



PHOENIX
TECHNOLOGY SERVICES

March 29, 2012

Oil Conservation Division
State of New Mexico
1625 N. French Drive
Hobbs, New Mexico 88240

HOBBS OCD

APR 02 2012

Dear District 1 - Hobbs

RECEIVED

Re: EOG Resources
Ross Gulch 8 Fed Com 1H
Eddy County, NM
API #30-015-39171
Job No. 1210198

Enclosed please find the Survey Data Certification one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. 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	
Brad Hill	1H	1,656	13,111	03/15/12	03/29/12	MWD

If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Gretchen Briggs
Operations Administrator

Certified mail receipt number: **7011 1570 0001 4364 9292**

**PHOENIX TECHNOLOGY SERVICES INC.
SURVEY DATA CERTIFICATION**



PHOENIX JOB NUMBER 1210198

OPERATOR EOG Resources

WELL NAME Ross Gulch 8 Fed Com 1H

COUNTY & STATE Eddy County, NM

API WELL NUMBER 30-015-39171

PROPOSED DIRECTION 170.9

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
1,545 ft	1,544.9 ft	1.25	318.54	-7.92	-5.78	MS Energy Services

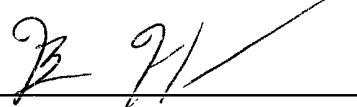
FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
15-Mar-12	1,656 ft	1.5	316.2

SURVEY INSTRUMENT
TYPE
Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
26-Mar-12	13,111 ft	89	180.6

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

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
26-Mar-12	13,170 ft	89	180.6


PRINT YOUR NAME ABOVE

Brad Hill
SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.34
DECLINATION OR GRID	Declination

3/26/2012
TODAY'S DATE

MWD SUPERVISOR 1 Bradley Hill

DIRECTIONAL DRILLER 1 Corey Owens

MWD SUPERVISOR 2 Aric Christman

DIRECTIONAL DRILLER 2 Casey Tubbe

1805 Brittmore Road

Houston, Texas 77043

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

EOG Resources

Eddy County, NM (Nad27)

Ross Gulch 8 Fed Com

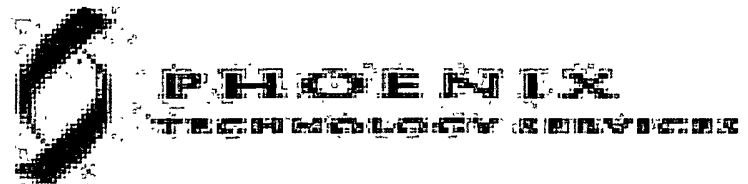
Ross Gulch 8 Fed 1H

Wellbore #1

Survey: Phoenix MWD Surveys

EOG Resources

27 March, 2012



Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Ross Gulch 8 Fed 1H
Project:	Eddy County, NM (Nad27)	TVD Reference:	WELL @ 3307.10usft (Original Well Elev +30' KB)
Site:	Ross Gulch 8 Fed Com	MD Reference:	WELL @ 3307.10usft (Original Well Elev +30' KB)
Well:	Ross Gulch 8 Fed 1H	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 Fed Com		
Site Position:		Northing:	387,297 40 usft
From:	Map	Easting:	664,129.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 49 2782 N
		Longitude:	103° 48' 12 6397 W
		Grid Convergence:	0 28 °

Well	Ross Gulch 8 Fed 1H		
Well Position	+N/-S	0 00 usft	Northing:
	+E/-W	0 00 usft	Easting:
Position Uncertainty		0 00 usft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			Dip Angle
			Field Strength
	IGRF2010_14	12/09/11	7.62
			59 99
			48,446

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0 00	0 00	0 00
			Direction
			(°)
			170 90

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

Survey Program	Date	03/27/12									
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description							
100 00	1,545 00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard							
1,656.00	13,170 00	Phoenix MWD Surveys (Wellbore #1)	MWD	MWD - Standard							

