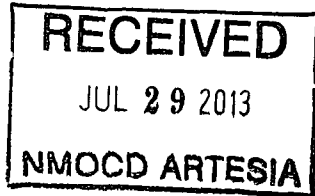




30-015-375 71

PRODIRECTIONAL

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



Concho COG Operating LLC

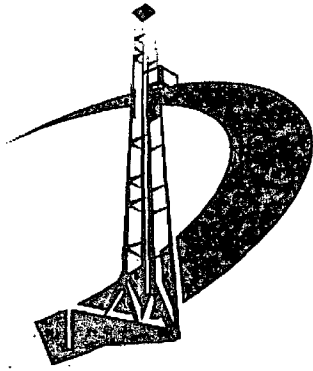
GJ West Coop Unit No. 263
Eddy County, NM

March 11, 2013

Job Number LNM 5102413

Survey Completion Report

(COPY)



PRODIRECTIONAL

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

March 11, 2013

Concho COG Operating LLC

GJ West Coop Unit No. 263
Eddy County, NM

This is to certify surveys from 987' MD to a depth of 4,198' MD are true and correct MWD surveys. These surveys were taken from 02/04/2013 through 02/06/2013.

Sincerely,

John Jordan

Well Planning



Concho COG Operating LLC

Eddy County, New Mexico

GJ West Coop Unit

No. 263

OH



Survey: ProDirectional

Survey Completion Report

11 March, 2013





Completion Report



Company: Concho COG Operating LLC
Project: Eddy County, New Mexico
Site: GJ West Coop Sect22-17S-29E
Well: GJ West Coop Unit #263 1065 FNL 1095 FWL
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well GJ West Coop Unit #263 1065 FNL 1095 FWL
TVD Reference: RKB=3547+17 @ 3564.00usft (Original Well Elev)
MD Reference: RKB=3547+17 @ 3564.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project: Eddy County, New Mexico

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site: GJ West Coop Sect22-17S-29E

Site Position:		Northing:	663,500.90 usft	Latitude:	32° 49' 25.580891 N
From:	Map	Easting:	581,137.80 usft	Longitude:	104° 4' 9.140782 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.14 °

Well: GJ West Coop Unit #263 1065 FNL 1095 FWL

Well Position	+N/-S	0.00 usft	Northing:	663,691.60 usft	Latitude:	32° 49' 27.452559 N
	+E/-W	0.00 usft	Easting:	581,757.00 usft	Longitude:	104° 4' 1.878777 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,547.00 usft

Wellbore: Original Hole

Magnetics:	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/10/2013	7.65	60.61	48,748

Design: Surveys Original Hole

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	306.400



Completion Report



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Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey Program		Date 3/10/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	817.00	Gyro (Original Hole)	NS-GYRO-MS	North sensing gyrocompassing m/s
987.00	4,198.00	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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	663,691.60	581,757.00
100.00	0.16	148.790	100.00	-0.13	-0.12	0.07	0.14	148.790	663,691.48	581,757.07
Gyro										
200.00	0.51	157.210	200.00	-0.64	-0.65	0.32	0.72	153.965	663,690.95	581,757.32
300.00	0.30	159.670	300.00	-1.24	-1.30	0.58	1.43	156.020	663,690.30	581,757.58
400.00	0.95	102.430	399.99	-2.22	-1.73	1.48	2.28	139.416	663,689.87	581,758.48
500.00	1.18	93.570	499.97	-3.84	-1.97	3.32	3.86	120.716	663,689.63	581,760.32
600.00	1.48	90.270	599.95	-5.75	-2.04	5.64	6.00	109.909	663,689.56	581,762.64
700.00	1.60	89.300	699.91	-7.91	-2.03	8.32	8.57	103.709	663,689.57	581,765.32
800.00	1.29	85.100	799.88	-9.86	-1.92	10.84	11.01	100.029	663,689.68	581,767.84
817.00	1.36	83.150	816.87	-10.16	-1.88	11.23	11.39	99.486	663,689.72	581,768.23
987.00	1.50	101.700	986.82	-13.65	-2.09	15.41	15.56	97.713	663,689.51	581,772.41
Professional Directional Ltd MWD surveys										
1,083.00	1.50	106.700	1,082.79	-15.97	-2.70	17.85	18.05	98.613	663,688.90	581,774.85
1,178.00	1.10	44.800	1,177.77	-17.27	-2.41	19.68	19.83	96.992	663,689.19	581,776.68
1,273.00	2.20	347.000	1,272.73	-16.02	0.01	19.91	19.91	89.971	663,691.61	581,776.91
1,369.00	3.30	330.300	1,368.62	-12.10	4.21	18.13	18.61	76.940	663,695.81	581,775.13
1,465.00	3.70	305.800	1,464.45	-6.47	8.42	14.25	16.55	59.427	663,700.02	581,771.25
1,560.00	3.50	300.500	1,559.26	-0.52	11.68	9.27	14.91	38.416	663,703.28	581,766.27
1,656.00	3.10	302.800	1,655.10	4.98	14.58	4.56	15.27	17.365	663,706.18	581,761.56
1,752.00	2.90	303.400	1,750.97	10.00	17.32	0.35	17.32	1.154	663,708.92	581,757.35
1,848.00	2.80	298.000	1,846.85	14.74	19.76	-3.75	20.11	349.256	663,711.36	581,753.25



