

HOBBS OCD

JUN 0 2 2015

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# COG Operating, LLC.

Lea County, N.M.

Section 5/17 T21S-R33E Becknell State Com #2H

Becknell State Com #2H

Original Hole

30-025-41323

Design: Original Hole

## Survey Report - Geographic

22 January, 2015

JUN 0 8 2015

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## Stryker Directional Survey Report - Geographic

<b>Company:</b> COG Operating, LLC.	<b>Local Co-ordinate Reference:</b> Well Becknell State Com #2H
<b>Project:</b> Lea County, N.M.	<b>TVD Reference:</b> GL 3787.3+26 @ 3813.3usft (Precision 590)
<b>Site:</b> Section 5/17 T21S-R33E Becknell State Com #2H	<b>MD Reference:</b> GL 3787.3+26 @ 3813.3usft (Precision 590)
<b>Well:</b> Becknell State Com #2H	<b>North Reference:</b> Grid
<b>Wellbore:</b> Original Hole	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> Original Hole	<b>Database:</b> Stryker_EDM

<b>Project</b> Lea County, N.M.	
<b>Map System:</b> US State Plane 1927 (Exact solution)	<b>System Datum:</b> Mean Sea Level
<b>Geo Datum:</b> NAD 1927 (NADCON CONUS)	
<b>Map Zone:</b> New Mexico East 3001	

<b>Site</b> Section 5/17 T21S-R33E Becknell State Com #2H
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<b>Site Position:</b>	<b>Northing:</b> 549,050.40 usft	<b>Latitude:</b> 32° 30' 26.156 N
<b>From:</b> Map	<b>Easting:</b> 728,525.50 usft	<b>Longitude:</b> 103° 35' 31.345 W
<b>Position Uncertainty:</b> 0.0 usft	<b>Slot Radius:</b> 13-3/16 "	<b>Grid Convergence:</b> 0.40 °

<b>Well</b> Becknell State Com #2H			
<b>Well Position</b>	<b>+N/-S</b> 0.0 usft	<b>Northing:</b> 549,050.40 usft	<b>Latitude:</b> 32° 30' 26.156 N
	<b>+E/-W</b> 0.0 usft	<b>Easting:</b> 728,525.50 usft	<b>Longitude:</b> 103° 35' 31.345 W
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b> 0.0 usft	<b>Ground Level:</b> 3,787.3 usft

<b>Wellbore</b> Original Hole
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/25/2014	7.19	60.36	48,437

<b>Design</b> Original Hole
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<b>Audit Notes:</b>			
<b>Version:</b> 1.0	<b>Phase:</b> ACTUAL	<b>Tie On Depth:</b>	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.52

<b>Survey Program</b>		<b>Date</b> 1/22/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
116.0	10,946.4	KP Gyro Survey (Original Hole)	NSG-GYC_WL	Gyro in gyrocompassing mode on wireline
11,001.0	21,252.0	Stryker MWD Survey (Original Hole)	NSG-GYC_WL	Gyro in gyrocompassing mode on wireline

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	549,050.40	728,525.50	32° 30' 26.156 N	103° 35' 31.345 W
116.0	0.20	141.50	116.0	-0.2	0.1	549,050.24	728,525.62	32° 30' 26.155 N	103° 35' 31.344 W
209.0	0.10	142.80	209.0	-0.4	0.3	549,050.05	728,525.77	32° 30' 26.153 N	103° 35' 31.342 W
303.0	0.10	7.60	303.0	-0.3	0.3	549,050.07	728,525.83	32° 30' 26.153 N	103° 35' 31.341 W
396.0	0.30	253.30	396.0	-0.3	0.1	549,050.08	728,525.61	32° 30' 26.153 N	103° 35' 31.344 W
489.0	0.00	36.60	489.0	-0.4	-0.1	549,050.01	728,525.38	32° 30' 26.153 N	103° 35' 31.347 W
583.0	0.40	341.60	583.0	-0.1	-0.2	549,050.32	728,525.27	32° 30' 26.156 N	103° 35' 31.348 W
677.0	0.40	189.20	677.0	-0.1	-0.4	549,050.31	728,525.12	32° 30' 26.155 N	103° 35' 31.350 W
770.0	0.40	166.90	770.0	-0.7	-0.4	549,049.67	728,525.14	32° 30' 26.149 N	103° 35' 31.350 W
864.0	0.50	326.30	864.0	-0.7	-0.5	549,049.69	728,524.99	32° 30' 26.149 N	103° 35' 31.351 W

