

September 29, 2014

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

Attn: Kanicia Castillo

30-015-42135

RE: Jack Federal No. 005H

Please find enclosed a copy of the survey from 0.00' to 6860.00' ran on the above referenced well.

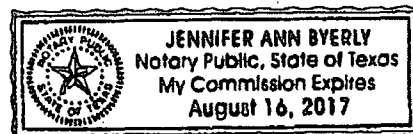
Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 29 day of September A.D., 2014, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas





Company: COG Operating, LLC (Concho)
Lease/Well: Jack Federal /No. 005H
Location: Sec 31 T25S R27E
Rig Name: Patriot 2
State/County: New Mexico/Eddy
Latitude: 32.09, Longitude: -104.22
GRID North is 0.06 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB=16 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: Jack federal #5h gyro-de_01.ut

Minimum Curvature Method

Report Date/Time: 9/29/2014 / 13:47

VES Survey International

West Texas

(432) 563-5444

Surveyor: Chris Bankson

Jack Federal No. 005H / API 30-015-42135

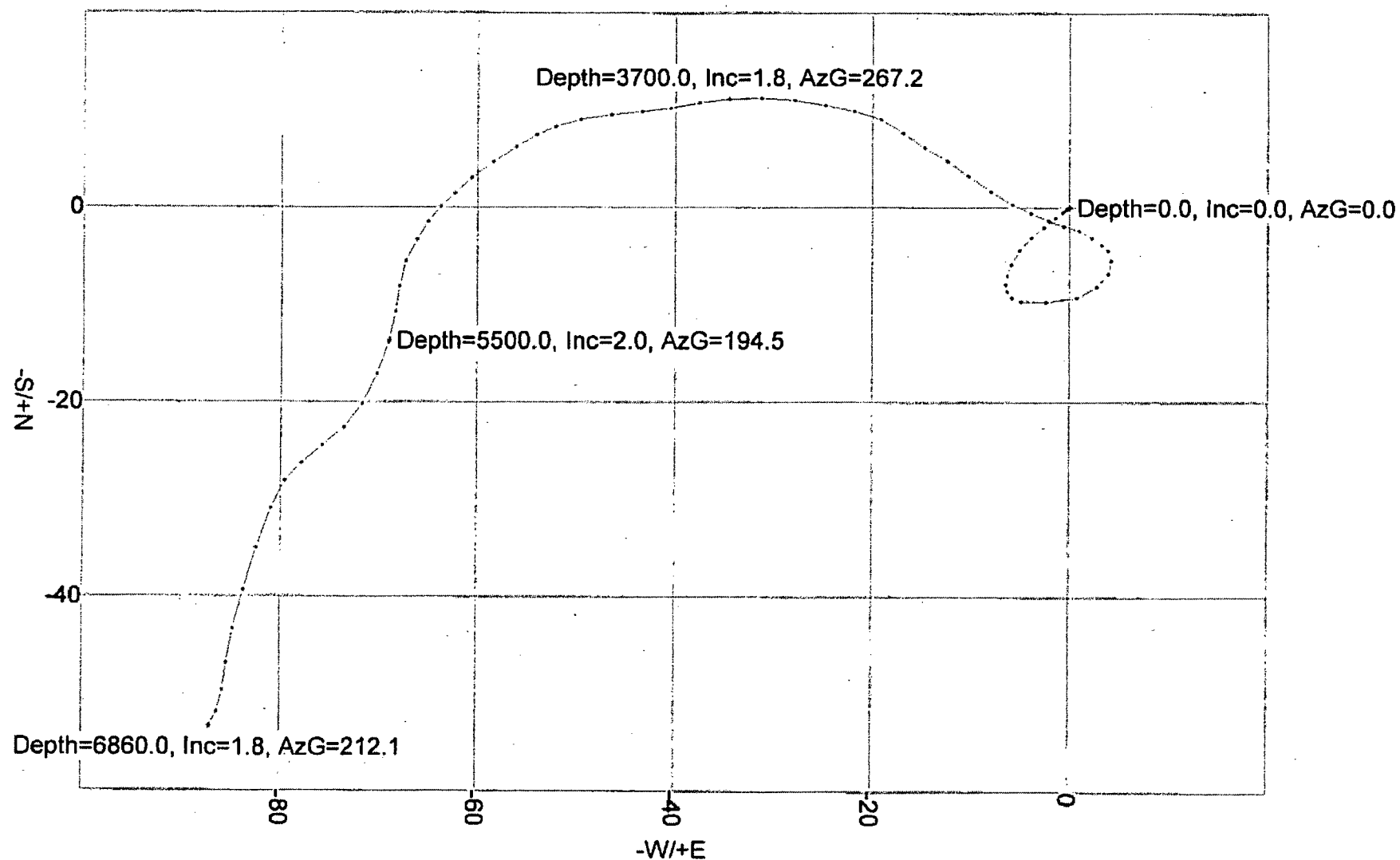
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.18	231.52	100.00	-0.10	-0.12	-0.10	0.16	231.52	0.18
