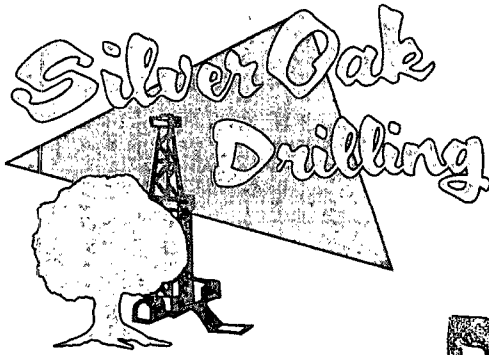
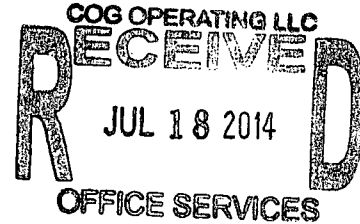
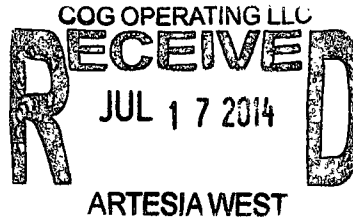


006135



PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

15-42332



June 25, 2014

COG, LLC
One Concho Center
600 W. Illinois Ave.
Midland, TX 79701

RE: Graham Cracker 16 State #7H
190' FNL & 1370' FEL
Sec. 16, T26S, R28E
Eddy County, New Mexico

Dear Sir,

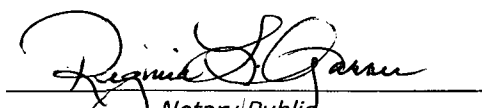
The attached is the Deviation Survey for the above captioned well.

Very truly yours,


Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

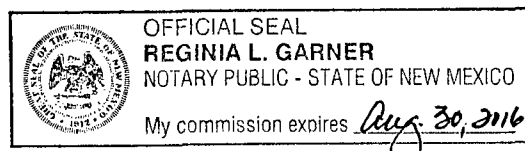
The foregoing was acknowledged before me this 25th day of June, 2014.


Regina L. Garner
Notary Public

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 19 2014

RECEIVED



Graham Cracker 16 State #7H

Date	Depth	Deviation	Direction	TVD	Horiz Disp
5/31/2014	117	1.00	0.00	0.00	0.00
5/31/2014	208	0.90	0.00	0.00	0.00
5/31/2014	274	0.80	0.00	0.00	0.00
6/2/2014	369	0.70	0.00	0.00	0.00
6/2/2014	486	0.90	0.00	0.00	0.00
6/2/2014	607	0.80	0.00	0.00	0.00
6/2/2014	699	0.20	0.00	0.00	0.00
6/3/2014	881	0.60	0.00	0.00	0.00
6/3/2014	1064	0.10	0.00	0.00	0.00
6/3/2014	1249	0.50	0.00	0.00	0.00
6/3/2014	1432	0.20	0.00	0.00	0.00
6/3/2014	1616	0.50	0.00	0.00	0.00
6/3/2014	1800	0.00	0.00	0.00	0.00
6/4/2014	1983	0.70	0.00	0.00	0.00
6/4/2014	2169	0.00	0.00	0.00	0.00
6/4/2014	2326	1.20	0.00	0.00	0.00
6/4/2014	2358	0.70	0.00	0.00	0.00
6/4/2014	2457	0.30	0.00	0.00	0.00
6/5/2014	2798	0.40	0.00	0.00	0.00
6/6/2014	3082	0.90	0.00	0.00	0.00
6/6/2014	3365	1.50	0.00	0.00	0.00
6/6/2014	3680	1.80	0.00	0.00	0.00
6/6/2014	3996	0.80	0.00	0.00	0.00
6/6/2014	4279	0.50	0.00	0.00	0.00
6/6/2014	4563	0.20	0.00	0.00	0.00
6/7/2014	4846	0.50	0.00	0.00	0.00
6/7/2014	5129	1.40	0.00	0.00	0.00
6/7/2014	5364	1.00	0.00	0.00	0.00
6/7/2014	5603	0.60	0.00	0.00	0.00
6/7/2014	5792	1.50	0.00	0.00	0.00
6/7/2014	5943	1.50	0.00	0.00	0.00
6/8/2014	6233	1.80	0.00	0.00	0.00
6/8/2014	6416	1.70	0.00	0.00	0.00
6/9/2014	6467	1.80	246.60	0.00	0.00
6/9/2014	6558	2.20	248.50	6557.00	0.00
6/9/2014	6842	1.80	261.00	0.00	0.00
6/9/2014	6936	1.40	268.90	0.00	0.00
6/9/2014	7060	1.10	271.40	0.00	0.00
6/9/2014	7220	1.10	246.10	0.00	0.00
6/9/2014	7315	0.70	246.90	0.00	0.00
6/10/2014	7410	1.20	260.90	0.00	0.00
6/10/2014	7599	1.10	289.00	0.00	0.00
6/10/2014	7789	0.90	266.50	0.00	0.00

Date	Depth	Deviation	Direction	TVD	Horiz Disp
6/10/2014	7884	1.60	286.70	0.00	0.00
6/10/2014	7978	1.50	293.30	0.00	0.00
6/11/2014	8168	2.20	303.40	0.00	0.00
6/11/2014	8356	2.50	294.60	0.00	0.00
6/11/2014	8449	1.50	303.50	0.00	0.00
6/11/2014	8576	1.00	284.60	0.00	0.00
6/11/2014	8608	1.10	290.20	8606.47	39.00
6/12/2014	8671	6.20	199.30	8669.40	41.60
6/12/2014	8733	14.50	182.80	8730.30	52.70
6/12/2014	8764	16.90	179.80	8760.20	61.04
6/12/2014	8796	21.00	183.30	8790.00	0.00
6/12/2014	8828	24.60	183.80	8819.90	0.00
6/13/2014	8891	30.90	192.70	8875.60	113.10
6/13/2014	8923	33.00	195.40	8902.80	129.70
6/13/2014	8954	34.20	198.80	8928.60	146.30
6/13/2014	8986	36.00	201.00	8954.80	164.00
6/13/2014	9080	42.70	199.90	9027.70	220.20
6/13/2014	9143	48.20	200.10	9071.90	263.30
6/14/2014	9175	50.20	198.20	9092.00	286.00
6/14/2014	9206	23.20	195.70	9112.00	310.00
6/14/2014	9238	57.10	194.30	9130.00	335.00
6/14/2014	9270	61.40	193.40	9146.60	362.90
6/14/2014	9333	70.10	192.20	9172.50	419.60
6/14/2014	9364	74.40	192.60	918.90	448.70
6/15/2014	9396	78.50	192.90	9189.40	479.40
6/15/2014	9428	83.00	193.00	9194.60	510.50
6/15/2014	9470	88.90	192.30	9197.00	559.00
6/15/2014	9628	91.00	194.60	9196.90	707.40
6/15/2014	9724	91.30	193.40	9194.90	801.70
6/16/2014	9818	93.60	190.00	9190.10	894.50
6/16/2014	9913	92.80	185.90	9185.60	989.00
6/16/2014	10102	90.20	179.40	9184.00	1177.00
6/16/2014	10291	90.20	177.20	9184.00	1366.00
6/16/2014	10386	90.60	177.40	9183.00	1460.00
6/16/2014	10480	90.60	177.10	9183.00	1554.35
6/16/2014	10669	89.90	178.40	9182.30	1742.60
6/17/2014	10858	89.10	179.00	9185.40	1931.00
6/17/2014	10951	90.90	179.80	9185.40	2023.80
6/17/2014	11141	90.50	180.80	9182.10	2213.50
6/17/2014	11330	90.70	180.00	9180.00	2402.00
6/17/2014	11425	88.80	180.60	9180.00	2496.00
6/17/2014	11520	88.80	180.60	9182.00	2591.00
6/17/2014	11614	89.40	181.30	9184.30	2685.90
6/17/2014	11707	90.40	181.20	9184.50	2778.80
6/18/2014	11801	90.20	180.40	9184.00	2872.80