## Stryker Directional Survey Report - Geographic

<b>Company:</b>	COG Operating, LLC.	<b>Local Co-ordinate Reference:</b>	Well Becknell State Com #2H
<b>Project:</b>	Lea County, N.M.	<b>TVD Reference:</b>	GL 3787.3+26 @ 3813.3usft (Precision 590)
<b>Site:</b>	Section 5/17 T21S-R33E Becknell State Com #2H	<b>MD Reference:</b>	GL 3787.3+26 @ 3813.3usft (Precision 590)
<b>Well:</b>	Becknell State Com #2H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Original Hole	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Original Hole	<b>Database:</b>	Stryker_EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
958.0	0.40	15.00	958.0	-0.1	-0.7	549,050.35	728,524.84	32° 30' 26.156 N	103° 35' 31.353 W	
1,051.0	0.40	118.10	1,051.0	0.1	-0.3	549,050.51	728,525.21	32° 30' 26.157 N	103° 35' 31.349 W	
1,145.0	0.40	200.80	1,145.0	-0.4	-0.1	549,050.05	728,525.39	32° 30' 26.153 N	103° 35' 31.347 W	
1,239.0	0.20	238.80	1,239.0	-0.7	-0.4	549,049.66	728,525.13	32° 30' 26.149 N	103° 35' 31.350 W	
1,332.0	0.40	189.70	1,332.0	-1.1	-0.6	549,049.25	728,524.94	32° 30' 26.145 N	103° 35' 31.352 W	
1,428.0	0.40	198.60	1,428.0	-1.8	-0.7	549,048.61	728,524.77	32° 30' 26.139 N	103° 35' 31.354 W	
1,523.0	0.70	80.40	1,523.0	-2.0	-0.3	549,048.39	728,525.24	32° 30' 26.136 N	103° 35' 31.348 W	
1,618.0	0.70	118.70	1,618.0	-2.2	0.8	549,048.21	728,526.32	32° 30' 26.135 N	103° 35' 31.336 W	
1,712.0	0.60	232.20	1,712.0	-2.8	0.9	549,047.63	728,526.44	32° 30' 26.129 N	103° 35' 31.335 W	
1,804.0	0.60	230.40	1,804.0	-3.4	0.2	549,047.03	728,525.68	32° 30' 26.123 N	103° 35' 31.343 W	
1,897.0	0.50	98.80	1,897.0	-3.7	0.2	549,046.65	728,525.71	32° 30' 26.119 N	103° 35' 31.343 W	
1,989.0	0.40	96.40	1,989.0	-3.8	0.9	549,046.56	728,526.43	32° 30' 26.118 N	103° 35' 31.335 W	
2,081.0	0.30	76.60	2,081.0	-3.8	1.5	549,046.58	728,526.98	32° 30' 26.118 N	103° 35' 31.328 W	
2,173.0	0.40	118.10	2,173.0	-3.9	2.0	549,046.48	728,527.50	32° 30' 26.117 N	103° 35' 31.322 W	
2,265.0	0.40	116.50	2,265.0	-4.2	2.6	549,046.19	728,528.07	32° 30' 26.115 N	103° 35' 31.316 W	
2,357.0	0.30	87.40	2,357.0	-4.3	3.1	549,046.06	728,528.59	32° 30' 26.113 N	103° 35' 31.309 W	
2,451.0	0.50	69.20	2,451.0	-4.2	3.7	549,046.21	728,529.22	32° 30' 26.115 N	103° 35' 31.302 W	
2,543.0	0.90	69.70	2,542.9	-3.8	4.8	549,046.61	728,530.28	32° 30' 26.118 N	103° 35' 31.290 W	
2,635.0	1.50	70.20	2,634.9	-3.1	6.6	549,047.26	728,532.09	32° 30' 26.125 N	103° 35' 31.269 W	
2,727.0	1.60	70.20	2,726.9	-2.3	8.9	549,048.11	728,534.43	32° 30' 26.133 N	103° 35' 31.241 W	
2,820.0	3.10	70.30	2,819.8	-1.0	12.5	549,049.39	728,538.02	32° 30' 26.146 N	103° 35' 31.199 W	
2,912.0	4.50	63.70	2,911.6	1.4	18.1	549,051.83	728,543.60	32° 30' 26.169 N	103° 35' 31.134 W	
2,976.0	3.50	63.70	2,975.4	3.4	22.1	549,053.81	728,547.60	32° 30' 26.189 N	103° 35' 31.087 W	
3,006.0	3.60	63.50	3,005.4	4.2	23.8	549,054.64	728,549.26	32° 30' 26.197 N	103° 35' 31.067 W	
3,098.0	1.70	87.40	3,097.3	5.6	27.7	549,055.99	728,553.21	32° 30' 26.210 N	103° 35' 31.021 W	
3,190.0	1.20	110.90	3,189.3	5.3	30.0	549,055.71	728,555.47	32° 30' 26.207 N	103° 35' 30.995 W	
3,283.0	1.20	114.60	3,282.2	4.6	31.8	549,054.95	728,557.27	32° 30' 26.199 N	103° 35' 30.974 W	
3,376.0	1.20	116.20	3,375.2	3.7	33.5	549,054.12	728,559.03	32° 30' 26.191 N	103° 35' 30.953 W	
3,469.0	1.40	121.10	3,468.2	2.7	35.4	549,053.10	728,560.88	32° 30' 26.181 N	103° 35' 30.932 W	
3,562.0	0.70	168.30	3,561.2	1.6	36.5	549,051.96	728,561.96	32° 30' 26.169 N	103° 35' 30.919 W	
3,655.0	0.50	246.20	3,654.2	0.8	36.2	549,051.24	728,561.71	32° 30' 26.162 N	103° 35' 30.922 W	
3,750.0	0.40	251.70	3,749.2	0.6	35.5	549,050.97	728,561.01	32° 30' 26.160 N	103° 35' 30.931 W	
3,843.0	0.40	213.80	3,842.2	0.2	35.0	549,050.59	728,560.52	32° 30' 26.156 N	103° 35' 30.936 W	
3,939.0	0.40	250.10	3,938.2	-0.2	34.5	549,050.20	728,560.02	32° 30' 26.152 N	103° 35' 30.942 W	
4,033.0	0.50	245.20	4,032.2	-0.5	33.8	549,049.92	728,559.34	32° 30' 26.149 N	103° 35' 30.950 W	
4,125.0	0.50	256.00	4,124.2	-0.8	33.1	549,049.65	728,558.59	32° 30' 26.147 N	103° 35' 30.959 W	
4,218.0	0.70	242.90	4,217.2	-1.1	32.2	549,049.30	728,557.69	32° 30' 26.143 N	103° 35' 30.969 W	
4,310.0	0.70	254.40	4,309.2	-1.5	31.2	549,048.89	728,556.65	32° 30' 26.139 N	103° 35' 30.982 W	
4,402.0	0.80	250.20	4,401.1	-1.9	30.0	549,048.52	728,555.50	32° 30' 26.136 N	103° 35' 30.995 W	
4,495.0	0.80	268.40	4,494.1	-2.1	28.7	549,048.28	728,554.24	32° 30' 26.133 N	103° 35' 31.010 W	
4,588.0	1.00	255.30	4,587.1	-2.3	27.3	549,048.06	728,552.81	32° 30' 26.131 N	103° 35' 31.027 W	
4,680.0	1.20	251.20	4,679.1	-2.9	25.6	549,047.54	728,551.12	32° 30' 26.126 N	103° 35' 31.046 W	
4,774.0	0.90	251.90	4,773.1	-3.4	24.0	549,047.00	728,549.49	32° 30' 26.121 N	103° 35' 31.065 W	
4,866.0	0.80	244.80	4,865.1	-3.9	22.7	549,046.50	728,548.22	32° 30' 26.116 N	103° 35' 31.080 W	
4,958.0	0.70	242.20	4,957.1	-4.4	21.6	549,045.96	728,547.14	32° 30' 26.111 N	103° 35' 31.093 W	
5,051.0	0.70	218.80	5,050.1	-5.1	20.8	549,045.26	728,546.28	32° 30' 26.104 N	103° 35' 31.103 W	
5,145.0	0.70	236.00	5,144.1	-5.9	19.9	549,044.49	728,545.45	32° 30' 26.096 N	103° 35' 31.113 W	
5,238.0	0.80	231.20	5,237.1	-6.6	19.0	549,043.76	728,544.47	32° 30' 26.089 N	103° 35' 31.124 W	
5,331.0	0.70	226.50	5,330.0	-7.4	18.1	549,042.96	728,543.55	32° 30' 26.082 N	103° 35' 31.135 W	
5,423.0	0.70	216.10	5,422.0	-8.3	17.3	549,042.12	728,542.81	32° 30' 26.073 N	103° 35' 31.144 W	
5,515.0	0.60	206.70	5,514.0	-9.2	16.8	549,041.24	728,542.26	32° 30' 26.065 N	103° 35' 31.150 W	
5,562.0	0.50	221.50	5,561.0	-9.5	16.5	549,040.87	728,542.02	32° 30' 26.061 N	103° 35' 31.153 W	
5,610.1	0.62	197.82	5,609.2	-9.9	16.3	549,040.46	728,541.80	32° 30' 26.057 N	103° 35' 31.156 W	
5,705.2	0.40	208.22	5,704.2	-10.7	16.0	549,039.68	728,541.48	32° 30' 26.049 N	103° 35' 31.159 W	