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)	
1,545.00	1 25	318.54	-1,762 20	1,544 90	-7 92	-5 78	6.91	0 00	387,289.48	664,123 72	
Last Gyro Survey											
1,656 00	1.50	316 20	-1,651 23	1,655 87	-5.96	-7 59	4.69	0 23	387,291.44	664,121 91	
First Phoenix MWD Survey											
1,845.00	3 20	69 20	-1,462 34	1,844 76	-2.30	-4 37	1.58	2 13	387,295 10	664,125 13	
2,035.00	8 50	84 60	-1,273 38	2,033 72	0 90	14 58	1.41	2 88	387,298 30	664,144 08	
2,226 00	9 00	82 70	-1,084 61	2,222 49	4 13	43.45	2 80	0 30	387,301.53	664,172 95	
2,416.00	7 20	95 50	-896 50	2,410.60	4 88	70 05	6 26	1 34	387,302 28	664,199 55	
2,605 00	7 30	93 00	-709 01	2,598.09	3 11	93 83	11.77	0 18	387,300.51	664,223.33	
2,795 00	6 70	89.10	-520 42	2,786 68	2 66	116.97	15.88	0.40	387,300 06	664,246 47	
2,987 00	7 10	84 90	-329.81	2,977 29	3 89	139.99	18.30	0 34	387,301 29	664,269 49	
3,178 00	7 70	87.60	-140 40	3,166 70	5 47	164 53	20.62	0 36	387,302.87	664,294.03	
3,367 00	6.80	98.60	47 09	3,354 19	4 33	188.25	25.50	0 87	387,301.73	664,317 75	
3,557.00	8 10	99.60	235 49	3,542.59	0 41	212.57	33.21	0 69	387,297.81	664,342 07	
3,748.00	8 40	95.70	424 51	3,731 61	-3 22	239 72	41 09	0 33	387,294 18	664,369 22	
3,925 00	6 60	85.80	600 00	3,907 10	-3 75	262 73	45.26	1 25	387,293.65	664,392 23	
4,029 00	6.20	86.20	703 35	4,010 45	-2 95	274 29	46 29	0 39	387,294 45	664,403 79	
4,219 00	6 70	89.40	892.15	4,199 25	-2 15	295 61	48.88	0 32	387,295 25	664,425 11	
4,410 00	6 50	94.20	1,081 88	4,388 98	-2.82	317 54	53.01	0 31	387,294 58	664,447.04	
4,601.00	6.10	92.50	1,271.73	4,578 83	-4 06	338 46	57 54	0 23	387,293 34	664,467 96	
4,791.00	6.90	94.20	1,460 50	4,767 60	-5 33	359 93	62.19	0 43	387,292 07	664,489.43	
4,981 00	6.50	90.60	1,649 21	4,956 31	-6 28	382 06	66 63	0 31	387,291.12	664,511.56	

