-.3	.7	1.8		1	0
1263.0	1271.0	B	17.4	55	.7	341	141	8.6	8.4	-.2	.6	2.6		1	0
1265.0	1273.0	B	7.4	342	.6	333	133	8.6	8.4	.5	1.2	.3		1	0
1267.0	1275.0	B	2.7	325	.6	317	120	8.6	8.4	.2	.5	.1		1	0
1269.0	1277.0	B	.8	178	.7	332	109	8.6	8.4	.5	.0	.0		1	0
1271.0	1279.0	B	2.3	160	.6	324	95	8.6	8.4	.7	-.2	-.2		1	0
1273.0	1281.0	B	1.4	100	.4	295	84	8.6	8.4	.3	-.1	.0		1	0
1275.0	1283.0	B	3.5	11	.4	279	72	8.6	8.5	-.7	-.1	.5		1	0
1277.0	1285.0	C	3.2	17	.5	273	59	8.6	8.5	-.6	-.2	.4		1	0
1279.0	1287.0	C	3.9	30	.5	266	45	8.6	8.5	-.2	-.4	.3		1	0
1281.0	1289.0	C	3.2	39	.4	245	32	8.6	8.5	-.2	-.4	.1		1	0
1283.0	1291.0	C	3.4	43	.5	230	22	8.6	8.5		.5			1	2
1285.0	1293.0	B	4.6	74	.3	203	10	8.6	8.5	.2	-.3	-.6		1	0
1287.0	1295.0	A	5.6	85	.4	177	255	8.6	8.5	.4	-.1	-.8		1	0
1289.0	1297.0	A	2.8	150	.6	181	348	8.6	8.5	.4	.4	-.2		1	0
1291.0	1299.0	A	3.0	150	.6	145	339	8.6	8.5	.4	.5	-.2		1	0
1293.0	1301.0	A	3.4	150	.3	121	333	8.6	8.5	.3	.5	-.1		1	0
1295.0	1303.0	A	3.4	143	.4	170	325	8.6	8.5	.4	.5	-.2		1	0
1297.0	1305.0	A	3.9	119	.5	84	317	8.6	8.5	.6	.5	-.3		1	0
1299.0	1307.0	A	4.4	98	.4	111	313	8.6	8.5	.7	.5	-.5		1	0
1301.0	1309.0	A	4.1	91	.5	126	307	8.6	8.5	.7	.5	-.5		1	0
1303.0	1311.0	B	4.3	73	.5	138	300	8.6	8.5	.2	.4	-.5		1	0
1305.0	1313.0	B	4.0	48	.4	112	293	8.6	8.5	.1	.2	-.6		1	0
1307.0	1315.0	B	5.1	351	.6	119	288	8.6	8.5	.0	-.8	-.5		1	0
1309.0	1317.0	B	3.9	338	.7	124	282	8.6	8.5	-.2	-.3	-.4		1	0
1311.0	1319.0	B	11.7	324	.5	103	278	8.6	8.5	.0	-1.3	-1.1		1	0

LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO. 1	DIA 13	DIA 24	HBL	HBO	HCR	HBR	BASE N ARM
1313.0	1321.0	B	9.6	313	.6	76	267	8.6	8.5	.0	-1.2	-.7	1 0
1315.0	1323.0	A	9.1	102	.6	81	264	8.5	8.5	.5	1.5	.1	1 0
1317.0	1325.0	A	9.2	101	.7	70	258	8.4	8.4	.5	1.5	.1	1 0
1319.0	1327.0	A	7.9	102	.7	66	258	8.4	8.4	.5	1.3	.1	1 0
1321.0	1329.0	A	7.5	98	.6	77	259	8.4	8.5	.5	1.2	.1	1 0
1323.0	1331.0	C	14.2	56	.6	71	253	8.4	8.5	1.5			1 3
1325.0	1333.0	B	3.3	73	.6	58	252	8.2	8.4	.6	.5	-.2	1 0
1327.0	1335.0	B	6.6	90	.6	59	253	8.4	8.4	.8	1.1	.0	1 0
1329.0	1337.0	B	3.1	35	.5	65	254	8.6	8.4	.4	.4	-.4	1 0
1331.0	1339.0	B	2.9	47	.4	66	247	8.6	8.4	-.2	.4	-.2	1 0
1333.0	1341.0	D	3.1	356	.7	47	239	8.5	8.4	.2	.2	-.5	1 0
1335.0	1343.0	A	2.7	16	.6	41	231	8.5	8.4	.3	.3	-.3	1 0
1337.0	1345.0	A	8.9	28	.6	33	225	8.6	8.4	.7	1.2	-.7	1 0
1339.0	1347.0	A	13.1	359	.6	22	219	8.6	8.4	1.3	1.2	-1.7	1 0
1341.0	1349.0	A	5.2	83	.6	20	215	8.6	8.4	.4	.7	.4	1 0
1343.0	1351.0	A	4.9	207	.6	15	209	8.5	8.4	.0	.6	.2	1 0
1345.0	1353.0	A	10.1	182	.5	13	205	8.5	8.4	-.6	-1.1	1.0	1 0
1347.0	1355.0	A	3.9	141	.6	21	202	8.5	8.3	.4	.0	.6	1 0
1349.0	1357.0	A	4.2	137	.7	15	196	8.5	8.3	.4	.0	.6	1 0
1351.0	1359.0	C	22.1	130	.6	17	194	8.5	8.3	-1.9	-.4		1 4
1353.0	1361.0	C	27.4	127	.6	16	193	8.5	8.3	-2.3	-.4		1 4
1355.0	1363.0	C	27.0	130	.3	14	191	8.4	8.2	-2.5	-.8		1 4
1357.0	1365.0	C	27.3	122	.7	18	188	8.5	8.2	-2.4	-.7		1 4
1359.0	1367.0	C	12.6	77	.8	11	178	8.5	8.1	.5	.9	1.6	1 0
1361.0	1369.0	C	16.2	84	.7	350	167	8.4	8.0	.1	.6	2.3	1 0
1363.0	1371.0	C	18.2	80	.6	345	165	8.4	8.1	.2	.7	2.3	1 0
1365.0	1373.0	C	3.3	13	.8	344	164	8.4	8.2	.2	.6		1 4
1367.0	1375.0	C	10.1	89	.8	335	156	8.5	8.1	-.8	-.1		1 4
1369.0	1377.0	B	2.4	130	.8	329	150	8.4	8.3	.1	-.2	.2	1 0
1371.0	1379.0	B	1.5	130	.8	325	144	8.5	8.4	.0	-.1	.1	1 0
1373.0	1381.0	B	2.4	138	.8	320	139	8.5	8.3	.0	-.2	.1	1 0
1375.0	1383.0	B	2.1	156	.8	316	135	8.5	8.3	.0	-.2	.0	1 0
1377.0	1385.0	B	8.2	142	.8	310	132	8.5	8.3	.6			1 3
1379.0	1387.0	C	5.2	41	.8	311	128	8.5	8.3	-.8	.4	.7	1 0
1381.0	1389.0	B	2.4	177	.8	314	130	8.5	8.3	.4	-.2	-.2	1 0
