



EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3600

June 4, 2015

State of New Mexico
Oil Conservation Division – District 1
1625 N. French Drive
Hobbs, New Mexico 88240

Re: Request for exception to Rule 107 J
Tubingless Completion
Dragon 36 State 701H

30-025-42316

HOBBS OCD

JUN 08 2015

RECEIVED

EOG Resources, Inc. requests an exception to NMOCD Rule 107 J regarding required production tubing. EOG requests a tubingless completion for our Dragon 36 State 701H to allow greater flowback after frac stimulation.

Our plan is to install production tubing as soon as flow decreases, which should occur within 6 months.

Thank you for your consideration of this request. If additional information is needed, please contact me at 432 686-3684.

Sincerely,

EOG Resources, Inc.

Renee Jarratt
Regulatory Analyst

JUN 17 2015



MWD SURVEY REPORT

MWD Services, LLC

Survey End Date : February 05, 2015
 Job Number : 15010
 Operator : EOG Resources, Inc.
 Lease / Well : Dragon 36 State #701H
 API Number : 30-025-42316
 Location : Lea County, New Mexico
 Field / Formation : Upper Wolfcamp
 Contractor / Rig : Nomac Drilling, LLC Rig 55
 Directional Company : EOG Resources, Inc.
 MWD Field Rep. : Paul Basaldu, Andrew Welter
 Tie In Survey Reference : Surface, Assume Vertical
 Calculation Method : Minimum Curvature

Target +N / -S = -4467.0'
 Target +E / -W = 457.0'
 Target TVD = 12520.0'
 Magnetic Declination +E / -W = 7.20°
 Grid Convergence +E / -W = 0.44°
 Total Correction +E / -W = 6.76°
 North Reference = Grid
 Magnetic Reference Model = WMM2015
 Declination Date = 1/12/15
 RKB Height = 21.00'
 Ground Level Elevation = 3507'
 Vertical Section Azimuth = 174.16°

Comments :

SURVEY # 0 = TIE IN SURVEY

SURVEY # 222 = STRAIGHT LINE PROJECTED OR PROJECTED SURVEY TO BIT DEPTH

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates +N / -S (ft)	+E / -W (ft)	Closure Distance (ft)	Azimuth (deg)	Dogleg Severity (deg/100')
0	0.00'	0.00°	0.00°		0.00'	0.00'	0.00'	0.00'			
1	187.00'	1.20°	255.70°	187'	186.99'	0.29'	-0.48'	-1.90'	1.96'	255.70°	0.64°
2	278.00'	1.50°	247.90°	91'	277.96'	0.76'	-1.17'	-3.92'	4.09'	253.44°	0.39°
3	400.00'	1.70°	245.00°	122'	399.91'	1.80'	-2.53'	-7.04'	7.49'	250.22°	0.18°
4	523.00'	1.80°	245.30°	123'	522.86'	3.03'	-4.11'	-10.45'	11.23'	248.53°	0.08°
5	679.00'	1.20°	173.60°	156'	678.81'	5.45'	-6.76'	-12.50'	14.21'	241.59°	1.17°
6	774.00'	1.90°	132.20°	95'	773.78'	7.62'	-8.80'	-11.22'	14.26'	231.87°	1.34°
7	868.00'	1.80°	133.60°	94'	867.73'	9.90'	-10.87'	-9.00'	14.11'	219.61°	0.12°
8	1059.00'	1.30°	129.20°	191'	1058.66'	13.71'	-14.31'	-5.14'	15.20'	199.77°	0.27°
9	1197.00'	1.70°	112.20°	138'	1196.61'	15.78'	-16.07'	-2.04'	16.20'	187.22°	0.43°
10	1348.00'	1.30°	95.80°	151'	1347.56'	17.18'	-17.09'	1.74'	17.18'	174.18°	0.39°
11	1443.00'	0.80°	70.60°	95'	1442.55'	17.24'	-16.98'	3.44'	17.32'	168.55°	0.70°
12	1538.00'	0.70°	65.70°	95'	1537.54'	16.90'	-16.52'	4.59'	17.15'	164.46°	0.12°
13	1633.00'	0.60°	50.80°	95'	1632.53'	16.44'	-15.97'	5.51'	16.89'	160.96°	0.21°
14	1728.00'	0.50°	46.00°	95'	1727.53'	15.91'	-15.36'	6.19'	16.56'	158.05°	0.12°
15	1824.00'	0.40°	49.00°	96'	1823.53'	15.46'	-14.85'	6.75'	16.31'	155.57°	0.11°
16	1919.00'	0.70°	27.50°	95'	1918.52'	14.79'	-14.12'	7.26'	15.88'	152.78°	0.38°
17	2110.00'	0.60°	23.20°	191'	2109.51'	12.94'	-12.17'	8.20'	14.67'	146.03°	0.06°
18	2300.00'	1.00°	11.90°	190'	2299.49'	10.49'	-9.63'	8.93'	13.13'	137.16°	0.23°
19	2490.00'	1.40°	347.90°	190'	2489.45'	6.60'	-5.74'	8.79'	10.49'	123.15°	0.33°
20	2681.00'	2.10°	48.00°	191'	2680.37'	2.22'	-1.11'	10.90'	10.96'	95.84°	0.97°
21	2871.00'	2.40°	48.80°	190'	2870.23'	-2.14'	3.84'	16.48'	16.92'	76.90°	0.16°
22	3061.00'	2.80°	50.10°	190'	3060.03'	-7.04'	9.43'	23.03'	24.89'	67.73°	0.21°
23	3251.00'	1.70°	31.50°	190'	3249.88'	-11.88'	14.81'	28.07'	31.73'	62.18°	0.69°
24	3442.00'	1.90°	39.60°	191'	3440.79'	-16.35'	19.67'	31.56'	37.19'	58.07°	0.17°
25	3632.00'	2.40°	47.90°	190'	3630.66'	-20.92'	24.76'	36.52'	44.13'	55.86°	0.31°
26	3823.00'	2.20°	29.10°	191'	3821.50'	-26.29'	30.65'	41.27'	51.41'	53.41°	0.41°