## Stryker Directional Survey Report - Geographic

<b>Company:</b>	COG Operating, LLC.	<b>Local Co-ordinate Reference:</b>	Well Becknell State Com #2H
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<b>Site:</b>	Section 5/17 T21S-R33E Becknell State Com #2H	<b>MD Reference:</b>	GL 3787.3+26 @ 3813.3usft (Precision 590)
<b>Well:</b>	Becknell State Com #2H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Original Hole	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Original Hole	<b>Database:</b>	Stryker_EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,797.0	0.40	193.72	5,796.0	-11.3	15.8	549,039.08	728,541.26	32° 30' 26.043 N	103° 35' 31.162 W	
5,891.0	0.40	215.35	5,890.0	-11.9	15.5	549,038.50	728,540.99	32° 30' 26.038 N	103° 35' 31.165 W	
5,980.9	0.49	215.66	5,979.9	-12.5	15.1	549,037.93	728,540.58	32° 30' 26.032 N	103° 35' 31.170 W	
6,073.6	0.40	204.43	6,072.6	-13.1	14.7	549,037.31	728,540.22	32° 30' 26.026 N	103° 35' 31.174 W	
6,165.8	0.31	219.28	6,164.8	-13.6	14.4	549,036.83	728,539.93	32° 30' 26.021 N	103° 35' 31.178 W	
6,258.3	0.31	173.75	6,257.3	-14.0	14.3	549,036.38	728,539.80	32° 30' 26.017 N	103° 35' 31.179 W	
6,348.8	0.31	152.87	6,347.8	-14.5	14.4	549,035.92	728,539.93	32° 30' 26.012 N	103° 35' 31.178 W	
6,441.8	0.09	172.74	6,440.9	-14.8	14.6	549,035.63	728,540.06	32° 30' 26.009 N	103° 35' 31.176 W	
6,533.9	0.22	115.89	6,532.9	-14.9	14.7	549,035.48	728,540.23	32° 30' 26.008 N	103° 35' 31.174 W	
6,624.9	0.00	79.67	6,623.9	-15.0	14.9	549,035.40	728,540.38	32° 30' 26.007 N	103° 35' 31.173 W	
6,717.1	0.22	135.64	6,716.1	-15.1	15.0	549,035.28	728,540.51	32° 30' 26.006 N	103° 35' 31.171 W	
6,809.7	0.22	192.88	6,808.7	-15.4	15.1	549,034.97	728,540.59	32° 30' 26.003 N	103° 35' 31.170 W	
6,902.2	0.31	175.25	6,901.2	-15.8	15.1	549,034.55	728,540.57	32° 30' 25.999 N	103° 35' 31.171 W	
6,993.6	0.40	167.72	6,992.6	-16.4	15.2	549,033.99	728,540.66	32° 30' 25.993 N	103° 35' 31.170 W	
7,086.1	0.40	189.88	7,085.1	-17.0	15.2	549,033.36	728,540.68	32° 30' 25.987 N	103° 35' 31.169 W	
7,180.0	0.40	204.82	7,179.0	-17.7	15.0	549,032.74	728,540.48	32° 30' 25.981 N	103° 35' 31.172 W	
7,271.6	0.40	209.63	7,270.6	-18.2	14.7	549,032.17	728,540.19	32° 30' 25.975 N	103° 35' 31.175 W	
7,365.7	0.62	218.97	7,364.7	-18.9	14.2	549,031.49	728,539.71	32° 30' 25.968 N	103° 35' 31.181 W	
7,456.5	0.80	216.85	7,455.5	-19.8	13.5	549,030.60	728,539.02	32° 30' 25.960 N	103° 35' 31.189 W	
7,548.4	1.10	217.65	7,547.4	-21.0	12.6	549,029.39	728,538.09	32° 30' 25.948 N	103° 35' 31.200 W	
7,641.8	1.10	210.55	7,640.7	-22.5	11.6	549,027.91	728,537.09	32° 30' 25.933 N	103° 35' 31.212 W	
7,734.1	1.02	222.67	7,733.1	-23.9	10.6	549,026.54	728,536.08	32° 30' 25.920 N	103° 35' 31.224 W	
7,826.9	0.88	226.19	7,825.9	-25.0	9.5	549,025.44	728,535.01	32° 30' 25.909 N	103° 35' 31.236 W	
7,920.3	1.19	217.87	7,919.3	-26.2	8.4	549,024.18	728,533.90	32° 30' 25.896 N	103° 35' 31.249 W	
8,011.6	1.10	213.94	8,010.5	-27.7	7.3	549,022.70	728,532.83	32° 30' 25.882 N	103° 35' 31.262 W	
8,104.7	0.88	216.68	8,103.6	-29.0	6.4	549,021.39	728,531.90	32° 30' 25.869 N	103° 35' 31.273 W	
8,199.2	0.88	217.16	8,198.1	-30.2	5.5	549,020.23	728,531.03	32° 30' 25.857 N	103° 35' 31.283 W	
