



**PHOENIX
TECHNOLOGY SERVICES**

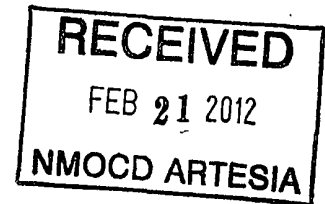
February 14, 2012

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

30-015-39671

Dear District 2 - Artesia

Re: EOG Resources
Sand Tank 17 Fed Com 5H
Eddy Co., NM
API #30-015-39671
Job No. 1210072

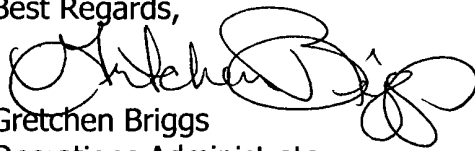


Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 606018). Other information required by your office is as follows:

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Spencer Brown	5H	418	12,463	01/27/12	02/12/12	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,


Gretchen Briggs
Operations Administrator

Certified mail receipt number: **7010 1670 0000 9227 7300**

**NEVIS ENERGY SERVICES INC.
SURVEY DATA CERTIFICATION**



PHOENIX JOB NUMBER 1210072

OPERATOR EOG Resources

WELL NAME Sand Tank 17 Fed Com 5H

COUNTY & STATE Eddy County, NM

API WELL NUMBER 300-153-967-10000

PROPOSED DIRECTION 90.44

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
ft	. ft	0	0	0	0	Surface

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
27-Jan-12	418 ft	0.2	273.9

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
12-Feb-12	12,463 ft	88.4	89.4

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
12-Feb-12	12,535 ft	88.4	89.4

Spencer Brown

PRINT YOUR NAME ABOVE

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.56
DECLINATION OR GRID	Grid

2/14/12
TODAY'S DATE

MWD SUPERVISOR 1 Spencer Brown

DIRECTIONAL DRILLER 1

Corey Owens

MWD SUPERVISOR 2 Patrick Brown

DIRECTIONAL DRILLER 2

Casey Tubbe/Jason Ryan

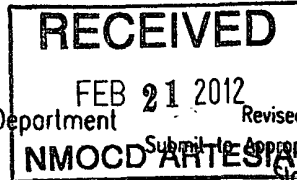
1805 Brittmore Road

Houston, Texas 77043

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

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- 39671	Pool Code 96832	Pool Name Sand Tank; Bone Spring
Property Code 20944	Property Name SAND TANK "17" FED. COM	Well Number 5H
OGRD No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3468.0'

Surface Location

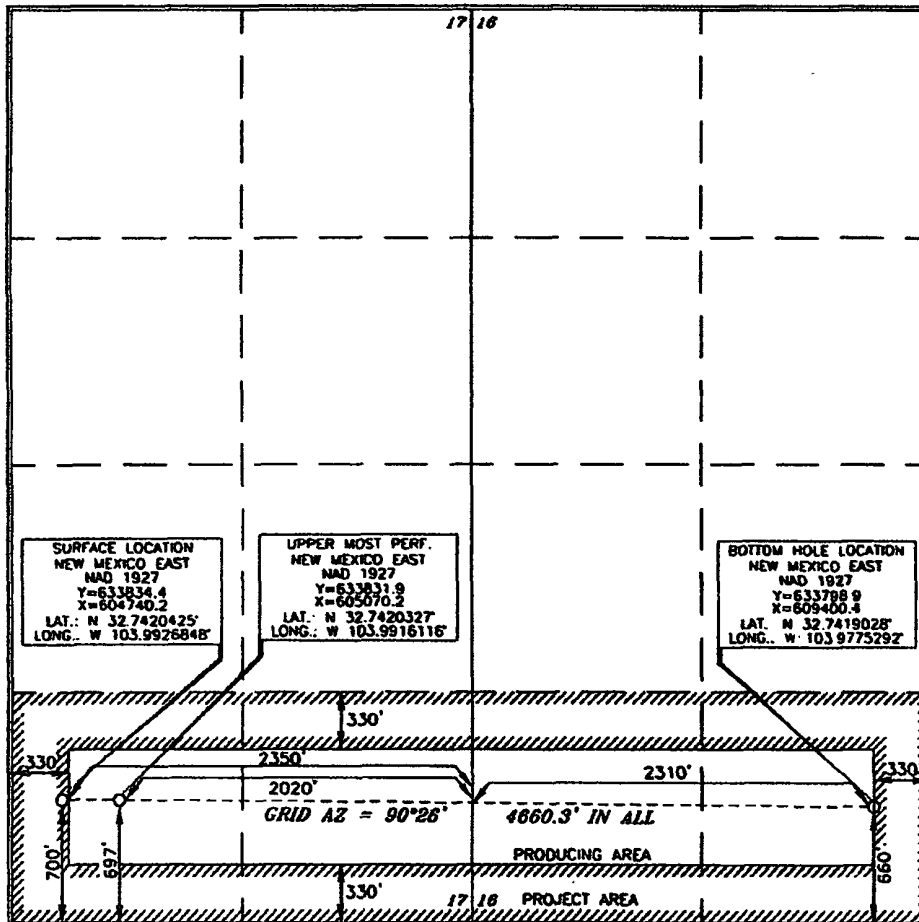
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	17	18 SOUTH	30 EAST, N.M.P.M.		700'	SOUTH	2350'	EAST	EDDY

