

15-42784

March 2, 2015

Concho Resources, Inc.
One Concho Center
600 W. Illinois Avenue
Midland, Texas 79701

NM OIL CONSERVATION
ARTESIA DISTRICT
APR 20 2015
RECEIVED

Attn: Kanicia Castillo

RE: **Bradley 8 Fee 6H**

Please find enclosed a copy of the survey from 0' to 2400' ran on the above referenced well.

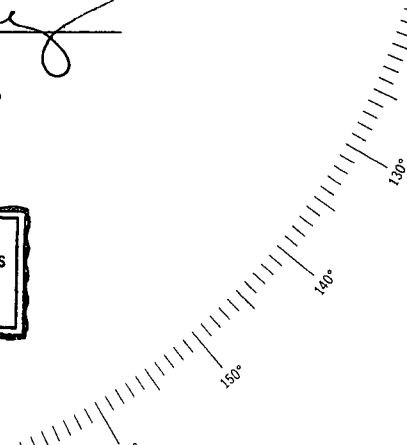
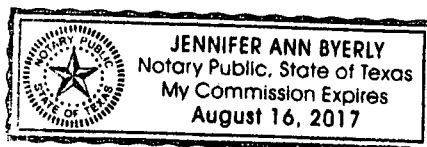
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 2 day of March,
A.D., 2015, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas





Company: Cog Operating LLC

Lease/Well: Bradley 8 Fee /6H

Rig Name: Silver Oak 3

State/County: New Mexico /Eddy

Latitude: 32.67, Longitude: -104.40

GRID North is 0.04 Degrees West of True North

VS-Azi: 0.00 Degrees



Depth Reference : 18FT

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: bradley 8 fee 6h survey.ut