Date	Depth	Deviation	Direction	TVD	Horiz Disp
6/18/2014	11990	90.80	181.80	9182.30	3061.60
6/18/2014	12085	91.00	181.50	9180.80	3156.60
6/18/2014	12180	88.70	178.80	9181.00	3251.00
6/18/2014	12274	90.50	181.80	9181.00	3345.00
6/18/2014	12369	90.20	180.40	9181.00	3440.00
6/19/2014	12394	90.20	181.80	9181.00	3456.00
6/19/2014	12489	89.70	180.60	9181.00	3560.00
6/19/2014	12583	89.10	178.10	9182.00	3653.00
6/19/2014	12677	88.60	177.50	9184.02	3747.51
6/19/2014	12771	90.80	179.10	9184.52	3841.15
6/19/2014	12866	89.30	177.90	9184.40	3935.80
6/20/2014	12961	89.80	177.60	9185.20	4030.40
6/20/2014	13151	90.30	177.00	9183.30	4219.50
6/20/2014	13246	90.50	178.30	9182.60	4314.10
6/20/2014	13340	92.30	177.70	9180.00	4407.00
6/20/2014	13434	91.40	179.50	9177.00	4501.00
6/20/2014	13529	87.60	178.40	9178.11	4596.01
6/21/2014	13688	87.50	178.10	9183.80	4804.10



June 16, 2014

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

Attn: Kanicia Castillo

RE: **Graham Cracker 16 State No. 007H**

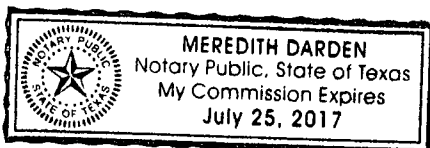
Please find enclosed a copy of the survey from 0.00' to 6,388.00' ran on the above referenced well.

Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 16th day of June, A.D., 2014, by Keith Havelka.




Meredith Darden
Notary Public, State of Texas

Company: COG Operating, LLC (Concho)
Lease/Well: Graham Cracker 16 State/No. 007H



Rig Name: Silver Oak 7
State/County: New Mexico/Eddy
Latitude: 32.05, Longitude: -104.09
GRID North is 0.13 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB= 18 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 6/16/2014 / 09:21

VES Survey International
West Texas
(432) 563-5444
Surveyor: Bryan Massey
Graham Cracker 16 State No. 007H / API 30-015-42332