1383.0	1391.0	B	3.3	156	.7	309	128	8.4	8.2	.6	-.4	-.1	1 0
1385.0	1393.0	B	11.7	54	.7	337	123	8.6	8.3	.1	.0	1.8	1 0
1387.0	1395.0	B	1.3	63	.6	357	121	8.6	8.3	.4	.0	.3	1 0
1389.0	1397.0	B	1.4	58	.7	339	118	8.6	8.3	.4	.0	.3	1 0
1391.0	1399.0	H	1.7	47	.6	323	113	8.6	8.3	.4	.0	.3	1 0
1393.0	1401.0	B	1.5	45	.7	323	107	8.6	8.3	.5	.0	.3	1 0
1395.0	1403.0	A	3.3	106	.7	312	101	8.6	8.3	.0	-.4	.1	1 0
1397.0	1405.0	A	2.0	79	.6	286	97	8.6	8.3	.0	-.1	.2	1 0
1399.0	1407.0	A	1.9	81	.8	252	93	8.6	8.3	.0	-.1	.2	1 0
1401.0	1409.0	A	1.8	87	.6	315	91	8.5	8.3	.0	-.1	.1	1 0
1403.0	1411.0	A	1.7	80	.7	316	91	8.6	8.4	-.1	-.1	.2	1 0
1405.0	1413.0	B	5.8	76	.5	294	88	8.6	8.4	-1.2	-.7	.5	1 0
1407.0	1415.0	H	8.2	84	.6	277	82	8.6	8.4	-.7	-1.1	.4	1 0
1409.0	1417.0	B	7.8	63	.7	282	76	8.6	8.4	-.7	-.9	.7	1 0
1411.0	1419.0	C	6.4	75	.7	276	73	8.6	8.4	-.4	-.8	.3	1 0
1413.0	1421.0	B	5.5	111	.7	272	72	8.6	8.4	-.1	-.7	-.3	1 0
1415.0	1423.0	B	4.4	119	.7	273	69	8.6	8.4	-.1	-.5	-.3	1 0
1417.0	1425.0	C	6.5	112	.7	266	59	8.6	8.4	-.1	-.8	-.4	1 0
1419.0	1427.0	B	5.2	55	.6	265	57	8.6	8.4	.0	-.6	.4	1 0
1421.0	1429.0	A	5.2	102	.6	290	60	8.6	8.4	-.1	-.6	-.3	1 0

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LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	UIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO. 1	DIA 13	DIA 24	HBL	DISPLACEMENTS HBD	HLR	HBR	BASE M ARM
1423.0	1431.0	A	4.4	109	.5	281	59	8.6	8.4	.0	.5	.3	1 0
1425.0	1433.0	A	3.6	106	.6	274	57	8.6	8.4	.0	.4	.3	1 0
1427.0	1435.0	A	4.6	96	.6	235	47	8.6	8.4	.0	.5	.4	1 0
1429.0	1437.0	B	2.7	117	.5	236	23	8.6	8.4	.2	.0	.4	1 0
1431.0	1439.0	A	2.7	21	.5	268	11	8.6	8.4	.1	.3	.0	1 0
1433.0	1441.0	B	1.1	129	.5	202	3	8.6	8.4	.1	.1	.1	1 0
1435.0	1443.0	A	1.9	140	.5	183	353	8.6	8.4	.2	.3	.2	1 0
1437.0	1445.0	B	3.4	126	.5	174	341	8.6	8.4	.4	.4	.3	1 0
1439.0	1447.0	A	3.8	135	.5	169	333	8.6	8.4	.3	.6	.3	1 0
1441.0	1449.0	A	4.7	129	.5	178	328	8.6	8.4	.4	.7	.4	1 0
1443.0	1451.0	A	5.0	126	.4	156	320	8.6	8.4	.5	.7	.4	1 0
1445.0	1453.0	A	3.8	144	.4	156	315	8.6	8.4	.5	.6	.1	1 0
1447.0	1455.0	B	4.5	93	.4	163	314	8.6	8.4	.7	.4	.6	1 0
1449.0	1457.0	B	2.1	98	.5	163	317	8.6	8.5	.3	.2	.2	1 0
1451.0	1459.0	B	3.9	222	.5	168	316	8.6	8.5	.2	.3	.6	1 0
1453.0	1461.0	A	4.9	132	.6	168	312	8.5	8.4	.6	.8	.1	1 0
1455.0	1463.0	A	4.8	129	.5	137	304	8.5	8.4	.6	.8	.1	1 0
1457.0	1465.0	A	5.6	121	.4	141	299	8.5	8.4	.7	.9	.2	1 0
1459.0	1467.0	A	5.4	114	.4	121	292	8.6	8.4	.6	.9	.2	1 0
1461.0	1469.0	A	7.3	121	.4	102	285	8.5	8.4	.6	1.2	.0	1 0
1463.0	1471.0	A	7.5	101	.5	94	276	8.5	8.4	.7	1.2	.3	1 0
1465.0	1473.0	A	7.9	120	.5	96	274	8.5	8.4	.3	1.3	.1	1 0
1467.0	1475.0	A	5.2	112	.6	100	275	8.5	8.4	.1	.9	.1	1 0
1469.0	1477.0	A	4.4	285	.6	107	271	8.4	8.4	.1	.6	.0	1 0
1471.0	1479.0	A	3.2	232	.6	101	260	8.6	8.5	.2	.3	.3	1 0
1473.0	1481.0	B	25.5	320	.6	84	252	8.6	8.5	.2	.2	.3	1 0
1475.0	1483.0	B	7.8	104	.7	83	243	8.6	8.5	.4	1.1	.6	1 0
1477.0	1485.0	B	7.9	95	.6	74	235	8.6	8.5	.5	1.2	.5	1 0
1479.0	1487.0	B	8.5	89	.6	65	229	8.5	8.4	.5	1.2	.5	1 0
1481.0	1489.0	A	5.3	89	.6	64	225	8.5	8.4	.1	.8	.4	1 0
1483.0	1491.0	A	2.2	74	.5	64	217	8.5	8.4	.0	.4	.2	1 0
1485.0	1493.0	A	2.0	114	.4	54	207	8.5	8.4	.2	.1	.3	1 0
1487.0	1495.0	A	6.0	92	.5	28	194	8.5	8.4	.2	.2	.3	1 0
1489.0	1497.0	B	2.1	107	.6	18	181	8.5	8.4	.6	.2	.2	1 0
1491.0	1499.0	C	9.8	137	.4	8	163	8.5	8.4	-1.4	-1.1	.4	1 0
1493.0	1501.0	B	.3	144	.4	347	150	8.5	8.4	.1	.0	.0	1 0
1495.0	1503.0	B	2.7	170	.5	348	144	8.5	8.4	.3	.3	.0	1 0
1497.0	1505.0	C	3.0	68	.4	344	138	8.5	8.4	.5	.0	.4	1 0
1499.0	1507.0	C	7.7	114	.3	324	128	8.4	8.4	.9	.9	.2	1 0