Minimum Curvature Method

Report Date/Time: 3/2/2015 / 15:33

VES Survey International

(432) 563-5444

West Texas

Surveyor: Javier Estrada

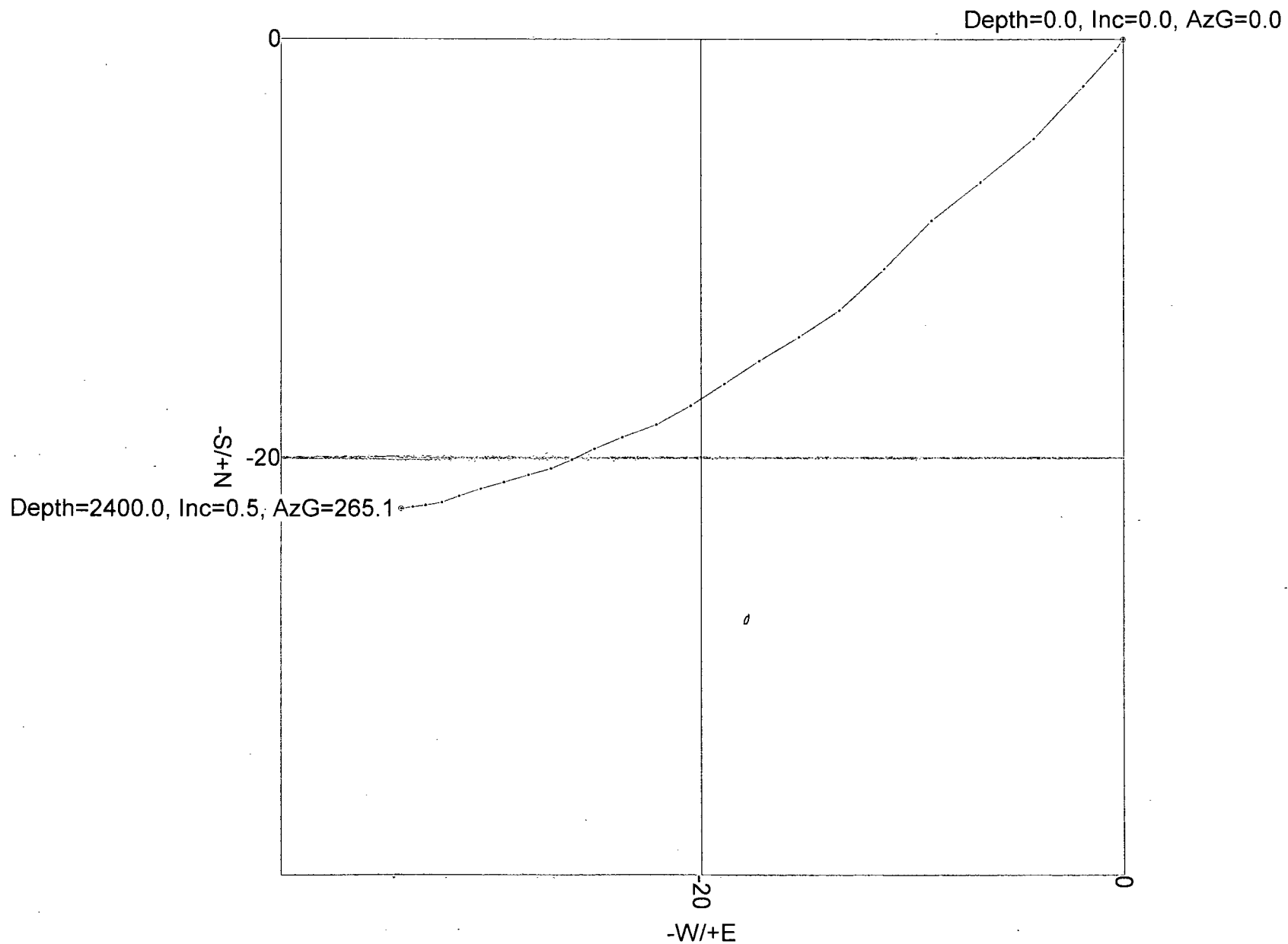
Bradley 8 Fee 6H / API 30-015-42784

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.76	215.01	100.00	-0.54	-0.38	-0.54	0.66	215.01	0.76
200.00	1.87	224.25	199.97	-2.25	-1.89	-2.25	2.94	220.11	1.13
300.00	2.07	221.89	299.91	-4.76	-4.24	-4.76	6.38	221.67	0.22
400.00	1.73	240.66	399.86	-6.85	-6.76	-6.85	9.62	224.63	0.71
500.00	1.70	222.20	499.81	-8.69	-9.07	-8.69	12.56	226.24	0.55
600.00	1.97	225.96	599.76	-10.98	-11.31	-10.98	15.76	225.83	0.29
700.00	1.35	228.20	699.72	-12.96	-13.42	-12.96	18.66	225.99	0.63
800.00	1.34	244.95	799.69	-14.24	-15.36	-14.24	20.94	227.16	0.39
900.00	1.21	232.43	899.67	-15.38	-17.25	-15.38	23.11	228.28	0.31
1000.00	1.07	241.29	999.65	-16.47	-18.90	-16.47	25.07	228.93	0.22
1100.00	1.13	233.22	1099.63	-17.51	-20.51	-17.51	26.96	229.51	0.17
1200.00	1.02	249.44	1199.61	-18.41	-22.13	-18.41	28.79	230.24	0.32
1300.00	0.95	249.24	1299.60	-19.02	-23.74	-19.02	30.42	231.30	0.07
1400.00	0.69	244.16	1399.59	-19.57	-25.06	-19.57	31.80	232.00	0.27
1500.00	0.65	243.04	1499.58	-20.09	-26.11	-20.09	32.95	232.42	0.04
1600.00	0.59	250.32	1599.57	-20.53	-27.10	-20.53	34.00	232.86	0.10
1700.00	0.68	257.05	1699.57	-20.83	-28.16	-20.83	35.03	233.51	0.11
1800.00	0.73	250.82	1799.56	-21.17	-29.33	-21.17	36.18	234.18	0.09

