

DRILLING INC. Oil Well Drilling Contractor

Post Office Box 160 Artesia, New Mexico 88211-0160 Office (575) 748-8704 Fax (575) 748-8719

August 13, 2012



30-015-40058

COG Operating, LLC
550 W. Texas, Suite 1300
Midland, Texas 79701

Re: Pinto 36 State Com. 4 H
Sec. 36, T-18-S, R-25-E
Eddy County, Texas

Attn: Jim Evans

The following is a Deviation Survey on the referenced well in Eddy County, New Mexico:

192' - 0.25°	1140' - 1°	1898' - 1°	3061' - 0.5°
516' - 1°	1276' - 1°	2123' - 0.75°	3529' - 0.75°
746' - 0.5°	1523' - 0.5°	2561' - 1°	

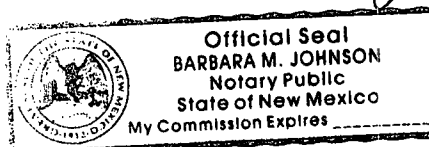
Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 13th day of August, 2012 by Gary W. Chappell.

NOTARY PUBLIC



CRESCENT

DIRECTIONAL DRILLING

Minimum Curvature Calculation

Client: COG Operating LLC
Well: Pinto 36 State Com 4H
County: Eddy
Rig: JW #4

M.W.D. OPERATORS: M. Rainey/CJ Hall
DIRECTIONAL DRILLERS: D. Patterson/F. Smith
Tool Azimuth to Grid North: 0.05
Job #: PB-12491

Vertical Section Angle: 1.35

Sur. #	Meas. Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N/-S	+E/-W	DLS
Tie In	2100.00	0.73	315.25	2099.89	-5.41	-5.23	-7.61	0.00
1	2152.00	0.90	310.60	2151.88	-4.92	-4.73	-8.15	0.35
2	2183.00	1.60	318.90	2182.88	-4.45	-4.24	-8.62	2.33
3	2214.00	4.00	313.10	2213.84	-3.41	-3.18	-9.70	7.79
4	2245.00	7.00	312.70	2244.69	-1.44	-1.16	-11.87	9.68
5	2276.00	9.50	324.00	2275.37	1.84	2.19	-14.77	9.58
6	2308.00	11.80	335.20	2306.82	6.88	7.30	-17.69	9.64
7	2339.00	14.80	343.80	2336.99	13.50	13.98	-20.13	11.57
8	2370.00	18.10	350.90	2366.72	22.02	22.54	-21.99	12.45
9	2401.00	21.60	356.70	2395.88	32.44	33.00	-23.09	12.94
10	2433.00	24.80	1.60	2425.29	45.03	45.59	-23.24	11.67
11	2464.00	28.00	4.80	2453.05	58.80	59.35	-22.45	11.29
12	2495.00	31.50	6.90	2479.96	74.13	74.64	-20.86	11.78
13	2527.00	34.70	9.00	2506.77	91.48	91.94	-18.43	10.62
14	2558.00	38.20	10.90	2531.70	109.69	110.08	-15.24	11.86
15	2589.00	41.50	12.70	2555.50	129.22	129.51	-11.17	11.28
16	2620.00	45.20	13.60	2578.03	150.04	150.23	-6.32	12.10
17	2651.00	48.70	14.30	2599.19	172.14	172.21	-0.86	11.41
18	2683.00	52.30	14.30	2619.54	196.20	196.14	5.24	11.25
19	2714.00	56.00	13.90	2637.70	220.71	220.50	11.36	11.98
20	2745.00	59.60	13.70	2654.21	246.32	245.97	17.61	11.63
21	2776.00	63.30	13.20	2669.03	272.94	272.45	23.94	12.02
22	2807.00	66.00	13.20	2682.30	300.36	299.72	30.34	8.71
23	2838.00	68.60	13.00	2694.26	328.35	327.58	36.82	8.41
24	2870.00	71.30	12.90	2705.23	357.80	356.87	43.56	8.44
25	2901.00	74.60	12.30	2714.32	386.86	385.79	50.02	10.80
26	2932.00	77.90	12.00	2721.69	416.43	415.22	56.36	10.69
27	2964.00	81.50	11.60	2727.41	447.39	446.04	62.79	11.32
28	2995.00	84.30	11.60	2731.24	477.66	476.17	68.98	9.03
29	3026.00	86.90	11.60	2733.62	508.07	506.44	75.19	8.39
30	3057.00	88.90	11.30	2734.75	538.57	536.80	81.34	6.52
31	3088.00	90.10	10.20	2735.02	569.15	567.26	87.12	5.25
32	3119.00	91.10	9.30	2734.70	599.82	597.81	92.37	4.34
33	3150.00	91.70	8.60	2733.94	630.54	628.42	97.19	2.97
34	3244.00	91.30	5.50	2731.48	724.03	721.67	108.73	3.32
35	3337.00	90.60	2.50	2729.94	816.90	814.42	115.21	3.31
36	3430.00	90.10	0.50	2729.37	909.90	907.38	117.65	2.22
37	3525.00	90.10	0.40	2729.20	1004.88	1002.37	118.39	0.11
38	3618.00	90.10	0.50	2729.04	1097.87	1095.37	119.12	0.11
39	3712.00	91.50	0.20	2727.73	1191.85	1189.36	119.70	1.52