8,296.5	0.80	191.69	8,295.4	-31.4	4.9	549,018.97	728,530.44	32° 30' 25.845 N	103° 35' 31.290 W	
8,389.4	0.88	187.99	8,388.3	-32.8	4.7	549,017.63	728,530.21	32° 30' 25.832 N	103° 35' 31.293 W	
8,481.6	1.02	188.69	8,480.5	-34.3	4.5	549,016.11	728,529.99	32° 30' 25.817 N	103° 35' 31.296 W	
8,574.2	1.19	198.83	8,573.1	-36.0	4.1	549,014.39	728,529.55	32° 30' 25.800 N	103° 35' 31.301 W	
8,667.4	1.19	205.13	8,666.2	-37.8	3.3	549,012.60	728,528.83	32° 30' 25.782 N	103° 35' 31.309 W	
8,752.2	1.10	215.44	8,751.0	-39.3	2.5	549,011.14	728,527.98	32° 30' 25.768 N	103° 35' 31.319 W	
8,846.0	1.50	230.38	8,844.7	-40.8	1.0	549,009.62	728,526.51	32° 30' 25.753 N	103° 35' 31.337 W	
8,937.1	1.72	225.89	8,935.9	-42.5	-0.9	549,007.91	728,524.61	32° 30' 25.736 N	103° 35' 31.359 W	
9,030.9	1.50	225.89	9,029.6	-44.3	-2.8	549,006.07	728,522.72	32° 30' 25.718 N	103° 35' 31.381 W	
9,122.5	1.59	239.94	9,121.1	-45.8	-4.7	549,004.60	728,520.76	32° 30' 25.704 N	103° 35' 31.404 W	
9,215.5	1.72	231.62	9,214.1	-47.3	-6.9	549,003.09	728,518.55	32° 30' 25.689 N	103° 35' 31.430 W	
9,308.7	1.81	225.67	9,307.3	-49.2	-9.1	549,001.19	728,516.40	32° 30' 25.670 N	103° 35' 31.456 W	
9,401.3	1.59	213.77	9,399.9	-51.3	-10.9	548,999.10	728,514.64	32° 30' 25.650 N	103° 35' 31.476 W	
9,494.5	1.33	244.92	9,493.0	-52.8	-12.6	548,997.57	728,512.94	32° 30' 25.634 N	103° 35' 31.496 W	
9,588.0	1.33	229.81	9,586.5	-54.0	-14.4	548,996.41	728,511.13	32° 30' 25.623 N	103° 35' 31.517 W	
9,688.8	1.72	226.77	9,687.2	-55.8	-16.4	548,994.62	728,509.13	32° 30' 25.606 N	103° 35' 31.541 W	
9,713.9	2.03	226.68	9,712.3	-56.3	-17.0	548,994.05	728,508.54	32° 30' 25.600 N	103° 35' 31.548 W	
9,782.8	2.03	238.00	9,781.2	-57.8	-18.9	548,992.57	728,506.61	32° 30' 25.585 N	103° 35' 31.570 W	
9,868.6	2.30	237.43	9,867.0	-59.6	-21.6	548,990.84	728,503.87	32° 30' 25.568 N	103° 35' 31.603 W	
9,964.6	2.21	249.77	9,962.9	-61.2	-25.0	548,989.16	728,500.51	32° 30' 25.552 N	103° 35' 31.642 W	
10,027.1	2.12	245.63	10,025.3	-62.1	-27.2	548,988.27	728,498.33	32° 30' 25.543 N	103° 35' 31.668 W	
10,058.1	1.41	248.67	10,056.3	-62.5	-28.0	548,987.89	728,497.45	32° 30' 25.540 N	103° 35' 31.678 W	
10,152.2	1.50	245.76	10,150.3	-63.4	-30.2	548,986.97	728,495.25	32° 30' 25.531 N	103° 35' 31.704 W	
10,343.0	1.72	247.26	10,341.1	-65.6	-35.2	548,984.83	728,490.33	32° 30' 25.510 N	103° 35' 31.761 W	
10,418.7	1.72	246.55	10,416.8	-66.5	-37.3	548,983.94	728,488.24	32° 30' 25.501 N	103° 35' 31.786 W	
10,452.9	1.90	243.12	10,450.9	-66.9	-38.2	548,983.48	728,487.27	32° 30' 25.497 N	103° 35' 31.797 W	
10,515.7	1.81	245.45	10,513.7	-67.8	-40.1	548,982.60	728,485.43	32° 30' 25.488 N	103° 35' 31.819 W	

## Stryker Directional Survey Report - Geographic

<b>Company:</b> COG Operating, LLC.	<b>Local Co-ordinate Reference:</b> Well Becknell State Com #2H
<b>Project:</b> Lea County, N.M.	<b>TVD Reference:</b> GL 3787.3+26 @ 3813.3usft (Precision 590)
<b>Site:</b> Section 5/17 T21S-R33E Becknell State Com #2H	<b>MD Reference:</b> GL 3787.3+26 @ 3813.3usft (Precision 590)
<b>Well:</b> Becknell State Com #2H	<b>North Reference:</b> Grid
<b>Wellbore:</b> Original Hole	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> Original Hole	<b>Database:</b> Stryker_EDM

### Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,531.5	1.81	237.92	10,529.5	-68.0	-40.5	548,982.36	728,485.00	32° 30' 25.486 N	103° 35' 31.824 W
10,627.0	1.59	232.32	10,625.0	-69.7	-42.8	548,980.75	728,482.67	32° 30' 25.470 N	103° 35' 31.851 W
10,721.8	1.19	255.28	10,719.8	-70.7	-44.8	548,979.70	728,480.68	32° 30' 25.460 N	103° 35' 31.874 W
10,817.7	1.41	280.84	10,815.6	-70.7	-46.9	548,979.67	728,478.56	32° 30' 25.460 N	103° 35' 31.899 W
10,911.4	1.33	288.07	10,909.3	-70.2	-49.1	548,980.22	728,476.39	32° 30' 25.465 N	103° 35' 31.924 W
10,946.0	1.41	288.63	10,943.9	-69.9	-49.9	548,980.48	728,475.60	32° 30' 25.468 N	103° 35' 31.934 W
<b>10946' KP Gyro Survey</b>									
10,946.4	1.41	288.64	10,944.2	-69.9	-49.9	548,980.48	728,475.60	32° 30' 25.468 N	103° 35' 31.934 W
11,001.0	1.90	258.20	10,998.8	-69.9	-51.4	548,980.51	728,474.07	32° 30' 25.468 N	103° 35' 31.951 W
11,033.0	5.40	215.60	11,030.8	-71.2	-52.8	548,979.18	728,472.68	32° 30' 25.455 N	103° 35' 31.968 W
11,065.0	9.40	204.50	11,062.5	-74.8	-54.8	548,975.58	728,470.72	32° 30' 25.420 N	103° 35' 31.991 W
11,096.0	13.20	201.60	11,092.9	-80.4	-57.1	548,969.98	728,468.36	32° 30' 25.365 N	103° 35' 32.019 W
11,128.0	16.30	194.70	11,123.8	-88.2	-59.6	548,962.24	728,465.88	32° 30' 25.288 N	103° 35' 32.049 W
11,160.0	19.40	186.50	11,154.3	-97.8	-61.4	548,952.61	728,464.13	32° 30' 25.193 N	103° 35' 32.070 W
11,192.0	22.90	183.10	11,184.1	-109.3	-62.3	548,941.11	728,463.20	32° 30' 25.079 N	103° 35' 32.082 W
11,224.0	26.40	182.70	11,213.2	-122.6	-63.0	548,927.78	728,462.52	32° 30' 24.947 N	103° 35' 32.091 W
11,256.0	31.50	180.90	11,241.2	-138.1	-63.4	548,912.30	728,462.06	32° 30' 24.794 N	103° 35' 32.097 W
11,288.0	36.10	178.40	11,267.8	-155.9	-63.3	548,894.51	728,462.19	32° 30' 24.618 N	103° 35' 32.097 W
11,319.0	39.10	178.00	11,292.4	-174.8	-62.7	548,875.61	728,462.79	32° 30' 24.431 N	103° 35' 32.092 W
11,351.0	42.00	177.80	11,316.7	-195.6	-61.9	548,854.82	728,463.55	32° 30' 24.225 N	103° 35' 32.085 W
11,383.0	44.70	179.40	11,339.9	-217.5	-61.4	548,832.86	728,464.08	32° 30' 24.008 N	103° 35' 32.080 W
11,415.0	47.00	180.10	11,362.2	-240.5	-61.3	548,809.91	728,464.17	32° 30' 23.781 N	103° 35' 32.081 W
11,447.0	49.90	180.60	11,383.4	-264.4	-61.5	548,785.96	728,464.03	32° 30' 23.544 N	103° 35' 32.085 W
11,477.0	53.40	180.60	11,402.1	-288.0	-61.7	548,762.44	728,463.78	32° 30' 23.311 N	103° 35' 32.089 W
11,508.0	56.10	180.70	11,419.9	-313.3	-62.0	548,737.13	728,463.49	32° 30' 23.061 N	103° 35' 32.095 W
11,539.0	58.80	180.40	11,436.6	-339.4	-62.3	548,711.00	728,463.24	32° 30' 22.802 N	103° 35' 32.100 W
11,569.0	61.60	179.40	11,451.5	-365.4	-62.2	548,684.97	728,463.29	32° 30' 22.545 N	103° 35' 32.101 W
11,601.0	64.30	178.40	11,466.1	-393.9	-61.7	548,656.48	728,463.84	32° 30' 22.263 N	103° 35' 32.097 W
11,632.0	68.30	178.60	11,478.5	-422.3	-60.9	548,628.11	728,464.58	32° 30' 21.982 N	103° 35' 32.091 W
11,662.0	72.80	178.90	11,488.5	-450.6	-60.3	548,599.84	728,465.20	32° 30' 21.702 N	103° 35' 32.086 W
11,693.0	75.30	179.10	11,497.0	-480.4	-59.8	548,570.04	728,465.72	32° 30' 21.407 N	103° 35' 32.082 W
11,724.0	77.90	179.40	11,504.2	-510.5	-59.4	548,539.88	728,466.11	32° 30' 21.109 N	103° 35' 32.080 W
11,755.0	82.30	179.60	11,509.6	-541.0	-59.1	548,509.35	728,466.38	32° 30' 20.807 N	103° 35' 32.080 W
11,807.0	86.40	179.60	11,514.7	-592.8	-58.8	548,457.62	728,466.74	32° 30' 20.295 N	103° 35' 32.079 W
11,899.0	88.30	179.50	11,518.9	-684.7	-58.0	548,365.73	728,467.46	32° 30' 19.385 N	103° 35' 32.079 W
11,992.0	90.30	179.10	11,520.1	-777.7	-56.9	548,272.74	728,468.60	32° 30' 18.465 N	103° 35' 32.073 W
12,084.0	91.30	178.00	11,518.8	-869.6	-54.6	548,180.78	728,470.93	32° 30' 17.555 N	103° 35' 32.053 W
12,176.0	90.90	178.10	11,517.0	-961.5	-51.4	548,088.86	728,474.06	32° 30' 16.645 N	103° 35' 32.024 W
12,270.0	90.00	178.90	11,516.3	-1,055.5	-49.0	547,994.89	728,476.52	32° 30' 15.715 N	103° 35' 32.003 W
12,364.0	88.30	179.10	11,517.7	-1,149.5	-47.3	547,900.92	728,478.16	32° 30' 14.785 N	103° 35' 31.991 W
12,456.0	89.00	178.00	11,519.8	-1,241.4	-45.0	547,808.98	728,480.48	32° 30' 13.875 N	103° 35' 31.972 W
12,548.0	89.50	177.60	11,521.0	-1,333.3	-41.5	547,717.05	728,484.02	32° 30' 12.966 N	103° 35' 31.938 W
12,640.0	88.80	177.90	11,522.4	-1,425.3	-37.9	547,625.14	728,487.63	32° 30' 12.056 N	103° 35' 31.903 W
12,733.0	89.30	177.70	11,524.0	-1,518.2	-34.3	547,532.22	728,491.20	32° 30' 11.136 N	103° 35' 31.869 W
12,825.0	88.00	178.40	11,526.1	-1,610.1	-31.2	547,440.30	728,494.33	32° 30' 10.226 N	103° 35' 31.840 W
12,917.0	89.30	178.70	11,528.3	-1,702.0	-28.8	547,348.36	728,496.65	32° 30' 9.316 N	103° 35' 31.820 W
13,009.0	90.40	177.60	11,528.5	-1,794.0	-25.9	547,256.41	728,499.62	32° 30' 8.406 N	103° 35' 31.793 W
13,103.0	90.00	178.40	11,528.2	-1,887.9	-22.6	547,162.47	728,502.90	32° 30' 7.477 N	103° 35' 31.762 W
13,196.0	89.10	178.20	11,528.9	-1,980.9	-19.8	547,069.51	728,505.66	32° 30' 6.557 N	103° 35' 31.738 W
13,288.0	88.00	179.60	11,531.3	-2,072.8	-18.1	546,977.56	728,507.43	32° 30' 5.647 N	103° 35' 31.725 W
13,380.0	88.60	178.80	11,534.0	-2,164.8	-16.8	546,885.61	728,508.71	32° 30' 4.737 N	103° 35' 31.717 W
13,472.0	88.60	179.50	11,536.2	-2,256.8	-15.4	546,793.65	728,510.08	32° 30' 3.827 N	103° 35' 31.709 W
13,564.0	90.50	179.20	11,537.0	-2,348.7	-14.4	546,701.66	728,511.12	32° 30' 2.916 N	103° 35' 31.704 W
13,657.0	90.10	179.10	11,536.5	-2,441.7	-13.0	546,608.67	728,512.50	32° 30' 1.996 N	103° 35' 31.695 W

