

Stryker Energy Directional Services, LLC

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: EOG RESOURCES
Lease Name: Endurance 36 State Com #706H
API /Job Number: 30-025-43228 M161064
Comments: Tie-in to Stryker Directional Survey
Survey Company: Stryker Energy Directional Services, LLC

Target KBTVD: 12,629.98 Feet
Target Angle: 90.16 Degrees
Section Plane: 359.31 Degrees
Declination Corrected to Grid: 6.58 Degrees
Bit to Survey Offset: 41 Feet

Survey Number	Measured Depth	Drift (Degrees)	Azimuth (Degrees)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	BUR	DLS	KBTVD	-Below Target
T/I	0	0.0	0.0	N/A	0	0.0	0.0	0.0	N/A	N/A		
1	199	0.9	328.5	199	199.0	1.3	1.3	-0.8	0.5	0.5	199.0	12431.0
2	381	0.7	349.5	182	381.0	3.7	3.6	-1.8	-0.1	0.2	381.0	12249.0
3	565	0.7	5.3	184	565.0	5.9	5.9	-1.9	0.0	0.1	565.0	12065.0
4	751	0.4	44.5	186	751.0	7.5	7.5	-1.3	-0.2	0.2	751.0	11879.0
5	937	0.7	68.1	186	936.9	8.3	8.4	0.2	0.2	0.2	937.0	11693.0
6	952	0.6	89.7	15	951.9	8.4	8.4	0.4	-0.7	1.8	952.0	11678.0
7	1060	0.9	110.4	108	1059.9	8.1	8.1	1.7	0.3	0.4	1060.0	11570.0
8	1153	1.0	101.9	93	1152.9	7.6	7.7	3.2	0.1	0.2	1152.9	11477.0
9	1339	1.5	149.5	186	1338.9	5.2	5.2	6.0	0.3	0.6	1338.9	11291.1
10	1525	3.0	177.4	186	1524.7	-1.8	-1.7	7.5	0.8	1.0	1524.7	11105.3
11	1712	4.3	197.7	187	1711.4	-13.4	-13.3	5.6	0.7	1.0	1711.3	10918.7
12	1900	4.6	194.9	188	1898.8	-27.3	-27.3	1.5	0.2	0.2	1898.7	10731.3
13	2087	3.4	193.6	187	2085.3	-39.9	-39.9	-1.7	-0.6	0.6	2085.2	10544.8
14	2273	3.8	182.5	186	2271.0	-51.4	-51.4	-3.3	0.2	0.4	2270.8	10359.2
15	2460	3.9	172.5	187	2457.5	-63.9	-63.9	-2.7	0.1	0.4	2457.4	10172.6
16	2647	3.6	184.7	187	2644.1	-76.1	-76.1	-2.4	-0.2	0.5	2643.9	9986.1
17	2834	3.6	174.5	187	2830.8	-87.8	-87.8	-2.3	0.0	0.3	2830.5	9799.5
18	3020	4.2	194.6	186	3016.3	-100.1	-100.2	-3.5	0.3	0.8	3016.1	9613.9
19	3207	3.8	178.9	187	3202.9	-112.9	-113.0	-5.1	-0.2	0.6	3202.6	9427.4
20	3395	3.0	192.3	188	3390.6	-124.0	-124.1	-6.0	-0.4	0.6	3390.2	9239.8
21	3582	3.0	198.7	187	3577.3	-133.4	-133.5	-8.6	0.0	0.2	3576.9	9053.1
22	3771	2.5	190.4	189	3766.1	-142.1	-142.2	-10.9	-0.3	0.3	3765.7	8864.3
23	3957	2.5	139.5	186	3951.9	-149.2	-149.3	-9.0	0.0	1.2	3951.5	8678.5
24	4145	2.8	139.2	188	4139.7	-155.8	-155.9	-3.4	0.2	0.2	4139.3	8490.7
25	4331	3.2	164.0	186	4325.5	-164.3	-164.3	1.0	0.2	0.7	4325.0	8305.0
26	4517	3.3	193.5	186	4511.2	-174.5	-174.5	1.2	0.1	0.9	4510.7	8119.3
27	4705	2.9	171.3	188	4698.9	-184.5	-184.5	0.7	-0.2	0.7	4698.4	7931.6
28	4892	3.9	180.5	187	4885.6	-195.5	-195.5	1.3	0.5	0.6	4885.0	7745.0