200.00	0.14	236.96	200.00	-0.27	-0.35	-0.27	0.44	233.07	0.04
300.00	0.28	235.72	300.00	-0.47	-0.66	-0.47	0.82	234.48	0.14
400.00	0.81	230.46	399.99	-1.06	-1.41	-1.06	1.77	233.06	0.52
500.00	0.96	232.33	499.98	-2.02	-2.62	-2.02	3.31	232.32	0.15
600.00	0.91	227.93	599.97	-3.06	-3.87	-3.06	4.93	231.61	0.09
700.00	1.15	217.39	699.95	-4.39	-6.07	-4.39	6.71	229.07	0.30
800.00	0.81	199.19	799.94	-5.86	-6.91	-5.86	8.32	225.23	0.45
900.00	0.59	198.28	899.93	-7.02	-6.31	-7.02	9.44	221.92	0.22
1000.00	0.43	184.26	999.93	-7.89	-6.49	-7.89	10.22	219.47	0.20
1100.00	0.44	163.36	1099.92	-8.60	-6.35	-8.60	10.69	216.43	0.23
1200.00	0.53	134.65	1199.92	-9.27	-5.85	-9.27	10.96	212.25	0.18
1300.00	0.68	96.71	1299.91	-9.66	-4.93	-9.66	10.85	207.04	0.42
1400.00	2.24	89.39	1399.88	-9.71	-2.39	-9.71	10.00	193.81	1.57
1500.00	1.48	71.51	1499.83	-9.28	0.79	-9.28	9.32	175.11	0.94
1600.00	1.20	46.72	1599.80	-8.15	2.79	-8.15	8.61	161.13	0.64
1700.00	0.85	32.77	1699.78	-6.81	3.95	-6.81	7.87	149.86	0.43
1800.00	0.85	350.79	1799.77	-5.45	4.24	-5.45	6.90	142.14	0.61