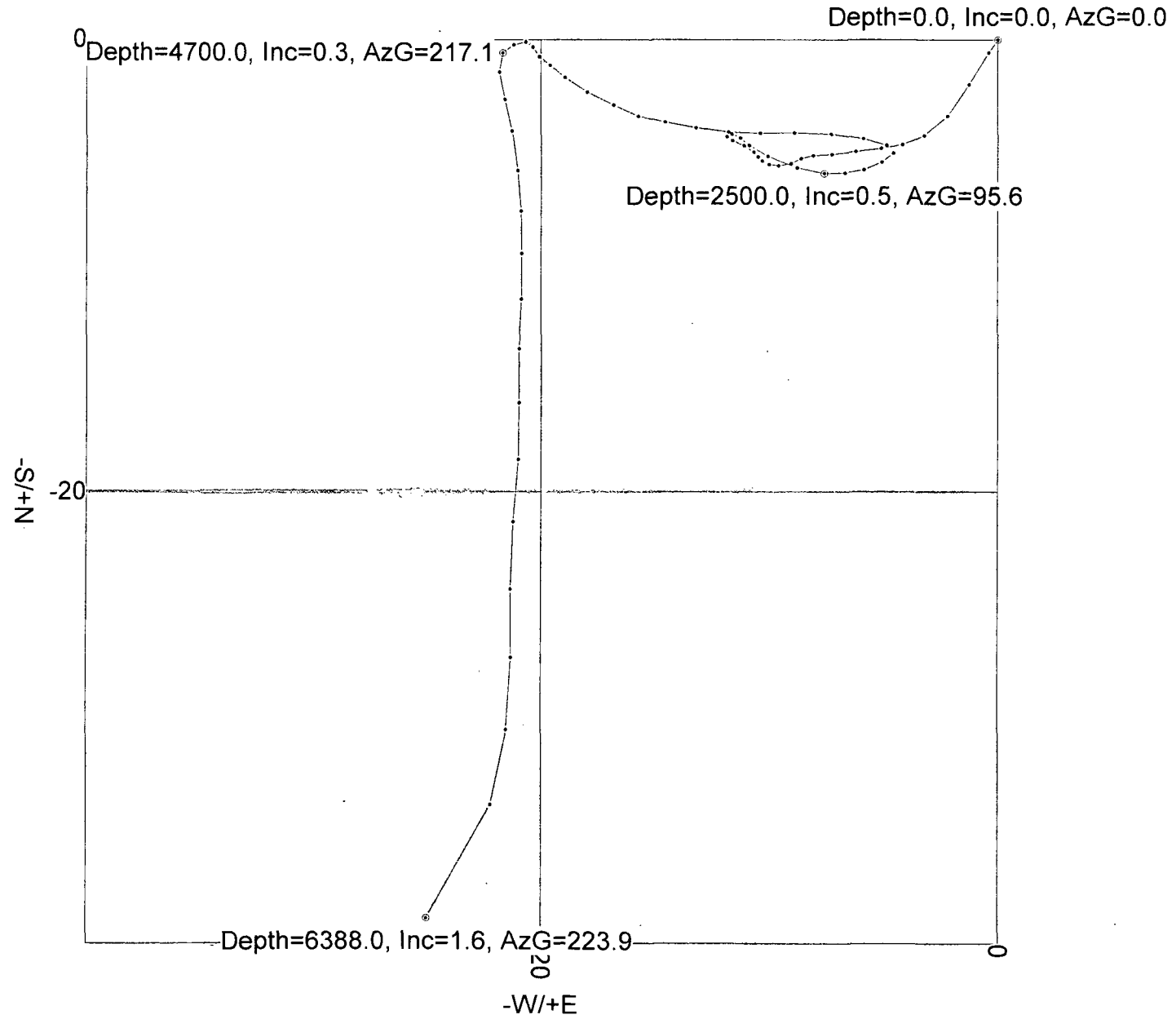
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.81	214.32	100.00	-0.58	-0.40	-0.58	0.70	214.32	0.81
200.00	1.09	208.83	199.98	-1.99	-1.25	-1.99	2.35	212.11	0.29
300.00	0.86	220.25	299.97	-3.40	-2.19	-3.40	4.04	212.85	0.30
400.00	0.71	241.45	399.96	-4.26	-3.22	-4.26	5.34	217.06	0.32
500.00	0.48	256.50	499.95	-4.65	-4.17	-4.65	6.25	221.83	0.28
600.00	0.60	262.85	599.95	-4.82	-5.09	-4.82	7.01	226.59	0.14
700.00	0.69	262.70	699.94	-4.96	-6.21	-4.96	7.95	231.40	0.08
800.00	0.52	264.00	799.94	-5.08	-7.26	-5.08	8.86	234.99	0.17
900.00	0.42	268.68	899.93	-5.14	-8.07	-5.14	9.57	237.52	0.10
1000.00	0.22	231.33	999.93	-5.27	-8.59	-5.27	10.07	238.48	0.28
1100.00	0.35	251.09	1099.93	-5.48	-9.03	-5.48	10.56	238.72	0.17
1200.00	0.28	269.69	1199.93	-5.59	-9.57	-5.59	11.08	239.73	0.12
1300.00	0.20	287.40	1299.93	-5.53	-9.99	-5.53	11.42	241.01	0.11
1400.00	0.19	308.73	1399.93	-5.38	-10.29	-5.38	11.61	242.41	0.07
1500.00	0.11	326.38	1499.93	-5.19	-10.47	-5.19	11.69	243.64	0.09
1600.00	0.21	314.42	1599.93	-4.98	-10.66	-4.98	11.76	244.97	0.11
1700.00	0.38	296.73	1699.93	-4.70	-11.09	-4.70	12.04	247.03	0.19
1800.00	0.28	287.84	1799.92	-4.47	-11.62	-4.47	12.45	248.94	0.11

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	0.11	356.36	1899.92	-4.30	-11.86	-4.30	12.62	250.07	0.26
2000.00	0.27	86.32	1999.92	-4.19	-11.63	-4.19	12.36	250.19	0.29
2100.00	0.27	141.96	2099.92	-4.36	-11.25	-4.36	12.06	248.81	0.25
2200.00	0.33	121.14	2199.92	-4.69	-10.86	-4.69	11.83	246.63	0.12
2300.00	0.76	119.38	2299.92	-5.16	-10.04	-5.16	11.29	242.78	0.43
2400.00	0.83	105.76	2399.91	-5.68	-8.77	-5.68	10.45	237.05	0.20
2500.00	0.55	95.62	2499.90	-5.93	-7.59	-5.93	9.63	232.03	0.31
2600.00	0.50	81.57	2599.90	-5.91	-6.68	-5.91	8.92	228.51	0.14
2700.00	0.46	77.52	2699.89	-5.76	-5.86	-5.76	8.21	225.49	0.06
2800.00	0.54	58.14	2799.89	-5.42	-5.07	-5.42	7.42	223.06	0.19