Srv.	Survey	Inclination	Azimuth	Course	True	Vertical	Coordinates		Closure		Dogleg
	Depth				Vertical		+N / -S	+E / -W	Distance	Azimuth	
27	3917.00'	2.10°	23.30°	94'	3915.44'	-29.27'	33.80'	42.83'	54.56'	51.72°	0.25°
28	4013.00'	1.90°	29.10°	96'	4011.38'	-32.11'	36.81'	44.30'	57.60'	50.28°	0.30°
29	4108.00'	2.00°	38.20°	95'	4106.33'	-34.59'	39.49'	46.09'	60.70'	49.41°	0.34°
30	4203.00'	2.10°	44.50°	95'	4201.26'	-36.90'	42.03'	48.34'	64.06'	48.99°	0.26°
31	4297.00'	2.50°	43.60°	94'	4295.19'	-39.33'	44.75'	50.96'	67.82'	48.71°	0.43°
32	4393.00'	2.70°	39.60°	96'	4391.09'	-42.28'	48.00'	53.84'	72.14'	48.28°	0.28°
33	4583.00'	3.40°	75.10°	190'	4580.84'	-46.30'	52.90'	62.14'	81.61'	49.59°	1.04°
34	4679.00'	2.70°	52.60°	96'	4676.70'	-47.94'	55.01'	66.69'	86.45'	50.48°	1.43°
35	4774.00'	2.80°	69.20°	95'	4771.60'	-49.71'	57.19'	70.64'	90.89'	51.00°	0.84°
36	4869.00'	3.50°	92.80°	95'	4866.45'	-49.87'	57.87'	75.70'	95.29'	52.60°	1.54°
37	4965.00'	3.30°	91.90°	96'	4962.29'	-49.06'	57.64'	81.39'	99.73'	54.70°	0.22°
38	5060.00'	3.50°	47.00°	95'	5057.13'	-50.44'	59.53'	86.24'	104.79'	55.39°	2.74°
39	5156.00'	2.20°	7.10°	96'	5153.02'	-54.01'	63.35'	88.62'	108.93'	54.44°	2.39°
40	5251.00'	2.00°	358.50°	95'	5247.96'	-57.44'	66.82'	88.80'	111.13'	53.04°	0.39°
41	5346.00'	2.00°	356.10°	95'	5342.90'	-60.75'	70.13'	88.64'	113.03'	51.65°	0.09°
42	5441.00'	2.10°	355.10°	95'	5437.84'	-64.14'	73.52'	88.38'	114.96'	50.24°	0.11°
43	5536.00'	2.20°	350.00°	95'	5532.77'	-67.70'	77.05'	87.92'	116.90'	48.77°	0.23°
44	5631.00'	2.10°	350.20°	95'	5627.71'	-71.26'	80.56'	87.30'	118.79'	47.30°	0.11°
45	5727.00'	1.90°	350.50°	96'	5723.65'	-74.60'	83.86'	86.74'	120.65'	45.97°	0.21°
46	5822.00'	1.80°	355.30°	95'	5818.60'	-77.66'	86.90'	86.36'	122.51'	44.82°	0.19°
47	5917.00'	1.90°	354.40°	95'	5913.55'	-80.73'	89.96'	86.08'	124.51'	43.74°	0.11°
48	6012.00'	1.90°	350.60°	95'	6008.50'	-83.88'	93.08'	85.67'	126.50'	42.63°	0.13°
49	6107.00'	1.90°	351.60°	95'	6103.44'	-87.02'	96.19'	85.18'	128.49'	41.53°	0.03°
50	6202.00'	2.10°	359.00°	95'	6198.39'	-90.33'	99.49'	84.92'	130.80'	40.48°	0.34°
51	6298.00'	1.90°	356.00°	96'	6294.33'	-93.67'	102.83'	84.78'	133.28'	39.50°	0.24°