Phoenix Technology Services
EOG Resources



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Site:	Ross Gulch 8 Fed Com	MD Reference:	WELL @ 3307.10usft (Original Well Elev +30' KB)
Well:	Ross Gulch 8 Fed 1H	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)	
5,173.00	6.80	84.20	1,839.92	5,147.02	-5.25	404.24	69.12	0.42	387,292.15	664,533.74	
5,363.00	6.90	85.80	2,028.56	5,335.66	-3.28	426.81	70.74	0.11	387,294.12	664,556.31	
5,553.00	6.80	86.60	2,217.21	5,524.31	-1.77	449.42	72.83	0.07	387,295.63	664,578.92	
5,743.00	6.20	89.30	2,405.98	5,713.08	-0.98	470.91	75.45	0.35	387,296.42	664,600.41	
5,933.00	6.80	90.40	2,594.76	5,901.86	-0.93	492.42	78.80	0.32	387,296.47	664,621.92	
6,122.00	6.60	92.00	2,782.47	6,089.57	-1.39	514.46	82.74	0.14	387,296.01	664,643.96	
6,312.00	5.90	95.00	2,971.34	6,278.44	-2.62	535.10	87.22	0.41	387,294.78	664,664.60	
6,502.00	6.50	86.30	3,160.23	6,467.33	-2.78	555.56	90.61	0.59	387,294.62	664,685.06	
6,691.00	6.00	92.00	3,348.11	6,655.21	-2.43	576.11	93.52	0.42	387,294.97	664,705.61	
6,882.00	6.90	87.80	3,537.90	6,845.00	-2.34	597.55	96.82	0.53	387,295.06	664,727.05	
7,070.00	6.60	89.40	3,724.60	7,031.70	-1.80	619.64	99.77	0.19	387,295.60	664,749.14	
7,260.00	6.10	91.50	3,913.43	7,220.53	-1.95	640.65	103.25	0.29	387,295.45	664,770.15	
7,451.00	5.50	93.40	4,103.45	7,410.55	-2.75	659.93	107.09	0.33	387,294.65	664,789.43	
7,641.00	6.00	89.00	4,292.50	7,599.60	-3.12	678.95	110.46	0.35	387,294.28	664,808.45	
7,831.00	5.40	87.80	4,481.56	7,788.66	-2.60	697.81	112.94	0.32	387,294.80	664,827.31	
8,021.00	3.90	91.40	4,670.93	7,978.03	-2.42	713.21	115.19	0.80	387,294.98	664,842.71	
8,211.00	2.30	96.50	4,860.64	8,167.74	-3.01	723.46	117.39	0.85	387,294.39	664,852.96	
8,292.00	2.70	142.90	4,941.57	8,248.67	-4.71	726.22	119.51	2.47	387,292.69	664,855.72	
8,324.00	6.60	165.50	4,973.46	8,280.56	-7.10	727.14	122.01	13.24	387,290.30	664,856.64	
8,356.00	10.90	170.20	5,005.09	8,312.19	-11.86	728.11	126.87	13.61	387,285.54	664,857.61	
8,388.00	14.80	172.80	5,036.28	8,343.38	-18.90	729.14	133.98	12.32	387,278.50	664,858.64	
8,420.00	19.10	173.40	5,066.88	8,373.98	-28.16	730.25	143.30	13.45	387,269.24	664,859.75	
8,451.00	23.20	173.50	5,095.79	8,402.89	-39.27	731.53	154.47	13.23	387,258.13	664,861.03	
8,483.00	26.90	174.80	5,124.77	8,431.87	-52.75	732.90	168.00	11.69	387,244.65	664,862.40	
8,514.00	31.00	175.70	5,151.89	8,458.99	-67.70	734.13	182.95	13.30	387,229.70	664,863.63	
8,546.00	34.60	180.10	5,178.79	8,485.89	-85.01	734.74	200.14	13.49	387,212.39	664,864.24	
8,577.00	37.50	181.60	5,203.85	8,510.95	-103.25	734.46	218.11	9.78	387,194.15	664,863.96	