1501.0	1509.0	C	20.4	106	.3	315	119	8.4	8.4	.6	.6	.5	1 0
1503.0	1511.0	C	5.7	184	.3	298	112	8.5	8.4	.5	.4	.7	1 0
1505.0	1513.0	B	7.6	188	.3	272	106	8.3	8.3	.5	.5	.7	1 0
1507.0	1515.0	B	11.8	186	.3	269	103	8.1	8.4	.7	.7	.2	1 0
1509.0	1517.0	C	27.5	134	.3	274	105	8.2	8.3	-1.6	.9	.5	1 0
1511.0	1519.0	B	13.0	136	.3	261	99	8.1	8.3	.9	-1.8	.5	1 0
1513.0	1521.0	B	13.8	134	.3	259	99	8.3	8.4	.9	-1.0	.5	1 0
1515.0	1523.0	C	13.3	125	.2	251	101	8.2	8.3	.7	-1.9	.2	1 0
1517.0	1525.0	A	6.3	121	.3	241	99	8.2	8.3	.4	.9	.2	1 0
1519.0	1527.0	A	7.9	120	.3	242	92	8.2	8.3	.2	-1.0	.3	1 0
1521.0	1529.0	A	7.3	125	.5	218	71	8.1	8.2	.1	.9	.6	1 0
1523.0	1531.0	B	6.9	115	.6	214	68	8.1	8.2	.1	.8	.5	1 0
1525.0	1533.0	C	25.4	166	.6	218	67	8.1	8.1	1.6	.7	.4	1 0
1527.0	1535.0	D	8.2	108	.6	217	68	8.0	8.0	.7	.7	.6	1 0
1529.0	1537.0	D	35.4	157	.5	208	68	8.2	7.9	2.3	-1.1	.4	1 0
1531.0	1539.0	C	30.9	356	.6	195	53	8.3	8.1	.2	-1.2	.7	1 0

LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS			BASE M	ARM		
									MBL	HBO	HLR				
1533.0	1541.0	B	6.0	104	.8	187	39	8.3	8.4	.5					
1535.0	1543.0	B	4.6	160	.8	183	30	8.3	8.4	.6					
1537.0	1545.0	B	4.3	148	.9	180	22	8.3	8.4	.5					
1539.0	1547.0	B	4.1	157	.9	177	16	8.3	8.4	.5					
1541.0	1549.0	A	8.2	124	1.0	176	10	8.3	8.4	.8					
1543.0	1551.0	A	10.0	109	1.0	176	4	8.3	8.4	1.0					
1545.0	1553.0	A	9.9	104	1.1	174	102	8.3	8.3	1.0					
1547.0	1555.0	A	9.7	94	1.1	168	350	8.3	8.3	.8					
1549.0	1557.0	A	7.7	83	1.0	164	345	8.2	8.2	.5					
1551.0	1559.0	A	7.6	78	1.2	163	341	8.3	8.2	.5					
1553.0	1561.0	A	7.3	72	1.3	156	334	8.2	8.2	.4					
1555.0	1563.0	B	4.4	132	1.1	161	332	8.1	8.1	.4					
1557.0	1565.0	B	7.2	142	1.1	163	331	8.3	8.2	.7					
1559.0	1567.0	B	13.6	105	1.1	160	327	8.3	8.2	1.7					
1561.0	1569.0	A	7.0	78	1.3	158	323	8.3	8.2	.5					
1563.0	1571.0	A	6.7	78	1.3	155	323	8.3	8.2	.5					
1565.0	1573.0	A	7.0	68	1.2	155	318	8.4	8.2	.4					
1567.0	1575.0	A	4.1	62	1.2	153	315	8.4	8.2	.3					
1569.0	1577.0	A	4.5	114	1.2	153	314	8.4	8.2	.5					
1571.0	1579.0	A	4.0	112	1.3	150	315	8.4	8.2	.5					
1573.0	1581.0	A	4.5	104	1.2	149	310	8.3	8.2	.5					
1575.0	1583.0	A	2.8	77	1.2	144	304	8.3	8.2	.5					
1577.0	1585.0	A	2.9	53	1.1	144	297	8.3	8.2	.5					
1579.0	1587.0	A	2.7	62	1.1	148	294	8.3	8.2	.5					
1581.0	1589.0	A	2.4	57	1.1	149	296	8.3	8.2	.4					
1583.0	1591.0	A	3.2	107	1.1	142	295	8.3	8.2	.4					
1585.0	1593.0	A	3.8	146	1.0	146	295	8.3	8.2	.4					
1587.0	1595.0	A	3.7	84	.9	146	296	8.3	8.2	.1					
1589.0	1597.0	A	3.5	89	1.0	147	294	8.3	8.2	.1					
1591.0	1599.0	A	3.0	76	1.0	158	304	8.3	8.1	.3					
1593.0	1601.0	A	3.4	60	1.1	158	321	8.1	8.1	.3					
1595.0	1603.0	A	2.2	76	1.0	159	323	8.3	8.2	.6					
1597.0	1605.0	A	3.2	90	1.0	157	321	8.4	8.3	.6					
1599.0	1607.0	A	.3	57	1.0	158	317	8.4	8.3	.0					
1601.0	1609.0	A	2.6	146	.7	275	316	8.4	8.4	.1					
1603.0	1611.0	A	2.6	150	1.0	167	315	8.4	8.3	.1					
1605.0	1613.0	A	2.8	153	.9	168	317	8.3	8.3	.1					
1607.0	1615.0	A	5.7	150	1.0	163	315	8.3	8.3	.4					
1609.0	1617.0	A	6.7	164	1.0	169	318	8.3	8.3	.3					
1611.0	1619.0	A	5.2	140	1.0	166	325	8.4	8.3	.5					
1613.0	1621.0	A	5.5	138	1.2	162	324	8.4	8.3	.5					
1615.0	1623.0	A	5.1	135	1.4	157	322	8.3	8.3	.5					
1617.0	1625.0	A	5.6	142	1.4	155	320	8.3	8.3	.4					
1619.0	1627.0	B	5.9	114	1.1	161	320	8.4	8.3	.5					
1621.0	1629.0	B	5.4	121	1.1	153	316	8.4	8.3	.7					
1623.0	1631.0	B	5.0	129	1.1	154	310	8.3	8.3	.5					
1625.0	1633.0	B	4.8	122	.9	154	306	8.4	8.4	.6					
1627.0	1635.0	B	4.4	134	1.1	145	300	8.3	8.4	.6					
1629.0	1637.0	B	2.9	82	1.1	148	297	8.3	8.4	.4					