52	6393.00'	2.20°	356.30°	95'	6389.27'	-97.07'	106.23'	84.55'	135.77'	38.52°	0.32°
53	6487.00'	3.50°	20.50°	94'	6483.15'	-101.45'	110.71'	85.44'	139.85'	37.66°	1.86°
54	6583.00'	3.50°	19.40°	96'	6578.97'	-106.72'	116.22'	87.44'	145.44'	36.96°	0.07°
55	6677.00'	5.10°	25.70°	94'	6672.71'	-112.88'	122.69'	90.21'	152.29'	36.32°	1.77°
56	6773.00'	5.30°	23.70°	96'	6768.31'	-120.37'	130.60'	93.84'	160.82'	35.70°	0.28°
57	6868.00'	5.30°	24.00°	95'	6862.91'	-128.00'	138.62'	97.39'	169.41'	35.09°	0.03°
58	6963.00'	6.40°	26.10°	95'	6957.41'	-136.29'	147.39'	101.50'	178.96'	34.55°	1.18°
59	7059.00'	7.00°	25.80°	96'	7052.75'	-145.82'	157.46'	106.40'	190.04'	34.05°	0.63°
60	7249.00'	6.20°	26.10°	190'	7241.49'	-164.38'	177.10'	115.96'	211.68'	33.21°	0.42°
61	7344.00'	6.10°	28.20°	95'	7335.95'	-172.92'	186.15'	120.60'	221.80'	32.94°	0.26°
62	7439.00'	5.90°	28.10°	95'	7430.43'	-181.15'	194.91'	125.28'	231.70'	32.73°	0.21°
63	7534.00'	6.10°	32.60°	95'	7524.91'	-189.15'	203.47'	130.30'	241.61'	32.64°	0.54°
64	7630.00'	5.80°	34.30°	96'	7620.39'	-196.86'	211.77'	135.78'	251.56'	32.67°	0.36°
65	7724.00'	5.80°	39.20°	94'	7713.91'	-203.84'	219.38'	141.46'	261.03'	32.82°	0.53°
66	7819.00'	5.30°	39.20°	95'	7808.46'	-210.34'	226.50'	147.27'	270.16'	33.03°	0.53°
67	7915.00'	5.10°	39.40°	96'	7904.07'	-216.47'	233.23'	152.78'	278.81'	33.23°	0.21°
68	8010.00'	5.10°	38.80°	95'	7998.69'	-222.45'	239.78'	158.11'	287.22'	33.40°	0.06°
69	8105.00'	7.00°	38.20°	95'	8093.16'	-229.62'	247.62'	164.33'	297.19'	33.57°	2.00°
70	8200.00'	6.60°	39.50°	95'	8187.49'	-237.62'	256.39'	171.38'	308.39'	33.76°	0.45°
71	8295.00'	6.40°	40.40°	95'	8281.88'	-245.12'	264.63'	178.29'	319.09'	33.97°	0.24°
72	8389.00'	6.00°	39.70°	94'	8375.33'	-252.18'	272.40'	184.82'	329.18'	34.16°	0.43°
73	8579.00'	5.90°	43.70°	190'	8564.31'	-265.47'	287.10'	197.91'	348.71'	34.58°	0.22°
74	8674.00'	5.90°	45.30°	95'	8658.80'	-271.70'	294.06'	204.76'	358.33'	34.85°	0.17°
75	8769.00'	5.50°	43.40°	95'	8753.33'	-277.74'	300.81'	211.35'	367.64'	35.09°	0.47°
76	8864.00'	6.70°	42.20°	95'	8847.79'	-284.42'	308.22'	218.21'	377.64'	35.30°	1.27°
77	8959.00'	7.30°	33.50°	95'	8942.09'	-292.79'	317.36'	225.26'	389.18'	35.37°	1.28°