CRESCENT

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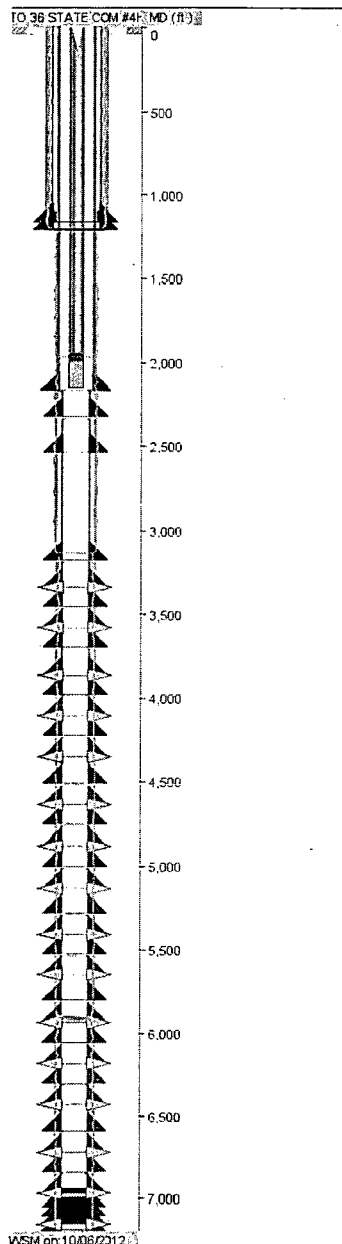
Sur #	Meas. Depth	Inc.	Azm.	T.V.D.	Ver.Sect.	+N/-S	+E/-W	DLS
40	3805.00	91.70	0.90	2725.13	1284.80	1282.32	120.59	0.78
41	3899.00	91.10	0.70	2722.83	1378.77	1376.28	121.90	0.67
42	3993.00	90.60	359.70	2721.44	1472.74	1470.27	122.23	1.19
43	4087.00	91.10	359.50	2720.05	1566.68	1564.25	121.57	0.57
44	4180.00	91.70	358.80	2717.77	1659.59	1657.21	120.19	0.99
45	4274.00	91.10	359.10	2715.48	1753.47	1751.17	118.47	0.71
46	4368.00	91.30	359.00	2713.51	1847.38	1845.14	116.91	0.24
47	4462.00	91.10	358.80	2711.54	1941.27	1939.10	115.11	0.30
48	4555.00	90.80	358.60	2710.00	2034.16	2032.06	113.00	0.39
49	4649.00	90.40	358.40	2709.01	2128.04	2126.02	110.54	0.48
50	4743.00	91.10	359.00	2707.78	2221.93	2219.99	108.41	0.98
51	4837.00	91.80	359.00	2705.40	2315.82	2313.95	106.77	0.74
52	4930.00	91.80	358.60	2702.48	2408.68	2406.88	104.82	0.43
53	5025.00	91.80	359.80	2699.50	2503.56	2501.82	103.49	1.26
54	5118.00	90.80	0.70	2697.39	2596.52	2594.79	103.90	1.45
55	5211.00	90.60	0.70	2696.25	2689.51	2687.78	105.04	0.22
56	5305.00	90.40	0.70	2695.43	2783.50	2781.77	106.18	0.21
57	5398.00	91.50	0.70	2693.89	2876.48	2874.75	107.32	1.18
58	5492.00	91.30	0.70	2691.59	2970.44	2968.71	108.47	0.21