29	5081	4.2	189.0	189	5074.1	-208.8	-208.8	0.2	0.2	0.4	5073.5	7556.5
30	5268	3.7	188.1	187	5260.6	-221.5	-221.5	-1.7	-0.3	0.3	5260.0	7370.0
31	5454	3.7	186.6	186	5446.3	-233.3	-233.4	-3.3	0.0	0.1	5445.6	7184.4
32	5641	3.9	187.6	187	5632.8	-245.6	-245.7	-4.8	0.1	0.1	5632.2	6997.8
33	5828	3.4	194.5	187	5819.5	-257.3	-257.4	-7.0	-0.3	0.4	5818.7	6811.2
34	6015	3.5	192.6	187	6006.1	-268.2	-268.3	-9.7	0.1	0.1	6005.4	6624.6
35	6203	3.3	188.2	188	6193.8	-279.1	-279.3	-11.7	-0.1	0.2	6193.0	6437.0
36	6390	3.1	187.5	187	6380.5	-289.4	-289.6	-13.1	-0.1	0.1	6379.7	6250.3
37	6575	3.0	184.8	185	6565.2	-299.2	-299.4	-14.2	-0.1	0.1	6564.4	6065.6
38	6761	2.9	183.0	186	6751.0	-308.7	-308.9	-14.8	-0.1	0.1	6750.1	5879.8
39	6948	2.6	164.3	187	6937.8	-317.6	-317.8	-13.9	-0.2	0.5	6936.9	5693.1
40	7134	2.6	168.0	186	7123.6	-325.8	-325.9	-11.9	0.0	0.1	7122.7	5507.3
41	7322	2.1	159.9	188	7311.4	-333.2	-333.3	-9.9	-0.3	0.3	7310.5	5319.5
42	7509	1.1	149.1	187	7498.3	-338.0	-338.1	-7.8	-0.5	0.6	7497.4	5132.6
43	7695	1.3	141.5	186	7684.3	-341.2	-341.3	-5.5	0.1	0.1	7683.4	4946.6
44	7882	0.3	84.5	187	7871.3	-342.8	-342.9	-3.7	-0.5	0.6	7870.3	4759.7
45	8069	0.7	203.5	187	8058.3	-343.8	-343.9	-3.7	0.2	0.5	8057.3	4572.7
46	8256	0.9	188.5	187	8245.3	-346.3	-346.4	-4.4	0.1	0.2	8244.3	4385.7
47	8444	1.1	166.3	188	8433.2	-349.5	-349.6	-4.1	0.1	0.2	8432.3	4197.7
48	8631	1.2	168.7	187	8620.2	-353.2	-353.3	-3.3	0.1	0.1	8619.2	4010.8
49	8819	0.6	236.2	188	8808.2	-355.7	-355.8	-3.8	-0.3	0.6	8807.2	3822.8
50	9006	1.3	88.8	187	8995.2	-356.2	-356.3	-2.5	0.4	1.0	8994.2	3635.8
51	9194	2.5	84.9	188	9183.0	-355.9	-355.8	3.8	0.6	0.6	9182.1	3447.9
52	9381	1.2	261.1	187	9369.9	-355.8	-355.8	5.9	-0.7	2.0	9368.9	3261.0
53	9568	1.2	257.0	187	9556.9	-356.5	-356.5	2.0	0.0	0.0	9555.9	3074.1
54	9754	1.2	236.3	186	9742.9	-358.0	-358.0	-1.5	0.0	0.2	9741.9	2888.1
55	9949	1.5	262.6	195	9937.8	-359.4	-359.5	-5.7	0.2	0.3	9936.8	2693.2
56	10135	1.8	277.5	186	10123.7	-359.3	-359.4	-11.0	0.2	0.3	10122.7	2507.3
57	10320	2.9	313.8	185	10308.6	-355.6	-355.8	-17.3	0.6	1.0	10307.6	2322.4
58	10506	2.3	301.7	186	10494.4	-350.3	-350.6	-23.8	-0.3	0.4	10493.4	2136.6
59	10692	0.8	353.3	186	10680.3	-347.0	-347.4	-27.2	-0.8	1.0	10679.3	1950.6
60	10879	2.2	326.5	187	10867.2	-342.7	-343.1	-29.3	0.7	0.8	10866.3	1763.7
61	11066	1.2	290.4	187	11054.1	-339.0	-339.4	-33.1	-0.5	0.8	11053.2	1576.8
62	11253	1.8	279.3	187	11241.1	-337.8	-338.2	-37.9	0.3	0.4	11240.1	1389.8
63	11439	0.6	197.0	186	11427.0	-338.2	-338.7	-41.0	-0.6	1.0	11426.1	1203.9