Srv.	Survey	Inclination	Azimuth	Course	True	Vertical	Coordinates		Closure		Dogleg
	Depth			Length	Vertical	Section	+N / -S	+E / -W	Distance	Azimuth	Severity
78	9054.00'	6.90°	32.60°	95'	9036.36'	-301.93'	327.20'	231.67'	400.91'	35.30°	0.44°
79	9149.00'	6.30°	30.80°	95'	9130.73'	-310.58'	336.48'	237.41'	411.81'	35.21°	0.67°
80	9245.00'	5.70°	30.90°	96'	9226.20'	-318.63'	345.10'	242.55'	421.81'	35.10°	0.63°
81	9340.00'	6.90°	30.40°	95'	9320.63'	-327.01'	354.07'	247.86'	432.21'	34.99°	1.26°
82	9435.00'	6.20°	30.70°	95'	9415.01'	-335.74'	363.40'	253.37'	443.01'	34.88°	0.74°
83	9529.00'	5.00°	26.40°	94'	9508.56'	-343.28'	371.44'	257.78'	452.13'	34.76°	1.35°
84	9624.00'	6.60°	32.30°	95'	9603.07'	-351.08'	379.76'	262.54'	461.68'	34.66°	1.80°
85	9720.00'	6.80°	32.30°	96'	9698.41'	-359.88'	389.23'	268.53'	472.87'	34.60°	0.21°
86	9815.00'	6.40°	32.20°	95'	9792.78'	-368.48'	398.46'	274.35'	483.78'	34.55°	0.42°
87	9910.00'	5.40°	26.90°	95'	9887.28'	-376.41'	406.93'	279.20'	493.50'	34.45°	1.20°
88	10004.00'	6.60°	33.60°	94'	9980.76'	-384.30'	415.37'	284.19'	503.29'	34.38°	1.48°
89	10099.00'	5.60°	32.90°	95'	10075.22'	-392.13'	423.81'	289.73'	513.38'	34.36°	1.06°
90	10194.00'	4.90°	22.20°	95'	10169.83'	-399.33'	431.46'	293.78'	521.98'	34.25°	1.26°
91	10289.00'	6.40°	19.70°	95'	10264.36'	-407.69'	440.20'	297.10'	531.08'	34.02°	1.60°
92	10384.00'	6.80°	24.20°	95'	10358.73'	-417.34'	450.32'	301.19'	541.76'	33.78°	0.69°
93	10480.00'	7.00°	27.60°	96'	10454.04'	-427.14'	460.69'	306.23'	553.18'	33.61°	0.47°
94	10575.00'	6.80°	46.00°	95'	10548.36'	-435.44'	469.72'	312.96'	564.43'	33.67°	2.33°
95	10670.00'	5.80°	45.40°	95'	10642.79'	-441.92'	477.00'	320.42'	574.63'	33.89°	1.05°
96	10764.00'	5.80°	40.30°	94'	10736.31'	-448.19'	483.96'	326.87'	584.01'	34.04°	0.55°
97	10858.00'	4.90°	38.00°	94'	10829.90'	-454.37'	490.75'	332.42'	592.73'	34.11°	0.98°
98	10954.00'	4.90°	39.00°	96'	10925.55'	-460.24'	497.16'	337.52'	600.91'	34.17°	0.09°
99	11017.00'	3.80°	23.90°	63'	10988.37'	-463.96'	501.16'	340.06'	605.65'	34.16°	2.51°
100	11113.00'	5.60°	41.10°	96'	11084.04'	-469.92'	507.60'	344.43'	613.43'	34.16°	2.36°
101	11206.00'	4.80°	43.20°	93'	11176.66'	-475.57'	513.86'	350.08'	621.77'	34.27°	0.88°
102	11300.00'	4.30°	42.30°	94'	11270.36'	-480.50'	519.33'	355.14'	629.15'	34.37°	0.54°