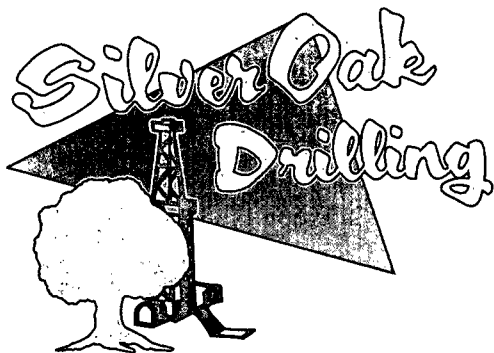
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	0.60	257.32	1899.55	-21.50	-30.45	-21.50	37.27	234.78	0.14
2000.00	0.65	247.28	1999.55	-21.83	-31.48	-21.83	38.31	235.26	0.12
2100.00	0.35	251.58	2099.54	-22.14	-32.29	-22.14	39.15	235.56	0.30
2200.00	0.56	265.68	2199.54	-22.28	-33.06	-22.28	39.87	236.03	0.23
2300.00	0.18	255.27	2299.54	-22.35	-33.70	-22.35	40.44	236.44	0.38
2400.00	0.47	265.10	2399.54	-22.43	-34.25	-22.43	40.94	236.79	0.30



VES Survey International
(432) 563-5444
West Texas
Surveyor: Javier Estrada
Bradley 8 Fee 6H / API 30-015-42784



VES Survey Date: 2/16/2015



PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

February 27, 2015

COG, LLC
One Concho Center
600 W. Illinois Ave.
Midland, TX 79701

RE: Bradley 8 Fee 6H
150' FSL & 2310' FWL
Sec. 8, T19S, R26E
Eddy County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

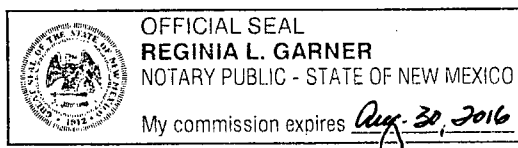
Very truly yours,

A handwritten signature in cursive script, appearing to read "Chris Graham".

Chris Graham
Drilling Superintendent

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 27th day of February, 2015.

A handwritten signature in cursive script, appearing to read "Regina L. Garner".
Notary Public

BRADLEY 8 FEE #6 H

Date	Depth	Deviation	Direction	TVD
2/14/2015	200	2.20	0.00	0.00
2/14/2015	290	2.60	0.00	0.00
2/14/2015	351	2.30	0.00	0.00
2/14/2015	409	1.50	0.00	0.00
2/14/2015	496	2.10	0.00	0.00
2/14/2015	588	2.00	0.00	0.00
2/14/2015	680	1.60	0.00	0.00
2/14/2015	806	1.50	0.00	0.00
2/15/2015	901	1.20	0.00	0.00
2/15/2015	1148	1.10	0.00	0.00
2/16/2015	1432	0.60	0.00	0.00
2/16/2015	1905	1.00	0.00	0.00
2/16/2015	2400	0.50	0.00	0.00
2/17/2015	2443	0.40	236.60	0.00
2/17/2015	2474	0.60	340.60	0.00
2/17/2015	2505	4.30	3.40	0.00
2/17/2015	2536	84.00	4.20	0.00
2/17/2015	2568	12.50	2.90	0.00
2/17/2015	2600	16.20	2.00	0.00
2/17/2015	2631	19.30	1.80	0.00
2/17/2015	2695	24.80	1.20	0.00
2/17/2015	2726	27.60	1.10	0.00
2/17/2015	2757	30.00	0.60	0.00
2/17/2015	2788	37.30	359.00	0.00
2/17/2015	2820	34.60	357.60	0.00
2/17/2015	2883	38.10	357.80	0.00
2/17/2015	2915	39.50	358.60	0.00
2/17/2015	2946	40.30	359.70	0.00
2/17/2015	2977	42.50	0.60	0.00
2/18/2015	3009	45.40	1.10	2940.00
2/18/2015	3040	48.30	0.70	2961.00
2/18/2015	3070	51.60	0.70	2980.00
2/18/2015	3101	58.10	1.10	3016.00
2/18/2015	3133	58.10	1.30	3016.00
2/18/2015	3165	62.50	1.30	3032.00
2/18/2015	3196	65.90	0.40	3045.00
2/18/2015	3227	69.70	358.80	3057.00
2/18/2015	3290	77.30	358.10	0.00
2/18/2015	3321	80.60	258.70	0.00
2/18/2015	3352	84.00	359.00	0.00
2/18/2015	3405	89.80	0.20	0.00
2/18/2015	3437	92.10	0.40	0.00
2/18/2015	3469	92.90	359.40	0.00