64	11627	0.6	205.5	188	11615.0	-340.0	-340.5	-41.7	0.0	0.0	11614.1	1015.9
65	11814	2.8	249.4	187	11801.9	-342.4	-343.0	-46.4	1.2	1.3	11801.0	829.0
66	11847	2.9	252.4	33	11834.9	-342.9	-343.5	-48.0	0.3	0.5	11833.9	796.0

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67	11916	3.3	255.2	69	11903.8	-343.9	-344.6	-51.6	0.6	0.6	11902.8	727.2
68	12103	0.3	61.9	187	12090.6	-345.0	-345.7	-56.3	-1.6	1.9	12089.7	540.3
69	12196	0.6	338.7	93	12183.6	-344.5	-345.2	-56.3	0.3	0.7	12182.7	447.3
70	12243	7.2	4.0	47	12230.5	-341.3	-342.0	-56.2	14.0	14.2	12229.5	400.4
71	12289	14.7	2.8	46	12275.6	-332.6	-333.3	-55.7	16.3	16.3	12274.7	355.3
72	12336	23.5	4.1	47	12320.0	-317.3	-317.9	-54.7	18.7	18.7	12319.1	310.9
73	12382	30.1	3.9	46	12361.0	-296.6	-297.3	-53.3	14.3	14.3	12360.2	269.8
74	12429	37.1	2.8	47	12400.2	-270.7	-271.3	-51.8	14.9	14.9	12399.4	230.6
75	12475	42.0	3.3	46	12435.6	-241.4	-242.1	-50.2	10.7	10.7	12434.9	195.0
76	12522	43.6	1.9	47	12470.1	-209.6	-210.2	-48.8	3.4	4.0	12469.5	160.5
77	12567	48.0	0.4	45	12501.5	-177.3	-177.9	-48.2	9.8	10.1	12501.0	129.0
78	12614	59.3	358.8	47	12529.3	-139.5	-140.1	-48.5	24.0	24.2	12528.9	101.1
79	12660	70.1	359.5	46	12548.9	-98.0	-98.6	-49.1	23.5	23.5	12548.6	81.3
80	12707	71.5	358.9	47	12564.4	-53.6	-54.2	-49.7	3.0	3.2	12564.2	65.8
81	12753	76.0	359.5	46	12577.2	-9.5	-10.1	-50.3	9.8	9.9	12577.2	52.8
82	12800	78.5	0.3	47	12587.6	36.4	35.7	-50.4	5.3	5.6	12587.7	42.3
83	12838	85.3	1.1	38	12593.0	73.9	73.3	-49.9	17.9	18.0	12593.2	36.8
84	12884	88.2	1.5	46	12595.6	119.8	119.3	-48.9	6.3	6.4	12595.9	34.1
85	12976	90.1	2.5	92	12596.9	211.7	211.2	-45.7	2.1	2.3	12597.5	32.5
86	13069	89.7	3.1	93	12597.1	304.5	304.1	-41.1	-0.4	0.8	12597.9	32.0
87	13162	91.1	359.9	93	12596.4	397.5	397.0	-38.7	1.5	3.8	12597.6	32.4
88	13255	90.2	0.3	93	12595.4	490.4	490.0	-38.5	-1.0	1.1	12596.8	33.2
89	13348	90.1	359.3	93	12595.1	583.4	583.0	-38.9	-0.1	1.1	12596.8	33.2
90	13442	89.8	359.1	94	12595.2	677.4	677.0	-40.2	-0.3	0.4	12597.1	32.9
91	13535	89.7	359.5	93	12595.6	770.4	770.0	-41.3	-0.1	0.4	12597.8	32.2
92	13629	90.5	0.8	94	12595.5	864.4	864.0	-41.1	0.9	1.6	12597.9	32.1
93	13723	90.1	0.3	94	12595.0	958.4	958.0	-40.2	-0.4	0.7	12597.7	32.3
94	13817	90.1	359.1	94	12594.8	1,052.4	1,052.0	-40.6	0.0	1.3	12597.7	32.2
95	13911	90.1	358.8	94	12594.6	1,146.4	1,146.0	-42.4	0.0	0.3	12597.8	32.1
96	14004	88.9	357.5	93	12595.5	1,239.3	1,238.9	-45.4	-1.3	1.9	12598.9	31.1
97	14097	89.9	358.3	93	12596.4	1,332.3	1,331.8	-48.8	1.1	1.4	12600.2	29.8