Completion Report



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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)
1,943.00	4.10	302.800	1,941.68	20.43	22.69	-8.65	24.28	339.123	663,714.29	581,748.35
2,039.00	4.00	299.300	2,037.44	27.17	26.18	-14.46	29.91	331.095	663,717.78	581,742.54
2,134.00	3.70	295.800	2,132.22	33.48	29.14	-20.11	35.40	325.394	663,720.74	581,736.89
2,230.00	3.50	291.300	2,228.03	39.35	31.55	-25.63	40.65	320.918	663,723.15	581,731.37
2,325.00	3.10	290.400	2,322.88	44.62	33.50	-30.73	45.46	317.466	663,725.10	581,726.27
2,421.00	3.00	287.700	2,418.74	49.49	35.17	-35.56	50.01	314.683	663,726.77	581,721.44
2,516.00	3.00	288.100	2,513.61	54.21	36.70	-40.29	54.50	312.327	663,728.30	581,716.71
2,612.00	4.00	308.000	2,609.43	59.94	39.54	-45.32	60.14	311.104	663,731.14	581,711.68
2,708.00	2.90	311.900	2,705.26	65.70	43.22	-49.77	65.92	310.976	663,734.82	581,707.23
2,803.00	4.50	312.400	2,800.06	71.80	47.34	-54.31	72.04	311.080	663,738.94	581,702.69
2,899.00	4.40	310.200	2,895.77	79.22	52.26	-59.90	79.49	311.102	663,743.86	581,697.10
2,994.00	4.50	307.600	2,990.48	86.59	56.88	-65.64	86.86	310.914	663,748.48	581,691.36
3,090.00	4.50	305.400	3,086.18	94.12	61.36	-71.69	94.37	310.562	663,752.96	581,685.31
3,186.00	4.40	307.200	3,181.90	101.56	65.77	-77.69	101.79	310.250	663,757.37	581,679.31
3,281.00	4.50	305.000	3,276.61	108.93	70.11	-83.65	109.15	309.969	663,761.71	581,673.35
3,377.00	4.40	304.400	3,372.32	116.38	74.35	-89.77	116.56	309.633	663,765.95	581,667.23
3,472.00	4.00	293.700	3,467.07	123.25	77.74	-95.81	123.39	309.056	663,769.34	581,661.19
3,568.00	2.70	294.800	3,562.90	128.73	80.04	-100.93	128.81	308.414	663,771.64	581,656.07
3,664.00	2.80	295.900	3,658.79	133.26	82.01	-105.09	133.31	307.967	663,773.61	581,651.91
3,760.00	2.60	296.600	3,754.68	137.71	84.01	-109.15	137.74	307.585	663,775.61	581,647.85
3,855.00	1.80	293.800	3,849.61	141.29	85.58	-112.44	141.30	307.274	663,777.18	581,644.56
3,951.00	0.80	308.200	3,945.59	143.43	86.60	-114.35	143.44	307.138	663,778.20	581,642.65
4,046.00	0.80	136.700	4,040.58	143.44	86.53	-114.41	143.45	307.099	663,778.13	581,642.59
4,142.00	0.10	340.500	4,136.58	142.85	86.12	-113.98	142.86	307.072	663,777.72	581,643.02
4,198.00	0.10	340.500	4,192.58	142.93	86.21	-114.01	142.94	307.094	663,777.81	581,642.99