Phoenix Technology Services
EOG Resources



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Well:	Ross Gulch 8 Fed 1H	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)	
8,609.00	40.50	182.10	5,228.72	8,535.82	-123.37	733.80	237.88	9.43	387,174.03	664,863.30	
8,641.00	44.30	182.00	5,252.34	8,559.44	-144.93	733.03	259.04	11.88	387,152.47	664,862.53	
8,673.00	47.20	181.70	5,274.67	8,581.77	-167.84	732.30	281.54	9.09	387,129.56	664,861.80	
8,704.00	50.50	181.20	5,295.07	8,602.17	-191.17	731.71	304.49	10.71	387,106.23	664,861.21	
8,736.00	54.50	180.90	5,314.54	8,621.64	-216.55	731.24	329.48	12.52	387,080.85	664,860.74	
8,767.00	57.50	180.60	5,331.88	8,638.98	-242.24	730.91	354.79	9.71	387,055.16	664,860.41	
8,799.00	60.00	180.60	5,348.48	8,655.58	-269.60	730.62	381.76	7.81	387,027.80	664,860.12	
8,831.00	63.00	180.70	5,363.74	8,670.84	-297.71	730.30	409.47	9.38	386,999.69	664,859.80	
8,863.00	66.40	180.80	5,377.42	8,684.52	-326.64	729.92	437.97	10.63	386,970.76	664,859.42	
8,895.00	68.90	180.40	5,389.58	8,696.68	-356.23	729.61	467.14	7.90	386,941.17	664,859.11	
8,927.00	71.10	180.60	5,400.53	8,707.63	-386.30	729.35	496.79	6.90	386,911.10	664,858.85	
8,958.00	73.10	180.60	5,410.06	8,717.16	-415.79	729.04	525.86	6.45	386,881.61	664,858.54	
8,990.00	75.40	180.50	5,418.74	8,725.84	-446.59	728.75	556.23	7.19	386,850.81	664,858.25	
9,022.00	78.20	180.70	5,426.05	8,733.15	-477.74	728.42	586.93	8.77	386,819.66	664,857.92	
9,056.00	83.80	181.50	5,431.36	8,738.46	-511.30	727.78	619.97	16.63	386,786.10	664,857.28	
9,088.00	86.70	181.20	5,434.01	8,741.11	-543.18	727.02	651.33	9.11	386,754.22	664,856.52	
9,120.00	88.50	181.80	5,435.35	8,742.45	-575.14	726.19	682.75	5.93	386,722.26	664,855.69	
9,184.00	91.60	181.50	5,435.30	8,742.40	-639.10	724.34	745.62	4.87	386,658.30	664,853.84	
9,279.00	92.60	180.70	5,431.82	8,738.92	-734.02	722.52	839.05	1.35	386,563.38	664,852.02	
9,374.00	92.70	180.00	5,427.42	8,734.52	-828.92	721.94	932.66	0.74	386,468.48	664,851.44	
9,469.00	91.60	178.70	5,423.86	8,730.96	-923.84	723.02	1,026.56	1.79	386,373.56	664,852.52	
9,565.00	92.60	178.20	5,420.34	8,727.44	-1,019.74	725.61	1,121.67	1.16	386,277.66	664,855.11	
9,659.00	89.80	178.30	5,418.37	8,725.47	-1,113.66	728.48	1,214.86	2.98	386,183.74	664,857.98	
9,753.00	89.90	179.40	5,418.62	8,725.72	-1,207.64	730.37	1,307.96	1.18	386,089.76	664,859.87	
9,848.00	90.60	179.10	5,418.21	8,725.31	-1,302.63	731.61	1,401.95	0.80	385,994.77	664,861.11	
9,942.00	89.70	179.80	5,417.96	8,725.06	-1,396.63	732.52	1,494.90	1.21	385,900.77	664,862.02	
10,036.00	90.40	178.90	5,417.88	8,724.98	-1,490.62	733.58	1,587.88	1.21	385,806.78	664,863.08	