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
N	16	18 SOUTH	30 EAST, N.M.P.M.		660'	SOUTH	2310'	WEST	EDDY

Dedicated Acres 160	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 7/26/11
Signature Date

Stan Wagner
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted 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.

15079
MARCH 7, 2011
Date of Survey

Signature and Seal of Professional Surveyor

Jerry D. Neal 3/29/2011
Certificate Number 15079

NO# 110307WL-d (NA)

EOG Resources

Eddy County, NM (Nad27)

Sand Tank 17 Fed Com

Sand Tank 17 Fed Com 5H

Wellbore #1

Survey: Phoenix MWD Surveys

EOG Resources

14 February, 2012



Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Sand Tank 17 Fed Com 5H
Project:	Eddy County, NM (Nad27)	TVD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
Site:	Sand Tank 17 Fed Com	MD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
Well:	Sand Tank 17 Fed Com 5H	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	Sand Tank 17 Fed Com		
Site Position:		Northing:	635,014.40 usft
From:	Map	Easting:	604,776.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 44' 43.0283 N
		Longitude:	103° 59' 33.1962 W
		Grid Convergence:	0.18 °

Well	Sand Tank 17 Fed Com 5H		
Well Position	+N/-S	0.00 usft	Northing: 633,834.40 usft
	+E/-W	0.00 usft	Easting: 604,740.20 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 44' 31.3529 N
		Longitude:	103° 59' 33.6657 W
		Ground Level:	3,468.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	01/16/12	7.75	60.58	48,822

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	90.44	

Survey Program	Date	02/14/12			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
418.00	12,535.00	Phoenix MWD Surveys (Wellbore #1)	MWD	MWD - Standard	