Survey Projected



Completion Report

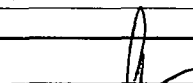
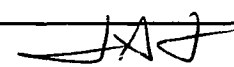


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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
100.00	100.00	-0.12	0.07	Gyro
987.00	986.82	-2.09	15.41	Professional Directional Ltd MWD surveys
4,198.00	4,192.58	86.21	-114.01	Survey Projected

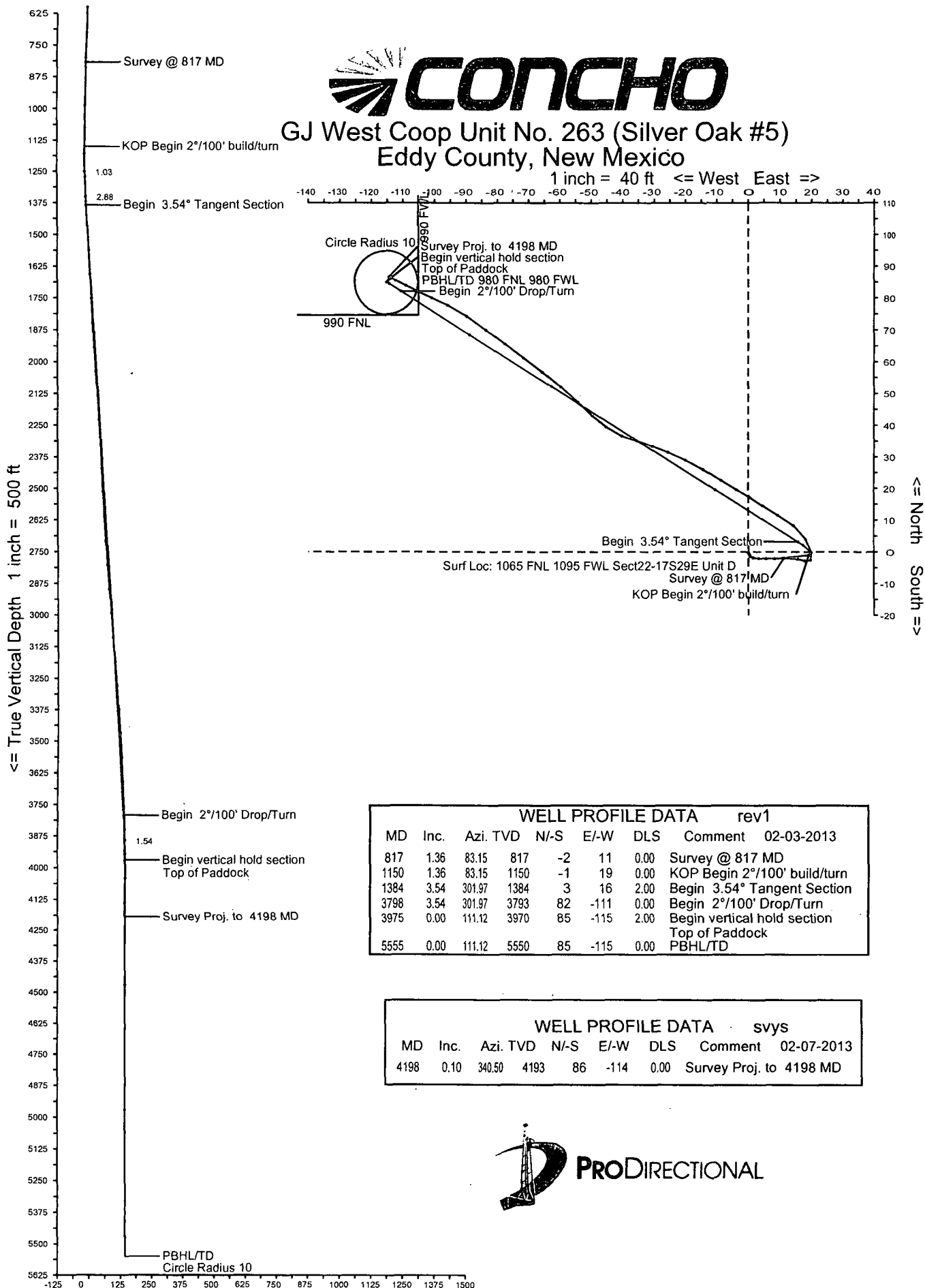
Checked By: Approved By: 