59	5586.00	91.30	1.10	2689.46	3064.42	3062.68	109.94	0.43
60	5679.00	91.10	1.30	2687.51	3157.40	3155.64	111.89	0.30
61	5773.00	92.00	1.40	2684.97	3251.36	3249.57	114.11	0.96
62	5867.00	91.80	1.40	2681.85	3345.31	3343.49	116.40	0.21
63	5961.00	91.70	359.50	2678.98	3439.25	3437.44	117.14	2.02
64	6054.00	91.70	359.50	2676.22	3532.16	3530.40	116.33	0.00
65	6147.00	91.80	359.50	2673.38	3625.07	3623.35	115.52	0.11
66	6241.00	91.50	359.70	2670.68	3718.99	3717.31	114.86	0.38
67	6334.00	92.20	358.80	2667.68	3811.87	3810.25	113.64	1.23
68	6428.00	93.10	358.80	2663.33	3905.68	3904.13	111.68	0.96
69	6521.00	93.10	358.80	2658.30	3998.45	3996.97	109.73	0.00
70	6615.00	92.90	358.40	2653.38	4092.21	4090.82	107.44	0.48
71	6709.00	93.10	359.50	2648.46	4186.00	4184.67	105.72	1.19
72	6802.00	92.60	0.90	2643.84	4278.86	4277.55	106.04	1.60
73	6895.00	92.60	0.70	2639.62	4371.76	4370.45	107.34	0.21
74	6989.00	92.60	0.70	2635.35	4465.66	4464.34	108.49	0.00
75	7083.00	92.00	0.50	2631.58	4559.58	4558.26	109.47	0.67
76	7176.00	92.00	0.70	2628.34	4652.51	4651.20	110.45	0.21
77	7270.00	91.80	0.70	2625.22	4746.45	4745.14	111.59	0.21
78	7287.00	91.70	0.90	2624.70	4763.45	4762.13	111.83	1.31
BHL	7335.00	91.70	0.90	2623.28	4811.42	4810.11	112.58	0.00