2900.00	0.20	35.79	2899.89	-5.03	-4.56	-5.03	6.79	222.20	0.36
3000.00	0.53	296.75	2999.88	-4.68	-4.87	-4.68	6.75	226.13	0.59
3100.00	0.71	278.34	3099.88	-4.38	-5.89	-4.38	7.34	233.34	0.27
3200.00	0.90	277.82	3199.87	-4.19	-7.28	-4.19	8.40	240.10	0.20
3300.00	0.93	266.14	3299.86	-4.13	-8.87	-4.13	9.79	245.02	0.19
3400.00	0.77	273.06	3399.85	-4.15	-10.35	-4.15	11.16	248.15	0.19
3500.00	0.85	271.48	3499.84	-4.10	-11.77	-4.10	12.46	250.80	0.08
3600.00	0.82	283.99	3599.82	-3.91	-13.20	-3.91	13.77	253.52	0.18
3700.00	0.76	276.54	3699.82	-3.66	-14.55	-3.66	15.01	255.89	0.12
3800.00	0.62	290.30	3799.81	-3.39	-15.72	-3.39	16.09	257.82	0.22
3900.00	0.74	297.58	3899.80	-2.90	-16.81	-2.90	17.06	260.19	0.15
4000.00	0.75	295.00	3999.79	-2.33	-17.97	-2.33	18.12	262.62	0.04
4100.00	0.61	314.25	4099.79	-1.68	-18.95	-1.68	19.03	264.94	0.27
4200.00	0.36	300.53	4199.78	-1.15	-19.60	-1.15	19.64	266.65	0.28
4300.00	0.34	318.46	4299.78	-0.76	-20.07	-0.76	20.09	267.82	0.11
4400.00	0.26	336.87	4399.78	-0.33	-20.36	-0.33	20.36	269.06	0.13
4500.00	0.25	273.36	4499.78	-0.11	-20.66	-0.11	20.66	269.69	0.27
4600.00	0.38	246.84	4599.78	-0.23	-21.19	-0.23	21.19	269.37	0.19
4700.00	0.32	217.07	4699.77	-0.59	-21.66	-0.59	21.67	268.45	0.19
4800.00	0.73	177.87	4799.77	-1.45	-21.81	-1.45	21.86	266.19	0.52
4900.00	0.71	158.30	4899.76	-2.66	-21.56	-2.66	21.72	262.95	0.25
5000.00	0.93	174.51	4999.75	-4.05	-21.25	-4.05	21.63	259.22	0.32
5100.00	1.09	170.01	5099.74	-5.80	-21.01	-5.80	21.79	254.58	0.18
5200.00	0.98	181.55	5199.72	-7.59	-20.86	-7.59	22.20	250.01	0.24
5300.00	1.16	176.95	5299.70	-9.46	-20.83	-9.46	22.88	245.59	0.20
5400.00	1.16	183.73	5399.68	-11.48	-20.84	-11.48	23.80	241.16	0.14
5500.00	1.35	182.09	5499.66	-13.67	-20.95	-13.67	25.02	236.88	0.19
5600.00	1.38	178.13	5599.63	-16.05	-20.96	-16.05	26.40	232.55	0.10
5700.00	1.50	183.01	5699.60	-18.57	-20.99	-18.57	28.02	228.50	0.17