1631.0	1639.0	A	3.6	66	1.1	146	293	8.3	8.4	.5					
1633.0	1641.0	A	4.2	64	1.4	139	291	8.3	8.4	.6					
1635.0	1643.0	C	7.4	103	1.2	139	287	8.3	8.4	1.4					
1643.0	1651.0	C	10.8	29	1.0	144	281	8.4	8.3	.0					
1645.0	1653.0	B	13.7	50	.9	149	283	8.3	8.4	1.5					
1647.0	1655.0	B	11.2	70	1.1	142	283	8.3	8.4	1.6					

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LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.	DIA 13	DIA 24	HBL	DISPLACEMENTS				BASE ARM	M
										HBO	HLR	HBR			
1649.0	1657.0	A	7.8	89	1.1	139	285	8.5	8.4	.9	1.1	-.6		1	0
1651.0	1659.0	A	7.6	95	1.1	138	284	8.5	8.4	.7	1.1	-.4		1	0
1653.0	1661.0	A	6.9	112	.9	149	284	8.5	8.4	.5	1.1	-.1		1	0
1655.0	1663.0	A	5.5	111	1.1	142	280	8.6	8.4	.4	1.0	.0		1	0
1657.0	1665.0	A	4.6	131	1.1	141	280	8.7	8.6	.3	.8	.2		1	0
1659.0	1667.0	A	11.9	170	1.3	147	284	8.7	8.6	.1	1.5	1.4		1	0
1661.0	1669.0	A	4.3	116	1.2	144	288	8.7	8.6	.5	.8	.0		1	0
1663.0	1671.0	A	4.8	120	1.2	144	288	8.5	8.4	.5	.9	.0		1	0
1665.0	1673.0	A	4.7	123	1.2	147	293	8.6	8.5	.5	.9	.0		1	0
1667.0	1675.0	A	10.9	47	1.3	150	298	8.6	8.5	.6	.2	-1.5		1	0
1669.0	1677.0	A	4.9	100	1.2	151	295	8.7	8.6	.5	.8	-.3		1	0
1671.0	1679.0	A	4.4	88	1.2	152	290	8.7	8.6	.5	.7	-.3		1	0
1673.0	1681.0	A	4.6	97	1.2	150	283	8.8	8.7	.6	.8	-.2		1	0
1675.0	1683.0	A	4.5	102	1.1	152	278	8.8	8.6	.5	.7	-.1		1	0
1677.0	1685.0	B	4.1	1	1.1	155	282	8.8	8.7	.5	-.2	-.4		1	0
1679.0	1687.0	B	3.9	103	1.0	156	281	8.8	8.7	.4	.7	.0		1	0
1681.0	1689.0	B	3.5	67	.9	156	277	8.8	8.7	.5	.5	-.3		1	0
1683.0	1691.0	B	4.6	62	.9	150	272	8.8	8.7	.6	.6	-.4		1	0
1685.0	1693.0	B	7.4	91	1.0	148	268	8.7	8.6	.6	1.2	-.2		1	0
1687.0	1695.0	A	6.0	58	1.0	143	268	8.7	8.6	.7	.7	-.6		1	0
1689.0	1697.0	A	6.2	62	.9	148	267	8.7	8.6	.8	.7	-.5		1	0
1691.0	1699.0	B	20.9	38	.9	149	267	8.7	8.7	1.3	1.5	-2.9		1	0
1693.0	1701.0	C	7.2	43	1.2	138	261	8.7	8.9	.7	.7			1	4
1695.0	1703.0	C	6.7	46	1.1	133	260	8.9	8.8	.7	.6			1	4
1697.0	1705.0	B	16.0	21	.9	138	265	8.8	8.7	1.5	.3	-2.3		1	0
1699.0	1707.0	A	10.0	40	.8	150	266	8.6	8.5	1.6	.7	-1.3		1	0
1701.0	1709.0	B	9.3	53	.8	150	263	8.4	8.5	1.4	.9	-1.0		1	0
1703.0	1711.0	C	14.0	230	.8	140	266	8.4	8.7		.9		.5	1	2
1705.0	1713.0	B	14.7	131	.9	147	277	8.3	8.4	1.2	2.2	.8		1	0
1707.0	1715.0	B	11.4	132	.9	151	273	8.5	8.4	.9	1.7	.8		1	0
1709.0	1717.0	B	2.8	155	.8	152	269	8.4	8.6	-.9	.4	.4		1	0
1711.0	1719.0	D	23.2	15	.9	144	270	8.6	8.6		.4		-2.0	1	2
1719.0	1727.0	C	13.9	64	1.0	153	287	8.2	8.6	1.5			-.3	1	3
1721.0	1729.0	C	11.2	48	1.0	151	284	8.7	8.7	1.1			-.4	1	3
1723.0	1731.0	C	21.8	94	.9	150	273	8.7	8.7	2.1			1.3	1	3
1725.0	1733.0	A	9.8	114	.8	148	265	8.8	8.7	.7	1.6	.3		1	0
1727.0	1735.0	A	9.8	117	.8	147	265	8.5	8.5	.7	1.5	.3		1	0
1729.0	1737.0	A	9.6	111	.8	146	267	8.8	8.6	.7	1.6	.0		1	0
1731.0	1739.0	A	8.9	111	.9	155	278	8.8	8.7	.6	1.4	.0		1	0
1733.0	1741.0	B	14.3	90	.8	153	278	8.7	8.7	.8	2.2	-.6		1	0
1735.0	1743.0	B	15.3	84	.7	152	268	8.8	8.6	.9	2.3	-.7		1	0
1737.0	1745.0	B	25.1	62	.7	151	263	8.7	8.6	2.8			.3	1	3
1739.0	1747.0	B	21.8	47	.7	150	265	8.7	8.6	2.6	2.0	-2.7		1	0
1741.0	1749.0	C	19.1	55	.7	152	265	8.7	8.5		2.0		.0	1	2
1743.0	1751.0	C	21.7	359	.7	151	264	8.7	8.5		.7		-2.0	1	2
1745.0	1753.0	C	23.8	357	.6	154	262	8.7	8.6		.9		-2.3	1	2
1747.0	1755.0	C	24.2	358	.6	158	261	8.7	8.7		-1.0		-2.3	1	2
1749.0	1757.0	C	24.4	3	.6	160	266	8.8	8.8		-1.1		-2.4	1	2
1751.0	1759.0	D	22.6	26	.6	162	269	8.7	8.7		.2		-1.6	1	2
1753.0	1761.0	C	2.8	100	.6	165	276	8.6	8.7		.5		.2	1	2
1755.0	1763.0	D	29.0	197	.7	159	276	8.7	8.7	-2.0	.0			1	4
1757.0	1765.0	C	11.2	35	.7	150	263	8.4	8.4		.7		-.3	1	2
