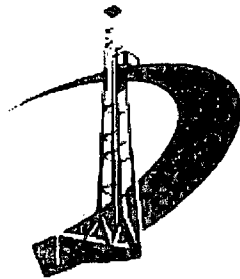


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JUL 29 2013

NMOCD ARTESIA

30-015-37584



PRO DIRECTIONAL

P.O. Box 750, Conroe, TX 77305 Phone: 936-441-7266

Concho COG Operating LLC

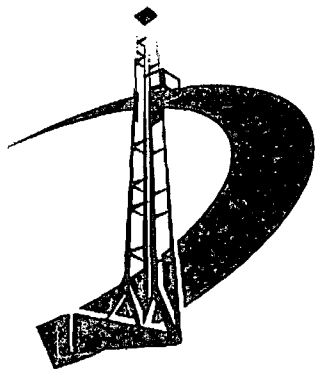
GJ West Coop Unit No. 303
Eddy County, NM

March 14, 2013

Job Number LNM 5102513

Survey Completion Report

(COPY)



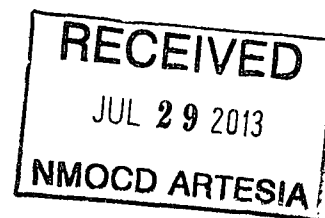
PRO DIRECTIONAL

P.O. Box 750, Conroe, TX 77305 Phone: 936-441-7266 Fax: 936-441-7268

March 14, 2013

Concho COG Operating LLC

GJ West Coop Unit No. 303
Eddy County, NM



This is to certify surveys from 1,017' MD to a depth of 5,000' MD are true and correct MWD surveys. These surveys were taken from 02/12/2013 through 02/17/2013.

Sincerely,

John Jordan

Well Planning



Concho COG Operating LLC

Eddy County, New Mexico

GJ West Coop Unit

No. 303

OH

Survey: ProDirectional

Survey Completion Report

14 March, 2013





Completion Report



Company:	Concho COG Operating LLC	Local Co-ordinate Reference:	Well GJ West Coop Unit #303 SL 990FNL 1105FW
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3551+15 @ 3566.00usft (Original Well Elev)
Site:	GJ West Coop Sect22-17S-29E	MD Reference:	RKB=3551+15 @ 3566.00usft (Original Well Elev)
Well:	GJ West Coop Unit #303 SL 990FNL 1105FWL	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Single User Db

Project:	Eddy County, New Mexico		
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:	GJ West Coop Sect22-17S-29E			
Site Position:	Northing:	663,500.90 usft	Latitude:	32° 49' 25.580891 N
From:	Easting:	581,137.80 usft	Longitude:	104° 4' 9.140782 W
Position Uncertainty:	Slot Radius:	13-3/16 "	Grid Convergence:	0.14 °

Well:	GJ West Coop Unit #303 SL 990FNL 1105FWL					
Well Position	+N/-S	0.00 usft	Northing:	663,500.90 usft	Latitude:	32° 49' 25.580891 N
	+E/-W	0.00 usft	Easting:	581,137.80 usft	Longitude:	104° 4' 9.140782 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,551.00 usft

Wellbore:	Original Hole				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	2/18/2013	(°) 7.66	(°) 60.61	(nT) 48,753

Design:	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	350.500	



Completion Report



Company: Concho COG Operating LLC
 Project: Eddy County, New Mexico
 Site: GJ West Coop Sect22-17S-29E
 Well: GJ West Coop Unit #303 SL 990FNL 1105FWL
 Wellbore: Original Hole
 Design: Surveys

Local Co-ordinate Reference: Well GJ West Coop Unit #303 SL 990FNL 1105FW
 TVD Reference: RKB=3551+15 @ 3566.00usft (Original Well Elev)
 MD Reference: RKB=3551+15 @ 3566.00usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000:1 Single User Db

Survey Program: Date 2/18/2013

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	834.00	Gyro (Original Hole)	NS-GYRO-MS	North sensing gyrocompassing m/s
1,017.00	5,000.00	MWD (Original Hole)	MWD	MWD - Standard