ID: 30-015-40058

Well Name: PINTO 36 STATE COM #4H

Event#: 2.00

Report Dates: 10/06/2012



PIPE SPECIFICATION

STRING NAME	SECTION NAME	JOINT COUNT	START DEPTH	END DEPTH	LENGTH	OD SIZE	ID SIZE	WT GRDNT	GRD	CONN
SURFACE	GUIDE SHOE		1208.94	1210.00	1.06	10.63	8.84	40.0	J55	LTC
SURFACE	CASING	1	1164.85	1208.94	44.09	9.63	8.84	40.0	J55	LTC
SURFACE	FLOAT COLLAR		1163.25	1164.85	1.60	10.63	8.84	40.0	J-55	LTC
SURFACE	CASING	28	-4.37	1163.25	1167.62	9.63	8.84	40.0	J55	LTC
PRODUCTION	PUMPOUT PLUG		7192.93	7195.00	2.07					
PRODUCTION	CASING	1	7154.41	7192.93	38.52	5.50	4.89	17.0	L-80	LTC
PRODUCTION	HYDRO-PORT		7151.87	7154.41	2.54					
PRODUCTION	CASING	1	7113.69	7151.87	38.18	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		7110.59	7113.69	3.10					
PRODUCTION	HYDRO-PAC		7107.47	7110.59	3.12					
PRODUCTION	PUP JOINT		7101.35	7107.47	6.12					
PRODUCTION	CASING	1	7062.76	7101.35	38.59	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		7059.64	7062.76	3.12					
PRODUCTION	PRODUCTION		7055.53	7059.64	4.11					
PRODUCTION	PUP JOINT		7049.52	7055.53	6.01					
PRODUCTION	CASING	2	6970.16	7049.52	79.36	5.50	4.89	17.0	L-80	LTC
PRODUCTION	PORT SLEEVE		6966.61	6970.16	3.55					
PRODUCTION	CASING	3	6849.12	6966.61	117.49	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		6846.00	6849.12	3.12					
PRODUCTION	PRODUCTION		6841.90	6846.00	4.10					
PRODUCTION	PUP JOINT		6835.87	6841.90	6.03					
PRODUCTION	CASING	3	6721.82	6835.87	114.05	5.50	4.89	17.0	L-80	LTC
PRODUCTION	PORT SLEEVE		6718.27	6721.82	3.55					
PRODUCTION	CASING	3	6601.31	6718.27	116.96	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		6598.17	6601.31	3.14					
PRODUCTION	PRODUCTION		6594.05	6598.17	4.12					
PRODUCTION	PUP JOINT		6588.02	6594.05	6.03					
PRODUCTION	CASING	4	6431.03	6588.02	156.99	5.50	4.89	17.0	L-80	LTC
PRODUCTION	PORT SLEEVE		6427.48	6431.03	3.55					
PRODUCTION	CASING	3	6312.79	6427.48	114.69	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		6309.65	6312.79	3.14					
PRODUCTION	PRODUCTION		6305.53	6309.65	4.12					
PRODUCTION	PUP JOINT		6299.50	6305.53	6.03					
PRODUCTION	CASING	3	6182.69	6299.50	116.81	5.50	4.89	17.0	L-80	LTC
PRODUCTION	PORT SLEEVE		6179.14	6182.69	3.55					
PRODUCTION	CASING	3	6064.51	6179.14	114.63	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		6061.36	6064.51	3.15					
PRODUCTION	PRODUCTION		6057.25	6061.36	4.11					
PRODUCTION	PUP JOINT		6051.23	6057.25	6.02					
PRODUCTION	CASING	3	5935.17	6051.23	116.06	5.50	4.89	17.0	L-80	LTC