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	1.68	185.77	5799.56	-21.33	-21.20	-21.33	30.08	224.83	0.19
5900.00	1.74	178.76	5899.52	-24.30	-21.32	-24.30	32.32	221.26	0.22
6000.00	1.75	180.53	5999.47	-27.34	-21.30	-27.34	34.66	217.92	0.06
6100.00	1.94	186.40	6099.42	-30.55	-21.50	-30.55	37.36	215.14	0.27
6200.00	1.98	196.99	6199.36	-33.89	-22.20	-33.89	40.51	213.22	0.36
6388.00	1.62	223.91	6387.27	-38.92	-24.99	-38.92	46.25	212.71	0.48



VES Survey International
West Texas
(432) 563-5444
Surveyor: Bryan Massey
Graham Cracker 16 State No. 007H / API 30-015-42332



VES Survey Date: 06/08/2014

COG Operating, LLC.

Eddy County, N.M.

**Section 16-26S-28E Graham Cracker 16 State
Graham Cracker 16 State #7H**

Original Hole

Design: Original Hole

Survey Report - Geographic

23 June, 2014

Stryker Directional

Survey Report - Geographic

Company:	COG Operating, LLC.	Local Co-ordinate Reference:	Well Graham Cracker 16 State #7H
Project:	Eddy County, N.M.	TVD Reference:	3047.1 + 18 @ 3065.1usft (Silver Oak #7)
Site:	Section 16-26S-28E Graham Cracker 16 State	MD Reference:	3047.1 + 18 @ 3065.1usft (Silver Oak #7)
Well:	Graham Cracker 16 State #7H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Eddy County, N.M.		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Section 16-26S-28E Graham Cracker 16 State		
-------------	---	--	--

Site Position:		Northing:	381,702.30 usft	Latitude:	32° 2' 57.106 N
From:	Map	Easting:	572,917.00 usft	Longitude:	104° 5' 52.756 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.12 °

Well	Graham Cracker 16 State #7H				
-------------	-----------------------------	--	--	--	--

Well Position	+N/-S	0.0 usft	Northing:	381,710.00 usft	Latitude:	32° 2' 57.113 N
	+E/-W	0.0 usft	Easting:	576,059.50 usft	Longitude:	104° 5' 16.242 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,047.1 usft

Wellbore	Original Hole				
-----------------	---------------	--	--	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/20/2014	7.45	59.86	48,165

Design	Original Hole				
---------------	---------------	--	--	--	--

Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	183.19

Survey Program		Date 6/23/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	6,388.0	Ves Gyro Survey #1 (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot	
6,467.0	13,737.0	MWD Survey #2 (Original Hole)	MWD	MWD - Standard	

Survey									
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	381,710.00	576,059.50	32° 2' 57.113 N	104° 5' 16.242 W
100.0	0.81	214.32	100.0	-0.6	-0.4	381,709.41	576,059.10	32° 2' 57.107 N	104° 5' 16.247 W
200.0	1.09	208.83	200.0	-2.0	-1.3	381,708.00	576,058.25	32° 2' 57.093 N	104° 5' 16.257 W
300.0	0.86	220.25	300.0	-3.4	-2.2	381,706.59	576,057.30	32° 2' 57.079 N	104° 5' 16.268 W
400.0	0.71	241.45	400.0	-4.3	-3.2	381,705.72	576,056.27	32° 2' 57.071 N	104° 5' 16.280 W
500.0	0.48	256.50	500.0	-4.7	-4.2	381,705.33	576,055.32	32° 2' 57.067 N	104° 5' 16.291 W
600.0	0.60	262.85	599.9	-4.8	-5.1	381,705.17	576,054.40	32° 2' 57.065 N	104° 5' 16.302 W
700.0	0.69	262.70	699.9	-5.0	-6.2	381,705.02	576,053.28	32° 2' 57.064 N	104° 5' 16.315 W
800.0	0.52	264.00	799.9	-5.1	-7.3	381,704.90	576,052.23	32° 2' 57.063 N	104° 5' 16.327 W
900.0	0.42	268.68	899.9	-5.2	-8.1	381,704.84	576,051.41	32° 2' 57.062 N	104° 5' 16.336 W