Date: 3-11-2013



GJ West Coop Unit No. 263 (Silver Oak #5)
Eddy County, New Mexico

1 inch = 40 ft <= West East =>



WELL PROFILE DATA rev1							
MD	Inc.	Azi.	TVD	N/-S	E/-W	DLS	Comment
817	1.36	83.15	817	-2	11	0.00	Survey @ 817 MD
1150	1.36	83.15	1150	-1	19	0.00	KOP Begin 2°/100' build/turn
1384	3.54	301.97	1384	3	16	2.00	Begin 3.54° Tangent Section
3798	3.54	301.97	3793	82	-111	0.00	Begin 2°/100' Drop/Turn
3975	0.00	111.12	3970	85	-115	2.00	Begin vertical hold section
5555	0.00	111.12	5550	85	-115	0.00	Top of Paddock PBHL/TD

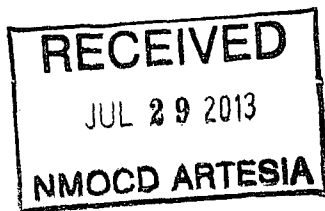
WELL PROFILE DATA svys							
MD	Inc.	Azi.	TVD	N/-S	E/-W	DLS	Comment
4198	0.10	340.50	4193	86	-114	0.00	Survey Proj. to 4198 MD



Vertical Section on 306.4 deg azimuth with reference 0.00 N, 0.00 E



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



February 11, 2013

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

RE: GJ West Coop Unit #263
990' FNL & 1105' FWL
Sec. 22, T17S, R29E
Eddy County, New Mexico

Dear Sir,

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

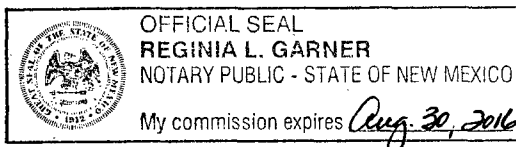
Very truly yours,

Chris Graham
Drilling Superintendent

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 11th day of February, 2013.

Notary Public



Burch Keely Unit #263

Date	Depth	Dev/Inc	Dir/AZ
2/3/2013	446	0.80	0.00
2/3/2013	691	1.60	0.00
2/4/2013	891	3.10	105.80
2/4/2013	923	1.50	93.30
2/4/2013	987	1.50	101.70
2/4/2013	1273	2.20	347.00
2/4/2013	1369	3.30	330.30
2/4/2013	1467	3.70	305.80
2/5/2013	1848	2.80	298.00
2/5/2013	1943	4.10	302.80
2/5/2013	2039	4.00	299.30
2/5/2013	2325	3.10	290.40
2/5/2013	2420	3.00	287.70
2/5/2013	2516	3.00	288.10
2/5/2013	2707	2.90	311.90
2/5/2013	2803	4.50	312.40
2/5/2013	2898	4.40	310.20
2/6/2013	3089	4.50	305.40
2/6/2013	3185	4.40	307.20
2/6/2013	3281	4.50	305.00
2/6/2013	3472	4.00	293.70
2/6/2013	3567	2.70	294.80
2/6/2013	3663	2.80	295.90
2/6/2013	3855	1.80	293.80
2/6/2013	3950	0.80	308.20
2/6/2013	4046	0.60	136.70
2/7/2013	4218	0.10	0.00
2/8/2013	4458	1.20	0.00
2/8/2013	4572	0.10	0.00
2/8/2013	4827	0.10	0.00
2/8/2013	4922	0.00	0.00