1759.0	1767.0	C	11.7	35	.5	144	259	8.2	8.3		.8		-.3	1	2
1761.0	1769.0	C	14.1	34	.5	153	255	8.3	8.5		1.0		-.4	1	2
1763.0	1771.0	C	16.0	37	.5	155	258	8.4	8.5		1.2		-.5	1	2

LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	HBL	DISPLACEMENTS H80	HLR	HBR	BASE M ARM
1765.0	1773.0	C	19.5	35	.5	152	260	8.6	8.6				
1767.0	1775.0	C	7.5	355	.5	146	261	8.6	8.6	1.5			1 2
1769.0	1777.0	B	12.6	154	.4	148	245	9.1	8.9	.0			1 2
1773.0	1781.0	C	.2	6	.0	190	190	8.9	8.6	.0	2.0		1 0
1788.0	1796.0	C	18.8	102	.4	282	144	8.7	7.8	.0	.0		1 0
1790.0	1798.0	C	19.1	98	.4	281	133	8.7	7.8	-1.9			1 3
1792.0	1800.0	B	19.9	93	.5	277	124	8.6	7.6	-1.9			1 3
1794.0	1802.0	B	21.8	82	.5	274	129	8.7	7.5	-2.0			1 3
1796.0	1804.0	C	7.3	78	.4	271	116	8.6	7.6	-2.2			1 3
1798.0	1806.0	C	13.7	46	.7	260	87	8.5	7.4	-1.7			1 4
1800.0	1808.0	C	13.1	42	.9	264	81	8.3	7.2	-1.2			1 4
1802.0	1810.0	C	22.8	174	.9	275	81	8.3	7.3	-1.1			1 4
1804.0	1812.0	C	20.3	119	.9	270	83	8.3	7.5	1.0	-1.0		1 4
1806.0	1814.0	C	18.2	137	.7	290	86	8.3	7.8	-1.1	-2.8		1 4
1808.0	1816.0	A	11.6	66	.8	297	88	8.4	8.1	-.5			1 3
1810.0	1818.0	A	11.1	67	.7	292	89	8.5	8.2	-1.2	1.1		1 0
1812.0	1820.0	A	10.7	69	.7	290	88	8.5	8.4	-.9	1.1		1 0
1814.0	1822.0	B	10.5	63	.8	307	87	8.7	8.4	-1.2	1.0		1 0
1816.0	1824.0	C	7.2	355	.9	294	82	8.4	8.2	-.9	1.1		1 0
1818.0	1826.0	C	5.1	21	.6	290	83	8.4	8.3	.5	1.0		1 0
1820.0	1828.0	D	7.1	27	.7	284	84	8.5	8.3	.3	.8		1 0
1822.0	1830.0	B	12.0	358	.7	288	82	8.5	8.4	-.6			1 3
1824.0	1832.0	B	30.6	358	.7	292	81	8.5	8.3	-.5	1.8		1 0
1826.0	1834.0	C	10.5	62	.7	289	81	8.5	8.3	-1.8			1 4
1828.0	1836.0	C	10.2	95	.6	283	82	8.6	8.3	1.2			1 2
1840.0	1848.0	C	12.9	95	.8	269	64	8.6	8.3	-1.4			1 2
1842.0	1850.0	C	17.7	100	.8	264	58	8.5	8.2	-1.4			1 0
1844.0	1852.0	B	5.1	111	.7	258	49	8.5	8.3	-2.2			1 0
1846.0	1854.0	C	5.7	169	.8	245	40	8.5	8.3	-.3	1.1		1 0
1848.0	1856.0	C	7.0	158	.8	245	37	8.4	8.3	-.5	.5		1 0
1850.0	1858.0	C	6.8	157	.9	247	39	8.5	8.3	.6	.7		1 0
1852.0	1860.0	C	6.8	152	.8	243	41	8.5	8.3	.6	.9		1 0
1854.0	1862.0	C	14.1	164	.7	243	41	8.5	8.4	.5	.9		1 0
1856.0	1864.0	D	19.6	19	.7	238	38	8.5	8.2	1.3	.6		1 4
1860.0	1868.0	D	6.5	38	.8	222	37	8.5	8.2	-2.1			1 3
1862.0	1870.0	D	20.4	18	.8	228	36	8.5	8.3	-.8			1 2
1866.0	1874.0	B	12.1	60	.8	224	39	8.6	8.4	-2.1			1 3
1868.0	1876.0	D	13.2	155	.8	228	43	8.6	8.4	.0	-1.7		1 0
1870.0	1878.0	D	14.9	161	.8	230	43	8.6	8.3	.9	.3		1 0
1872.0	1880.0	B	17.5	172	.8	226	38	8.6	8.1	.6	-1.9		1 0
1874.0	1882.0	B	14.8	157	.9	226	33	8.6	8.2	1.2	1.2		1 0
1876.0	1884.0	B	14.1	156	.9	232	36	8.5	8.2	1.2	1.2		1 0
1878.0	1886.0	B	11.6	147	.8	232	38	8.5	8.3	1.1	.6		1 0
1880.0	1888.0	B	7.7	130	.9	232	38	8.6	8.6	1.3	.5		1 0
1882.0	1890.0	B	15.2	142	.9	235	41	8.5	8.5	1.2	.1		1 0
1884.0	1892.0	B	14.7	148	.9	240	47	8.5	8.5	1.4	-.2		1 0
1886.0	1894.0	B	16.1	160	.9	249	58	8.6	8.4	.7	-.3		1 0
1888.0	1896.0	B	16.9	164	.9	252	66	8.5	8.3	.4	-.3		1 0
1890.0	1898.0	D	14.6	168	1.0	251	63	8.5	8.2	.2	-.1		1 0
1892.0	1900.0	C	2.1	142	.9	251	62	8.6	8.2	.2	-.1		1 0
1894.0	1902.0	D	3.7	120	.9	250	64	8.6	8.2	.1	.0		1 3
1896.0	1904.0	C	4.7	132	.9	251	69	8.5	8.2	.0	.3		1 4
1898.0	1906.0	C	6.6	144	.9	250	69	8.6	8.1	.0	.8		1 4
1900.0	1908.0	B	7.4	144	.9	254	71	8.6	8.1	.2	.4		1 4
1902.0	1910.0	B	4.4	58	.8	257	74	8.6	8.1	.1	.5		1 0



LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	H8L	H80	HLR	H8R	BASE M	ARM	
1904.0	1912.0	B	8.6	88	.9	246	69	8.5	8.0	-.1	-1.2	-.1	1	0	
1906.0	1914.0	B	19.1	147	1.0	244	59	8.5	8.0	-.7	-1.0		1	4	
1908.0	1916.0	B	11.7	147	.9	241	55	8.6	8.0	.5	-.5		1	4	
1910.0	1918.0	B	4.0	64	1.0	239	54	8.5	8.0	.6	-.4	.1	1	0	