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	0.41	325.84	1899.77	-4.42	3.92	-4.42	5.91	138.45	0.51
2000.00	0.63	300.91	1999.76	-3.85	3.25	-3.85	5.03	139.80	0.31
2100.00	0.78	313.60	2099.76	-3.09	2.29	-3.09	3.85	143.54	0.22
2200.00	0.94	287.34	2199.75	-2.38	1.01	-2.38	2.59	156.95	0.42
2300.00	0.94	285.66	2299.73	-1.92	-0.56	-1.92	1.99	196.18	0.03
2400.00	1.02	292.72	2399.72	-1.35	-2.17	-1.35	2.55	238.05	0.14
2500.00	1.16	294.82	2499.70	-0.58	-3.91	-0.58	3.95	261.52	0.15
2600.00	1.26	294.04	2599.68	0.29	-5.83	0.29	5.84	272.85	0.10
2700.00	1.72	307.62	2699.64	1.88	-8.02	1.66	8.19	281.66	0.58
2800.00	1.47	303.43	2799.60	3.28	-10.29	3.28	10.80	287.69	0.28
2900.00	1.50	306.81	2899.57	4.77	-12.41	4.77	13.29	291.05	0.09
3000.00	1.57	294.87	2999.53	6.14	-14.70	6.14	15.93	292.66	0.33
3100.00	1.51	313.78	3099.50	7.63	-16.90	7.63	18.54	294.29	0.51
3200.00	1.57	291.65	3199.46	9.04	-19.12	9.04	21.15	295.31	0.59
3300.00	1.70	282.75	3299.42	9.88	-21.84	9.88	23.97	294.33	0.29
3400.00	1.71	280.53	3399.38	10.48	-24.75	10.48	26.88	292.94	0.07
3500.00	1.93	278.25	3499.33	10.99	-27.89	10.99	29.97	291.51	0.23
3600.00	1.95	269.43	3599.27	11.21	-31.26	11.21	33.21	289.74	0.30
3700.00	1.78	267.20	3699.22	11.12	-34.52	11.12	36.26	287.86	0.19
3800.00	1.74	257.81	3799.17	10.73	-37.55	10.73	39.05	285.94	0.29
3900.00	1.71	260.67	3899.13	10.16	-40.51	10.16	41.76	284.09	0.09
4000.00	1.66	265.36	3999.08	9.80	-43.42	9.80	44.51	282.72	0.15
4100.00	1.82	262.79	4099.04	9.49	-46.45	9.49	47.40	281.54	0.18
4200.00	1.78	259.50	4198.99	9.00	-49.56	9.00	50.37	280.30	0.11
4300.00	1.26	246.72	4298.95	8.28	-52.10	8.28	52.75	279.04	0.62
4400.00	1.15	245.31	4398.93	7.43	-54.02	7.43	54.53	277.83	0.11
4500.00	1.57	234.40	4498.90	6.22	-58.04	6.22	56.39	276.33	0.49
4600.00	1.65	238.73	4598.86	4.67	-58.39	4.67	58.57	274.58	0.15
4700.00	1.52	227.47	4698.82	3.03	-60.60	3.03	60.67	272.86	0.34
4800.00	1.09	225.11	4798.80	1.45	-62.25	1.45	62.27	271.34	0.44
4900.00	1.19	228.81	4898.78	0.10	-63.70	0.10	63.71	270.09	0.12
5000.00	1.18	208.51	4998.76	-1.48	-64.97	-1.48	64.99	268.69	0.42
5100.00	1.29	215.37	5098.73	-3.31	-66.12	-3.31	66.20	267.14	0.19
5200.00	1.80	200.48	5198.70	-5.54	-67.26	-5.54	67.49	265.29	0.48
5300.00	1.47	185.79	5298.67	-8.12	-67.88	-8.12	68.36	263.18	0.41
5400.00	1.51	191.44	5398.63	-10.69	-68.27	-10.69	69.10	261.10	0.15
5500.00	2.02	194.49	5498.58	-13.69	-68.97	-13.69	70.32	258.77	0.52
5600.00	2.11	205.44	5598.52	-17.06	-70.20	-17.06	72.25	256.34	0.40
5700.00	1.88	205.39	5698.46	-20.20	-71.70	-20.20	74.49	254.26	0.23

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
5800.00	1.66	231.74	5798.41	-22.58	-73.53	-22.58	76.92	252.93	0.84
5900.00	1.66	229.09	5898.37	-24.42	-75.76	-24.42	79.60	252.13	0.08
6000.00	1.59	229.57	5998.33	-26.27	-77.91	-26.27	82.22	251.37	0.07
6100.00	1.26	214.85	6098.30	-28.06	-79.59	-28.06	84.39	250.58	0.49
6200.00	2.39	202.04	6198.25	-30.89	-81.00	-30.89	86.69	249.12	1.20
6300.00	2.57	197.75	6298.16	-34.97	-82.47	-34.97	89.57	247.02	0.26
6400.00	2.65	194.64	6398.05	-39.34	-83.73	-39.34	92.51	244.84	0.16
6500.00	2.11	194.58	6497.97	-43.35	-84.78	-43.35	95.22	242.92	0.54
6600.00	2.02	185.95	6597.90	-46.88	-85.43	-46.88	97.45	241.24	0.32
6700.00	1.23	190.24	6697.86	-49.69	-85.80	-49.69	99.15	239.92	0.79
6800.00	1.42	198.09	6797.83	-51.93	-86.38	-51.93	100.78	238.99	0.26
6860.00	1.80	212.14	6857.81	-53.43	-87.11	-53.43	102.19	238.48	0.91