## Stryker Directional Survey Report - Geographic

<b>Company:</b> COG Operating, LLC.	<b>Local Co-ordinate Reference:</b> Well Becknell State Com #2H
<b>Project:</b> Lea County, N.M.	<b>TVD Reference:</b> GL 3787.3+26 @ 3813.3usft (Precision 590)
<b>Site:</b> Section 5/17 T21S-R33E Becknell State Com #2H	<b>MD Reference:</b> GL 3787.3+26 @ 3813.3usft (Precision 590)
<b>Well:</b> Becknell State Com #2H	<b>North Reference:</b> Grid
<b>Wellbore:</b> Original Hole	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> Original Hole	<b>Database:</b> Stryker_EDM

### Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,749.0	89.10	178.80	11,537.1	-2,533.7	-11.3	546,516.69	728,514.19	32° 30' 1.086 N	103° 35' 31.683 W
13,841.0	87.40	179.60	11,539.9	-2,625.7	-10.0	546,424.75	728,515.47	32° 30' 0.176 N	103° 35' 31.676 W
13,933.0	87.80	178.60	11,543.8	-2,717.6	-8.6	546,332.84	728,516.91	32° 29' 59.266 N	103° 35' 31.666 W
14,025.0	88.50	177.10	11,546.7	-2,809.4	-5.1	546,240.96	728,520.36	32° 29' 58.357 N	103° 35' 31.633 W
14,117.0	89.00	178.40	11,548.8	-2,901.3	-1.5	546,149.05	728,523.97	32° 29' 57.447 N	103° 35' 31.599 W
14,209.0	89.60	179.50	11,549.9	-2,993.3	0.2	546,057.08	728,525.66	32° 29' 56.537 N	103° 35' 31.586 W
14,302.0	90.30	179.20	11,550.0	-3,086.3	1.2	545,964.08	728,526.72	32° 29' 55.617 N	103° 35' 31.582 W
14,394.0	90.20	181.30	11,549.6	-3,178.3	0.8	545,872.09	728,526.31	32° 29' 54.707 N	103° 35' 31.594 W
14,486.0	88.80	181.30	11,550.4	-3,270.3	-1.3	545,780.12	728,524.23	32° 29' 53.797 N	103° 35' 31.626 W
14,579.0	90.00	181.00	11,551.3	-3,363.3	-3.1	545,687.15	728,522.36	32° 29' 52.877 N	103° 35' 31.655 W
14,671.0	91.40	180.60	11,550.2	-3,455.2	-4.4	545,595.16	728,521.08	32° 29' 51.967 N	103° 35' 31.677 W
14,765.0	90.10	181.10	11,549.0	-3,549.2	-5.8	545,501.18	728,519.68	32° 29' 51.037 N	103° 35' 31.701 W
14,857.0	88.00	181.80	11,550.5	-3,641.2	-8.1	545,409.23	728,517.35	32° 29' 50.127 N	103° 35' 31.736 W
14,950.0	88.30	181.30	11,553.5	-3,734.1	-10.7	545,316.32	728,514.84	32° 29' 49.208 N	103° 35' 31.773 W
15,042.0	88.70	180.70	11,555.9	-3,826.0	-12.3	545,224.36	728,513.24	32° 29' 48.298 N	103° 35' 31.799 W
15,134.0	89.90	181.30	11,557.0	-3,918.0	-13.9	545,132.38	728,511.63	32° 29' 47.388 N	103° 35' 31.825 W
15,226.0	87.60	179.90	11,559.0	-4,010.0	-14.8	545,040.42	728,510.67	32° 29' 46.478 N	103° 35' 31.844 W
15,319.0	88.10	180.30	11,562.5	-4,102.9	-15.0	544,947.49	728,510.50	32° 29' 45.559 N	103° 35' 31.853 W
15,412.0	89.10	180.30	11,564.8	-4,195.9	-15.5	544,854.52	728,510.02	32° 29' 44.639 N	103° 35' 31.867 W
15,504.0	90.00	178.70	11,565.5	-4,287.9	-14.7	544,762.53	728,510.82	32° 29' 43.728 N	103° 35' 31.865 W
15,598.0	90.60	179.10	11,565.0	-4,381.9	-12.9	544,668.55	728,512.62	32° 29' 42.798 N	103° 35' 31.851 W
15,690.0	89.40	177.20	11,565.0	-4,473.8	-9.9	544,576.60	728,515.59	32° 29' 41.888 N	103° 35' 31.824 W
15,782.0	90.50	178.00	11,565.1	-4,565.7	-6.0	544,484.68	728,519.45	32° 29' 40.979 N	103° 35' 31.787 W
15,874.0	89.80	178.50	11,564.9	-4,657.7	-3.2	544,392.73	728,522.26	32° 29' 40.068 N	103° 35' 31.761 W
