

EOG Resources

Eddy County, NM (Nad27)

Ross Gulch 8

Ross Gulch 8 #3

Wellbore #1

015-39736

Survey: Phoenix MWD Surveys

EOG Resources

02 March, 2012



Phoenix Technology Services

EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well: Ross Gulch 8 #3
Project:	Eddy County, NM (Nad27)	TVD Reference:	WELL @ 3307.10usft (Original Well Elev +30' KB)
Site:	Ross Gulch 8	MD Reference:	WELL @ 3307.10usft (Original Well Elev +30' KB)
Well:	Ross Gulch 8 #3	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

Project:	Eddy County, NM (Nad27)		
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:	Ross Gulch 8		
Site Position:		Northing:	384,745.70 usft
From:	Map	Easting:	665,037.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 23.9818 N
		Longitude:	103° 48' 2.2345 W
		Grid Convergence:	0.28 °

Well:	Ross Gulch 8 #3					
Well Position	+N/-S	0.00 usft	Northing:	384,745.70 usft	Latitude:	32° 3' 23.9818 N
	+E/-W	0.00 usft	Easting:	665,037.50 usft	Longitude:	103° 48' 2.2345 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,277.10 usft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	12/09/11	7.62	59.98	48,442

Design		Wellbore #1		
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	0.00

Survey Program	Date	03/02/12		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.00	9,306.00	Phoenix MWD Surveys (Wellbore #1)	MWD	MWD - Standard

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)	
0 00	0.00	0 00	-3,307.10	0.00	0.00	0.00	0 00	0.00	384,745.70	665,037.50	
100.00	0.41	209 30	-3,207.10	100.00	-0.31	-0.18	-0.31	0.41	384,745.39	665,037 32	
200.00	0 53	181.58	-3,107.10	200.00	-1.09	-0.36	-1 09	0.25	384,744.61	665,037 14	
300.00	0.46	173.49	-3,007.11	299 99	-1.95	-0.33	-1.95	0 10	384,743 75	665,037 17	
400.00	0 56	148.63	-2,907 11	399.99	-2.76	-0 03	-2.76	0 24	384,742.94	665,037.47	
500 00	0.65	152.19	-2,807.12	499 98	-3 68	0 49	-3.68	0.10	384,742.02	665,037.99	
600.00	0.86	157.25	-2,707 13	599.97	-4.88	1 04	-4 88	0.22	384,740.82	665,038 54	
700 00	0.76	154.10	-2,607.14	699.96	-6.17	1.62	-6.17	0.11	384,739.53	665,039 12	
800.00	0 64	132.78	-2,507.14	799.96	-7.14	2.32	-7 14	0 28	384,738.56	665,039 82	
900.00	0 62	131.70	-2,407.15	899.95	-7.88	3.14	-7 88	0 02	384,737 82	665,040 64	
1,000.00	0 75	136.81	-2,307.16	999.94	-8.72	3.99	-8.72	0 14	384,736.98	665,041.49	
1,050.00	0.77	139.74	-2,257.16	1,049.94	-9.21	4.43	-9 21	0.09	384,736 49	665,041.93	
Last Gyro Survey											
1,163 00	1.00	183.40	-2,144.17	1,162.93	-10.78	4 86	-10 78	0.61	384,734 92	665,042.36	
First Phoenix MWD Survey											
1,348 00	1.80	183.90	-1,959.23	1,347.87	-15 29	4 57	-15 29	0.43	384,730.41	665,042 07	
1,532 00	1.40	159.00	-1,775.30	1,531.80	-20 27	5 18	-20 27	0.43	384,725.43	665,042 68	
1,721 00	1.60	44 30	-1,586.33	1,720.77	-20 54	7 85	-20.54	1.34	384,725 16	665,045.35	
1,910 00	0 90	310.40	-1,397.37	1,909.73	-17 68	8.56	-17.68	1 00	384,728 02	665,046.06	
2,101 00	1.10	304.30	-1,206.39	2,100.71	-15.68	5 90	-15 68	0 12	384,730.02	665,043.40	
2,291 00	1.10	307 30	-1,016 43	2,290 67	-13.55	2 95	-13.55	0 03	384,732.15	665,040.45	
2,481.00	1 40	5 90	-826.47	2,480 63	-10.13	1.73	-10 13	0.66	384,735 57	665,039 23	
2,671.00	1 10	343.30	-636.51	2,670.59	-6 08	1.45	-6.08	0 30	384,739.62	665,038 95	
2,860.00	1 10	248 70	-447 53	2,859 57	-5 00	-0 76	-5.00	0 86	384,740.70	665,036 74	
3,050 00	0 50	131 20	-257.55	3,049.55	-6.21	-1 84	-6.21	0.74	384,739.49	665,035 66	
3,241 00	0 70	347.90	-66.55	3,240 55	-5 61	-1 46	-5.61	0.60	384,740.09	665,036.04	
3,431 00	0 50	352.80	123.44	3,430 54	-3.66	-1.80	-3.66	0.11	384,742 04	665,035 70	