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	663,500.90	581,137.80
100.00	0.58	52.600	100.00	0.24	0.31	0.40	0.51	52.600	663,501.21	581,138.20
Gyro										
200.00	1.14	57.880	199.99	0.86	1.14	1.65	2.00	55.217	663,502.04	581,139.45
300.00	1.32	63.830	299.96	1.57	2.18	3.52	4.14	58.243	663,503.08	581,141.32
400.00	1.77	76.270	399.93	2.01	3.06	6.06	6.78	63.233	663,503.96	581,143.86
500.00	2.06	76.930	499.87	2.24	3.83	9.31	10.06	67.643	663,504.73	581,147.11
600.00	2.17	72.870	599.80	2.60	4.79	12.87	13.73	69.574	663,505.69	581,150.67
700.00	2.32	78.670	699.73	2.92	5.75	16.66	17.63	70.968	663,506.65	581,154.46
800.00	1.94	79.150	799.66	3.02	6.46	20.31	21.31	72.345	663,507.36	581,158.11
834.00	1.82	76.030	833.64	3.08	6.70	21.40	22.42	72.608	663,507.60	581,159.20
1,017.00	1.60	83.300	1,016.56	3.18	7.70	26.76	27.84	73.940	663,508.60	581,164.56
Professional Directional Ltd MWD surveys										
1,113.00	1.20	84.700	1,112.53	3.04	7.95	29.09	30.15	74.711	663,508.85	581,166.89
1,208.00	1.70	355.500	1,207.51	4.37	9.45	29.97	31.42	72.501	663,510.35	581,167.77
1,304.00	3.70	331.600	1,303.40	8.72	13.59	28.38	31.47	64.409	663,514.49	581,166.18
1,400.00	4.20	329.500	1,399.17	14.93	19.35	25.12	31.71	52.403	663,520.25	581,162.92
1,495.00	4.30	328.900	1,493.91	21.49	25.39	21.52	33.29	40.279	663,526.29	581,159.32
1,591.00	4.20	328.300	1,589.65	28.10	31.47	17.81	36.16	29.514	663,532.37	581,155.61
1,686.00	4.00	336.100	1,684.40	34.53	37.46	14.64	40.22	21.352	663,538.36	581,152.44
1,782.00	3.70	341.600	1,780.19	40.83	43.46	12.31	45.17	15.814	663,544.36	581,150.11
1,877.00	3.50	343.600	1,875.00	46.74	49.15	10.52	50.26	12.084	663,550.05	581,148.32



Completion Report



Company: Concho COG Operating LLC
 Project: Eddy County, New Mexico
 Site: GJ West Coop Sect22-17S-29E
 Well: GJ West Coop Unit #303 SL 990FNL 1105FWL
 Wellbore: Original Hole
 Design: Surveys

Local Co-ordinate Reference: Well GJ West Coop Unit #303 SL 990FNL 1105FW
 TVD Reference: RKB=3551+15 @ 3566.00usft (Original Well Elev)
 MD Reference: RKB=3551+15 @ 3566.00usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
1,973.00	3.30	337.100	1,970.83	52.33	54.50	8.62	55.18	8.987	663,555.40	581,146.42
2,068.00	3.00	333.300	2,065.69	57.37	59.24	6.44	59.59	6.203	663,560.14	581,144.24
2,164.00	3.80	344.000	2,161.52	62.93	64.55	4.43	64.70	3.929	663,565.45	581,142.23
2,260.00	4.00	339.100	2,257.30	69.37	70.73	2.36	70.77	1.912	663,571.63	581,140.16
2,356.00	3.80	334.100	2,353.07	75.71	76.72	-0.22	76.72	359.834	663,577.62	581,137.58
2,451.00	3.70	332.000	2,447.87	81.63	82.26	-3.04	82.31	357.886	663,583.16	581,134.76
2,547.00	4.30	345.200	2,543.64	88.15	88.47	-5.41	88.64	356.501	663,589.37	581,132.39
2,642.00	4.70	344.400	2,638.35	95.57	95.67	-7.37	95.95	355.597	663,596.57	581,130.43
2,738.00	4.50	345.500	2,734.04	103.23	103.10	-9.37	103.52	354.809	663,604.00	581,128.43
2,833.00	4.70	343.400	2,828.73	110.81	110.44	-11.41	111.03	354.100	663,611.34	581,126.39
2,929.00	4.60	341.400	2,924.41	118.51	117.86	-13.76	118.66	353.339	663,618.76	581,124.04
3,024.00	4.40	344.100	3,019.12	125.89	124.97	-15.98	125.99	352.714	663,625.87	581,121.82
3,120.00	4.40	348.800	3,114.84	133.23	132.12	-17.70	133.31	352.369	663,633.02	581,120.10
3,215.00	4.70	347.000	3,209.54	140.76	139.49	-19.28	140.82	352.129	663,640.39	581,118.52
3,311.00	4.80	347.000	3,305.21	148.70	147.24	-21.07	148.74	351.855	663,648.14	581,116.73
3,406.00	3.80	341.000	3,399.94	155.77	154.09	-22.99	155.79	351.513	663,654.99	581,114.81
3,502.00	3.80	343.300	3,495.73	162.06	160.14	-24.94	162.07	351.147	663,661.04	581,112.86
3,574.00	4.20	351.500	3,567.56	167.07	165.04	-26.02	167.07	351.041	663,665.94	581,111.78
3,661.00	4.30	356.000	3,654.32	173.50	171.44	-26.72	173.51	351.143	663,672.34	581,111.08
3,757.00	4.00	356.700	3,750.06	180.41	178.37	-27.16	180.43	351.343	663,679.27	581,110.64
3,852.00	4.30	356.100	3,844.82	187.25	185.23	-27.59	187.28	351.528	663,686.13	581,110.21
3,948.00	4.20	355.900	3,940.55	194.33	192.33	-28.09	194.37	351.691	663,693.23	581,109.71
4,044.00	4.50	357.200	4,036.27	201.57	199.60	-28.52	201.63	351.867	663,700.50	581,109.28
4,139.00	5.00	352.100	4,130.95	209.41	207.42	-29.27	209.48	351.967	663,708.32	581,108.53
4,235.00	5.00	352.500	4,226.58	217.77	215.71	-30.40	217.84	351.979	663,716.61	581,107.40
4,330.00	4.80	351.400	4,321.24	225.88	223.75	-31.53	225.96	351.979	663,724.65	581,106.27
4,426.00	5.10	344.400	4,416.88	234.14	231.83	-33.28	234.21	351.831	663,732.73	581,104.52