Stryker Directional Survey Report - Geographic

Company:	COG Operating, LLC.	Local Co-ordinate Reference:	Well Graham Cracker 16 State #7H
Project:	Eddy County, N.M.	TVD Reference:	3047.1 + 18 @ 3065.1usft (Silver Oak #7)
Site:	Section 16-26S-28E Graham Cracker 16 State	MD Reference:	3047.1 + 18 @ 3065.1usft (Silver Oak #7)
Well:	Graham Cracker 16 State #7H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	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
1,000.0	0.22	231.33	999.9	-5.3	-8.6	381,704.72	576,050.90	32° 2' 57.061 N	104° 5' 16.342 W
1,100.0	0.35	251.09	1,099.9	-5.5	-9.0	381,704.50	576,050.46	32° 2' 57.059 N	104° 5' 16.347 W
1,200.0	0.28	269.69	1,199.9	-5.6	-9.6	381,704.40	576,049.92	32° 2' 57.058 N	104° 5' 16.354 W
1,300.0	0.20	287.40	1,299.9	-5.6	-10.0	381,704.45	576,049.51	32° 2' 57.058 N	104° 5' 16.358 W
1,400.0	0.19	308.73	1,399.9	-5.4	-10.3	381,704.60	576,049.22	32° 2' 57.060 N	104° 5' 16.362 W
1,500.0	0.11	326.38	1,499.9	-5.2	-10.5	381,704.79	576,049.04	32° 2' 57.062 N	104° 5' 16.364 W
1,600.0	0.21	314.42	1,599.9	-5.0	-10.7	381,705.00	576,048.85	32° 2' 57.064 N	104° 5' 16.366 W
1,700.0	0.38	296.73	1,699.9	-4.7	-11.1	381,705.27	576,048.42	32° 2' 57.066 N	104° 5' 16.371 W
1,800.0	0.28	287.84	1,799.9	-4.5	-11.6	381,705.50	576,047.90	32° 2' 57.069 N	104° 5' 16.377 W
1,900.0	0.11	356.36	1,899.9	-4.3	-11.8	381,705.67	576,047.66	32° 2' 57.070 N	104° 5' 16.380 W
2,000.0	0.27	86.32	1,999.9	-4.2	-11.6	381,705.78	576,047.89	32° 2' 57.071 N	104° 5' 16.377 W
2,100.0	0.27	141.96	2,099.9	-4.4	-11.2	381,705.61	576,048.27	32° 2' 57.070 N	104° 5' 16.373 W
2,200.0	0.33	121.14	2,199.9	-4.7	-10.8	381,705.27	576,048.66	32° 2' 57.066 N	104° 5' 16.368 W
2,300.0	0.76	119.38	2,299.9	-5.2	-10.0	381,704.80	576,049.48	32° 2' 57.062 N	104° 5' 16.359 W
2,400.0	0.83	105.76	2,399.9	-5.7	-8.7	381,704.28	576,050.76	32° 2' 57.056 N	104° 5' 16.344 W
2,500.0	0.55	95.62	2,499.9	-6.0	-7.6	381,704.03	576,051.93	32° 2' 57.054 N	104° 5' 16.330 W
2,600.0	0.50	81.57	2,599.9	-5.9	-6.7	381,704.05	576,052.84	32° 2' 57.054 N	104° 5' 16.320 W
2,700.0	0.46	77.52	2,699.9	-5.8	-5.8	381,704.20	576,053.66	32° 2' 57.056 N	104° 5' 16.310 W
2,800.0	0.54	58.14	2,799.9	-5.5	-5.0	381,704.54	576,054.46	32° 2' 57.059 N	104° 5' 16.301 W
2,900.0	0.20	35.79	2,899.9	-5.1	-4.5	381,704.93	576,054.96	32° 2' 57.063 N	104° 5' 16.295 W
3,000.0	0.53	296.75	2,999.9	-4.7	-4.9	381,705.28	576,054.65	32° 2' 57.066 N	104° 5' 16.299 W
3,100.0	0.71	278.34	3,099.9	-4.4	-5.9	381,705.57	576,053.62	32° 2' 57.069 N	104° 5' 16.311 W
3,200.0	0.90	277.82	3,199.9	-4.2	-7.3	381,705.77	576,052.23	32° 2' 57.071 N	104° 5' 16.327 W
3,300.0	0.93	266.14	3,299.9	-4.2	-8.9	381,705.82	576,050.64	32° 2' 57.072 N	104° 5' 16.345 W
3,400.0	0.77	273.06	3,399.8	-4.2	-10.3	381,705.80	576,049.16	32° 2' 57.072 N	104° 5' 16.362 W
3,500.0	0.85	271.48	3,499.8	-4.1	-11.8	381,705.86	576,047.75	32° 2' 57.072 N	104° 5' 16.379 W
3,600.0	0.82	283.99	3,599.8	-3.9	-13.2	381,706.05	576,046.31	32° 2' 57.074 N	104° 5' 16.396 W
3,700.0	0.76	276.54	3,699.8	-3.7	-14.5	381,706.30	576,044.96	32° 2' 57.077 N	104° 5' 16.411 W
3,800.0	0.62	290.30	3,799.8	-3.4	-15.7	381,706.56	576,043.79	32° 2' 57.079 N	104° 5' 16.425 W
3,900.0	0.74	297.58	3,899.8	-2.9	-16.8	381,707.05	576,042.72	32° 2' 57.084 N	104° 5' 16.437 W
4,000.0	0.75	295.00	3,999.8	-2.4	-18.0	381,707.63	576,041.55	32° 2' 57.090 N	104° 5' 16.451 W
4,100.0	0.61	314.25	4,099.8	-1.7	-18.9	381,708.27	576,040.58	32° 2' 57.096 N	104° 5' 16.462 W
4,200.0	0.36	300.53	4,199.8	-1.2	-19.6	381,708.81	576,039.92	32° 2' 57.102 N	104° 5' 16.470 W
4,300.0	0.34	318.46	4,299.8	-0.8	-20.0	381,709.19	576,039.46	32° 2' 57.105 N	104° 5' 16.475 W
4,400.0	0.26	336.87	4,399.8	-0.4	-20.3	381,709.62	576,039.17	32° 2' 57.110 N	104° 5' 16.478 W
4,500.0	0.25	273.36	4,499.8	-0.2	-20.6	381,709.84	576,038.86	32° 2' 57.112 N	104° 5' 16.482 W
4,600.0	0.38	246.84	4,599.8	-0.3	-21.2	381,709.72	576,038.34	32° 2' 57.111 N	104° 5' 16.488 W
4,700.0	0.32	217.07	4,699.8	-0.6	-21.6	381,709.37	576,037.87	32° 2' 57.107 N	104° 5' 16.494 W
4,800.0	0.73	177.87	4,799.8	-1.5	-21.8	381,708.51	576,037.72	32° 2' 57.099 N	104° 5' 16.495 W
4,900.0	0.71	158.30	4,899.8	-2.7	-21.5	381,707.30	576,037.98	32° 2' 57.087 N	104° 5' 16.492 W
5,000.0	0.93	174.51	4,999.8	-4.1	-21.2	381,705.91	576,038.28	32° 2' 57.073 N	104° 5' 16.489 W
5,100.0	1.09	170.01	5,099.7	-5.8	-21.0	381,704.17	576,038.52	32° 2' 57.056 N	104° 5' 16.486 W
5,200.0	0.98	181.55	5,199.7	-7.6	-20.8	381,702.38	576,038.67	32° 2' 57.038 N	104° 5' 16.485 W
5,300.0	1.16	176.95	5,299.7	-9.5	-20.8	381,700.51	576,038.70	32° 2' 57.020 N	104° 5' 16.484 W
5,400.0	1.16	183.73	5,399.7	-11.5	-20.8	381,698.49	576,038.69	32° 2' 57.000 N	104° 5' 16.484 W
5,500.0	1.35	182.09	5,499.7	-13.7	-20.9	381,696.30	576,038.58	32° 2' 56.978 N	104° 5' 16.486 W
5,600.0	1.38	178.13	5,599.6	-16.1	-20.9	381,693.92	576,038.57	32° 2' 56.954 N	104° 5' 16.486 W
5,700.0	1.50	183.01	5,699.6	-18.6	-21.0	381,691.41	576,038.54	32° 2' 56.929 N	104° 5' 16.486 W
5,800.0	1.68	185.77	5,799.6	-21.4	-21.2	381,688.65	576,038.33	32° 2' 56.902 N	104° 5' 16.489 W
5,900.0	1.74	178.76	5,899.5	-24.3	-21.3	381,685.67	576,038.21	32° 2' 56.873 N	104° 5' 16.490 W
6,000.0	1.75	180.53	5,999.5	-27.4	-21.3	381,682.63	576,038.23	32° 2' 56.843 N	104° 5' 16.490 W
6,100.0	1.94	186.40	6,099.4	-30.6	-21.5	381,679.42	576,038.03	32° 2' 56.811 N	104° 5' 16.493 W
6,200.0	1.98	196.99	6,199.4	-33.9	-22.2	381,676.08	576,037.34	32° 2' 56.778 N	104° 5' 16.501 W