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10,131 00	91 10	178 30	5,416 63	8,723 73	-1,585 58	735 90	1,682 02	0 97	385,711 82	664,865 40
10,226.00	90.40	180.00	5,415.39	8,722.49	-1,680 56	737.31	1,776 02	1 94	385,616 84	664,866 81
10,321 00	90 90	179 60	5,414 31	8,721.41	-1,775 55	737 64	1,869 87	0 67	385,521 85	664,867 14
10,416 00	90 30	179 70	5,413 32	8,720 42	-1,870 55	738 22	1,963 76	0 64	385,426 85	664,867 72
10,511 00	91 20	180 40	5,412 07	8,719.17	-1,965 54	738 14	2,057 54	1 20	385,331 86	664,867 64
10,605 00	90 00	180 00	5,411 09	8,718 19	-2,059 53	737 81	2,150 30	1 35	385,237 87	664,867 31
10,700 00	90 00	179 20	5,411.09	8,718.19	-2,154 52	738 48	2,244 20	0 84	385,142 88	664,867 98
10,794 00	90 40	180 10	5,410 76	8,717 86	-2,248 52	739 05	2,337 11	1 05	385,048 88	664,868 55
10,889 00	90 90	178 60	5,409 68	8,716.78	-2,343 51	740 13	2,431 07	1 66	384,953.89	664,869 63
10,985 00	92 10	180 70	5,407 17	8,714 27	-2,439.46	740 71	2,525 91	2.52	384,857 94	664,870 21
11,079 00	90 20	181 30	5,405 28	8,712 38	-2,533 43	739 07	2,618 43	2 12	384,763 97	664,868 57
11,174.00	90 00	180 20	5,405 12	8,712.22	-2,628 42	737 83	2,712 03	1 18	384,668 98	664,867.33
11,269 00	90 10	181.40	5,405 04	8,712 14	-2,723 41	736 50	2,805.61	1.27	384,573 99	664,866 00
11,363 00	90 70	181.20	5,404 38	8,711 48	-2,817 38	734.37	2,898.07	0 67	384,480 02	664,863 87
11,459.00	91 30	181 40	5,402 70	8,709.80	-2,913 34	732 19	2,992 47	0 66	384,384 06	664,861 69
11,554 00	89 90	179.90	5,401.71	8,708 81	-3,008.32	731 12	3,086 09	2 16	384,289 08	664,860 62
11,649.00	89 70	179 10	5,402 04	8,709 14	-3,103.32	731 95	3,180 02	0.87	384,194 08	664,861 45
11,744.00	88 70	176 90	5,403.37	8,710 47	-3,198.24	735 26	3,274 28	2 54	384,099 16	664,864 76
11,839 00	90 30	178 60	5,404.20	8,711 30	-3,293 16	738 99	3,368 59	2 46	384,004 24	664,868.49
11,934 00	90 80	177 50	5,403.28	8,710.38	-3,388.10	742 22	3,462 84	1 27	383,909 30	664,871 72
12,029 00	91 70	178 10	5,401.21	8,708 31	-3,483 00	745 87	3,557 13	1.14	383,814 40	664,875 37
12,124 00	90 20	178 60	5,399.64	8,706 74	-3,577 95	748 60	3,651 31	1 66	383,719 45	664,878 10
12,219 00	90 90	179 80	5,398 73	8,705 83	-3,672.93	749 93	3,745 31	1 46	383,624 47	664,879 43
12,315 00	92 30	180 50	5,396 04	8,703 14	-3,768 89	749 68	3,840 02	1 63	383,528 51	664,879 18
12,410 00	90.60	181 40	5,393 64	8,700 74	-3,863 84	748 10	3,933 53	2 02	383,433 56	664,877 60
12,505 00	91 30	180 60	5,392 07	8,699 17	-3,958.82	746 45	4,027.05	1 12	383,338 58	664,875 95
12,599 00	91 10	180 30	5,390 10	8,697 20	-4,052 79	745.71	4,119.72	0 38	383,244 61	664,875 21

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Ross Gulch 8 Fed 1H
Project:	Eddy County, NM (Nad27)	TVD Reference:	WELL @ 3307 10usft (Original Well Elev +30' KB)
Site:	Ross Gulch 8 Fed Com	MD Reference:	WELL @ 3307 10usft (Original Well Elev +30' KB)
Well:	Ross Gulch 8 Fed 1H	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)	
12,694 00	88 20	178 00	5,390.68	8,697 78	-4,147 76	747 12	4,213 72	3 90	383,149 64	664,876 62	
12,788 00	87 70	177 50	5,394 04	8,701 14	-4,241 63	750 80	4,306 99	0 75	383,055 77	664,880 30	
12,883 00	89 20	180 00	5,396.61	8,703 71	-4,336.56	752 88	4,401.05	3 07	382,960 84	664,882 38	
12,977 00	89 40	180.00	5,397 76	8,704 86	-4,430 56	752 88	4,493 86	0 21	382,866 84	664,882 38	
13,072 00	88 80	179 30	5,399 25	8,706.35	-4,525 54	753 46	4,587 75	0 97	382,771 86	664,882.96	
13,111 00	89 00	180 60	5,400 00	8,707 10	-4,564 53	753 49	4,626 25	3 37	382,732 87	664,882 99	
Last Phoenix MWD Survey											
13,170 00	89.00	180 60	5,401 03	8,708 13	-4,623.52	752 87	4,684.40	0 00	382,673 88	664,882 37	
Projection to TD											

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,545 00	1,544.90	-7 92	-5 78	Last Gyro Survey	
1,656 00	1,655 87	-5 96	-7.59	First Phoenix MWD Survey	
13,111 00	8,707 10	-4,564.53	753 49	Last Phoenix MWD Survey	
13,170 00	8,708.13	-4,623.52	752 87	Projection to TD	

Checked By: _____	Approved By: _____	Date: _____
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