



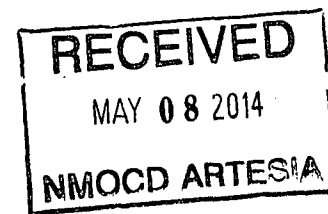
PHOENIX
TECHNOLOGY SERVICES

May 5, 2014

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

Dear District 2 - Artesia

Re: Concho Resources Inc.
Paint 32 Fee #2H
Eddy Co., NM
API #30-015-42004
Job No. 1410475



Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Cory Black	2H	2,287	7,339	04/13/2014	04/21/2014	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Dana Robinson

Dana Robinson
Operations Administrator

Certified mail receipt number: 7011 1570 0001 4365 1875

PHOENIX TECHNOLOGY SERVICES SURVEY DATA CERTIFICATION



PHOENIX
TECHNOLOGY SERVICES

PHOENIX JOB NUMBER 1410475

OPERATOR COG Operating LLC

WELL NAME Paint 32 Fee #2H

COUNTY & STATE

Eddy County, NM

API WELL NUMBER 30-015-42004

PROPOSED DIRECTION 89.47

TIE-IN DATA

MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
2,200 ft	2,199.69 ft	0.74	280.6	9.55	-32.066	VES GYRO

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
13-Apr-14	2,287 ft	0.7	287.1

SURVEY INSTRUMENT
TYPE

PHOENIX MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
21-Apr-14	7,339 ft	89.8	90

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
21-Apr-14	7,409 ft	89.8	90

Cory Black

PRINT YOUR NAME ABOVE

Cory Black

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.71
DECLINATION OR GRID	Grid

4/21/2014

TODAY'S DATE

MWD SUPERVISOR 1

Cory Black

DIRECTIONAL DRILLER 1

Stewart Guillory

MWD SUPERVISOR 2

Buck Johnson

DIRECTIONAL DRILLER 2

Wade Elliot

1805 Brittmore Road

Houston, Texas 77043

(713)3370609 (Voice), (713)337-0599 (Fax)

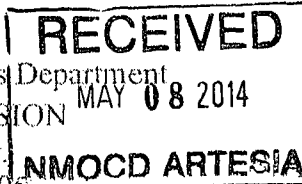
DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0730

DISTRICT II
311 S. Third St., Artesia, NM 88210
Phone: (505) 743-1283 Fax: (505) 743-0720

DISTRICT III
1506 Rio Pecos Road, Aztec, NM 87410
Phone: (505) 734-6178 Fax: (505) 734-6170

DISTRICT IV
1230 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505



Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

EXAMINED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name PAINT 32 FEE	Well Number 2H
GRID No.	Operator Name COG OPERATING, LLC	Elevation 3400'

Surface Location

UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	32	18-S	26-E		1670	SOUTH	190	WST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	32	18-S	26-E		1670	SOUTH	330	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No
-----------------	-----------------	--------------------	----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=618870.8 N X=475874.3 E CORNER COORDINATES TABLE A - Y=619876.5 N, X=475978.4 E B - Y=619898.9 N, X=480969.1 E C - Y=618565.9 N, X=480971.3 E D - Y=618538.3 N, X=475686.4 E BOTTOM HOLE LOCATION Y=618900.4 N X=480640.9 E		OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division Signature _____ Date _____ Printed Name _____ E-mail Address _____
SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of recent surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JULY 15, 2013 Date of Survey Signature of Registered Professional Surveyor <i>Ronald J. Edison</i> Certification Number: 3239 Date Rec'd: 07/18/2013 BRL		



COG Operating LLC

Eddy County, NM (NAD27 NME)

Paint 32 Fee

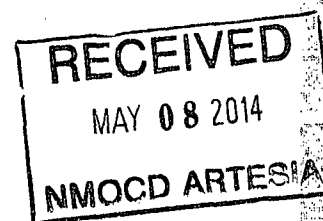
#2H

WB1/Job #1410475

Survey: Phoenix MWD Survey

Standard Survey Report

21 April, 2014



PHOENIX
TECHNOLOGY SERVICES



Phoenix Technology Services
Survey Report



Company: COG Operating LLC
Project: Eddy County, NM (NAD27 NME)
Site: Paint 32 Fee
Well: #2H
Wellbore: WB1/Job #1410475
Design: Surveys (Silver Oak 3)