103	11395.00'	4.30°	49.80°	95'	11365.10'	-484.89'	524.26'	360.26'	636.11'	34.50°	0.59°
104	11488.00'	3.40°	51.50°	93'	11457.89'	-488.34'	528.23'	365.08'	642.11'	34.65°	0.98°
105	11584.00'	2.90°	58.40°	96'	11553.74'	-490.93'	531.28'	369.38'	647.06'	34.81°	0.65°
106	11678.00'	2.60°	70.20°	94'	11647.63'	-492.48'	533.24'	373.41'	650.99'	35.00°	0.68°
107	11774.00'	2.40°	69.50°	96'	11743.54'	-493.52'	534.69'	377.34'	654.43'	35.21°	0.21°
108	11869.00'	1.80°	60.80°	95'	11838.48'	-494.61'	536.11'	380.50'	657.42'	35.37°	0.71°
109	11964.00'	1.50°	63.00°	95'	11933.44'	-495.65'	537.40'	382.91'	659.87'	35.47°	0.32°
110	11993.00'	1.20°	60.40°	29'	11962.43'	-495.91'	537.72'	383.52'	660.48'	35.50°	1.06°
111	12017.00'	1.10°	56.20°	24'	11986.43'	-496.12'	537.98'	383.93'	660.92'	35.51°	0.54°
112	12064.00'	2.50°	145.40°	47'	12033.41'	-495.43'	537.38'	384.88'	661.00'	35.61°	5.78°
113	12112.00'	9.50°	169.30°	48'	12081.12'	-490.56'	532.62'	386.22'	657.91'	35.95°	15.18°
114	12159.00'	13.30°	167.90°	47'	12127.18'	-481.32'	523.52'	388.07'	651.67'	36.55°	8.11°
115	12207.00'	19.70°	170.10°	48'	12173.18'	-467.75'	510.14'	390.62'	642.52'	37.44°	13.39°
116	12254.00'	27.10°	177.40°	47'	12216.30'	-449.13'	491.61'	392.47'	629.06'	38.60°	16.88°
117	12302.00'	33.10°	176.80°	48'	12257.81'	-425.10'	467.58'	393.70'	611.26'	40.10°	12.52°
118	12349.00'	37.00°	178.10°	47'	12296.28'	-398.16'	440.62'	394.89'	591.68'	41.87°	8.45°
119	12397.00'	43.00°	177.40°	48'	12333.03'	-367.38'	409.81'	396.11'	569.95'	44.03°	12.53°
120	12445.00'	47.00°	175.30°	48'	12366.97'	-333.47'	375.95'	398.29'	547.70'	46.65°	8.89°
121	12492.00'	54.70°	174.20°	47'	12396.62'	-297.05'	339.68'	401.64'	526.02'	49.78°	16.48°
122	12540.00'	61.60°	174.70°	48'	12421.93'	-256.31'	299.13'	405.58'	503.95'	53.59°	14.40°
123	12588.00'	65.40°	176.60°	48'	12443.35'	-213.37'	256.30'	408.82'	482.52'	57.92°	8.67°
124	12635.00'	72.00°	176.80°	47'	12460.41'	-169.65'	212.61'	411.34'	463.04'	62.67°	14.05°
125	12682.00'	80.00°	178.10°	47'	12471.77'	-124.16'	167.09'	413.36'	445.85'	67.99°	17.23°
126	12728.00'	86.30°	177.80°	46'	12477.25'	-78.61'	121.47'	414.99'	432.40'	73.69°	13.71°
127	12791.00'	88.50°	177.70°	63'	12480.11'	-15.81'	58.59'	417.46'	421.55'	82.01°	3.50°
128	12856.00'	91.40°	178.10°	65'	12480.17'	49.05'	-6.36'	419.84'	419.89'	90.87°	4.50°