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Sand Tank 17 Fed Com 5H
Project:	Eddy County, NM (Nad27)	TVD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
Site:	Sand Tank 17 Fed Com	MD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
Well:	Sand Tank 17 Fed Com 5H	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)
0.00	0 00	0 00	-3,498.00	0 00	0.00	0.00	0 00	0.00	633,834.40	604,740.20
418.00	0 20	273.90	-3,080.00	418.00	0.05	-0.73	-0.73	0.05	633,834.45	604,739.47
First Phoenix MWD Survey										
602.00	0.40	167.00	-2,896.00	602.00	-0.55	-0.90	-0.90	0.27	633,833.85	604,739.30
786.00	0.70	144.90	-2,712.01	785.99	-2.10	-0.11	-0.10	0.20	633,832.30	604,740.09
969.00	0 80	144.90	-2,529.03	968.97	-4.06	1.26	1.30	0 05	633,830.34	604,741.46
1,152.00	1 30	118.10	-2,346.06	1,151.94	-6.08	3.83	3.88	0.38	633,828.32	604,744.03
1,336.00	0.70	90.60	-2,162.08	1,335.92	-7.08	6.80	6.85	0.41	633,827.32	604,747.00
1,520.00	0.80	43.50	-1,978.10	1,519.90	-6.16	8.80	8.85	0 33	633,828.24	604,749.00
1,710.00	0.80	18.50	-1,788.12	1,709.88	-3.94	10.14	10.17	0.18	633,830.46	604,750.34
1,901.00	1.00	13.10	-1,597.14	1,900.86	-1.05	10.94	10.95	0 11	633,833.35	604,751.14
2,092.00	1.40	6.20	-1,406.18	2,091.82	2.89	11.57	11.55	0.22	633,837.29	604,751.77
2,282.00	1.00	305.00	-1,216.22	2,281.78	6.15	10.46	10.41	0 67	633,840.55	604,750.66
2,474.00	0.40	277.60	-1,024.23	2,473.77	7.20	8.42	8.37	0.35	633,841.60	604,748.62
2,664.00	0.50	288.30	-834.24	2,663.76	7.55	6.98	6.92	0 07	633,841.95	604,747.18
2,856.00	0 70	309.20	-642.25	2,855.75	8.55	5.27	5.21	0.15	633,842.95	604,745.47
3,047.00	0.90	306.30	-451.27	3,046.73	10.18	3.16	3.08	0 11	633,844.58	604,743.36
3,238.00	0 20	282.20	-260.28	3,237.72	11.14	1.63	1.54	0.38	633,845.54	604,741.83
3,320.00	0.20	194.20	-178.28	3,319.72	11.03	1.45	1.37	0.34	633,845.43	604,741.65
3,464.00	0.30	228.00	-34.28	3,463.72	10.53	1.11	1.03	0 12	633,844.93	604,741.31
3,655.00	0 40	283.00	156.72	3,654.72	10.35	0.09	0.01	0.18	633,844.75	604,740.29
3,846.00	0.30	251.80	347.71	3,845.71	10.34	-1.04	-1.11	0.11	633,844.74	604,739.16
4,036.00	0 40	299.20	537.71	4,035.71	10.51	-2.09	-2.17	0 16	633,844.91	604,738.11
4,227.00	1.60	302.40	728.68	4,226.68	12.26	-4.92	-5.01	0 63	633,846.66	604,735.28
4,418.00	0.30	171.00	919.66	4,417.66	13.20	-7.09	-7.20	0.95	633,847.60	604,733.11
4,610.00	0.70	194.70	1,111.65	4,609.65	11.57	-7.31	-7.40	0.23	633,845.97	604,732.89
4,800.00	0.70	229.40	1,301.64	4,799.64	9.69	-8.49	-8.56	0.22	633,844.09	604,731.71