Local Co-ordinate Reference: Well #2H
TVD Reference: KB @ 3418.00usft (Silver Oak 3)
MD Reference: KB @ 3418.00usft (Silver Oak 3)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

Project: Eddy County, NM (NAD27 NME)

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: Paint 32 Fee

Site Position: Northing: 618,870.80 usft Latitude: 32° 42' 4.85746 N
From: Map Easting: 475,874.30 usft Longitude: 104° 24' 42.34441 W
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: -0.04 °

Well: #2H

Well Position: +N/-S 0.00 usft Northing: 618,870.80 usft Latitude: 32° 42' 4.85746 N
+E/-W 0.00 usft Easting: 475,874.30 usft Longitude: 104° 24' 42.34441 W
Position Uncertainty: 0.00 usft Wellhead Elevation: usft Ground Level: 3,400.00 usft

Wellbore: WB1/Job #1410475

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	04/07/14	7.66	60.41	48,530

Design: Surveys (Silver Oak 3)

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	89.47

Survey Program: Date 04/21/14

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	2,200.00	VES Gyro Surveys (WB1/Job #1410475)	CB-MAG-MS	Camera based mag multi shot
2,287.00	7,409.00	Phoenix MWD Survey (WB1/Job #141047)	MWD	MWD - Standard

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,200.00	0.74	280.60	2,199.69	9.55	-32.07	-31.98	0.00	0.00	0.00
Tie-on to VES Gyro									
2,287.00	0.70	278.10	2,286.69	9.72	-33.14	-33.05	0.05	-0.04	-2.87
First Phoenix MWD Survey									
2,318.00	0.90	280.70	2,317.68	9.80	-33.57	-33.47	0.66	0.65	8.39
2,349.00	0.60	89.50	2,348.68	9.84	-33.64	-33.55	4.82	-0.97	544.52
2,381.00	6.30	78.30	2,380.61	10.20	-31.76	-31.66	17.85	17.81	-35.00
2,412.00	12.20	77.10	2,411.19	11.28	-26.89	-26.79	19.04	19.03	-3.87
2,443.00	17.80	77.00	2,441.13	13.08	-19.08	-18.96	18.06	18.06	-0.32



Phoenix Technology Services

Survey Report



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Site: Paint 32 Fee
Well: #2H
Wellbore: WB1/Job #1410475
Design: Surveys (Silver Oak 3)