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Site:	Ross Gulch 8	MD Reference:	WELL @ 3307.10usft (Original Well Elev +30' KB)
Well:	Ross Gulch 8 #3	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
3,620.00	1.40	138.10	312.42	3,619.52	-4.56	-0.36	-4.56	0.97	384,741.14	665,037.14	
3,811.00	0.40	332.20	503.41	3,810.51	-5.70	0.88	-5.70	0.94	384,740.00	665,038.38	
3,958.00	1.40	351.10	650.39	3,957.49	-3.48	0.37	-3.48	0.70	384,742.22	665,037.87	
4,027.00	1.90	352.80	719.36	4,026.46	-1.51	0.09	-1.51	0.73	384,744.19	665,037.59	
4,217.00	1.10	306.30	909.30	4,216.40	2.70	-1.77	2.70	0.73	384,748.40	665,035.73	
4,408.00	1.00	284.30	1,100.27	4,407.37	4.19	-4.86	4.19	0.22	384,749.89	665,032.64	
4,598.00	0.80	284.90	1,290.24	4,597.34	4.94	-7.75	4.94	0.11	384,750.64	665,029.75	
4,786.00	0.90	279.30	1,478.22	4,785.32	5.52	-10.48	5.52	0.07	384,751.22	665,027.02	
4,976.00	1.10	255.70	1,668.19	4,975.29	5.31	-13.72	5.31	0.24	384,751.01	665,023.78	
5,168.00	1.20	256.10	1,860.16	5,167.26	4.37	-17.46	4.37	0.05	384,750.07	665,020.04	
5,358.00	1.10	191.30	2,050.13	5,357.23	2.11	-19.74	2.11	0.65	384,747.81	665,017.76	
5,548.00	0.70	243.20	2,240.10	5,547.20	-0.21	-21.14	-0.21	0.46	384,745.49	665,016.36	
5,738.00	0.70	252.70	2,430.09	5,737.19	-1.07	-23.28	-1.07	0.06	384,744.63	665,014.22	
5,927.00	0.90	224.10	2,619.07	5,926.17	-2.48	-25.42	-2.48	0.23	384,743.22	665,012.08	
6,117.00	0.90	214.20	2,809.05	6,116.15	-4.79	-27.29	-4.79	0.08	384,740.91	665,010.21	
6,306.00	1.10	234.80	2,998.02	6,305.12	-7.06	-29.61	-7.06	0.22	384,738.64	665,007.89	
6,496.00	1.00	143.20	3,188.00	6,495.10	-9.44	-30.11	-9.44	0.79	384,736.26	665,007.39	
6,687.00	1.40	134.70	3,378.96	6,686.06	-12.42	-27.45	-12.42	0.23	384,733.28	665,010.05	
6,877.00	1.50	79.20	3,568.91	6,876.01	-13.58	-23.36	-13.58	0.71	384,732.12	665,014.14	
7,068.00	1.30	80.90	3,759.85	7,066.95	-12.77	-18.76	-12.77	0.11	384,732.93	665,018.74	
7,258.00	1.60	100.80	3,949.79	7,256.89	-12.93	-14.03	-12.93	0.31	384,732.77	665,023.47	
7,449.00	1.30	96.60	4,140.73	7,447.83	-13.68	-9.26	-13.68	0.17	384,732.02	665,028.24	
7,637.00	1.30	116.60	4,328.68	7,635.78	-14.88	-5.23	-14.88	0.24	384,730.82	665,032.27	
7,828.00	1.60	113.30	4,519.62	7,826.72	-16.90	-0.85	-16.90	0.16	384,728.80	665,036.65	
8,018.00	1.10	116.60	4,709.57	8,016.67	-18.77	3.22	-18.77	0.27	384,726.93	665,040.72	
8,208.00	0.70	131.70	4,899.54	8,206.64	-20.36	5.72	-20.36	0.24	384,725.34	665,043.22	
8,398.00	1.60	159.90	5,089.50	8,396.60	-23.62	7.50	-23.62	0.55	384,722.08	665,045.00	