98	14190	87.3	358.8	93	12598.7	1,425.3	1,424.7	-51.1	-2.8	2.8	12602.7	27.3
99	14283	89.2	358.8	93	12601.5	1,518.2	1,517.7	-53.1	2.0	2.0	12605.8	24.2
100	14376	89.4	358.5	93	12602.7	1,611.2	1,610.6	-55.3	0.2	0.4	12607.2	22.8
101	14469	90.5	359.0	93	12602.8	1,704.2	1,703.6	-57.3	1.2	1.3	12607.5	22.5
102	14562	90.8	358.5	93	12601.7	1,797.2	1,796.6	-59.3	0.3	0.6	12606.7	23.3
103	14655	90.8	358.1	93	12600.4	1,890.1	1,889.5	-62.1	0.0	0.4	12605.7	24.3
104	14748	90.9	359.6	93	12599.0	1,983.1	1,982.5	-63.9	0.1	1.6	12604.6	25.4
105	14842	92.0	360.0	94	12596.6	2,077.1	2,076.5	-64.3	1.2	1.2	12602.4	27.5
106	14936	89.5	0.3	94	12595.4	2,171.1	2,170.4	-64.0	-2.7	2.7	12601.5	28.5
107	15029	90.3	1.1	93	12595.6	2,264.0	2,263.4	-62.9	0.9	1.2	12601.9	28.1
108	15123	90.6	3.2	94	12594.8	2,357.9	2,357.4	-59.4	0.3	2.3	12601.4	28.6
109	15216	90.0	3.4	93	12594.4	2,450.7	2,450.2	-54.0	-0.6	0.7	12601.2	28.8
110	15310	88.4	1.9	94	12595.7	2,544.5	2,544.1	-49.7	-1.7	2.3	12602.8	27.2
111	15403	89.1	2.8	93	12597.7	2,637.3	2,637.0	-45.9	0.8	1.2	12605.1	24.9
112	15497	90.0	3.1	94	12598.4	2,731.1	2,730.8	-41.0	1.0	1.0	12606.1	23.9
113	15590	88.1	359.5	93	12600.0	2,824.0	2,823.7	-38.9	-2.0	4.4	12607.9	22.1
114	15683	89.7	359.4	93	12601.8	2,917.0	2,916.7	-39.8	1.7	1.7	12609.9	20.1
115	15776	90.9	359.9	93	12601.3	3,010.0	3,009.7	-40.4	1.3	1.4	12609.7	20.3
116	15869	91.5	0.3	93	12599.3	3,103.0	3,102.7	-40.2	0.6	0.8	12608.0	22.0
117	15963	87.8	359.9	94	12599.9	3,196.9	3,196.6	-40.0	-3.9	4.0	12608.8	21.2
118	16056	88.2	0.7	93	12603.1	3,289.8	3,289.6	-39.6	0.4	1.0	12612.3	17.6
119	16149	88.3	358.8	93	12606.0	3,382.8	3,382.5	-40.0	0.1	2.0	12615.4	14.5
120	16242	89.9	358.1	93	12607.4	3,475.7	3,475.5	-42.5	1.7	1.9	12617.2	12.8
121	16336	90.5	358.2	94	12607.1	3,569.7	3,569.4	-45.5	0.6	0.6	12617.1	12.9
122	16429	91.3	358.9	93	12605.7	3,662.7	3,662.4	-47.9	0.9	1.1	12615.9	14.1
123	16524	88.8	359.4	95	12605.6	3,757.7	3,757.4	-49.3	-2.6	2.7	12616.1	13.9
124	16617	90.0	0.5	93	12606.5	3,850.7	3,850.4	-49.4	1.3	1.8	12617.3	12.7
125	16709	91.1	1.5	92	12605.7	3,942.6	3,942.3	-47.8	1.2	1.6	12616.7	13.3
126	16802	90.5	0.1	93	12604.4	4,035.6	4,035.3	-46.5	-0.6	1.6	12615.6	14.3
127	16896	90.9	1.0	94	12603.2	4,129.5	4,129.3	-45.6	0.4	1.0	12614.8	15.2
128	16989	88.7	359.8	93	12603.5	4,222.5	4,222.3	-44.9	-2.4	2.7	12615.3	14.6
129	17082	89.7	1.0	93	12604.8	4,315.5	4,315.3	-44.3	1.1	1.7	12616.9	13.1
130	17175	89.0	358.4	93	12605.9	4,408.4	4,408.2	-44.7	-0.8	2.9	12618.2	11.8
131	17268	89.9	359.0	93	12606.8	4,501.4	4,501.2	-46.8	1.0	1.2	12619.4	10.6