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Sand Tank 17 Fed Com 5H
Project:	Eddy County, NM (Nad27)	TVD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
Site:	Sand Tank 17 Fed Com	MD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
Well:	Sand Tank 17 Fed Com 5H	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)	
4,991.00	0.00	41.80	1,492.63	4,990.63	8.93	-9.37	-9.44	0.37	633,843.33	604,730.83	
5,181.00	1.10	297.90	1,682.62	5,180.62	9.79	-10.99	-11.06	0.58	633,844.19	604,729.21	
5,372.00	0.20	140.20	1,873.61	5,371.61	10.39	-12.39	-12.47	0.67	633,844.79	604,727.81	
5,563.00	0.30	27.80	2,064.61	5,562.61	10.57	-11.95	-12.03	0.22	633,844.97	604,728.25	
5,753.00	0.30	75.90	2,254.61	5,752.61	11.13	-11.23	-11.32	0.13	633,845.53	604,728.97	
5,944.00	0.30	57.80	2,445.60	5,943.60	11.52	-10.32	-10.41	0.05	633,845.92	604,729.88	
6,135.00	0.40	336.70	2,636.60	6,134.60	12.40	-10.16	-10.26	0.24	633,846.80	604,730.04	
6,326.00	0.20	57.10	2,827.60	6,325.60	13.19	-10.15	-10.25	0.22	633,847.59	604,730.05	
6,517.00	0.50	16.30	3,018.59	6,516.59	14.18	-9.63	-9.74	0.19	633,848.58	604,730.57	
6,708.00	1.00	300.80	3,209.58	6,707.58	15.83	-10.83	-10.95	0.52	633,850.23	604,729.37	
6,888.00	0.70	154.30	3,389.57	6,887.57	15.64	-11.70	-11.82	0.91	633,850.04	604,728.50	
7,079.00	0.80	159.70	3,580.56	7,078.56	13.34	-10.74	-10.84	0.06	633,847.74	604,729.46	
7,270.00	0.80	161.90	3,771.54	7,269.54	10.82	-9.86	-9.94	0.02	633,845.22	604,730.34	
7,461.00	0.60	177.00	3,962.52	7,460.52	8.56	-9.39	-9.46	0.14	633,842.96	604,730.81	
7,580.00	0.70	172.80	4,081.52	7,579.52	7.21	-9.27	-9.32	0.09	633,841.61	604,730.93	
7,656.00	2.70	101.30	4,157.48	7,655.48	6.40	-7.46	-7.50	3.38	633,840.80	604,732.74	
7,688.00	7.00	92.60	4,189.36	7,687.36	6.17	-4.77	-4.81	13.59	633,840.57	604,735.43	
7,720.00	11.60	89.20	4,220.93	7,718.93	6.12	0.40	0.35	14.47	633,840.52	604,740.60	
7,752.00	15.70	87.50	4,252.02	7,750.02	6.36	7.95	7.90	12.87	633,840.76	604,748.15	
7,784.00	20.70	87.90	4,282.41	7,780.41	6.75	17.93	17.88	15.63	633,841.15	604,758.13	
7,815.00	25.20	90.10	4,310.95	7,808.95	6.94	30.01	29.96	14.78	633,841.34	604,770.21	
7,847.00	29.40	93.00	4,339.38	7,837.38	6.52	44.67	44.62	13.76	633,840.92	604,784.87	
7,879.00	33.30	96.10	4,366.71	7,864.71	5.17	61.26	61.22	13.18	633,839.57	604,801.46	
7,911.00	37.40	95.60	4,392.80	7,890.80	3.29	79.67	79.65	12.84	633,837.69	604,819.87	
7,943.00	41.00	95.50	4,417.60	7,915.60	1.34	99.80	99.79	11.25	633,835.74	604,840.00	
7,975.00	44.40	94.90	4,441.11	7,939.11	-0.63	121.41	121.41	10.70	633,833.77	604,861.61	
8,007.00	47.70	94.20	4,463.32	7,961.32	-2.45	144.37	144.39	10.43	633,831.95	604,884.57	