Date	Depth	Deviation	Direction	TVD
2/18/2015	3500	91.90	357.40	0.00
2/18/2015	3532	90.90	356.80	0.00
2/18/2015	3595	90.80	356.50	0.00
2/19/2015	3689	89.10	357.40	3083.00
2/19/2015	3784	89.20	357.10	3085.00
2/19/2015	3878	89.10	358.80	3086.00
2/19/2015	3972	90.40	359.70	3087.00
2/19/2015	4161	89.90	359.30	0.00
2/19/2015	4255	89.50	359.20	0.00
2/19/2015	4350	89.30	358.90	0.00
2/20/2015	4539	89.70	358.90	0.00
2/20/2015	4633	90.90	358.60	0.00
2/20/2015	4727	91.70	358.70	0.00
2/20/2015	4822	92.10	359.00	0.00
2/20/2015	4917	90.40	359.00	0.00
2/20/2015	5012	90.90	358.80	0.00
2/21/2015	5107	89.80	358.30	0.00
2/21/2015	5202	90.10	358.60	0.00
2/21/2015	5296	91.00	358.70	0.00
2/21/2015	5390	91.90	358.40	0.00
2/21/2015	5484	92.20	359.80	0.00
2/22/2015	5580	91.70	0.30	3070.00
2/22/2015	5675	91.00	0.50	0.00
2/22/2015	5770	92.00	0.80	0.00
2/22/2015	5865	91.50	359.50	0.00
2/22/2015	5960	90.50	359.00	0.00
2/22/2015	6055	90.80	358.70	0.00
2/23/2015	6149	91.50	358.70	3058.00
2/23/2015	6245	90.20	358.60	3056.00
2/23/2015	6339	90.60	358.60	3056.00
2/23/2015	6433	91.10	358.30	0.00
2/23/2015	6528	90.70	359.00	0.00
2/24/2015	6623	90.10	359.20	3053.00
2/24/2015	6717	91.00	359.50	3052.00
2/24/2015	6811	90.20	359.10	0.00
2/24/2015	6905	90.50	358.90	0.00
2/24/2015	7000	90.40	359.70	0.00
2/25/2015	7093	89.00	0.00	0.00
2/25/2015	7188	89.80	0.00	0.00
2/25/2015	7283	90.80	359.70	0.00
2/25/2015	7377	90.80	358.90	0.00
2/25/2015	7471	90.10	359.10	0.00
2/25/2015	7567	91.00	359.00	0.00

EOF



PHOENIX

TECHNOLOGY SERVICES

Job Number: 1512855
 Company: COG Operating LLC
 Lease/Well: Bradley 8 Fee #6H
 Location: Eddy County, New Mexico
 Rig Name: Silver Oak 3
 RKB:
 G.L. or M.S.L.:

State/Country: New Mexico, USA
 Declination: 7.66
 Grid:
 File name: C:\WINSERVE\1512855.SVY
 Date/Time: 25-Feb-15 / 18:52
 Curve Name: Work Curve