VES Survey International
West Texas
(432) 563-5444
Surveyor: Chris Bankson
Jack Federal No. 005H / API 30-015-42135



VES Survey Date: 09/15/2014



COG Operating LLC

Eddy County, NM

Jack Federal

#5H

OH

Survey: MWD #1

Survey Report - Geographic

21 September, 2014



Wellplanning Survey Report - Geographic

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well #5H
Project:	Eddy County, NM	TVD Reference:	WELL @ 3285.8usft (Original Well Elev)
Site:	Jack Federal	MD Reference:	WELL @ 3285.8usft (Original Well Elev)
Well:	#5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project:	Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:		Jack Federal			
Site Position:		Northings:	397,388.50 usft	Latitude:	32° 5' 32.989 N
From:	Map	Easting:	530,085.10 usft	Longitude:	104° 14' 10.500 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.05 "

Well:	#5H					
Well Position	+N-S	0.0 usft	Northings:	397,557.20 usft	Latitude:	32° 5' 34.828 N
	+E-W	0.0 usft	Easting:	534,526.70 usft	Longitude:	104° 13' 18.033 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,248.6 usft

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/1/2014	7.48	59.89	48,147

Design:	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction:	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0		178.37

Survey Program		Date	9/21/2014	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	6,860.0	GYRO (OH)	MWD	MWD - Standard
6,899.0	11,958.0	MWD #1 (OH)	MWD	MWD - Standard

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Map Northings (usft)	Map Eastings (usft)	Latitude	Longitude
6,860.0	1.80	212.14	6,857.8	-53.4	-87.1	397,503.75	534,439.80	32° 5' 34.098 N	104° 13' 19.648 W
6,899.0	2.10	219.80	6,896.8	-54.5	-87.9	397,502.69	534,438.82	32° 5' 34.087 N	104° 13' 19.655 W
6,931.0	2.30	223.80	6,928.8	-55.4	-88.7	397,501.77	534,438.00	32° 5' 34.078 N	104° 13' 19.664 W
6,962.0	4.90	197.30	6,959.7	-57.1	-89.5	397,500.05	534,437.18	32° 5' 34.061 N	104° 13' 19.674 W
6,994.0	9.10	192.30	6,991.5	-60.9	-90.5	397,498.28	534,436.23	32° 5' 34.024 N	104° 13' 19.685 W
7,025.0	13.00	191.60	7,021.9	-66.7	-91.7	397,490.46	534,435.01	32° 5' 33.966 N	104° 13' 19.699 W
7,057.0	16.90	192.70	7,052.8	-74.6	-93.4	397,482.40	534,433.26	32° 5' 33.886 N	104° 13' 19.720 W
7,088.0	20.80	193.70	7,082.1	-84.5	-95.7	397,472.65	534,430.98	32° 5' 33.790 N	104° 13' 19.747 W
7,119.0	24.30	193.00	7,110.7	-98.1	-98.5	397,461.08	534,428.22	32° 5' 33.676 N	104° 13' 19.779 W
7,151.0	28.30	191.60	7,139.4	-110.0	-101.5	397,447.23	534,425.22	32° 5' 33.539 N	104° 13' 19.814 W
7,183.0	31.80	189.20	7,167.1	-125.7	-104.4	397,431.47	534,422.34	32° 5' 33.383 N	104° 13' 19.847 W