15,967.0	89.10	177.90	11,565.8	-4,750.6	-0.3	544,299.78	728,525.18	32° 29' 39.148 N	103° 35' 31.735 W
16,059.0	87.50	176.70	11,568.5	-4,842.5	4.0	544,207.93	728,529.51	32° 29' 38.239 N	103° 35' 31.691 W
16,151.0	88.30	176.50	11,571.9	-4,934.3	9.5	544,116.15	728,534.96	32° 29' 37.331 N	103° 35' 31.635 W
16,243.0	90.70	177.80	11,572.7	-5,026.1	14.0	544,024.28	728,539.53	32° 29' 36.421 N	103° 35' 31.589 W
16,335.0	89.00	178.00	11,572.9	-5,118.1	17.4	543,932.34	728,542.91	32° 29' 35.511 N	103° 35' 31.557 W
16,427.0	87.90	178.80	11,575.4	-5,210.0	20.0	543,840.41	728,545.47	32° 29' 34.602 N	103° 35' 31.535 W
16,519.0	86.50	176.30	11,579.9	-5,301.8	23.9	543,748.62	728,549.40	32° 29' 33.693 N	103° 35' 31.497 W
16,612.0	87.90	175.90	11,584.4	-5,394.5	30.2	543,655.94	728,555.72	32° 29' 32.776 N	103° 35' 31.430 W
16,704.0	89.80	176.50	11,586.3	-5,486.2	36.3	543,564.17	728,561.81	32° 29' 31.867 N	103° 35' 31.367 W
16,796.0	90.50	176.20	11,586.0	-5,578.0	42.2	543,472.36	728,567.67	32° 29' 30.958 N	103° 35' 31.306 W
16,888.0	91.50	176.10	11,584.4	-5,669.8	48.4	543,380.58	728,573.85	32° 29' 30.050 N	103° 35' 31.241 W
16,980.0	90.10	176.40	11,583.2	-5,761.6	54.4	543,288.79	728,579.86	32° 29' 29.141 N	103° 35' 31.178 W
17,072.0	88.80	177.40	11,584.0	-5,853.5	59.3	543,196.93	728,584.84	32° 29' 28.232 N	103° 35' 31.128 W
17,164.0	89.90	177.70	11,585.1	-5,945.4	63.3	543,105.02	728,588.77	32° 29' 27.322 N	103° 35' 31.089 W
17,257.0	90.90	177.00	11,584.4	-6,038.3	67.6	543,012.13	728,593.07	32° 29' 26.402 N	103° 35' 31.046 W
17,349.0	89.90	178.30	11,583.8	-6,130.2	71.3	542,920.21	728,596.84	32° 29' 25.493 N	103° 35' 31.010 W
17,441.0	90.30	179.90	11,583.6	-6,222.2	72.8	542,828.22	728,598.29	32° 29' 24.582 N	103° 35' 31.000 W
17,533.0	88.70	178.80	11,584.4	-6,314.2	73.8	542,736.24	728,599.33	32° 29' 23.672 N	103° 35' 30.996 W
17,626.0	87.80	177.50	11,587.3	-6,407.1	76.8	542,643.33	728,602.33	32° 29' 22.752 N	103° 35' 30.968 W
17,718.0	88.30	177.20	11,590.4	-6,498.9	81.1	542,551.48	728,606.58	32° 29' 21.843 N	103° 35' 30.926 W
17,811.0	89.00	176.70	11,592.6	-6,591.8	86.0	542,458.64	728,611.53	32° 29' 20.924 N	103° 35' 30.876 W
17,903.0	89.90	176.50	11,593.5	-6,683.6	91.5	542,366.81	728,616.99	32° 29' 20.015 N	103° 35' 30.820 W
17,997.0	90.70	176.10	11,593.0	-6,777.4	97.6	542,273.01	728,623.05	32° 29' 19.087 N	103° 35' 30.756 W
18,089.0	90.50	176.70	11,592.0	-6,869.2	103.3	542,181.19	728,628.83	32° 29' 18.178 N	103° 35' 30.696 W
18,183.0	88.60	177.40	11,592.8	-6,963.1	108.2	542,087.33	728,633.66	32° 29' 17.249 N	103° 35' 30.648 W
18,276.0	89.40	176.90	11,594.4	-7,055.9	112.8	541,994.46	728,638.29	32° 29' 16.329 N	103° 35' 30.601 W
18,369.0	88.50	178.50	11,596.1	-7,148.9	116.5	541,901.55	728,642.02	32° 29' 15.410 N	103° 35' 30.565 W
18,462.0	89.70	178.90	11,597.5	-7,241.8	118.6	541,808.59	728,644.13	32° 29' 14.490 N	103° 35' 30.548 W
18,555.0	88.70	179.70	11,598.8	-7,334.8	119.8	541,715.61	728,645.27	32° 29' 13.569 N	103° 35' 30.542 W
18,647.0	89.10	179.00	11,600.6	-7,426.8	120.8	541,623.63	728,646.31	32° 29' 12.659 N	103° 35' 30.538 W