1912.0	1920.0	C	3.7	77	.9	239	62	8.5	7.9	.6	-.4	.0	1	0	
1914.0	1922.0	C	14.2	17	.9	249	68	8.5	7.9	-1.2	-.6		1	0	
1916.0	1924.0	C	20.2	21	.9	249	71	8.5	7.9	-1.9	-1.0		1	4	
1922.0	1930.0	C	9.9	350	.8	243	74	8.5	7.9	-.9	.3		1	4	
1924.0	1932.0	D	2.6	320	.8	244	65	8.4	7.7	.0	.3		1	4	
1926.0	1934.0	C	7.0	315	.8	244	57	8.5	7.8	-.1	.7		1	4	
1928.0	1936.0	C	6.0	185	1.0	241	54	8.4	7.8		.5	-.2	1	2	
1938.0	1946.0	C	16.3	146	1.0	235	52	8.6	8.3	.8	-.7		1	4	
1940.0	1948.0	C	15.5	168	.9	238	62	8.5	8.2	1.2		-1.1	1	3	
1942.0	1950.0	C	13.7	156	.8	235	66	8.4	8.2	1.0	-.7		1	4	
1944.0	1952.0	C	8.4	23	.9	233	63	8.5	8.3		-.5	.3	1	2	
1946.0	1954.0	B	3.2	108	.9	235	61	8.6	8.3	.7	-.3	-.2	1	0	
1948.0	1956.0	B	7.1	136	1.0	236	59	8.6	8.3	-.3	-.4	-.9	1	0	
1950.0	1958.0	B	13.2	140	.9	235	57	8.6	8.3	1.2	-.8	-1.7	1	0	
1952.0	1960.0	C	11.0	131	1.0	237	57	8.6	8.3	-.1	-.8	-1.3	1	0	
1954.0	1962.0	D	3.4	84	.9	235	58	8.6	8.3	-.2			1	3	
1956.0	1964.0	D	10.9	139	.9	233	53	8.6	8.4	.4		-1.0	1	3	
1958.0	1966.0	D	17.4	141	.9	239	57	8.6	8.4	.6		-1.7	1	3	
1960.0	1968.0	C	22.5	73	1.0	241	62	8.5	8.4	-1.9		-1.5	1	3	
1962.0	1970.0	C	17.7	140	.9	243	63	8.5	8.4	.3	-1.3	-2.3	1	0	
1973.0	1981.0	C	19.5	147	1.0	241	48	8.6	8.3	1.5	1.2	-2.9	1	0	
1975.0	1983.0	C	14.5	187	1.0	237	42	8.6	8.3	1.6		-.1	1	3	
1977.0	1985.0	C	22.7	186	1.0	233	37	8.6	8.3	2.5		-.0	1	3	
1979.0	1987.0	B	7.5	217	1.0	232	30	8.6	8.3	.9	1.2	-.2	1	0	
1981.0	1989.0	B	10.2	193	1.0	228	25	8.6	8.3	1.3	1.5	-.7	1	0	
1983.0	1991.0	B	10.4	186	1.0	226	15	8.6	8.4	1.1	1.5	-.8	1	0	
1985.0	1993.0	B	6.3	165	1.0	225	16	8.6	8.4	.0	.7	-.7	1	0	
1987.0	1995.0	B	19.6	121	1.0	226	17	8.6	8.4	1.4	-.3	-2.9	1	0	
1989.0	1997.0	B	18.4	121	1.0	229	23	8.6	8.2	1.3	-.3	-2.7	1	0	
1991.0	1999.0	C	19.6	115	1.0	228	21	8.6	8.4	1.4	-.6	-2.8	1	0	
1993.0	2001.0	C	20.8	94	1.0	227	18	8.6	8.4	.6	-1.5		1	4	
1995.0	2003.0	C	8.3	226	1.0	223	15	8.6	8.5	.5	1.4		1	4	
1997.0	2005.0	B	7.2	102	1.1	229	17	8.6	8.4	.5	-.5	-.9	1	0	
1999.0	2007.0	B	12.2	155	1.1	227	18	8.6	8.4	.3	1.0	-1.6	1	0	
2001.0	2009.0	B	11.4	146	1.0	228	20	8.6	8.4	1.1	.7	-1.5	1	0	
2003.0	2011.0	A	10.9	104	1.0	232	22	8.6	8.4	.8	-.5	-1.4	1	0	
2005.0	2013.0	A	11.2	104	1.1	229	18	8.6	8.4	1.0	-.5	-1.4	1	0	
2007.0	2015.0	A	11.2	100	1.1	227	15	8.5	8.2	1.0	-.6	-1.4	1	0	
2009.0	2017.0	A	11.2	103	1.0	228	15	8.5	8.2	1.0	-.6	-1.4	1	0	
2011.0	2019.0	C	24.7	187	1.1	231	21	8.4	8.2	2.6			.6	1	3
2015.0	2023.0	D	9.6	57	12.6	294	79	7.2	7.0		.2		.8	1	2

LEAOCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 6 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	HBL	HBD	HBR	HBR	BASE ARM	M
2000.0	2008.0	B	4.0	166	1.1	221	34	8.3	7.9	.8	.4	-.5		1 0
2002.0	2010.0	A	8.6	136	1.1	220	36	8.3	7.7	.9	.0	-1.2		1 0
2004.0	2012.0	A	9.0	130	1.1	219	33	8.2	7.7	.9	-.1	-1.2		1 0
2006.0	2014.0	A	9.1	132	1.1	219	32	8.2	7.7	.9	-.1	-1.2		1 0
2008.0	2016.0	B	10.1	130	1.0	217	33	8.0	7.6	.9	-.2	-1.3		1 0
2010.0	2018.0	C	14.5	168	1.0	235	33	7.9	7.5	1.3			-.4	1 3
2012.0	2020.0	C	13.2	176	1.0	226	30	7.1	6.9	1.2			-.1	1 3
2014.0	2022.0	B	5.9	168	1.1	225	33	7.2	7.0	1.0	.5	-.7		1 0
2016.0	2024.0	B	19.4	283	1.1	213	33	7.4	7.1	.9	1.8	2.0		1 0
2018.0	2026.0	B	1.8	194	1.1	218	33	7.8	7.6	.2			.1	1 3
2020.0	2028.0	B	19.9	259	1.1	218	31	8.1	8.1	1.4	2.7	1.4		1 0
2022.0	2030.0	D	29.6	34	1.2	218	29	8.3	8.4	-2.7			-1.6	1 3
2024.0	2032.0	C	18.5	178	1.2	216	25	8.4	8.5		2.2		.1	1 2
2026.0	2034.0	B	11.1	215	1.2	213	19	8.5	8.5		1.8		.9	1 2
2028.0	2036.0	A	11.4	193	1.1	215	16	8.5	8.5	1.4	1.7	-.6		1 0
2030.0	2038.0	A	13.2	186	1.0	222	13	8.4	8.4	1.6	1.9	-.9		1 0
2032.0	2040.0	A	13.9	187	1.4	211	14	8.6	8.4	1.7	2.1	-.8		1 0