Srv.	Survey Depth	Inclination	Azimuth	Course Length	True Vertical	Vertical Section	Coordinates		Closure		Dogleg Severity
							+N / -S	+E / -W	Distance	Azimuth	
129	12904.00'	91.80°	178.90°	48'	12478.83'	96.89'	-54.33'	421.10'	424.59'	97.35°	1.86°
130	12951.00'	90.00°	179.90°	47'	12478.09'	143.69'	-101.32'	421.59'	433.59'	103.51°	4.38°
131	13046.00'	89.30°	181.10°	95'	12478.67'	238.10'	-196.31'	420.76'	464.30'	115.01°	1.46°
132	13078.00'	89.80°	182.20°	32'	12478.92'	269.83'	-228.29'	419.84'	477.90'	118.54°	3.78°
133	13141.00'	88.20°	181.10°	63'	12480.02'	332.28'	-291.25'	418.03'	509.49'	124.87°	3.08°
134	13236.00'	87.40°	183.70°	95'	12483.67'	426.22'	-386.09'	414.05'	566.13'	133.00°	2.86°
135	13331.00'	89.90°	182.80°	95'	12485.91'	519.99'	-480.90'	408.67'	631.09'	139.64°	2.80°
136	13367.00'	90.00°	181.80°	36'	12485.94'	555.63'	-516.88'	407.22'	658.02'	141.77°	2.79°
137	13426.00'	88.70°	180.30°	59'	12486.61'	614.20'	-575.86'	406.14'	704.67'	144.81°	3.36°
138	13520.00'	87.60°	178.00°	94'	12489.64'	707.78'	-669.79'	407.54'	784.03'	148.68°	2.71°
139	13541.00'	86.90°	177.80°	21'	12490.65'	728.71'	-690.75'	408.30'	802.40'	149.41°	3.47°
140	13576.00'	86.60°	178.10°	35'	12492.64'	763.58'	-725.67'	409.55'	833.27'	150.56°	1.21°
141	13615.00'	87.40°	177.50°	39'	12494.68'	802.45'	-764.59'	411.05'	868.08'	151.74°	2.56°
142	13629.00'	87.40°	176.40°	14'	12495.31'	816.42'	-778.56'	411.79'	880.75'	152.12°	7.85°
143	13711.00'	90.10°	175.80°	82'	12497.10'	898.34'	-860.34'	417.37'	956.23'	154.12°	3.37°
144	13758.00'	87.80°	174.20°	47'	12497.96'	945.33'	-907.15'	421.46'	1000.28'	155.08°	5.96°
145	13806.00'	89.10°	176.20°	48'	12499.26'	993.30'	-954.96'	425.48'	1045.46'	155.98°	4.97°
146	13838.00'	90.40°	175.60°	32'	12499.40'	1025.28'	-986.88'	427.77'	1075.60'	156.57°	4.47°
147	13900.00'	88.50°	174.30°	62'	12499.99'	1087.27'	-1048.63'	433.22'	1134.59'	157.55°	3.71°
148	13995.00'	93.20°	176.70°	95'	12498.59'	1182.20'	-1143.29'	440.68'	1225.28'	158.92°	5.55°
149	14018.00'	94.20°	177.30°	23'	12497.10'	1205.12'	-1166.21'	441.88'	1247.12'	159.25°	5.07°
150	14058.00'	94.90°	178.10°	40'	12493.93'	1244.92'	-1206.05'	443.48'	1285.00'	159.81°	2.65°
151	14074.00'	94.30°	179.50°	16'	12492.64'	1260.81'	-1222.00'	443.81'	1300.09'	160.04°	9.49°
152	14090.00'	93.40°	180.30°	16'	12491.57'	1276.70'	-1237.96'	443.84'	1315.12'	160.28°	7.52°
153	14185.00'	84.60°	180.70°	95'	12493.23'	1371.01'	-1332.85'	443.01'	1404.55'	161.61°	9.27°