PIPE SPECIFICATION

STRING NAME	SECTION NAME	JOINT COUNT	START DEPTH	END DEPTH	LENGTH	OD SIZE	ID SIZE	WT GRDNT	GRD	CONN
PRODUCTION	PORT SLEEVE		5931.62	5935.17	3.55					
PRODUCTION	CASING	3	5814.73	5931.62	116.89	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		5811.59	5814.73	3.14					
PRODUCTION	PRODUCTION		5807.50	5811.59	4.09					
PRODUCTION	PUP JOINT		5801.58	5807.50	5.92					
PRODUCTION	CASING	4	5650.81	5801.58	150.77	5.50	4.89	17.0	L-80	LTC
PRODUCTION	PORT SLEEVE		5647.26	5650.81	3.55					
PRODUCTION	CASING	3	5536.92	5647.26	110.34	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		5533.79	5536.92	3.13					
PRODUCTION	PRODUCTION		5529.70	5533.79	4.09					
PRODUCTION	PUP JOINT		5523.67	5529.70	6.03					
PRODUCTION	CASING	3	5410.10	5523.67	113.57	5.50	4.89	17.0	L-80	LTC
PRODUCTION	PORT SLEEVE		5406.55	5410.10	3.55					
PRODUCTION	CASING	3	5293.94	5406.55	112.61	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		5290.81	5293.94	3.13					
PRODUCTION	PRODUCTION		5286.71	5290.81	4.10					
PRODUCTION	PUP JOINT		5280.67	5286.71	6.04					
PRODUCTION	CASING	4	5134.46	5280.67	146.21	5.50	4.89	17.0	L-80	LTC
PRODUCTION	PORT SLEEVE		5130.91	5134.46	3.55					
PRODUCTION	CASING	3	5014.25	5130.91	116.66	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		5011.15	5014.25	3.10					
PRODUCTION	PRODUCTION		5007.10	5011.15	4.05					
PRODUCTION	PUP JOINT		5001.12	5007.10	5.98					
PRODUCTION	CASING	3	4883.63	5001.12	117.49	5.50	4.89	17.0	L-80	LTC
PRODUCTION	PORT SLEEVE		4880.08	4883.63	3.55					
PRODUCTION	CASING	3	4764.42	4880.08	115.66	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		4761.34	4764.42	3.08					
PRODUCTION	PRODUCTION		4757.27	4761.34	4.07					
PRODUCTION	PUP JOINT		4751.30	4757.27	5.97					
PRODUCTION	CASING	3	4638.30	4751.30	113.00	5.50	4.89	17.0	L-80	LTC
PRODUCTION	PORT SLEEVE		4634.75	4638.30	3.55					
PRODUCTION	CASING	3	4521.50	4634.75	113.25	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		4518.36	4521.50	3.14					
PRODUCTION	PRODUCTION		4514.30	4518.36	4.06					
PRODUCTION	PUP JOINT		4508.25	4514.30	6.05					
PRODUCTION	CASING	4	4350.37	4508.25	157.88	5.50	4.89	17.0	L-80	LTC
PRODUCTION	PORT SLEEVE		4346.82	4350.37	3.55					
PRODUCTION	CASING	3	4233.14	4346.82	113.68	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		4230.00	4233.14	3.14					
PRODUCTION	PRODUCTION		4225.91	4230.00	4.09					
PRODUCTION	PUP JOINT		4219.85	4225.91	6.06					
PRODUCTION	CASING	3	4105.22	4219.85	114.63	5.50	4.89	17.0	L-80	LTC
PRODUCTION	PORT SLEEVE		4101.67	4105.22	3.55					
PRODUCTION	CASING	3	3987.14	4101.67	114.53	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		3984.01	3987.14	3.13					

