



PHOENIX
TECHNOLOGY SERVICES

May 4, 2012

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

HOBBS OCD
MAY 21 2012
RECEIVED

Dear District 1 - Hobbs

Re: EOG Resources
Pitchblende 29 Fed Com 1H
Lea County, NM
API #30-025-40419
Job No. 1210199

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. 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	840	10,515	04/07/2012	04/17/2012	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,

Amy Castroman
Operations Administrator

Certified mail receipt number: 7011 1570 0001 4365 0076

APR 04 2013

HOBBS OCD

MAY 21 2012

Phoenix Technology Services SURVEY DATA CERTIFICATION

RECEIVED


PHOENIX
TECHNOLOGY SERVICES

PHOENIX JOB NUMBER

1210199

OPERATOR

EOG Resources

WELL NAME

Pintcblende 29 Fed Com 1H

COUNTY & STATE

Lea, NM

API WELL NUMBER

30-025-40419

PROPOSED DIRECTION

359.49

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
800 ft	799.93 ft	.8 ft	116.5 ft	-.54 ft	8.67 ft	MS Energy

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
7-Apr-12	840 ft	0.8	168.9

SURVEY INSTRUMENT

TYPE

Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
17-Apr-12	10,515 ft	2.6	63.5

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
17-Apr-12	10,577 ft	2.6	63.5

Brad Hill

PRINT YOUR NAME ABOVE

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	DECLINATION
6.99	

4/17/2012

TODAY'S DATE

MWD SUPERVISOR 1

Brad Hill

DIRECTIONAL DRILLER 1

Corey Owens

MWD SUPERVISOR 2

Matt Dice

DIRECTIONAL DRILLER 2

Casey Tubbe

1805 Brittmore Road

Houston, Texas 77043

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

EOG Resources

Lea County, NM (Nad27)

Pitchblende 29 Federal

Pinchblende 29 Fed Com 1H

Wellbore #1

HOBBS OCD

MAY 21 2012

RECEIVED

Survey: Phoenix MWD Surveys

EOG Resources Survey Report

15 April, 2012

EOG Resources Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well Pinchblende 29 Fed Com 1H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3351.20usft (Original Well Elev + 30' KB)
Site:	Pinchblende 29 Federal	MD Reference:	WELL @ 3351.20usft (Original Well Elev + 30' KB)
Well:	Pinchblende 29 Fed Com 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass5000

Project	Lea 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	Pinchblende 29 Federal		
Site Position:		Northing:	399,326.40 usft
From:	Map	Easting:	762,920.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 42.0680 N
		Longitude:	103° 29' 3.5737 W
		Grid Convergence:	0.45 °

Well	Pinchblende 29 Fed Com 1H		
Well Position	+N/-S	0.00 usft	Northing: 399,326.40 usft
	+E/-W	0.00 usft	Easting: 762,920.20 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 5' 42.0680 N
		Longitude:	103° 29' 3.5737 W
		Ground Level:	3,321.20 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010_14	03/28/12	7.44
			Dip Angle (°)
			60.06
			Field Strength (nT)
			48,470

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 (°)
			359.49

Survey Program	Date	04/15/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	9,445.00	Phoenix MWD Surveys (Wellbore #1)	MWD	MWD - Standard

EOG Resources Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well Pinchblende 29 Fed.Com 1H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3351.20usft (Original Well Elev + 30' KB)
Site:	Pinchblende 29 Federal	MD Reference:	WELL @ 3351.20usft (Original Well Elev + 30' KB)
Well:	Pinchblende 29 Fed.Com 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass5000