Stryker Directional

Survey Report - Geographic

Company:	COG Operating, LLC.	Local Co-ordinate Reference:	Well Graham Cracker 16 State #7H
Project:	Eddy County, N.M.	TVD Reference:	3047.1 + 18 @ 3065.1usft (Silver Oak #7)
Site:	Section 16-26S-28E Graham Cracker 16 State	MD Reference:	3047.1 + 18 @ 3065.1usft (Silver Oak #7)
Well:	Graham Cracker 16 State #7H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	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
6,338.0	1.68	215.73	6,337.3	-37.8	-24.0	381,672.16	576,035.46	32° 2' 56.739 N	104° 5' 16.523 W
6338' MD VES Gyro									
6,388.0	1.62	223.91	6,387.3	-38.9	-25.0	381,671.06	576,034.54	32° 2' 56.728 N	104° 5' 16.533 W
6,467.0	1.80	246.60	6,466.2	-40.2	-26.9	381,669.76	576,032.63	32° 2' 56.715 N	104° 5' 16.556 W
6,558.0	2.20	248.50	6,557.2	-41.4	-29.8	381,668.56	576,029.69	32° 2' 56.703 N	104° 5' 16.590 W
6,653.0	1.90	246.90	6,652.1	-42.7	-33.0	381,667.27	576,026.55	32° 2' 56.691 N	104° 5' 16.626 W
6,747.0	2.00	258.60	6,746.1	-43.7	-36.0	381,666.33	576,023.51	32° 2' 56.682 N	104° 5' 16.662 W
6,842.0	1.80	261.10	6,841.0	-44.2	-39.1	381,665.78	576,020.41	32° 2' 56.676 N	104° 5' 16.698 W
6,936.0	1.40	268.90	6,935.0	-44.5	-41.7	381,665.53	576,017.80	32° 2' 56.674 N	104° 5' 16.728 W
7,030.0	1.10	271.40	7,029.0	-44.5	-43.8	381,665.53	576,015.75	32° 2' 56.674 N	104° 5' 16.752 W
7,125.0	0.80	258.10	7,123.9	-44.6	-45.3	381,665.41	576,014.19	32° 2' 56.673 N	104° 5' 16.770 W
7,220.0	1.10	246.10	7,218.9	-45.1	-46.8	381,664.91	576,012.71	32° 2' 56.668 N	104° 5' 16.787 W
7,315.0	0.70	246.90	7,313.9	-45.7	-48.2	381,664.31	576,011.34	32° 2' 56.662 N	104° 5' 16.803 W
7,410.0	1.20	260.90	7,408.9	-46.1	-49.7	381,663.92	576,009.82	32° 2' 56.658 N	104° 5' 16.821 W
7,506.0	0.90	304.70	7,504.9	-45.8	-51.3	381,664.19	576,008.21	32° 2' 56.661 N	104° 5' 16.839 W
7,599.0	1.10	289.00	7,597.9	-45.1	-52.7	381,664.90	576,006.77	32° 2' 56.668 N	104° 5' 16.856 W
7,694.0	1.50	282.40	7,692.8	-44.5	-54.8	381,665.46	576,004.69	32° 2' 56.673 N	104° 5' 16.880 W
7,789.0	0.90	266.50	7,787.8	-44.3	-56.8	381,665.68	576,002.73	32° 2' 56.676 N	104° 5' 16.903 W
7,884.0	1.60	286.70	7,882.8	-44.0	-58.8	381,666.02	576,000.72	32° 2' 56.679 N	104° 5' 16.926 W
7,978.0	1.50	293.30	7,976.8	-43.1	-61.2	381,666.88	575,998.33	32° 2' 56.688 N	104° 5' 16.954 W
8,073.0	1.70	284.80	8,071.7	-42.3	-63.7	381,667.74	575,995.82	32° 2' 56.696 N	104° 5' 16.983 W
8,168.0	2.20	303.40	8,166.7	-40.9	-66.6	381,669.10	575,992.94	32° 2' 56.710 N	104° 5' 17.017 W
8,261.0	1.80	305.80	8,259.6	-39.1	-69.2	381,670.94	575,990.27	32° 2' 56.728 N	104° 5' 17.048 W
8,356.0	2.50	294.60	8,354.6	-37.3	-72.3	381,672.67	575,987.17	32° 2' 56.745 N	104° 5' 17.084 W
8,449.0	1.50	303.50	8,447.5	-35.8	-75.2	381,674.19	575,984.31	32° 2' 56.760 N	104° 5' 17.117 W
8,544.0	1.10	275.40	8,542.5	-35.0	-77.1	381,674.96	575,982.37	32° 2' 56.768 N	104° 5' 17.139 W
8,576.0	1.00	284.60	8,574.5	-34.9	-77.7	381,675.06	575,981.79	32° 2' 56.769 N	104° 5' 17.146 W
8,608.0	1.10	290.20	8,606.5	-34.8	-78.3	381,675.24	575,981.23	32° 2' 56.771 N	104° 5' 17.153 W
8,640.0	2.10	201.40	8,638.5	-35.2	-78.8	381,674.80	575,980.73	32° 2' 56.766 N	104° 5' 17.158 W
8,671.0	6.20	199.30	8,669.4	-37.3	-79.5	381,672.69	575,979.97	32° 2' 56.745 N	104° 5' 17.167 W
8,701.0	10.10	183.50	8,699.1	-41.5	-80.2	381,668.53	575,979.27	32° 2' 56.704 N	104° 5' 17.176 W
8,733.0	14.50	182.80	8,730.3	-48.3	-80.6	381,661.72	575,978.91	32° 2' 56.637 N	104° 5' 17.180 W
8,764.0	16.90	179.80	8,760.2	-56.7	-80.8	381,653.34	575,978.73	32° 2' 56.554 N	104° 5' 17.182 W
8,796.0	21.00	183.30	8,790.4	-67.0	-81.1	381,642.96	575,978.42	32° 2' 56.451 N	104° 5' 17.186 W
8,828.0	24.60	183.80	8,819.9	-79.4	-81.9	381,630.59	575,977.65	32° 2' 56.329 N	104° 5' 17.195 W
8,860.0	28.00	188.50	8,848.6	-93.5	-83.4	381,616.51	575,976.09	32° 2' 56.190 N	104° 5' 17.214 W
8,891.0	30.90	192.70	8,875.6	-108.5	-86.2	381,601.54	575,973.27	32° 2' 56.041 N	104° 5' 17.247 W
8,923.0	33.00	195.40	8,902.7	-124.9	-90.4	381,585.12	575,969.15	32° 2' 55.879 N	104° 5' 17.295 W
8,954.0	34.20	198.80	8,928.6	-141.3	-95.4	381,568.73	575,964.10	32° 2' 55.717 N	104° 5' 17.354 W
8,986.0	36.00	201.00	8,954.8	-158.6	-101.7	381,551.44	575,957.83	32° 2' 55.546 N	104° 5' 17.428 W
9,017.0	37.70	201.70	8,979.6	-175.9	-108.4	381,534.12	575,951.06	32° 2' 55.375 N	104° 5' 17.507 W
9,048.0	40.00	201.40	9,003.7	-194.0	-115.6	381,516.04	575,943.92	32° 2' 55.196 N	104° 5' 17.590 W
9,080.0	42.70	199.90	9,027.7	-213.7	-123.0	381,496.25	575,936.47	32° 2' 55.000 N	104° 5' 17.677 W
9,111.0	45.50	199.40	9,050.0	-234.1	-130.3	381,475.94	575,929.22	32° 2' 54.799 N	104° 5' 17.762 W
9,143.0	48.20	200.10	9,071.9	-256.0	-138.2	381,453.97	575,921.33	32° 2' 54.582 N	104° 5' 17.854 W
9,175.0	50.20	198.20	9,092.8	-278.9	-146.1	381,431.09	575,913.39	32° 2' 54.356 N	104° 5' 17.947 W
9,206.0	53.20	195.70	9,112.0	-302.2	-153.2	381,407.82	575,906.31	32° 2' 54.126 N	104° 5' 18.030 W
9,238.0	57.10	194.30	9,130.3	-327.5	-160.0	381,382.46	575,899.52	32° 2' 53.875 N	104° 5' 18.110 W
9,270.0	61.40	193.40	9,146.6	-354.2	-166.6	381,355.76	575,892.94	32° 2' 53.611 N	104° 5' 18.187 W
9,301.0	65.70	192.20	9,160.4	-381.3	-172.7	381,328.70	575,886.80	32° 2' 53.343 N	104° 5' 18.259 W
9,333.0	70.10	192.20	9,172.5	-410.3	-179.0	381,299.73	575,880.53	32° 2' 53.057 N	104° 5' 18.332 W
9,364.0	74.40	192.60	9,181.9	-439.1	-185.3	381,270.90	575,874.20	32° 2' 52.772 N	104° 5' 18.407 W
9,396.0	78.50	192.90	9,189.4	-469.4	-192.2	381,240.56	575,867.33	32° 2' 52.471 N	104° 5' 18.487 W
9,428.0	83.00	193.00	9,194.6	-500.2	-199.2	381,209.79	575,860.25	32° 2' 52.167 N	104° 5' 18.571 W

