

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:	Grd
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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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)	
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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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:	Gnd
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)	
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			
		+N/-S (usft)	+E/-W (usft)	Comment	
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-402
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'

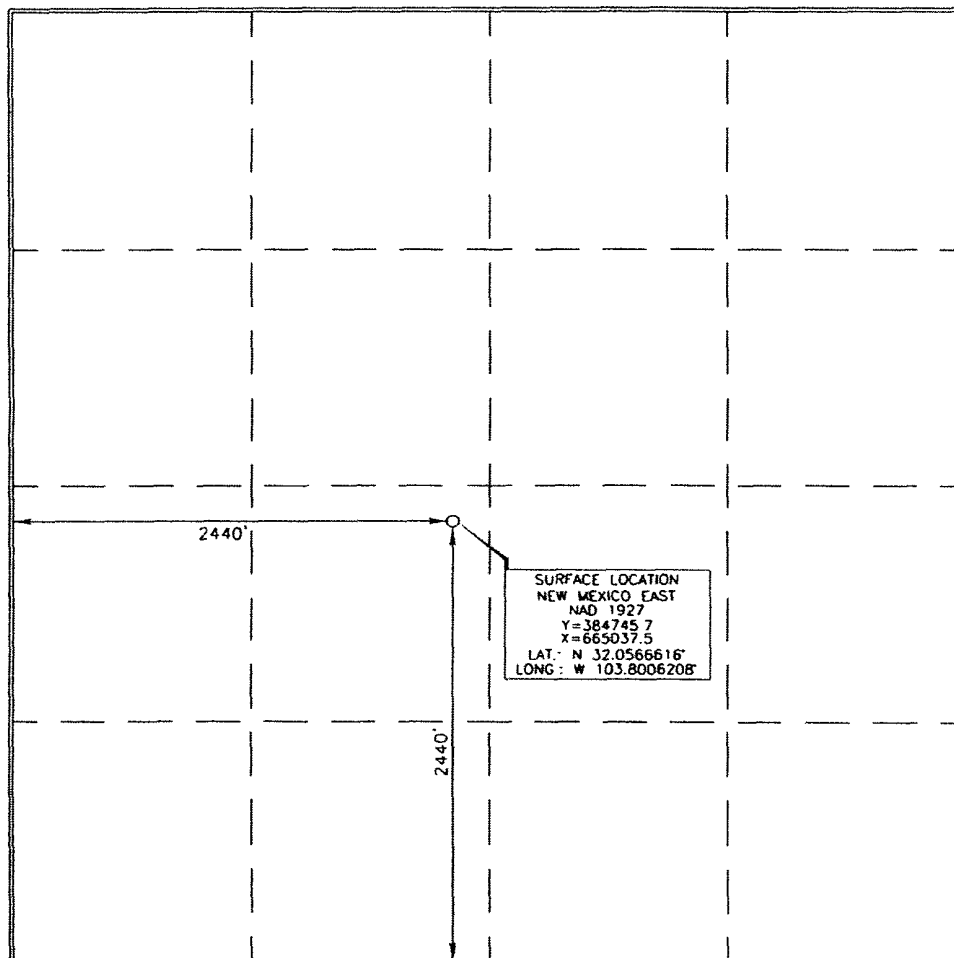
Surface Location

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 or actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOVEMBER 7, 2011
Date of Survey

Signature and Seal of Professional Surveyor

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

WO# 111107WL (KA)