Local Co-ordinate Reference: Well #2H
TVD Reference: KB @ 3418.00usft (Silver Oak 3)
MD Reference: KB @ 3418.00usft (Silver Oak 3)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,473.00	22.00	81.40	2,469.33	14.95	-9.05	-8.91	14.85	14.00	14.67
2,505.00	25.40	84.70	2,498.63	16.48	3.72	3.87	11.40	10.63	10.31
2,536.00	28.80	86.70	2,526.22	17.52	17.80	17.96	11.35	10.97	6.45
2,568.00	32.20	86.90	2,553.79	18.43	34.01	34.18	10.63	10.63	0.63
2,599.00	35.60	86.60	2,579.52	19.41	51.27	51.45	10.98	10.97	-0.97
2,630.00	38.40	88.20	2,604.27	20.25	69.90	70.09	9.55	9.03	5.16
2,661.00	41.50	88.90	2,628.03	20.75	89.80	89.99	10.10	10.00	2.26
2,692.00	43.70	89.40	2,650.85	21.06	110.78	110.97	7.18	7.10	1.61
2,723.00	46.20	90.10	2,672.79	21.15	132.68	132.87	8.22	8.06	2.26
2,755.00	48.20	90.30	2,694.53	21.07	156.16	156.34	6.27	6.25	0.63
2,786.00	50.20	90.70	2,714.79	20.86	179.62	179.81	6.53	6.45	1.29
2,817.00	52.00	91.30	2,734.25	20.44	203.74	203.92	6.00	5.81	1.94
2,848.00	53.60	92.20	2,752.99	19.68	228.42	228.59	5.66	5.16	2.90
2,880.00	55.10	92.30	2,771.64	18.66	254.40	254.56	4.69	4.69	0.31
2,911.00	56.80	92.30	2,789.00	17.63	280.07	280.22	5.48	5.48	0.00
2,942.00	58.80	91.80	2,805.52	16.69	306.28	306.42	6.59	6.45	-1.61
2,973.00	60.50	90.70	2,821.18	16.11	333.02	333.16	6.28	5.48	-3.55
3,004.00	62.50	89.20	2,835.97	16.14	360.26	360.40	7.73	6.45	-4.84
3,035.00	64.40	88.50	2,849.83	16.70	387.99	388.13	6.45	6.13	-2.26
3,066.00	66.10	88.40	2,862.81	17.46	416.13	416.27	5.49	5.48	-0.32
3,097.00	68.10	88.50	2,874.87	18.23	444.67	444.82	6.46	6.45	0.32
3,128.00	70.90	88.40	2,885.73	19.02	473.70	473.85	9.04	9.03	-0.32
3,160.00	74.20	88.20	2,895.32	19.92	504.21	504.37	10.33	10.31	-0.63
3,191.00	77.90	88.10	2,902.79	20.89	534.27	534.44	11.94	11.94	-0.32
3,222.00	80.10	88.50	2,908.71	21.80	564.69	564.86	7.21	7.10	1.29
3,253.00	82.60	88.10	2,913.37	22.71	595.32	595.50	8.16	8.06	-1.29
3,285.00	84.20	89.60	2,917.05	23.34	627.10	627.29	6.83	5.00	4.69
3,316.00	86.20	90.60	2,919.64	23.29	657.99	658.17	7.21	6.45	3.23
3,337.00	86.60	92.30	2,920.96	22.76	678.94	679.12	8.30	1.90	8.10
3,368.00	86.80	93.10	2,922.74	21.30	709.85	710.02	2.66	0.65	2.58
3,399.00	86.80	93.50	2,924.48	19.52	740.75	740.90	1.29	0.00	1.29
3,431.00	86.40	92.80	2,926.37	17.76	772.65	772.78	2.52	-1.25	-2.19
3,462.00	85.90	92.30	2,928.45	16.39	803.55	803.66	2.28	-1.61	-1.61
3,493.00	85.90	92.20	2,930.67	15.17	834.44	834.55	0.32	0.00	-0.32
3,524.00	86.00	92.30	2,932.86	13.96	865.34	865.43	0.46	0.32	0.32
3,555.00	85.40	90.50	2,935.18	13.20	896.24	896.33	6.11	-1.94	-5.81
3,586.00	85.00	89.70	2,937.78	13.15	927.14	927.22	2.88	-1.29	-2.58
3,617.00	84.50	88.80	2,940.62	13.55	958.00	958.09	3.31	-1.61	-2.90
3,648.00	84.50	88.40	2,943.59	14.31	988.85	988.94	1.28	0.00	-1.29
3,742.00	85.30	86.50	2,951.94	18.47	1,082.38	1,082.51	2.19	0.85	-2.02
3,836.00	86.00	85.30	2,959.07	25.18	1,175.87	1,176.05	1.47	0.74	-1.28
3,929.00	87.00	85.00	2,964.75	33.02	1,268.36	1,268.61	1.12	1.08	-0.32
4,023.00	88.30	84.30	2,968.61	41.78	1,361.87	1,362.20	1.57	1.38	-0.74



Phoenix Technology Services

Survey Report



Company: COG Operating LLC
Project: Eddy County, NM (NAD27 NME)
Site: Paint 32 Fee
Well: #2H
Wellbore: WB1/Job #1410475
Design: Surveys (Silver Oak 3)