2034.0	2042.0	B	17.9	173	1.1	210	10	8.5	8.4	2.0	2.4	-1.6		1 0
2036.0	2044.0	B	20.6	146	1.0	213	8	8.6	8.4	1.9	1.4	-2.8		1 0
2038.0	2046.0	C	14.2	123	1.1	206	6	8.6	8.5	1.3			-.8	1 3
2040.0	2048.0	B	20.8	242	1.1	207	4	8.6	8.5	1.0	2.5	2.3		1 0
2042.0	2050.0	C	19.9	137	1.1	206	257	8.6	8.5	2.1			-.4	1 3
2044.0	2052.0	B	18.7	155	1.1	202	355	8.5	8.4	1.7	2.5	-1.6		1 0
2046.0	2054.0	B	14.8	159	1.1	205	352	8.6	8.4	1.3	2.1	-1.0	Vertical rock	1 0
2048.0	2056.0	B	14.5	156	1.1	207	349	8.5	8.4	1.3	2.0	-1.0	or in any	1 0
2050.0	2058.0	A	9.4	152	1.1	207	348	8.5	8.4	1.1	1.3	-.7	of the not	1 0
2052.0	2060.0	B	12.5	162	1.1	204	346	8.5	8.3	1.1	1.9	-.6	of the not	1 0
2054.0	2062.0	B	14.8	162	1.1	204	343	8.4	8.4	1.5	2.2	-.6	of the not	1 0
2056.0	2064.0	C	6.0	132	1.1	202	341	8.3	8.2	1.1	.9	-.7		1 0
2058.0	2066.0	B	18.2	166	1.1	203	342	8.1	8.2	1.1	2.8	-.5		1 0
2060.0	2068.0	B	11.0	125	1.1	203	337	8.2	8.2	1.0	1.1	-1.2		1 0
2062.0	2070.0	C	11.1	167	1.1	201	339	8.3	8.2	1.0			.7	1 3
2064.0	2072.0	C	13.4	151	1.1	205	343	8.3	8.2	1.5	1.8	-.7		1 0
2066.0	2074.0	D	13.0	190	1.1	202	338	8.0	8.1		1.9		1.2	1 2
2068.0	2076.0	D	12.7	167	1.0	202	334	7.9	7.7	1.7	1.8	-.2		1 0
2070.0	2078.0	C	11.5	178	1.0	201	334	7.9	7.7	1.1	1.7	.0		1 0
2072.0	2080.0	B	11.6	189	1.0	204	342	7.6	7.7	.4	1.7	.2		1 0
2074.0	2082.0	B	12.0	195	1.0	206	347	7.8	7.6	.4	1.8	.1		1 0
2078.0	2086.0	C	12.2	178	1.0	218	11	7.9	7.6		1.7		.5	1 2
2080.0	2088.0	C	10.6	147	1.1	214	1	8.0	7.8		1.1		.1	1 2
2082.0	2090.0	C	13.2	124	1.0	211	355	8.0	7.8	1.5	.9	-1.6		1 0
2084.0	2092.0	C	11.4	122	1.0	210	350	8.0	7.8	1.1	.7	-1.3		1 0
2088.0	2096.0	D	7.8	137	1.0	211	350	7.9	7.8	.8			.6	1 3
2090.0	2098.0	D	3.9	147	.9	207	346	8.0	8.0	.8	.5	-.2		1 0
2092.0	2100.0	C	3.8	142	.9	207	345	8.3	8.2	.7	.5	-.3		1 0
2094.0	2102.0	B	9.1	171	1.0	210	344	8.3	8.3	1.0	1.4	-.1		1 0
2096.0	2104.0	B	9.6	158	.9	205	336	8.0	8.0	.9	1.4	-.2		1 0
2098.0	2106.0	B	8.8	154	.9	202	332	8.0	7.7	.9	1.3	-.1		1 0
2100.0	2108.0	B	8.2	145	.8	193	319	7.9	7.6	.9	1.2	.0		1 0
2102.0	2110.0	B	2.0	144	.7	186	308	7.8	7.6	.6	.3	.1		1 0
2104.0	2112.0	B	7.0	157	.7	190	306	7.8	7.8	.6	1.0	.2		1 0
2106.0	2114.0	A	10.5	158	.7	193	310	8.4	8.2	.8	1.5	.2		1 0
2108.0	2116.0	A	10.8	162	.8	196	318	8.0	7.9	.9	1.6	.2		1 0
2110.0	2118.0	A	12.0	162	.8	197	321	7.7	7.5	.8	1.8	.2		1 0
2112.0	2120.0	B	10.7	158	.8	198	320	8.1	7.5	.3	1.6	.2		1 0

LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	OIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.	DIA 13	DIA 24	HBL	DISPLACEMENTS				BASE ARM	M
										HBO	NLR	HBR			
2114.0	2122.0	C	31.6	229	.6	193	313	8.1	7.5	-1.8	.9			1	4
2116.0	2124.0	D	14.1	176	.6	189	310	8.0	7.5	.4			1.4	1	3
2120.0	2128.0	C	15.0	192	.7	193	303	8.0	7.9	.7	1.4	1.7		1	0
2122.0	2130.0	C	25.3	173	.7	196	298	8.3	7.9	.7			2.7	1	3
2124.0	2132.0	B	15.4	201	.6	196	300	8.1	7.5	.8	1.5	1.8		1	0
2126.0	2134.0	B	15.5	186	.7	203	317	8.1	7.7	.7	2.0	1.3		1	0
2128.0	2136.0	D	13.9	170	.7	204	319	8.2	8.2	.6			1.4	1	3
2132.0	2140.0	D	4.1	127	.6	195	300	8.0	8.1	.3			.3	1	3
2134.0	2142.0	D	19.3	160	.5	195	295	7.9	8.1	.2			2.0	1	3
2136.0	2144.0	B	13.2	168	.4	190	278	7.5	8.1	.0	1.1	1.6		1	0
2138.0	2146.0	B	10.7	144	.4	190	273	8.3	8.2	-.2	1.2	1.1		1	0
2140.0	2148.0	B	11.3	135	.3	195	261	8.4	8.3	-.1	1.2	1.2		1	0
2142.0	2150.0	B	7.2	131	.2	201	248	8.4	8.3	-.1	.7	.7		1	0
2144.0	2152.0	C	9.6	117	.2	196	244	8.4	8.3	.0	1.2	.7		1	0
2150.0	2158.0	C	4.7	139	.3	197	255	8.7	8.4	.0			.5	1	3
2152.0	2160.0	B	7.1	164	.3	189	253	8.5	8.4	-.4	.3	1.0		1	0
2154.0	2162.0	A	5.3	160	.2	188	251	8.6	8.4	-1.1	.2	.8		1	0