## Stryker Directional Survey Report - Geographic

<b>Company:</b> COG Operating, LLC.	<b>Local Co-ordinate Reference:</b> Well Becknell State Com #2H
<b>Project:</b> Lea County, N.M.	<b>TVD Reference:</b> GL 3787.3+26 @ 3813.3usft (Precision 590)
<b>Site:</b> Section 5/17 T21S-R33E Becknell State Com #2H	<b>MD Reference:</b> GL 3787.3+26 @ 3813.3usft (Precision 590)
<b>Well:</b> Becknell State Com #2H	<b>North Reference:</b> Grid
<b>Wellbore:</b> Original Hole	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> Original Hole	<b>Database:</b> Stryker_EDM

### Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
18,740.0	89.90	178.70	11,601.4	-7,519.7	122.7	541,530.65	728,648.18	32° 29' 11.739 N	103° 35' 30.523 W
18,833.0	88.70	178.20	11,602.6	-7,612.7	125.2	541,437.70	728,650.69	32° 29' 10.819 N	103° 35' 30.502 W
18,925.0	89.70	177.90	11,603.8	-7,704.6	128.3	541,345.76	728,653.82	32° 29' 9.909 N	103° 35' 30.472 W
19,019.0	88.70	179.30	11,605.2	-7,798.6	130.6	541,251.80	728,656.12	32° 29' 8.979 N	103° 35' 30.453 W
19,112.0	89.40	178.90	11,606.7	-7,891.6	132.1	541,158.83	728,657.58	32° 29' 8.059 N	103° 35' 30.444 W
19,205.0	89.90	177.60	11,607.3	-7,984.5	134.9	541,065.87	728,660.42	32° 29' 7.139 N	103° 35' 30.418 W
19,298.0	89.20	179.00	11,608.0	-8,077.5	137.7	540,972.92	728,663.18	32° 29' 6.219 N	103° 35' 30.393 W
19,390.0	90.10	178.80	11,608.6	-8,169.5	139.4	540,880.94	728,664.94	32° 29' 5.309 N	103° 35' 30.380 W
19,482.0	88.70	180.20	11,609.5	-8,261.4	140.2	540,788.95	728,665.75	32° 29' 4.399 N	103° 35' 30.378 W
19,575.0	89.60	179.80	11,610.9	-8,354.4	140.2	540,695.96	728,665.75	32° 29' 3.479 N	103° 35' 30.386 W
19,667.0	89.70	180.40	11,611.5	-8,446.4	140.1	540,603.97	728,665.59	32° 29' 2.568 N	103° 35' 30.395 W
19,754.0	89.30	179.90	11,612.2	-8,533.4	139.9	540,516.97	728,665.36	32° 29' 1.707 N	103° 35' 30.405 W
19,846.0	87.20	179.90	11,615.0	-8,625.4	140.0	540,425.02	728,665.52	32° 29' 0.798 N	103° 35' 30.411 W
19,938.0	88.10	179.10	11,618.8	-8,717.3	140.8	540,333.10	728,666.32	32° 28' 59.888 N	103° 35' 30.409 W
20,032.0	88.80	179.60	11,621.3	-8,811.3	141.9	540,239.14	728,667.39	32° 28' 58.958 N	103° 35' 30.404 W
20,124.0	89.70	178.70	11,622.6	-8,903.2	143.3	540,147.16	728,668.75	32° 28' 58.048 N	103° 35' 30.395 W
20,217.0	90.90	178.40	11,622.1	-8,996.2	145.6	540,054.20	728,671.10	32° 28' 57.128 N	103° 35' 30.375 W
20,309.0	89.70	178.40	11,621.6	-9,088.2	148.2	539,962.23	728,673.67	32° 28' 56.218 N	103° 35' 30.353 W
20,403.0	88.10	178.00	11,623.4	-9,182.1	151.1	539,868.30	728,676.62	32° 28' 55.288 N	103° 35' 30.326 W
20,497.0	89.20	177.10	11,625.6	-9,276.0	155.1	539,774.42	728,680.64	32° 28' 54.359 N	103° 35' 30.287 W
20,589.0	90.10	177.20	11,626.2	-9,367.9	159.7	539,682.53	728,685.22	32° 28' 53.449 N	103° 35' 30.241 W
20,681.0	89.00	177.40	11,626.9	-9,459.8	164.1	539,590.64	728,689.55	32° 28' 52.540 N	103° 35' 30.198 W
20,773.0	89.90	177.60	11,627.8	-9,551.7	168.1	539,498.73	728,693.56	32° 28' 51.630 N	103° 35' 30.158 W
20,866.0	89.20	177.20	11,628.5	-9,644.6	172.3	539,405.83	728,697.78	32° 28' 50.710 N	103° 35' 30.117 W
20,958.0	90.10	177.60	11,629.1	-9,736.5	176.5	539,313.93	728,701.95	32° 28' 49.801 N	103° 35' 30.075 W
21,050.0	89.60	178.90	11,629.3	-9,828.4	179.3	539,221.97	728,704.76	32° 28' 48.891 N	103° 35' 30.050 W
21,142.0	88.40	178.60	11,630.9	-9,920.4	181.3	539,130.01	728,706.77	32° 28' 47.980 N	103° 35' 30.034 W
21,194.0	88.10	177.70	11,632.5	-9,972.3	183.0	539,078.06	728,708.45	32° 28' 47.466 N	103° 35' 30.019 W
21,252.0	88.10	177.70	11,634.4	-10,030.3	185.3	539,020.14	728,710.77	32° 28' 46.893 N	103° 35' 29.996 W

**21252' MD Projected to Bit**

### Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,946.0	10,943.9	-69.9	-49.9	10946' KP Gyro Survey
21,252.0	11,634.4	-10,030.3	185.3	21252' MD Projected to Bit