Local Co-ordinate Reference: Well #2H
TVD Reference: KB @ 3418.00usft (Silver Oak 3)
MD Reference: KB @ 3418.00usft (Silver Oak 3)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,117.00	89.30	84.40	2,970.57	51.03	1,455.39	1,455.80	1.07	1.06	0.11
4,210.00	90.60	85.70	2,970.65	59.06	1,548.04	1,548.52	1.98	1.40	1.40
4,305.00	91.10	86.60	2,969.25	65.44	1,642.81	1,643.35	1.08	0.53	0.95
4,398.00	91.30	87.30	2,967.30	70.38	1,735.66	1,736.24	0.78	0.22	0.75
4,491.00	91.10	88.30	2,965.35	73.95	1,828.57	1,829.18	1.10	-0.22	1.08
4,585.00	91.60	89.10	2,963.14	76.08	1,922.52	1,923.14	1.00	0.53	0.85
4,678.00	91.50	89.50	2,960.62	77.22	2,015.48	2,016.11	0.44	-0.11	0.43
4,772.00	91.20	90.20	2,958.41	77.47	2,109.45	2,110.08	0.81	-0.32	0.74
4,866.00	91.90	90.80	2,955.86	76.65	2,203.41	2,204.03	0.98	0.74	0.64
4,959.00	90.00	90.80	2,954.32	75.35	2,296.39	2,296.99	2.04	-2.04	0.00
5,052.00	90.30	90.80	2,954.08	74.05	2,389.38	2,389.96	0.32	0.32	0.00
5,145.00	90.60	90.80	2,953.35	72.75	2,482.37	2,482.93	0.32	0.32	0.00
5,238.00	90.30	91.20	2,952.62	71.13	2,575.35	2,575.90	0.54	-0.32	0.43
5,331.00	89.40	91.30	2,952.86	69.10	2,668.32	2,668.85	0.97	-0.97	0.11
5,425.00	89.90	91.40	2,953.43	66.88	2,762.30	2,762.80	0.54	0.53	0.11
5,519.00	90.50	91.30	2,953.11	64.67	2,856.27	2,856.75	0.65	0.64	-0.11
5,613.00	90.60	91.20	2,952.20	62.62	2,950.24	2,950.70	0.15	0.11	-0.11
5,706.00	88.70	91.50	2,952.77	60.43	3,043.21	3,043.64	2.07	-2.04	0.32
5,799.00	89.00	91.40	2,954.64	58.08	3,136.16	3,136.57	0.34	0.32	-0.11
5,892.00	89.30	91.20	2,956.02	55.97	3,229.13	3,229.51	0.39	0.32	-0.22
5,986.00	89.70	90.80	2,956.84	54.33	3,323.11	3,323.47	0.60	0.43	-0.43
6,079.00	89.10	90.70	2,957.81	53.11	3,416.10	3,416.44	0.65	-0.65	-0.11
6,173.00	89.70	91.30	2,958.80	51.47	3,510.08	3,510.40	0.90	0.64	0.64
6,267.00	89.90	91.00	2,959.12	49.58	3,604.06	3,604.36	0.38	0.21	-0.32
6,360.00	89.20	91.70	2,959.86	47.39	3,697.03	3,697.31	1.06	-0.75	0.75
6,454.00	89.40	91.20	2,961.00	45.01	3,790.99	3,791.24	0.57	0.21	-0.53
6,547.00	89.40	90.60	2,961.98	43.55	3,883.97	3,884.21	0.65	0.00	-0.65
6,641.00	89.20	90.20	2,963.13	42.90	3,977.96	3,978.19	0.48	-0.21	-0.43
6,735.00	89.50	89.50	2,964.19	43.14	4,071.96	4,072.18	0.81	0.32	-0.74
6,828.00	89.60	88.80	2,964.92	44.52	4,164.94	4,165.17	0.76	0.11	-0.75
6,922.00	89.70	88.60	2,965.50	46.65	4,258.92	4,259.16	0.24	0.11	-0.21
7,016.00	89.00	88.80	2,966.56	48.79	4,352.88	4,353.15	0.77	-0.74	0.21
7,110.00	89.10	88.80	2,968.12	50.75	4,446.85	4,447.13	0.11	0.11	0.00
7,203.00	89.20	89.70	2,969.50	51.97	4,539.83	4,540.12	0.97	0.11	0.97
7,297.00	89.50	90.20	2,970.57	52.05	4,633.83	4,634.11	0.62	0.32	0.53
7,390.00	89.80	90.00	2,970.82	51.98	4,675.82	4,676.11	0.86	0.71	-0.48
Last Phoenix MWD Survey									
7,409.00	89.80	90.00	2,971.07	51.98	4,745.82	4,746.10	0.00	0.00	0.00
Project to TD									



Phoenix Technology Services
Survey Report



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Survey Calculation Method: Minimum Curvature
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Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
2,200.00	2,199.69	9.55	-32.07	Tie-on to VES Gyro
2,287.00	2,286.69	9.72	-33.14	First Phoenix MWD Survey
7,339.00	2,970.82	51.98	4,675.82	Last Phoenix MWD Survey
7,409.00	2,971.07	51.98	4,745.82	Projectio to TD

Checked By: _____ Approved By: _____ Date: _____