Wellplanning
Survey Report - Geographic

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well #5H
Project:	Eddy County, NM	TVD Reference:	WELL @ 3285 Busft (Original Well Elev)
Site:	Jack Federal	MD Reference:	WELL @ 3285 Busft (Original Well Elev)
Well:	#5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,215.0	35.20	186.70	7,193.8	-143.2	-106.8	397,413.98	534,419.92	32° 5' 33.210 N	104° 13' 19.878 W
7,246.0	38.50	185.30	7,218.6	-161.7	-108.7	397,395.50	534,417.98	32° 5' 33.027 N	104° 13' 19.898 W
7,278.0	41.20	185.00	7,243.2	-182.1	-110.6	397,375.08	534,416.14	32° 5' 32.825 N	104° 13' 19.920 W
7,310.0	43.80	183.20	7,266.8	-203.7	-112.1	397,353.52	534,414.61	32° 5' 32.611 N	104° 13' 19.938 W
7,342.0	45.70	180.40	7,289.5	-226.2	-112.8	397,331.00	534,413.91	32° 5' 32.388 N	104° 13' 19.946 W
7,374.0	48.60	177.60	7,311.3	-249.6	-112.4	397,307.55	534,414.33	32° 5' 32.156 N	104° 13' 19.942 W
7,405.0	51.90	178.20	7,331.1	-273.4	-111.1	397,283.76	534,415.63	32° 5' 31.921 N	104° 13' 19.927 W
7,437.0	56.00	176.20	7,349.9	-299.2	-109.4	397,257.95	534,417.34	32° 5' 31.665 N	104° 13' 19.907 W
7,469.0	58.40	175.80	7,367.2	-326.1	-107.5	397,231.12	534,419.22	32° 5' 31.400 N	104° 13' 19.886 W
7,501.0	59.80	174.40	7,383.7	-353.4	-105.1	397,203.76	534,421.57	32° 5' 31.129 N	104° 13' 19.859 W
7,532.0	62.30	174.40	7,398.7	-380.4	-102.5	397,176.77	534,424.21	32° 5' 30.882 N	104° 13' 19.829 W
7,564.0	64.00	175.80	7,413.1	-408.9	-100.1	397,148.33	534,426.85	32° 5' 30.580 N	104° 13' 19.801 W
7,596.0	64.60	176.90	7,427.0	-437.6	-98.2	397,119.55	534,428.48	32° 5' 30.296 N	104° 13' 19.780 W
7,627.0	66.50	176.90	7,439.6	-465.8	-96.7	397,091.37	534,430.01	32° 5' 30.017 N	104° 13' 19.762 W
7,659.0	69.00	177.60	7,451.9	-495.4	-95.3	397,061.79	534,431.43	32° 5' 29.724 N	104° 13' 19.746 W
7,691.0	70.40	178.30	7,463.1	-525.4	-94.2	397,031.80	534,432.50	32° 5' 29.427 N	104° 13' 19.734 W
7,723.0	73.90	178.60	7,472.9	-555.8	-93.4	397,001.36	534,433.33	32° 5' 29.126 N	104° 13' 19.725 W
7,754.0	77.80	178.30	7,480.4	-585.9	-92.6	396,971.31	534,434.14	32° 5' 28.828 N	104° 13' 19.716 W
7,786.0	81.80	178.30	7,486.1	-617.4	-91.8	396,939.84	534,435.07	32° 5' 28.517 N	104° 13' 19.705 W
7,813.0	85.30	179.00	7,489.1	-644.2	-91.0	396,913.02	534,435.70	32° 5' 28.252 N	104° 13' 19.698 W
7,845.0	87.80	178.30	7,491.1	-678.1	-90.2	396,881.09	534,438.46	32° 5' 27.936 N	104° 13' 19.690 W
7,877.0	88.70	178.30	7,492.0	-708.1	-89.3	396,849.12	534,437.41	32° 5' 27.619 N	104° 13' 19.679 W
7,909.0	89.70	178.60	7,492.5	-740.1	-88.4	396,817.14	534,438.27	32° 5' 27.303 N	104° 13' 19.669 W
7,941.0	90.30	179.00	7,492.5	-772.1	-87.8	396,785.14	534,438.94	32° 5' 26.986 N	104° 13' 19.662 W
8,038.0	90.80	179.00	7,491.5	-807.0	-86.1	396,690.16	534,440.80	32° 5' 26.046 N	104° 13' 19.644 W
8,131.0	90.10	177.60	7,490.8	-862.0	-83.3	396,595.21	534,443.42	32° 5' 25.106 N	104° 13' 19.612 W