154	14217.00'	85.60°	180.80°	32'	12495.96'	1402.68'	-1364.73'	442.59'	1434.70'	162.03°	3.14°
155	14249.00'	87.50°	178.90°	32'	12497.89'	1434.46'	-1396.67'	442.68'	1465.14'	162.41°	8.39°
156	14280.00'	88.60°	178.10°	31'	12498.94'	1465.36'	-1427.64'	443.49'	1494.94'	162.74°	4.39°
157	14312.00'	89.40°	178.70°	32'	12499.50'	1497.26'	-1459.62'	444.38'	1525.77'	163.07°	3.12°
158	14374.00'	90.30°	179.50°	62'	12499.66'	1559.03'	-1521.61'	445.36'	1585.45'	163.69°	1.94°
159	14474.00'	90.20°	182.50°	100'	12499.22'	1658.31'	-1621.59'	443.61'	1681.17'	164.70°	3.00°
160	14506.00'	90.40°	182.60°	32'	12499.06'	1689.96'	-1653.55'	442.19'	1711.66'	165.03°	0.70°
161	14569.00'	88.80°	182.50°	63'	12499.50'	1752.29'	-1716.49'	439.38'	1771.83'	165.64°	2.54°
162	14601.00'	88.90°	182.90°	32'	12500.14'	1783.92'	-1748.44'	437.88'	1802.44'	165.94°	1.29°
163	14664.00'	86.00°	181.00°	63'	12502.94'	1846.27'	-1811.34'	435.73'	1863.01'	166.47°	5.50°
164	14727.00'	86.90°	180.20°	63'	12506.84'	1908.75'	-1874.21'	435.08'	1924.05'	166.93°	1.91°
165	14759.00'	87.00°	180.00°	32'	12508.55'	1940.54'	-1906.17'	435.02'	1955.18'	167.14°	0.70°
166	14822.00'	87.80°	178.90°	63'	12511.40'	2003.20'	-1969.10'	435.62'	2016.71'	167.53°	2.16°
167	14854.00'	88.50°	178.30°	32'	12512.44'	2035.09'	-2001.07'	436.41'	2048.10'	167.70°	2.88°
168	14886.00'	88.30°	178.40°	32'	12513.33'	2066.99'	-2033.04'	437.33'	2079.55'	167.86°	0.70°
169	14949.00'	87.50°	177.80°	63'	12515.64'	2129.80'	-2095.97'	439.41'	2141.53'	168.16°	1.59°
170	14981.00'	88.70°	178.20°	32'	12516.70'	2161.71'	-2127.93'	440.53'	2173.05'	168.30°	3.95°
171	15012.00'	90.60°	178.90°	31'	12516.89'	2192.62'	-2158.92'	441.32'	2203.56'	168.45°	6.53°
172	15043.00'	92.20°	179.10°	31'	12516.13'	2223.49'	-2189.90'	441.86'	2234.03'	168.59°	5.20°
173	15139.00'	88.00°	179.60°	96'	12515.96'	2319.08'	-2285.87'	442.94'	2328.39'	169.03°	4.41°
174	15202.00'	87.70°	179.40°	63'	12518.33'	2381.76'	-2348.83'	443.49'	2390.33'	169.31°	0.57°
175	15234.00'	87.30°	178.70°	32'	12519.72'	2413.61'	-2380.79'	444.02'	2421.84'	169.44°	2.52°
176	15265.00'	88.30°	179.50°	31'	12520.91'	2444.48'	-2411.76'	444.51'	2452.39'	169.56°	4.13°
177	15329.00'	89.30°	179.50°	64'	12522.25'	2508.18'	-2475.75'	445.07'	2515.43'	169.81°	1.56°
178	15361.00'	88.90°	179.00°	32'	12522.76'	2540.05'	-2507.74'	445.49'	2547.00'	169.93°	2.00°
179	15424.00'	87.10°	178.00°	63'	12524.96'	2602.83'	-2570.68'	447.14'	2609.27'	170.13°	3.27°