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8,588.00	1.10	175.10	5,279.45	8,586.55	-27.93	8.56	-27.93	0.32	384,717.77	665,046.06	
8,780.00	1.10	231.20	5,471.42	8,778.52	-30.92	7.28	-30.92	0.54	384,714.78	665,044.78	
8,970.00	2.00	212.30	5,661.35	8,968.45	-34.87	4.09	-34.87	0.54	384,710.83	665,041.59	
9,160.00	1.70	223.50	5,851.25	9,158.35	-39.71	0.38	-39.71	0.25	384,705.99	665,037.88	
9,244.00	1.50	220.30	5,935.22	9,242.32	-41.45	-1.19	-41.45	0.26	384,704.25	665,036.31	
Last Phoenix MWD Survey											
9,306.00	1.50	220.30	5,997.20	9,304.30	-42.69	-2.24	-42.69	0.00	384,703.01	665,035.26	
Projection to TD											

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,050.00	1,049.94	-9.21	4.43	Last Gyro Survey
1,163.00	1,162.93	-10.78	4.86	First Phoenix MWD Survey
9,244.00	9,242.32	-41.45	-1.19	Last Phoenix MWD Survey
9,306.00	9,304.30	-42.69	-2.24	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-39736	Pool Code 96100	Pool Name SWD; Delaware
Property Code 38954	Property Name ROSS GULCH "8"	Well Number 3
OGRID No 7377	Operator Name EOG RESOURCES, INC.	Elevation 3261.5'

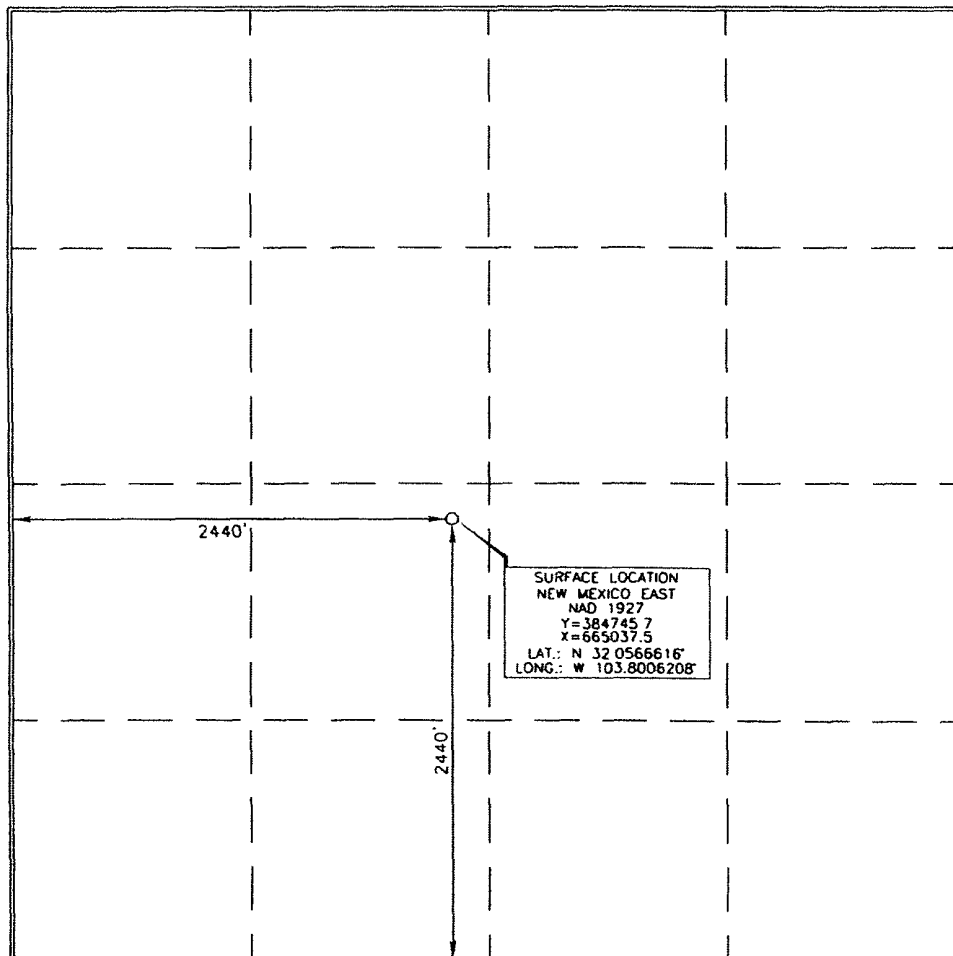
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	8	26 SOUTH	31 EAST, N.M.P.M.		2440'	SOUTH	2440'	WEST	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
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.



OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 11/30/11
Signature Date

Stan Wagner
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was located from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOVEMBER 2, 2011
Date of Survey

Signature and Seal of Professional Surveyor

Terry J. Abel 11/16/2011
Certificate Number 15079

WO# 111107WL (KA)