Completion Report



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MD (usft)	Inc (")	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
4,522.00	5.00	342.900	4,512.51	242.53	239.94	-35.66	242.57	351.547	663,740.84	581,102.14
4,618.00	5.10	344.700	4,608.13	250.92	248.05	-38.01	250.95	351.288	663,748.95	581,099.79
4,713.00	5.10	342.600	4,702.76	259.31	256.15	-40.39	259.32	351.040	663,757.05	581,097.41
4,809.00	5.00	341.900	4,798.38	267.67	264.20	-42.96	267.67	350.763	663,765.10	581,094.84
4,905.00	5.00	340.000	4,894.02	275.92	272.11	-45.70	275.92	350.467	663,773.01	581,092.10
4,943.00	4.90	339.800	4,931.88	279.14	275.19	-46.82	279.14	350.344	663,776.09	581,090.98
5,000.00	4.90	339.800	4,988.67	283.93	279.76	-48.50	283.93	350.164	663,780.66	581,089.30

Survey projected

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
100.00	100.00	0.31	0.40	Gyro
1,017.00	1,016.56	7.70	26.76	Professional Directional Ltd MWD surveys
5,000.00	4,988.67	279.76	-48.50	Survey projected



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

February 20, 2013

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

RE: GJ West Coop Unit #303
1255' FNL & 475' FWL
Sec. 22, T17S, R29E
Eddy County, New Mexico

Dear Sir,

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

Very truly yours,

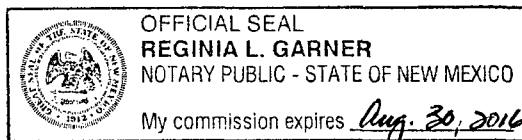
A handwritten signature in cursive script that reads "Chris Graham".

Chris Graham
Drilling Superintendent

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 20th day of February, 2013.

A handwritten signature in cursive script that reads "Regina L. Garner".

Notary Public

GJ West Coop Unit #303

Date	Depth	Dev/Inc	Dir/AZ	TVD
2/10/2013	376	1.50		
2/11/2013	417	2.20		
2/11/2013	478	1.50		
2/11/2013	571	2.40		
2/11/2013	601	2.30		
2/11/2013	660	2.30		
2/12/2013	953	1.60	80.30	
2/12/2013	985	1.50	81.30	
2/12/2013	1016	1.60	83.30	
2/12/2013	1112	1.20	84.70	
2/12/2013	1207	1.70	355.50	
2/12/2013	1303	3.70	331.60	
2/13/2013	1494	4.30	328.90	1493.90
2/13/2013	1590	4.20	328.30	1589.6
2/13/2013	1686	4.00	336.10	1684.4
2/13/2013	1781	3.80	341.60	1780.1
2/13/2013	1877	3.50	343.60	1876
2/13/2013	1973	3.30	337.10	
2/13/2013	2068	3.00	333.30	
2/13/2013	2164	3.80	344.00	
2/13/2013	2260	4.00	339.10	
2/13/2013	2355	3.80	334.10	
2/13/2013	2450	3.70	332.00	
2/13/2013	2546	4.30	345.20	
2/14/2013	2641	4.70	344.40	
2/14/2013	2737	4.50	345.50	
2/14/2013	2833	4.70	343.40	2828.7
2/14/2013	2928	4.60	341.40	2924.4
2/14/2013	3024	4.40	344.10	
2/14/2013	3119	4.40	348.80	
2/14/2013	3215	4.70	347.00	
2/14/2013	3310	4.80	347.00	
2/14/2013	3502	3.80	343.30	
2/14/2013	3574	4.20	351.50	
2/15/2013	3660	4.30	356.00	
2/15/2013	3755	4.00	356.70	
2/15/2013	3851	4.30	356.10	
2/15/2013	3947	4.20	355.90	
2/15/2013	4042	4.50	357.20	
2/15/2013	4138	5.00	352.10	
2/16/2013	4234	5.00	352.50	4226.5
2/16/2013	4329	4.80	351.40	4321.2
2/16/2013	4425	5.10	344.40	
2/16/2013	4521	5.00	342.90	
2/16/2013	4616	5.10	344.70	
2/16/2013	4712	5.10	342.60	
2/16/2013	4807	5.00	341.90	
2/17/2013	4903	5.00	340.00	
2/17/2013	4942	4.90	339.80	