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Sand Tank 17 Fed Com 5H
Project:	Eddy County, NM (Nad27)	TVD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
Site:	Sand Tank 17 Fed Com	MD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
Well:	Sand Tank 17 Fed Com 5H	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)
8,038.00	50.60	93.80	93.80	4,483.59	7,981.59	-4.08	167.76	167.79	9.41	633,830.32	604,907.96
8,070.00	53.80	93.30	93.30	4,503.20	8,001.20	-5.65	193.00	193.03	10.08	633,828.75	604,933.20
8,102.00	57.30	92.20	92.20	4,521.30	8,019.30	-6.91	219.35	219.39	11.30	633,827.49	604,959.55
8,134.00	60.20	91.80	91.80	4,537.90	8,035.90	-7.86	246.69	246.74	9.13	633,826.54	604,986.89
8,165.00	62.70	91.40	91.40	4,552.71	8,050.71	-8.62	273.90	273.96	8.14	633,825.78	605,014.10
8,197.00	65.10	91.30	91.30	4,566.79	8,064.79	-9.30	302.63	302.69	7.51	633,825.10	605,042.83
8,229.00	67.70	91.50	91.50	4,579.60	8,077.60	-10.01	331.94	332.01	8.15	633,824.39	605,072.14
8,260.00	70.80	91.20	91.20	4,590.58	8,088.58	-10.70	360.92	360.99	10.04	633,823.70	605,101.12
8,293.00	73.00	90.70	90.70	4,600.83	8,098.83	-11.22	392.28	392.36	6.82	633,823.18	605,132.48
8,325.00	75.20	89.70	89.70	4,609.60	8,107.60	-11.32	423.05	423.13	7.50	633,823.08	605,163.25
8,357.00	78.50	88.90	88.90	4,616.88	8,114.88	-10.94	454.21	454.28	10.60	633,823.46	605,194.41
8,389.00	82.40	88.50	88.50	4,622.19	8,120.19	-10.22	485.75	485.81	12.25	633,824.18	605,225.95
8,420.00	83.60	88.90	88.90	4,625.97	8,123.97	-9.52	516.51	516.57	4.08	633,824.88	605,256.71
8,452.00	83.60	88.60	88.60	4,629.53	8,127.53	-8.83	548.30	548.36	0.93	633,825.57	605,288.50
8,516.00	85.00	90.30	90.30	4,635.89	8,133.89	-8.22	611.98	612.03	3.43	633,826.18	605,352.18
8,548.00	85.00	90.30	90.30	4,638.68	8,136.68	-8.39	643.86	643.90	0.00	633,826.01	605,384.06
8,643.00	88.10	89.40	89.40	4,644.40	8,142.40	-8.14	738.67	738.71	3.40	633,826.26	605,478.87
8,739.00	87.80	89.60	89.60	4,647.83	8,145.83	-7.30	834.61	834.64	0.38	633,827.10	605,574.81
8,835.00	88.70	89.90	89.90	4,650.76	8,148.76	-6.88	930.56	930.59	0.99	633,827.52	605,670.76
8,930.00	89.00	91.80	91.80	4,652.67	8,150.67	-8.29	1,025.53	1,025.56	2.02	633,826.11	605,765.73
9,026.00	88.00	91.70	91.70	4,655.18	8,153.18	-11.22	1,121.45	1,121.50	1.05	633,823.18	605,861.65
9,122.00	88.00	91.30	91.30	4,658.53	8,156.53	-13.73	1,217.36	1,217.43	0.42	633,820.67	605,957.56
9,217.00	87.70	91.10	91.10	4,662.09	8,160.09	-15.72	1,312.27	1,312.35	0.38	633,818.68	606,052.47
9,312.00	88.30	91.00	91.00	4,665.41	8,163.41	-17.46	1,407.19	1,407.29	0.64	633,816.94	606,147.39
9,408.00	88.70	90.70	90.70	4,667.92	8,165.92	-18.89	1,503.15	1,503.25	0.52	633,815.51	606,243.35
9,504.00	89.10	90.20	90.20	4,669.77	8,167.77	-19.64	1,599.13	1,599.23	0.67	633,814.76	606,339.33
9,599.00	89.20	89.80	89.80	4,671.18	8,169.18	-19.64	1,694.12	1,694.22	0.43	633,814.76	606,434.32