Phoenix Technology Services

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 358.77
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
2400.00	.47	265.10	2399.54	-22.43	-34.25	-21.69	40.94	236.78	.00
2443.00	.40	236.60	2442.54	-22.53	-34.55	-21.78	41.25	236.90	.52
2474.00	.60	340.60	2473.54	-22.43	-34.70	-21.68	41.32	237.11	2.57
2505.00	4.30	3.40	2504.50	-21.12	-34.68	-20.37	40.61	238.66	12.11
2536.00	8.40	4.20	2535.31	-17.70	-34.45	-16.96	38.73	242.80	13.23
2568.00	12.50	2.90	2566.77	-11.91	-34.10	-11.17	36.12	250.75	12.83
2600.00	16.20	2.00	2597.77	-3.99	-33.77	-3.26	34.00	263.27	11.58
2631.00	19.30	1.80	2627.29	5.46	-33.46	6.18	33.90	279.27	10.00
2663.00	21.90	1.70	2657.24	16.71	-33.11	17.42	37.09	296.78	8.13
2695.00	24.80	1.20	2686.61	29.39	-32.79	30.09	44.04	311.86	9.08
2726.00	27.60	1.10	2714.43	43.07	-32.52	43.76	53.97	322.95	9.03
2757.00	30.00	.60	2741.59	58.00	-32.30	58.68	66.39	330.89	7.78
2788.00	32.30	359.00	2768.12	74.04	-32.37	74.71	80.80	336.39	7.88
2820.00	34.60	357.60	2794.82	91.66	-32.90	92.35	97.39	340.26	7.58
2852.00	36.60	357.30	2820.84	110.27	-33.72	110.97	115.31	342.99	6.27
2883.00	38.10	357.80	2845.48	129.06	-34.53	129.77	133.60	345.02	4.94
2915.00	39.50	358.60	2870.42	149.10	-35.16	149.82	153.19	346.73	4.65
2946.00	40.30	359.70	2894.20	168.99	-35.45	169.71	172.66	348.15	3.44
2977.00	42.50	.60	2917.45	189.48	-35.39	190.20	192.76	349.42	7.35
3009.00	45.40	1.10	2940.49	211.69	-35.06	212.39	214.57	350.60	9.13
3040.00	48.30	.70	2961.69	234.30	-34.71	234.99	236.86	351.57	9.40
3070.00	51.60	.70	2980.99	257.26	-34.43	257.94	259.55	352.38	11.00
3101.00	55.30	1.10	2999.45	282.15	-34.03	282.82	284.20	353.12	11.98
3133.00	58.90	1.30	3016.82	309.01	-33.47	309.66	310.82	353.82	11.26
3165.00	62.50	1.30	3032.48	336.91	-32.84	337.53	338.50	354.43	11.25