Srv.	Survey	Inclination	Azimuth	Course Length	True	Vertical	Coordinates		Closure		Dogleg Severity
	Depth				Vertical	Section	+N / -S	+E / -W	Distance	Azimuth	
180	15488.00'	86.40°	177.70°	64'	12528.58'	2666.60'	-2634.53'	449.53'	2672.61'	170.32°	1.19°
181	15519.00'	87.10°	177.90°	31'	12530.34'	2697.48'	-2665.46'	450.72'	2703.29'	170.40°	2.35°
182	15551.00'	90.40°	178.10°	32'	12531.04'	2729.40'	-2697.42'	451.84'	2735.00'	170.49°	10.33°
183	15582.00'	92.80°	178.00°	31'	12530.17'	2760.31'	-2728.39'	452.89'	2765.72'	170.58°	7.75°
184	15614.00'	93.10°	178.10°	32'	12528.53'	2792.20'	-2760.33'	453.98'	2797.41'	170.66°	0.99°
185	15678.00'	89.50°	179.00°	64'	12527.07'	2855.98'	-2824.28'	455.60'	2860.79'	170.84°	5.80°
186	15710.00'	88.30°	179.00°	32'	12527.69'	2887.86'	-2856.27'	456.16'	2892.47'	170.93°	3.75°
187	15773.00'	88.60°	178.30°	63'	12529.39'	2950.64'	-2919.23'	457.64'	2954.88'	171.09°	1.21°
188	15804.00'	88.10°	177.70°	31'	12530.29'	2981.56'	-2950.20'	458.72'	2985.65'	171.16°	2.52°
189	15899.00'	87.60°	177.30°	95'	12533.85'	3076.33'	-3045.04'	462.86'	3080.02'	171.36°	0.67°
190	15994.00'	88.60°	179.30°	95'	12537.00'	3171.03'	-3139.94'	465.68'	3174.28'	171.56°	2.35°
191	16089.00'	84.50°	177.60°	95'	12542.72'	3265.57'	-3234.71'	468.24'	3268.42'	171.76°	4.67°
192	16121.00'	86.20°	179.00°	32'	12545.31'	3297.37'	-3266.59'	469.18'	3300.11'	171.83°	6.87°
193	16153.00'	86.50°	179.00°	32'	12547.35'	3329.20'	-3298.52'	469.74'	3331.80'	171.90°	0.94°
194	16184.00'	86.50°	179.10°	31'	12549.24'	3360.03'	-3329.46'	470.26'	3362.50'	171.96°	0.32°
195	16216.00'	86.70°	179.60°	32'	12551.14'	3391.84'	-3361.40'	470.62'	3394.18'	172.03°	1.68°
196	16280.00'	89.50°	180.30°	64'	12553.26'	3455.47'	-3425.36'	470.67'	3457.54'	172.18°	4.51°
197	16300.00'	89.70°	180.20°	20'	12553.40'	3475.36'	-3445.36'	470.59'	3477.34'	172.22°	1.12°
198	16343.00'	89.80°	179.90°	43'	12553.59'	3518.13'	-3488.35'	470.55'	3519.95'	172.32°	0.74°
199	16375.00'	87.40°	179.10°	32'	12554.37'	3549.98'	-3520.34'	470.83'	3551.69'	172.38°	7.91°
200	16407.00'	87.70°	179.30°	32'	12555.74'	3581.82'	-3552.31'	471.27'	3583.43'	172.44°	1.13°
201	16470.00'	89.40°	179.70°	63'	12557.33'	3644.53'	-3615.28'	471.82'	3645.94'	172.56°	2.77°
202	16534.00'	91.50°	180.00°	64'	12556.83'	3708.21'	-3679.28'	471.99'	3709.43'	172.69°	3.31°
203	16566.00'	92.40°	180.10°	32'	12555.74'	3740.02'	-3711.26'	471.96'	3741.15'	172.75°	2.83°
204	16597.00'	92.30°	179.80°	31'	12554.47'	3770.84'	-3742.23'	471.99'	3771.88'	172.81°	1.02°
205	16629.00'	91.50°	179.70°	32'	12553.41'	3802.67'	-3774.22'	472.13'	3803.63'	172.87°	2.52°
206	16661.00'	92.70°	180.70°	32'	12552.23'	3834.47'	-3806.19'	472.02'	3835.35'	172.93°	4.88°
207	16692.00'	94.40°	180.80°	31'	12550.32'	3865.20'	-3837.13'	471.61'	3866.00'	172.99°	5.49°
208	16661.00'	92.70°	180.70°	-31'	12552.23'	3834.47'	-3806.19'	472.02'	3835.35'	172.93°	-5.49°
209	16692.00'	94.40°	180.80°	31'	12550.32'	3865.20'	-3837.13'	471.61'	3866.00'	172.99°	5.49°
210	16724.00'	95.20°	181.20°	32'	12547.64'	3896.86'	-3869.01'	471.06'	3897.58'	173.06°	2.79°
211	16750.00'	96.30°	182.10°	26'	12545.03'	3922.51'	-3894.87'	470.31'	3923.16'	173.11°	5.46°
212	16782.00'	95.70°	182.10°	32'	12541.69'	3954.03'	-3926.67'	469.15'	3954.60'	173.19°	1.88°
213	16813.00'	95.30°	182.70°	31'	12538.72'	3984.57'	-3957.50'	467.85'	3985.06'	173.26°	2.32°
214	16845.00'	91.80°	182.00°	32'	12536.74'	4016.18'	-3989.41'	466.54'	4016.60'	173.33°	11.15°
215	16877.00'	87.70°	181.70°	32'	12536.87'	4047.88'	-4021.39'	465.51'	4048.24'	173.40°	12.85°
216	16941.00'	86.50°	181.80°	64'	12540.11'	4111.24'	-4085.27'	463.56'	4111.49'	173.53°	1.88°
217	17004.00'	87.40°	183.10°	63'	12543.46'	4173.49'	-4148.12'	460.87'	4173.65'	173.66°	2.51°
218	17035.00'	87.90°	183.90°	31'	12544.74'	4204.05'	-4179.04'	458.98'	4204.17'	173.73°	3.04°
219	17067.00'	87.80°	183.60°	32'	12545.94'	4235.58'	-4210.95'	456.89'	4235.66'	173.81°	0.99°
220	17130.00'	87.70°	183.50°	63'	12548.41'	4297.69'	-4273.78'	452.99'	4297.72'	173.95°	0.22°
221	17195.00'	87.50°	183.10°	65'	12551.13'	4361.81'	-4338.61'	449.25'	4361.81'	174.09°	0.69°
222	17323.00'	87.50°	183.10°	128'	12556.72'	4488.13'	-4466.31'	442.34'	4488.16'	174.34°	0.00°