8,228.0	88.00	177.20	7,482.4	-1,056.9	-79.0	396,500.33	534,447.73	32° 5' 24.167 N	104° 13' 19.563 W
8,321.0	86.50	177.20	7,485.3	-1,151.7	-74.3	396,405.48	534,452.36	32° 5' 23.229 N	104° 13' 19.511 W
8,416.0	89.20	177.60	7,487.2	-1,248.6	-70.0	396,310.60	534,456.67	32° 5' 22.289 N	104° 13' 19.462 W
8,512.0	88.60	177.20	7,488.2	-1,342.5	-65.7	396,214.71	534,461.03	32° 5' 21.340 N	104° 13' 19.412 W
8,607.0	90.10	177.60	7,488.5	-1,437.4	-61.4	396,119.81	534,465.34	32° 5' 20.401 N	104° 13' 19.363 W
8,702.0	90.40	177.60	7,488.0	-1,532.3	-57.4	396,024.89	534,469.32	32° 5' 19.462 N	104° 13' 19.316 W
8,797.0	91.10	177.60	7,486.8	-1,627.2	-53.4	395,929.98	534,473.29	32° 5' 18.522 N	104° 13' 19.273 W
8,893.0	88.50	178.60	7,487.1	-1,723.2	-50.2	395,834.04	534,476.48	32° 5' 17.573 N	104° 13' 19.237 W
8,988.0	88.90	178.60	7,489.3	-1,818.1	-47.9	395,739.10	534,478.80	32° 5' 16.633 N	104° 13' 19.211 W
9,083.0	89.20	179.00	7,500.9	-1,913.1	-45.9	395,644.13	534,480.79	32° 5' 15.693 N	104° 13' 19.189 W
9,178.0	89.70	179.30	7,501.8	-2,008.1	-44.5	395,549.15	534,482.19	32° 5' 14.753 N	104° 13' 19.174 W
9,273.0	90.30	179.30	7,501.8	-2,103.0	-43.3	395,454.15	534,483.36	32° 5' 13.813 N	104° 13' 19.162 W
9,368.0	90.60	179.30	7,501.0	-2,198.0	-42.2	395,359.16	534,484.52	32° 5' 12.873 N	104° 13' 19.149 W
9,463.0	91.00	179.30	7,499.7	-2,293.0	-41.0	395,264.18	534,485.68	32° 5' 11.933 N	104° 13' 19.137 W
9,558.0	91.50	179.30	7,497.6	-2,388.0	-39.9	395,169.21	534,486.64	32° 5' 10.993 N	104° 13' 19.125 W
9,653.0	89.70	179.00	7,496.6	-2,483.0	-38.5	395,074.23	534,488.25	32° 5' 10.053 N	104° 13' 19.109 W
9,746.0	88.70	179.70	7,498.0	-2,578.0	-37.4	394,979.25	534,489.32	32° 5' 9.113 N	104° 13' 19.098 W
9,843.0	89.20	179.70	7,498.7	-2,672.9	-36.9	394,884.27	534,489.62	32° 5' 8.173 N	104° 13' 19.093 W
9,938.0	89.70	179.30	7,500.6	-2,767.9	-36.1	394,788.27	534,490.65	32° 5' 7.233 N	104° 13' 19.085 W
10,033.0	90.30	179.00	7,500.6	-2,862.9	-34.6	394,694.29	534,492.06	32° 5' 6.293 N	104° 13' 19.070 W
10,129.0	91.00	179.00	7,499.5	-2,958.9	-33.0	394,598.31	534,493.73	32° 5' 5.343 N	104° 13' 19.051 W
10,224.0	88.50	179.00	7,499.9	-3,053.9	-31.3	394,503.33	534,495.39	32° 5' 4.403 N	104° 13' 19.033 W
10,319.0	88.70	179.00	7,502.3	-3,148.8	-29.7	394,408.37	534,497.05	32° 5' 3.464 N	104° 13' 19.015 W
10,414.0	89.60	179.00	7,503.7	-3,243.8	-28.0	394,313.40	534,498.71	32° 5' 2.524 N	104° 13' 18.997 W
10,510.0	90.30	179.00	7,503.8	-3,339.8	-26.3	394,217.41	534,500.38	32° 5' 1.574 N	104° 13' 18.979 W
10,605.0	87.80	178.60	7,505.3	-3,434.7	-24.3	394,122.46	534,502.37	32° 5' 0.634 N	104° 13' 18.957 W
10,700.0	88.30	178.60	7,508.6	-3,529.7	-22.0	394,027.54	534,504.69	32° 4' 59.694 N	104° 13' 18.931 W
10,795.0	88.70	179.00	7,511.1	-3,624.6	-20.0	393,932.59	534,506.68	32° 4' 58.755 N	104° 13' 18.909 W
10,890.0	89.40	179.00	7,512.6	-3,719.6	-18.4	393,837.62	534,508.34	32° 4' 57.815 N	104° 13' 18.891 W