PIPE SPECIFICATION

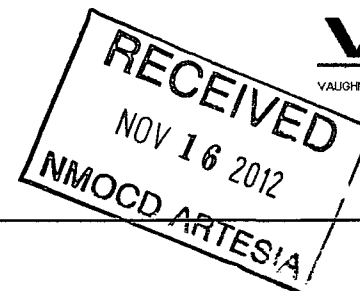
STRING NAME	SECTION NAME	JOINT COUNT	START DEPTH	END DEPTH	LENGTH	OD SIZE	ID SIZE	WT GRDNT	GRD	CONN
PRODUCTION	PRODUCTION		3979.88	3984.01	4.13					
PRODUCTION	PUP JOINT		3973.85	3979.88	6.03					
PRODUCTION	CASING	3	3862.37	3973.85	111.48	5.50	4.89	17.0	L-80	LTC
PRODUCTION	PORT SLEEVE		3858.82	3862.37	3.55					
PRODUCTION	CASING	4	3709.76	3858.82	149.06	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		3706.61	3709.76	3.15					
PRODUCTION	PRODUCTION		3702.51	3706.61	4.10					
PRODUCTION	PUP JOINT		3696.49	3702.51	6.02					
PRODUCTION	CASING	3	3582.68	3696.49	113.81	5.50	4.89	17.0	L-80	LTC
PRODUCTION	PORT SLEEVE		3579.13	3582.68	3.55					
PRODUCTION	CASING	3	3466.99	3579.13	112.14	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		3463.85	3466.99	3.14					
PRODUCTION	PRODUCTION		3459.72	3463.85	4.13					
PRODUCTION	PUP JOINT		3453.69	3459.72	6.03					
PRODUCTION	CASING	3	3340.20	3453.69	113.49	5.50	4.89	17.0	L-80	LTC
PRODUCTION	PORT SLEEVE		3336.65	3340.20	3.55					
PRODUCTION	CASING	4	3186.83	3336.65	149.82	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CENTRALIZER		3183.70	3186.83	3.13					
PRODUCTION	PRODUCTION		3179.60	3183.70	4.10					
PRODUCTION	PUP JOINT		3173.55	3179.60	6.05					
PRODUCTION	CASING	17	2535.53	3173.55	638.02	5.50	4.89	17.0	L-80	LTC
PRODUCTION	DEBRIS SUB		2534.35	2535.53	1.18					
PRODUCTION	CASING	5	2338.79	2534.35	195.56	5.50	4.89	17.0	L-80	LTC
PRODUCTION	DV TOOL		2320.48	2338.79	18.31					
PRODUCTION	CASING	4	2168.43	2320.48	152.05	5.50	4.89	17.0	L-80	LTC
PRODUCTION	CROSSOVER		2166.23	2168.43	2.20					
PRODUCTION	CASING	48	-8.35	2166.23	2174.58	7.00	6.28	26.0	L-80	LTC
PRODUCTION				-8.35	-8.35					
TUBING	BULL PLUG		2149.20	2150.00	0.80					
TUBING	MUD ANCHOR	1	1987.20	2149.20	162.00	2.88	2.44	6.5	J-55	
TUBING	DESANDER		1982.20	1987.20	5.00	2.88	2.44	6.5	J-55	
TUBING	ESP TR-MODEL		1968.11	1982.20	14.09	2.88	2.44	6.5	J-55	
TUBING	ESP SEAL		1962.09	1968.11	6.02	2.88	2.44	6.5	J-55	
TUBING	ESP INTAKE		1958.59	1962.09	3.50	2.88	2.44	6.5	J-55	
TUBING	ESP GAS/FLUID		1953.99	1958.59	4.60	2.88	2.44	6.5	J-55	
TUBING	ELECTRIC		1942.69	1953.99	11.30	2.88	2.44	6.5	J-55	
TUBING	TUBING	1	0.00	1942.69	1942.69	2.88	2.44	6.5	J-55	

CEMENTING

STRING NAME	STAGE #	LEAD TOP (est) (ft)	LEAD TOP (ver) (ft)	TAIL TOP (est) (ft)	TAIL TOP (ver) (ft)
CONDUCTOR	1				
SURFACE	1	0.0	0.0	0.0	0.0
SURFACE	2	0.0			
PRODUCTION	1	0.0	0.0		



Company: COG Operating LLC (Concho)
Lease/Well: Pinto 36 State Com / No. 004H
Location: SEC36 T18S R25E
Rig Name: JW #4
State/County: New Mexico / Eddy
Latitude: 32.70
GRID North is 0.05 Degrees West of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB=13.1'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ... state com #4h_gyro survey.ut