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Sand Tank 17 Fed Com 5H
Project:	Eddy County, NM (Nad27)	TVD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
Site:	Sand Tank 17 Fed Com	MD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
Well:	Sand Tank 17 Fed Com 5H	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)
9,695.00	89.20	91.70	4,672.52	8,170.52	-20.90	1,790.10	1,790.20	1.98	633,813.50	606,530.30
9,790.00	88.70	91.10	4,674.26	8,172.26	-23.22	1,885.05	1,885.17	0.82	633,811.18	606,625.25
9,886.00	88.20	91.40	4,676.85	8,174.85	-25.31	1,980.99	1,981.13	0.61	633,809.09	606,721.19
9,981.00	87.60	91.10	4,680.33	8,178.33	-27.38	2,075.91	2,076.06	0.71	633,807.02	606,816.11
10,077.00	87.00	90.60	4,684.86	8,182.86	-28.80	2,171.79	2,171.95	0.81	633,805.60	606,911.99
10,172.00	86.50	90.70	4,690.24	8,188.24	-29.88	2,266.63	2,266.79	0.54	633,804.52	607,006.83
10,267.00	88.40	90.80	4,694.47	8,192.47	-31.12	2,361.52	2,361.69	2.00	633,803.28	607,101.72
10,362.00	87.70	90.20	4,697.70	8,195.70	-31.95	2,456.46	2,456.64	0.97	633,802.45	607,196.66
10,458.00	87.60	90.20	4,701.64	8,199.64	-32.28	2,552.38	2,552.55	0.10	633,802.12	607,292.58
10,553.00	86.90	90.40	4,706.20	8,204.20	-32.78	2,647.27	2,647.44	0.77	633,801.62	607,387.47
10,649.00	88.80	90.20	4,709.80	8,207.80	-33.28	2,743.20	2,743.37	1.99	633,801.12	607,483.40
10,744.00	88.40	90.30	4,712.12	8,210.12	-33.70	2,838.17	2,838.34	0.43	633,800.70	607,578.37
10,840.00	87.70	89.80	4,715.39	8,213.39	-33.78	2,934.11	2,934.28	0.90	633,800.62	607,674.31
10,935.00	87.40	90.50	4,719.45	8,217.45	-34.03	3,029.02	3,029.20	0.80	633,800.37	607,769.22
11,031.00	90.50	91.50	4,721.21	8,219.21	-35.71	3,124.98	3,125.16	3.39	633,798.69	607,865.18
11,126.00	90.40	91.60	4,720.46	8,218.46	-38.28	3,219.94	3,220.14	0.15	633,796.12	607,960.14
11,222.00	89.50	90.60	4,720.54	8,218.54	-40.12	3,315.92	3,316.13	1.40	633,794.28	608,056.12
11,317.00	89.10	90.70	4,721.70	8,219.70	-41.20	3,410.91	3,411.12	0.43	633,793.20	608,151.11
11,412.00	88.90	90.40	4,723.36	8,221.36	-42.11	3,505.89	3,506.11	0.38	633,792.29	608,246.09
11,508.00	88.70	90.00	4,725.37	8,223.37	-42.44	3,601.87	3,602.09	0.47	633,791.96	608,342.07
11,603.00	87.90	89.60	4,728.19	8,226.19	-42.11	3,696.82	3,697.04	0.94	633,792.29	608,437.02
11,699.00	88.50	89.50	4,731.21	8,229.21	-41.36	3,792.77	3,792.98	0.63	633,793.04	608,532.97
11,795.00	87.80	89.00	4,734.30	8,232.30	-40.10	3,888.71	3,888.91	0.90	633,794.30	608,628.91
11,890.00	88.00	91.30	4,737.79	8,235.79	-40.35	3,983.64	3,983.84	2.43	633,794.05	608,723.84
11,986.00	88.40	91.60	4,740.80	8,238.80	-42.78	4,079.57	4,079.77	0.52	633,791.62	608,819.77
12,081.00	87.70	92.00	4,744.03	8,242.03	-45.76	4,174.46	4,174.69	0.85	633,788.64	608,914.66
12,177.00	88.40	91.60	4,747.30	8,245.30	-48.77	4,270.36	4,270.61	0.84	633,785.63	609,010.56

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Sand Tank 17 Fed Com 5H
Project:	Eddy County, NM (Nad27)	TVD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
Site:	Sand Tank 17 Fed Com	MD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
Well:	Sand Tank 17 Fed Com 5H	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)	
12,272.00	89 40	89 10	4,749 13	8,247.13	-49.35	4,365 33	4,365.58	2.83	633,785 05	609,105.53	
12,368.00	88 90	89.80	4,750.55	8,248 55	-48.43	4,461 32	4,461 56	0.90	633,785 97	609,201 52	
12,463 00	88.40	89 40	4,752.79	8,250 79	-47.77	4,556.29	4,556.52	0.67	633,786.63	609,296.49	
Last Phoenix MWD Survey											
12,535.00	88.40	89.40	4,754 80	8,252 80	-47 02	4,628 25	4,628.48	0.00	633,787 38	609,368.45	
Projection to TD											

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
418 00	418 00	0.05	-0.73	First Phoenix MWD Survey
12,463 00	8,250 79	-47 77	4,556 29	Last Phoenix MWD Survey
12,535.00	8,252.80	-47.02	4,628.25	Projection to TD

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