132	17362	90.6	359.5	94	12606.4	4,595.4	4,595.2	-48.1	0.7	0.9	12619.2	10.8
133	17456	89.8	358.7	94	12606.1	4,689.4	4,689.2	-49.6	-0.9	1.2	12619.1	10.8

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134	17549	91.2	359.7	93	12605.2	4,782.4	4,782.2	-50.9	1.5	1.8	12618.6	11.4
135	17642	89.5	358.9	93	12604.7	4,875.4	4,875.1	-52.0	-1.8	2.0	12618.3	11.7
136	17736	88.7	358.9	94	12606.1	4,969.4	4,969.1	-53.8	-0.9	0.9	12620.0	10.0
137	17829	89.3	358.8	93	12607.8	5,062.4	5,062.1	-55.7	0.6	0.7	12621.9	8.1
138	17923	87.2	357.7	94	12610.6	5,156.3	5,156.0	-58.5	-2.2	2.5	12625.0	4.9
139	18016	87.0	357.6	93	12615.3	5,249.1	5,248.8	-62.3	-0.2	0.2	12630.0	0.0
140	18109	89.7	358.8	93	12618.0	5,342.1	5,341.7	-65.3	2.9	3.2	12632.9	-3.0
141	18202	88.8	359.2	93	12619.2	5,435.1	5,434.6	-66.9	-1.0	1.1	12634.4	-4.4
142	18295	89.1	357.4	93	12620.9	5,528.0	5,527.6	-69.6	0.3	2.0	12636.4	-6.4
143	18342	89.4	356.5	47	12621.6	5,575.0	5,574.5	-72.1	0.6	2.0	12637.1	-7.1
144	18389	93.8	355.9	47	12620.2	5,621.9	5,621.4	-75.3	9.4	9.4	12635.9	-6.0
145	18436	94.0	355.0	47	12617.1	5,668.7	5,668.1	-79.0	0.4	2.0	12632.9	-2.9
146	18482	93.5	355.9	46	12614.0	5,714.5	5,713.9	-82.6	-1.1	2.2	12630.0	0.0
147	18574	92.3	358.1	92	12609.4	5,806.2	5,805.6	-87.4	-1.3	2.7	12625.6	4.4
148	18669	91.1	359.5	95	12606.6	5,901.2	5,900.5	-89.4	-1.3	1.9	12623.1	6.9
149	18762	89.2	0.1	93	12606.3	5,994.2	5,993.5	-89.7	-2.0	2.1	12623.1	6.9
150	18857	90.2	0.9	95	12606.8	6,089.1	6,088.5	-88.9	1.1	1.3	12623.8	6.2
151	18950	90.8	1.9	93	12606.0	6,182.1	6,181.5	-86.6	0.6	1.3	12623.3	6.7
152	19043	90.1	3.2	93	12605.3	6,274.9	6,274.4	-82.5	-0.8	1.6	12622.8	7.2
153	19137	88.9	1.0	94	12606.1	6,368.8	6,368.3	-79.0	-1.3	2.7	12623.9	6.1
154	19230	88.0	0.3	93	12608.6	6,461.7	6,461.2	-78.0	-1.0	1.2	12626.7	3.3
155	19324	88.7	1.0	94	12611.3	6,555.6	6,555.2	-76.9	0.7	1.1	12629.6	0.3
156	19418	89.3	1.1	94	12613.0	6,649.6	6,649.2	-75.2	0.6	0.6	12631.5	-1.6
157	19512	90.7	1.9	94	12613.0	6,743.5	6,743.1	-72.7	1.5	1.7	12631.8	-1.8
158	19606	88.4	1.5	94	12613.7	6,837.4	6,837.1	-70.0	-2.4	2.5	12632.8	-2.8
159	19700	90.7	2.4	94	12614.4	6,931.3	6,931.0	-66.8	2.4	2.6	12633.8	-3.8
160	19794	90.6	1.9	94	12613.4	7,025.2	7,024.9	-63.2	-0.1	0.5	12633.0	-3.0
161	19881	91.7	2.7	87	12611.6	7,112.0	7,111.8	-59.7	1.3	1.6	12631.5	-1.5
TD	19926	91.7	2.7	45	12610.3	7,156.9	7,156.8	-57.6	0.0	0.0	12630.3	-0.3

Closure Direction @ T.D. : 359.5 Degrees
Distance from Section Line @ T.D. : 0.0 Feet Right of Section Line