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	3,351.20	0.00	0.00	0.00	0.00	0.00	399,326.40	762,920.20	
100.00	0.25	216.05	3,251.20	100.00	-0.18	-0.13	-0.18	0.25	399,326.22	762,920.07	
200.00	0.75	101.40	3,151.20	200.00	-0.48	0.38	-0.49	0.88	399,325.92	762,920.58	
300.00	1.00	103.75	3,051.21	299.99	-0.82	1.87	-0.84	0.25	399,325.58	762,922.07	
400.00	0.75	109.09	2,951.23	399.97	-1.24	3.34	-1.27	0.26	399,325.16	762,923.54	
500.00	1.00	73.39	2,851.24	499.96	-1.20	4.79	-1.25	0.59	399,325.20	762,924.99	
600.00	0.75	60.85	2,751.25	599.95	-0.64	6.20	-0.69	0.31	399,325.76	762,926.40	
700.00	0.75	87.15	2,651.26	699.94	-0.29	7.43	-0.35	0.34	399,326.11	762,927.63	
800.00	0.75	116.50	2,551.27	799.93	-0.54	8.67	-0.62	0.38	399,325.86	762,928.87	
840.00	0.75	168.89	2,511.27	839.93	-0.92	8.95	-1.00	1.66	399,325.48	762,929.15	
918.00	0.30	110.60	2,433.27	917.93	-1.49	9.24	-1.57	0.83	399,324.91	762,929.44	
1,102.00	0.40	98.60	2,249.28	1,101.92	-1.76	10.33	-1.85	0.07	399,324.64	762,930.53	
1,287.00	0.80	89.30	2,064.29	1,286.91	-1.84	12.26	-1.95	0.22	399,324.56	762,932.46	
1,471.00	0.70	99.40	1,880.30	1,470.90	-2.01	14.65	-2.14	0.09	399,324.39	762,934.85	
1,659.00	0.90	165.50	1,692.32	1,658.88	-3.62	16.15	-3.77	0.47	399,322.78	762,936.35	
1,849.00	1.60	166.40	1,502.36	1,848.84	-7.65	17.15	-7.80	0.37	399,318.75	762,937.35	
2,039.00	0.60	137.20	1,312.40	2,038.80	-10.95	18.45	-11.12	0.59	399,315.45	762,938.65	
2,229.00	0.90	110.60	1,122.41	2,228.79	-12.21	20.52	-12.39	0.24	399,314.19	762,940.72	
2,419.00	0.80	120.50	932.44	2,418.76	-13.41	23.06	-13.61	0.09	399,312.99	762,943.26	
2,610.00	1.20	106.20	741.46	2,609.74	-14.64	26.13	-14.87	0.25	399,311.76	762,946.33	
2,799.00	1.50	54.10	552.51	2,798.69	-13.74	30.04	-14.01	0.64	399,312.66	762,950.24	
2,990.00	0.90	58.60	361.55	2,989.65	-11.50	33.34	-11.79	0.32	399,314.90	762,953.54	
3,180.00	1.50	39.40	171.60	3,179.60	-8.80	36.19	-9.12	0.38	399,317.60	762,956.39	
3,370.00	1.30	19.70	-18.35	3,369.55	-4.85	38.50	-5.19	0.27	399,321.55	762,958.70	
3,560.00	1.10	16.00	-208.31	3,559.51	-1.06	39.73	-1.42	0.11	399,325.34	762,959.93	
3,749.00	0.70	1.50	-397.28	3,748.48	1.83	40.26	1.48	0.24	399,328.23	762,960.46	
3,939.00	1.60	350.40	-587.24	3,938.44	5.61	39.85	5.26	0.49	399,332.01	762,960.05	

EOG Resources Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well Pinchblende 29 Fed Com 1H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3351.20usft (Original Well Elev + 30' KB)
Site:	Pinchblende 29 Federal	MD Reference:	WELL @ 3351.20usft (Original Well Elev + 30' KB)
Well:	Pinchblende 29 Fed Com 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass5000