Stryker Directional Survey Report - Geographic

Company:	COG Operating, LLC.	Local Co-ordinate Reference:	Well Graham Cracker 16 State #7H
Project:	Eddy County, N.M.	TVD Reference:	3047.1 + 18 @ 3065.1usft (Silver Oak #7)
Site:	Section 16-26S-28E Graham Cracker 16 State	MD Reference:	3047.1 + 18 @ 3065.1usft (Silver Oak #7)
Well:	Graham Cracker 16 State #7H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	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
9,470.0	88.90	192.30	9,197.5	-541.1	-208.4	381,168.93	575,851.08	32° 2' 51.763 N	104° 5' 18.678 W
9,533.0	90.30	192.70	9,198.0	-602.6	-222.1	381,107.43	575,837.45	32° 2' 51.155 N	104° 5' 18.838 W
9,628.0	91.00	194.60	9,196.9	-694.9	-244.5	381,015.12	575,815.03	32° 2' 50.242 N	104° 5' 19.101 W
9,724.0	91.30	193.40	9,195.0	-788.0	-267.7	380,921.99	575,791.81	32° 2' 49.320 N	104° 5' 19.373 W
9,818.0	93.60	190.00	9,190.9	-879.9	-286.7	380,830.05	575,772.77	32° 2' 48.411 N	104° 5' 19.597 W
9,913.0	92.80	185.90	9,185.6	-973.9	-299.8	380,736.13	575,759.66	32° 2' 47.482 N	104° 5' 19.752 W
10,007.0	89.10	182.00	9,184.1	-1,067.6	-306.3	380,642.40	575,753.19	32° 2' 46.554 N	104° 5' 19.829 W
10,102.0	90.20	179.40	9,184.7	-1,162.6	-307.5	380,547.42	575,752.03	32° 2' 45.614 N	104° 5' 19.845 W
10,196.0	89.80	179.80	9,184.7	-1,256.6	-306.8	380,453.42	575,752.68	32° 2' 44.684 N	104° 5' 19.840 W
10,291.0	90.20	177.20	9,184.7	-1,351.5	-304.3	380,358.46	575,755.17	32° 2' 43.744 N	104° 5' 19.814 W
10,386.0	90.60	177.40	9,184.0	-1,446.4	-299.9	380,263.57	575,759.64	32° 2' 42.805 N	104° 5' 19.764 W
10,480.0	90.60	177.10	9,183.0	-1,540.3	-295.3	380,169.69	575,764.15	32° 2' 41.876 N	104° 5' 19.714 W
10,575.0	90.20	178.40	9,182.3	-1,635.2	-291.6	380,074.76	575,767.88	32° 2' 40.936 N	104° 5' 19.674 W
10,669.0	89.90	178.40	9,182.3	-1,729.2	-289.0	379,980.80	575,770.51	32° 2' 40.006 N	104° 5' 19.646 W
10,764.0	88.60	179.10	9,183.5	-1,824.2	-286.9	379,885.83	575,772.58	32° 2' 39.066 N	104° 5' 19.624 W
10,858.0	89.10	179.00	9,185.4	-1,918.1	-285.4	379,791.87	575,774.14	32° 2' 38.136 N	104° 5' 19.608 W
10,951.0	90.90	179.80	9,185.4	-2,011.1	-284.4	379,698.88	575,775.11	32° 2' 37.216 N	104° 5' 19.600 W
11,046.0	91.30	180.00	9,183.6	-2,106.1	-284.2	379,603.89	575,775.28	32° 2' 36.276 N	104° 5' 19.600 W
11,141.0	90.50	180.80	9,182.1	-2,201.1	-284.9	379,508.91	575,774.61	32° 2' 35.336 N	104° 5' 19.610 W
11,235.0	90.40	179.20	9,181.3	-2,295.1	-284.9	379,414.92	575,774.61	32° 2' 34.406 N	104° 5' 19.613 W
11,330.0	90.70	180.00	9,180.4	-2,390.1	-284.2	379,319.92	575,775.28	32° 2' 33.466 N	104° 5' 19.608 W
11,425.0	88.80	181.40	9,180.8	-2,485.1	-285.4	379,224.94	575,774.12	32° 2' 32.526 N	104° 5' 19.624 W
11,520.0	88.80	180.60	9,182.8	-2,580.0	-287.0	379,129.97	575,772.46	32° 2' 31.586 N	104° 5' 19.645 W
11,614.0	89.40	181.30	9,184.3	-2,674.0	-288.6	379,036.00	575,770.90	32° 2' 30.656 N	104° 5' 19.666 W
11,707.0	90.40	181.20	9,184.5	-2,767.0	-290.6	378,943.02	575,768.87	32° 2' 29.736 N	104° 5' 19.692 W
11,801.0	90.20	180.40	9,184.0	-2,861.0	-291.9	378,849.03	575,767.56	32° 2' 28.806 N	104° 5' 19.710 W
11,896.0	90.50	181.40	9,183.4	-2,955.9	-293.4	378,754.05	575,766.07	32° 2' 27.866 N	104° 5' 19.729 W
11,990.0	90.80	181.80	9,182.3	-3,049.9	-296.1	378,660.09	575,763.44	32° 2' 26.936 N	104° 5' 19.762 W
12,085.0	91.00	181.50	9,180.8	-3,144.9	-298.8	378,565.14	575,760.71	32° 2' 25.996 N	104° 5' 19.797 W
12,180.0	88.70	178.80	9,181.1	-3,239.8	-299.0	378,470.16	575,760.46	32° 2' 25.056 N	104° 5' 19.802 W
12,274.0	90.50	181.80	9,181.7	-3,333.8	-299.5	378,376.18	575,759.97	32° 2' 24.126 N	104° 5' 19.810 W
12,369.0	90.20	180.40	9,181.2	-3,428.8	-301.4	378,281.20	575,758.14	32° 2' 23.186 N	104° 5' 19.834 W
12,394.0	90.20	181.80	9,181.1	-3,453.8	-301.8	378,256.20	575,757.66	32° 2' 22.939 N	104° 5' 19.840 W
12,489.0	89.70	180.60	9,181.2	-3,548.8	-303.8	378,161.23	575,755.67	32° 2' 21.999 N	104° 5' 19.866 W
12,583.0	89.10	178.10	9,182.1	-3,642.8	-302.8	378,067.25	575,756.74	32° 2' 21.069 N	104° 5' 19.856 W
12,677.0	88.60	177.50	9,184.0	-3,736.7	-299.2	377,973.34	575,760.35	32° 2' 20.139 N	104° 5' 19.816 W
12,771.0	90.80	179.10	9,184.5	-3,830.6	-296.4	377,879.39	575,763.14	32° 2' 19.210 N	104° 5' 19.787 W
12,866.0	89.30	177.90	9,184.4	-3,925.6	-293.9	377,784.42	575,765.62	32° 2' 18.270 N	104° 5' 19.760 W
12,961.0	89.80	177.60	9,185.2	-4,020.5	-290.2	377,689.50	575,769.35	32° 2' 17.330 N	104° 5' 19.719 W
13,056.0	91.10	178.10	9,184.4	-4,115.4	-286.6	377,594.57	575,772.92	32° 2' 16.391 N	104° 5' 19.680 W
13,151.0	90.30	177.00	9,183.3	-4,210.3	-282.5	377,499.67	575,776.98	32° 2' 15.451 N	104° 5' 19.636 W
13,246.0	90.50	178.30	9,182.6	-4,305.2	-278.6	377,404.75	575,780.87	32° 2' 14.512 N	104° 5' 19.593 W
13,340.0	92.30	177.70	9,180.3	-4,399.2	-275.4	377,310.84	575,784.15	32° 2' 13.583 N	104° 5' 19.557 W
13,434.0	91.40	179.30	9,177.3	-4,493.1	-272.9	377,216.93	575,786.61	32° 2' 12.653 N	104° 5' 19.531 W
13,529.0	87.60	178.40	9,178.1	-4,588.0	-271.0	377,121.97	575,788.52	32° 2' 11.713 N	104° 5' 19.512 W
13,624.0	88.30	179.00	9,181.5	-4,682.9	-268.8	377,027.05	575,790.67	32° 2' 10.774 N	104° 5' 19.489 W
13,688.0	87.50	178.10	9,183.9	-4,746.9	-267.2	376,963.12	575,792.29	32° 2' 10.141 N	104° 5' 19.472 W
13,737.0	88.00	178.10	9,185.8	-4,795.8	-265.6	376,914.18	575,793.91	32° 2' 9.657 N	104° 5' 19.454 W
13737' MD Projected to Bit									

Stryker Directional Survey Report - Geographic

Company:	COG Operating, LLC.	Local Co-ordinate Reference:	Well Graham Cracker 16 State #7H
Project:	Eddy County, N.M.	TVD Reference:	3047.1 + 18 @ 3065.1usft (Silver Oak #7)
Site:	Section 16-26S-28E Graham Cracker 16 State	MD Reference:	3047.1 + 18 @ 3065.1usft (Silver Oak #7)
Well:	Graham Cracker 16 State #7H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,338.0	6,337.3	-37.8	-24.0	6338' MD VES Gyro
13,737.0	9,185.8	-4,795.8	-265.6	13737' MD Projected to Bit