Minimum Curvature Method

Report Date/Time: 8/15/2012 / 08:48

Vaughn Energy Services

Gardendale, Texas

432-563-5444

Surveyor: Colby Ware

Pinto 36 State Com No. 004H / API 30-015-40058

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W 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	****
100.00	0.34	93.35	100.00	-0.02	0.30	0.30	93.35	0.34
200.00	0.36	115.47	200.00	-0.17	0.88	0.89	100.96	0.14
300.00	0.47	127.91	299.99	-0.56	1.48	1.58	110.54	0.14
400.00	0.79	130.09	399.99	-1.25	2.33	2.65	118.19	0.32
500.00	0.94	137.44	499.98	-2.30	3.41	4.11	123.94	0.19
600.00	0.70	146.35	599.97	-3.41	4.31	5.49	128.38	0.27
700.00	0.53	165.15	699.96	-4.37	4.77	6.47	132.53	0.26
800.00	0.21	189.39	799.96	-5.01	4.86	6.97	135.87	0.35
900.00	0.46	212.44	899.96	-5.53	4.61	7.20	140.15	0.28
1000.00	0.49	244.38	999.95	-6.05	4.01	7.26	146.46	0.26
1100.00	0.66	256.87	1099.95	-6.37	3.06	7.06	154.34	0.21
1200.00	0.70	258.35	1199.94	-6.62	1.90	6.89	164.03	0.04
1300.00	0.68	260.80	1299.93	-6.84	0.71	6.88	174.07	0.04
1400.00	0.63	264.07	1399.93	-6.99	-0.43	7.00	183.48	0.06
1500.00	0.65	268.61	1499.92	-7.06	-1.55	7.23	192.34	0.05
1600.00	0.70	270.63	1599.91	-7.07	-2.72	7.58	201.07	0.05
1700.00	0.57	275.12	1699.91	-7.02	-3.83	8.00	208.63	0.13
1800.00	0.67	286.32	1799.90	-6.81	-4.89	8.39	215.71	0.16

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	0.57	298.10	1899.90	-6.41	-5.90	8.71	222.62	0.16
2000.00	0.55	300.95	1999.89	-5.93	-6.75	8.98	228.71	0.03
2100.00	0.73	315.25	2099.89	-5.23	-7.61	9.23	235.51	0.24
2200.00	0.39	329.53	2199.88	-4.49	-8.23	9.37	241.40	0.37
2300.00	0.48	338.90	2299.88	-3.80	-8.55	9.36	246.02	0.12
2400.00	0.75	330.02	2399.87	-2.85	-9.03	9.47	252.50	0.28
2500.00	0.79	327.73	2499.86	-1.70	-9.72	9.87	260.10	0.06
2600.00	0.68	326.43	2599.86	-0.62	-10.42	10.44	266.59	0.12
2700.00	0.29	324.92	2699.85	0.08	-10.89	10.89	270.41	0.38
2800.00	0.43	320.84	2799.85	0.57	-11.27	11.29	272.91	0.14
2900.00	0.64	318.91	2899.85	1.28	-11.87	11.94	276.16	0.21
3000.00	0.70	319.62	2999.84	2.16	-12.63	12.82	279.72	0.06
3100.00	0.42	320.78	3099.83	2.91	-13.26	13.57	282.38	0.28
3200.00	0.29	323.13	3199.83	3.40	-13.64	14.05	283.98	0.12
3300.00	0.58	324.10	3299.83	4.01	-14.09	14.65	285.88	0.28
3400.00	0.65	326.75	3399.82	4.89	-14.69	15.48	288.40	0.08
3500.00	0.72	342.73	3499.82	5.96	-15.19	16.32	291.42	0.20
3600.00	0.95	349.12	3599.81	7.37	-15.53	17.19	295.38	0.25
3700.00	1.61	355.67	3699.78	9.58	-15.79	18.47	301.24	0.67
3800.00	3.45	357.54	3799.68	13.98	-16.03	21.27	311.10	1.85
3900.00	4.87	359.48	3899.41	21.23	-16.19	26.70	322.66	1.42
4000.00	4.98	1.06	3999.04	29.81	-16.15	33.91	331.55	0.18
4026.00	5.16	2.71	4024.94	32.11	-16.08	35.91	333.40	0.87