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)	
4,128.00	0.70	56.60	-776.21	4,127.41	8.85	40.37	8.49	0.78	399,335.25	762,960.57	
4,319.00	0.70	321.10	-967.20	4,318.40	10.40	40.61	10.04	0.54	399,336.80	762,960.81	
4,509.00	1.50	306.90	-1,157.16	4,508.36	12.79	37.89	12.46	0.44	399,339.19	762,958.09	
4,698.00	1.60	88.70	-1,346.14	4,697.34	14.34	38.55	14.00	1.55	399,340.74	762,958.75	
4,887.00	1.80	113.70	-1,535.06	4,886.26	13.21	43.91	12.82	0.40	399,339.61	762,964.11	
5,077.00	1.00	117.90	-1,725.00	5,076.20	11.23	48.11	10.80	0.42	399,337.63	762,968.31	
5,115.00	0.70	132.50	-1,762.99	5,114.19	10.92	48.57	10.49	0.97	399,337.32	762,968.77	
5,265.00	0.50	125.40	-1,912.99	5,264.19	9.92	49.78	9.48	0.14	399,336.32	762,969.98	
5,455.00	1.00	246.50	-2,102.98	5,454.18	8.78	48.94	8.34	0.70	399,335.18	762,969.14	
5,645.00	1.00	238.30	-2,292.95	5,644.15	7.25	46.01	6.84	0.08	399,333.65	762,966.21	
5,836.00	1.10	210.50	-2,483.92	5,835.12	4.79	43.66	4.40	0.27	399,331.19	762,963.86	
6,026.00	0.90	234.70	-2,673.89	6,025.09	2.36	41.51	1.99	0.24	399,328.76	762,961.71	
6,213.00	1.30	215.80	-2,860.85	6,212.05	-0.21	39.07	-0.56	0.29	399,326.19	762,959.27	
6,403.00	1.30	213.20	-3,050.80	6,402.00	-3.76	36.63	-4.09	0.03	399,322.64	762,956.83	
6,594.00	1.50	207.20	-3,241.75	6,592.95	-7.80	34.30	-8.10	0.13	399,318.60	762,954.50	
6,784.00	1.10	232.60	-3,431.70	6,782.90	-11.12	31.72	-11.40	0.36	399,315.28	762,951.92	
6,975.00	0.80	250.10	-3,622.67	6,973.87	-12.69	29.01	-12.94	0.22	399,313.71	762,949.21	
7,165.00	0.70	246.80	-3,812.66	7,163.86	-13.59	26.69	-13.83	0.06	399,312.81	762,946.89	
7,355.00	1.10	225.50	-4,002.63	7,353.83	-15.33	24.33	-15.55	0.27	399,311.07	762,944.53	
7,545.00	1.40	208.20	-4,192.59	7,543.79	-18.65	21.93	-18.85	0.25	399,307.75	762,942.13	
7,735.00	1.30	277.70	-4,382.55	7,733.75	-20.41	18.70	-20.58	0.81	399,305.99	762,938.90	
7,924.00	1.10	274.30	-4,571.51	7,922.71	-19.99	14.76	-20.12	0.11	399,306.41	762,934.96	
8,113.00	0.60	238.00	-4,760.49	8,111.69	-20.38	12.11	-20.48	0.38	399,306.02	762,932.31	
8,303.00	0.60	168.60	-4,950.48	8,301.68	-21.88	11.47	-21.98	0.36	399,304.52	762,931.67	
8,491.00	0.50	132.60	-5,138.47	8,489.67	-23.40	12.27	-23.51	0.19	399,303.00	762,932.47	
8,682.00	0.40	164.30	-5,329.46	8,680.66	-24.60	13.06	-24.72	0.14	399,301.80	762,933.26	
8,873.00	0.90	159.10	-5,520.45	8,871.65	-26.65	13.77	-26.77	0.26	399,299.75	762,933.97	

EOG Resources Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well Pinchblende 29 Fed Com 1H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3351'20usft (Original Well Elev. + 30' KB)
Site:	Pinchblende 29 Federal	MD Reference:	WELL @ 3351'20usft (Original Well Elev. + 30' KB)
Well:	Pinchblende 29 Fed Com 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass5000

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)
9,064.00	0.40	174.20	-5,711.44	9,062.64	-28.71	14.38	-28.84	0.27	399,297.69	762,934.58
9,255.00	0.60	192.50	-5,902.43	9,253.63	-30.35	14.23	-30.48	0.13	399,296.05	762,934.43
9,445.00	0.80	329.70	-6,092.43	9,443.63	-30.18	13.34	-30.30	0.69	399,296.22	762,933.54

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------