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
3196.00	65.90	.40	3045.97	364.81	-32.42	365.42	366.25	354.92	11.27
3227.00	69.70	358.80	3057.68	393.50	-32.63	394.11	394.85	355.26	13.16
3259.00	73.50	357.80	3067.78	423.85	-33.53	424.47	425.17	355.48	12.24
3290.00	77.30	358.10	3075.60	453.82	-34.61	454.46	455.14	355.64	12.29
3321.00	80.60	358.70	3081.54	484.23	-35.46	484.88	485.53	355.81	10.81
3352.00	84.00	359.00	3085.69	514.94	-36.07	515.60	516.20	355.99	11.01
3383.00	87.20	359.80	3088.07	545.84	-36.39	546.50	547.06	356.19	10.64
3405.00	89.80	.20	3088.64	567.83	-36.39	568.49	569.00	356.33	11.96
3437.00	92.10	.40	3088.11	599.83	-36.23	600.47	600.92	356.54	7.21
3469.00	92.90	359.40	3086.72	631.80	-36.28	632.43	632.84	356.71	4.00
3500.00	91.90	357.40	3085.42	662.76	-37.15	663.40	663.80	356.79	7.21
3532.00	90.90	356.80	3084.64	694.70	-38.77	695.38	695.78	356.81	3.64
3595.00	90.80	356.50	3083.70	757.59	-42.45	758.33	758.78	356.79	.50
3689.00	89.10	357.50	3083.78	851.46	-47.37	852.28	852.77	356.82	2.10
3784.00	89.20	357.10	3085.19	946.34	-51.84	947.23	947.76	356.86	.43
3878.00	89.10	358.80	3086.59	1040.27	-55.20	1041.21	1041.73	356.96	1.81
3972.00	90.40	359.70	3087.00	1134.25	-56.43	1135.20	1135.66	357.15	1.68
4066.00	90.20	359.50	3086.51	1228.25	-57.09	1229.19	1229.58	357.34	.30
4161.00	89.90	359.30	3086.42	1323.24	-58.08	1324.19	1324.52	357.49	.38
4255.00	89.50	359.20	3086.92	1417.24	-59.31	1418.18	1418.48	357.60	.44
4350.00	89.30	358.90	3087.91	1512.22	-60.89	1513.18	1513.44	357.69	.38
4444.00	89.20	359.60	3089.14	1606.20	-62.12	1607.16	1607.40	357.79	.75
4539.00	89.70	358.90	3090.05	1701.19	-63.36	1702.16	1702.37	357.87	.91
4633.00	90.90	358.60	3089.56	1795.16	-65.41	1796.15	1796.35	357.91	1.32
4727.00	91.70	358.70	3087.43	1889.11	-67.63	1890.13	1890.32	357.95	.86
4822.00	92.10	359.00	3084.28	1984.04	-69.53	1985.07	1985.26	357.99	.53
4917.00	90.40	359.00	3082.21	2079.00	-71.19	2080.05	2080.22	358.04	1.79
5012.00	90.90	358.80	3081.13	2173.97	-73.01	2175.04	2175.20	358.08	.57
5107.00	89.80	358.30	3080.55	2268.94	-75.42	2270.04	2270.19	358.10	1.27
5202.00	90.10	358.60	3080.63	2363.91	-77.99	2365.03	2365.19	358.11	.45
5296.00	91.00	358.70	3079.73	2457.87	-80.20	2459.03	2459.18	358.13	.96
5390.00	91.90	358.40	3077.35	2551.81	-82.58	2553.00	2553.15	358.15	1.01
5485.00	92.20	359.80	3073.95	2646.74	-84.07	2647.93	2648.07	358.18	1.51
5580.00	91.70	.30	3070.72	2741.68	-83.99	2742.85	2742.97	358.25	.74
5675.00	91.00	.50	3068.48	2836.65	-83.33	2837.79	2837.88	358.32	.77
5770.00	92.00	.80	3065.99	2931.61	-82.25	2932.70	2932.77	358.39	1.10
5865.00	91.30	359.50	3063.26	3026.57	-82.00	3027.63	3027.68	358.45	1.55
5960.00	90.50	359.00	3061.77	3121.55	-83.24	3122.62	3122.66	358.47	.99
6055.00	90.80	358.70	3060.69	3216.52	-85.15	3217.61	3217.65	358.48	.45
6149.00	91.50	358.70	3058.80	3310.48	-87.28	3311.59	3311.63	358.49	.74
6245.00	90.20	358.60	3057.38	3406.44	-89.54	3407.58	3407.62	358.49	1.36
6339.00	90.60	358.60	3056.72	3500.41	-91.84	3501.58	3501.61	358.50	.43
6433.00	91.10	358.30	3055.33	3594.37	-94.38	3595.56	3595.60	358.50	.62
6528.00	90.70	359.00	3053.83	3689.33	-96.62	3690.55	3690.59	358.50	.85
6623.00	90.10	359.20	3053.17	3784.31	-98.11	3785.55	3785.58	358.51	.67

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6717.00	91.00	359.50	3052.27	3878.30	-99.18	3879.54	3879.57	358.54	1.01
6811.00	90.20	359.10	3051.28	3972.29	-100.33	3973.53	3973.55	358.55	.95
6905.00	90.50	358.90	3050.71	4066.27	-101.97	4067.52	4067.55	358.56	.38
6999.00	90.40	359.70	3049.97	4160.26	-103.12	4161.52	4161.54	358.58	.86
7093.00	89.00	.00	3050.46	4254.26	-103.36	4255.49	4255.51	358.61	1.52
7188.00	89.80	.00	3051.46	4349.25	-103.36	4350.47	4350.48	358.64	.84
7283.00	90.80	359.70	3050.96	4444.25	-103.61	4445.45	4445.45	358.66	1.10
7377.00	90.80	358.90	3049.65	4538.23	-104.76	4539.43	4539.44	358.68	.85
7471.00	90.10	359.10	3048.91	4632.21	-106.40	4633.43	4633.43	358.68	.77
7567.00	91.00	359.00	3047.99	4728.19	-107.99	4729.42	4729.43	358.69	.94
7578.00	91.20	359.00	3047.78	4739.19	-108.18	4740.42	4740.42	358.69	1.82
PBHL									
7638.00	91.20	359.00	3046.52	4799.17	-109.23	4800.41	4800.41	358.70	.00