Wellplanning Survey Report - Geographic

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well #5H
Project:	Eddy County, NM	TVD Reference:	WELL @ 3285.8usft (Original Well Elev)
Site:	Jack Federal	MD Reference:	WELL @ 3285.8usft (Original Well Elev)
Well:	#5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,985.0	89.90	178.60	7,513.2	-3,814.6	+18.4	393,742.64	534,510.33	32° 4' 58.875 N	104° 13' 18.869 W	
11,081.0	90.80	178.60	7,512.6	-3,910.5	+14.0	393,846.68	534,512.87	32° 4' 55.925 N	104° 13' 18.843 W	
11,179.0	91.50	178.60	7,510.7	-4,005.5	+11.7	393,551.72	534,514.89	32° 4' 54.985 N	104° 13' 18.817 W	
11,271.0	89.60	178.60	7,509.8	-4,100.4	-9.4	393,456.78	534,517.31	32° 4' 54.046 N	104° 13' 18.791 W	
11,366.0	87.60	178.60	7,512.1	-4,195.4	-7.1	393,381.82	534,519.84	32° 4' 53.106 N	104° 13' 18.765 W	
11,461.0	88.50	178.60	7,515.4	-4,290.3	-4.7	393,288.91	534,521.95	32° 4' 52.167 N	104° 13' 18.739 W	
11,559.0	89.60	178.60	7,516.9	-4,385.2	-2.4	393,171.95	534,524.28	32° 4' 51.227 N	104° 13' 18.713 W	
11,651.0	90.40	178.30	7,516.9	-4,480.2	0.1	393,078.98	534,526.85	32° 4' 50.287 N	104° 13' 18.685 W	
11,748.0	91.50	178.30	7,515.4	-4,575.2	3.0	392,982.04	534,529.68	32° 4' 49.347 N	104° 13' 18.653 W	
11,841.0	90.30	178.30	7,513.9	-4,670.1	5.8	392,887.10	534,532.48	32° 4' 48.408 N	104° 13' 18.622 W	
11,958.0	90.30	178.30	7,513.3	-4,785.1	9.2	392,772.15	534,535.89	32° 4' 47.270 N	104° 13' 18.583 W	
PBHL(#5H)										

Checked By: _____ Approved By: _____ Date: _____