2156.0	2164.0	A	10.4	156	.3	196	249	8.6	8.3	-.8	.5	1.4		1	0
2158.0	2166.0	A	9.3	150	.3	185	247	8.5	8.1	-.8	.5	1.3		1	0
2160.0	2168.0	B	11.6	145	.2	184	244	8.6	8.3	-.4	.7	1.6		1	0
2162.0	2170.0	B	11.6	143	.2	192	240	8.5	8.2	-.1	.7	1.6		1	0
2164.0	2172.0	C	12.7	140	.1	224	236	8.4	8.2	-.1	.8	1.7		1	0
2166.0	2174.0	D	13.3	142	.1	230	233	8.5	8.2	-.1	.6	1.8		1	0
2168.0	2176.0	A	6.8	155	.2	247	232	8.5	8.2	-.2	.0	1.0		1	0
2170.0	2178.0	A	6.9	151	.2	272	224	8.1	8.0	-.2	.0	1.0		1	0
2172.0	2180.0	A	6.9	148	.2	280	217	8.5	8.4	-.1	.1	1.0		1	0
2174.0	2182.0	A	7.0	146	.3	284	215	8.5	8.4	-.1	.2	1.0		1	0
2176.0	2184.0	B	10.2	108	.7	96	235	8.5	8.7	.0	1.2	1.2		1	0
2178.0	2186.0	C	21.3	99	1.2	94	226	8.4	8.6	.3			2.5	1	3
2182.0	2190.0	B	10.3	66	1.7	85	218	8.1	8.2	.0	1.6	.4		1	0
2184.0	2192.0	B	7.3	120	1.9	64	217	8.1	8.1	-.4	.6	1.2		1	0
2186.0	2194.0	C	2.0	193	2.3	79	212	8.0	7.9	-.4	.0	.4		1	0
2188.0	2196.0	C	7.1	131	2.5	79	211	8.1	8.0	-.4			.6	1	3
2190.0	2198.0	C	16.6	203	2.7	79	211	8.1	8.0	-1.4	-2.2	.0		1	0
2192.0	2200.0	C	33.3	250	2.2	88	219	8.0	8.0	-2.5			-2.5	1	3
2194.0	2202.0	C	14.7	74	1.6	99	229	7.9	7.9		2.2		1.1	1	2
2196.0	2204.0	C	5.2	166	.7	119	244	8.0	8.0	-.8	.2	.8		1	0
2206.0	2214.0	A	8.8	327	1.1	93	231	7.9	7.7	.0	.0	-1.0		1	0
2208.0	2216.0	A	8.7	60	1.7	84	220	7.8	7.5	.0	1.3	.0		1	0
2210.0	2218.0	A	9.7	67	1.2	88	224	7.9	7.7	.0	1.5	.0		1	0
2212.0	2220.0	B	18.4	52	.9	94	233	8.0	8.0		2.5		.7	1	2
2214.0	2222.0	B	19.1	50	.9	103	241	7.8	8.1		2.4		.5	1	2
2228.0	2236.0	B	23.8	39	2.4	116	249	8.5	8.5	2.6			.0	1	3
2230.0	2238.0	B	22.3	160	2.6	117	250	8.4	8.5		1.4		2.6	1	2
2232.0	2240.0	A	13.9	143	2.9	117	250	8.4	8.6	-1.0	1.3	2.2		1	0
2234.0	2242.0	A	6.5	151	3.4	113	246	8.3	8.6	-.7	.8	1.6		1	0
2236.0	2244.0	A	4.6	138	4.5	97	230	7.9	8.1	-.5	.8	1.0		1	0
2238.0	2246.0	A	3.3	35	4.0	117	250	7.9	8.1	.0	.6	.0		1	0
2240.0	2248.0	A	2.9	333	3.9	118	251	7.9	8.0	.0	.2	.0		1	0
2242.0	2250.0	B	3.3	317	4.1	110	243	7.9	8.0	.2	.2	.0		1	0
2244.0	2252.0	B	3.9	28	4.3	103	236	8.3	8.5	.4	.8	.0		1	0
2246.0	2254.0	B	3.1	20	4.3	102	234	8.2	8.2	.0	.6	.0		1	0
2248.0	2256.0	A	7.6	117	4.0	113	244	7.8	7.9	.0	1.3	.8		1	0
2250.0	2258.0	A	3.4	171	3.2	128	259	7.9	8.0	-.3	.4	.8		1	0
2256.0	2260.0	A	3.0	222	2.8	134	265	8.2	8.2	-.3	.0	.7		1	0

LEADCO INC. C.C. JACKSON 22-17 PITTSBURG GAS COLUMBIA CO., OREGON 8 X 2 X 60 DEG.

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS				BASE M ARM		
									HBL	HBO	HLR	HBR			
2254.0	2262.0	A	4.1	172	2.3	140	270	8.3	8.4	-.3	.5	.8		1	0
2256.0	2264.0	A	1.3	262	2.2	137	267	7.9	8.0	-.6	.0	.3		1	0
2258.0	2266.0	C	18.0	285	2.3	134	264	8.2	8.3	-1.2			-1.2	1	3
2260.0	2268.0	C	19.3	287	2.5	127	257	8.6	8.6	-1.2			-1.5	1	3
2262.0	2270.0	B	4.0	319	2.4	125	254	8.3	8.2	-.8	-.2	-.2		1	0
2264.0	2272.0	B	1.7	17	2.0	128	257	8.1	8.2	.0	.2	.0		1	0
2266.0	2274.0	A	2.2	44	2.1	127	256	8.2	8.2	.0	.4	.0		1	0
2268.0	2276.0	A	2.8	86	2.3	126	256	8.6	8.5	.0	.6	.2		1	0
2270.0	2278.0	A	1.1	103	2.5	123	254	8.5	8.4	-.2	.4	.3		1	0
2272.0	2280.0	B	1.0	277	1.9	125	255	8.1	8.1	-.3	.0	.2		1	0
2274.0	2282.0	B	1.9	317	1.8	125	254	8.5	8.5	.3	.0	.0		1	0
2276.0	2284.0	A	4.4	333	2.1	116	247	8.7	8.4	.0	.0	-.3		1	0
2278.0	2286.0	B	4.1	332	2.4	108	241	8.8	8.5	.0	.0	-.3		1	0
2282.0	2290.0	A	3.8	350	2.4	122	254	8.4	8.1	.0	.0	-.3		1	0
2284.0	2292.0	A	1.9	233	2.0	132	263	8.6	8.1	.0	.0	.4		1	0
2300.0	2308.0	C	43.4	287	5.2	73	206	8.2	8.2	2.7	.9			1	4
2302.0	2310.0	C	37.9	244	26.8	40	173	7.9	7.8	1.5	.7			1	4
2304.0	2312.0	C	50.6	225	36.9	23	158	7.8	7.6	1.6	.6			1	4

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