

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
Appropriate District Office
State Lease-4 Copies
Fee Lease-3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-005-63965	Pool Code 97489	Pool Name Wildcat; Wolfcamp Gas
Property Code	Property Name RIO RUIDOSO A "16" STATE	Well Number 1H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3420'

Surface Location

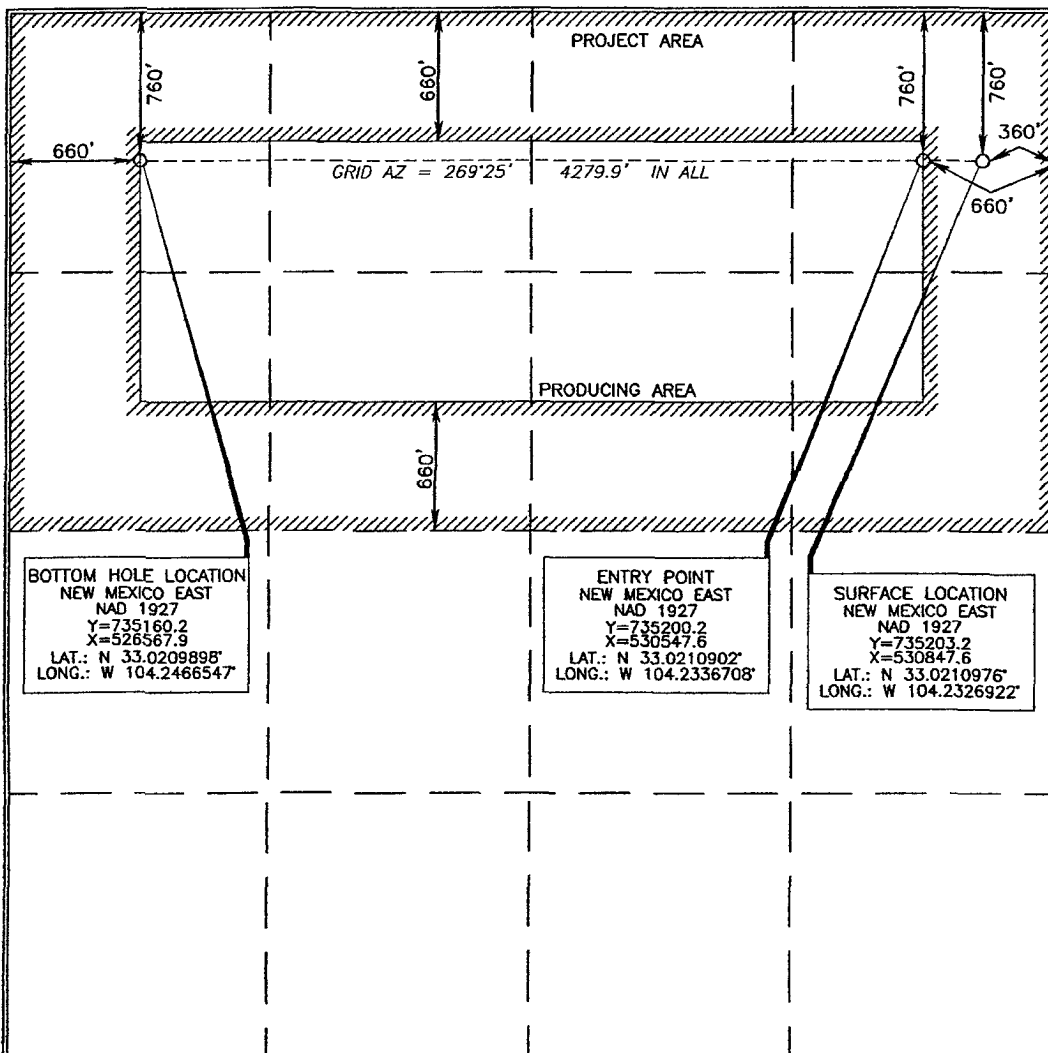
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	15 SOUTH	27 EAST, N.M.P.M.		760'	NORTH	360'	EAST	CHAVES

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
D	16	15 SOUTH	27 EAST, N.M.P.M.		760'	NORTH	660'	WEST	CHAVES

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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.

Donny G. Glanton 8/2/07
Signature Date

Donny G. Glanton
Printed Name

SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor

Terry A. Paul 7/31/07
Certificate Number 15079

WO# 070726WL (KA)

Permit Information:

Well Name: Rio Ruidoso A 16 State #1H

Location:

SL 760' FNL & 360' FEL, Section 16, T-15-S, R-27-E, Chaves Co., N.M.

BHL 760' FNL & 660' FWL, Section 16, T-15-S, R-27-E, Chaves Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	900'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	10,025'	7-7/8"	5 1/2"	17#	N-80	Surface

Cement Program:

Depth	No. Sacks	Slurries:
900'	345	Lead: 35:65 Poz Class C + 6% D20 + 5 pps D24 + 2% S1
	400	Tail: Class C + 2% S1 + 0.25 pps D29
10,025'	530	Lead: 50:50 Poz Class C + 5% D44 (bwow) + 10% D20 + 0.125 pps D130
	745	Tail: 50:50 Poz Class C + 5% D44 (bwow) + 2% D20 + 0.3% D167 + 0.2% D65 + 0.2% D46 + 0.05% D13

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 900'	Fresh - Gel	8.6-8.8	28-34	N/c
900' – 4,400'	Cut Brine	8.8-9.2	28-34	N/c
4,400' – 6,300'	Cut Brine	8.8-9.2	28-34	10-15
5,468' – 10,025'	Polymer (Lateral)	9.0-9.4	40-45	10-20



EOG Resources, Inc.

P.O. Box 2267
Midland, TX 79702
(432) 686-3600

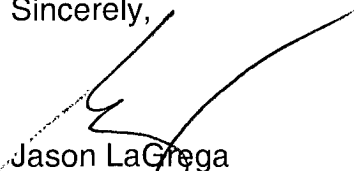
August 1, 2007

State of New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

To Whom It May Concern:

I am writing to request a waiver for the inclusion of an H₂S Contingency Plan for the Rio Ruidoso A 16 State #1H. The current plan is to complete this well in the Wolfcamp, which is sweet, and I do not anticipate encountering any H₂S bearing formations during drilling operations.

Sincerely,



Jason LaGrega
Drilling Engineer

EOG RESOURCES INC.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Rio Ruidoso A 16 State #1H
Company:	EOG - Midland (3)	TVD Reference:	WELL @ 3439.00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3439 00ft (Original Well Elev)
Site:	Rio Ruidoso A 16 State #1H	North Reference:	Grid
Well:	Rio Ruidoso A 16 State #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Rio Ruidoso A 16 State #1H		
Design:	Original Plan		

Project	Thames		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Rio Ruidoso A 16 State #1H		
Site Position:		Northing:	735,203 20ft
From:	Map	Easting:	530,847 60ft
Position Uncertainty:	0 00 ft	Slot Radius:	"
		Latitude:	33° 1' 15 952 N
		Longitude:	104° 13' 57.691 W
		Grid Convergence:	0.05 °

Well	Rio Ruidoso A 16 State #1H		
Well Position	+N/-S	0.00 ft	Northing: 735,203.20 ft
	+E/-W	0 00 ft	Easting: 530,847 60 ft
Position Uncertainty	0 00 ft	Wellhead Elevation:	ft
		Latitude:	33° 1' 15 952 N
		Longitude:	104° 13' 57.691 W
		Ground Level:	3,420 00ft

Wellbore	Rio Ruidoso A 16 State #1H		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2005	8/1/2007	8.40
			Dip Angle
			(°)
			60 88
			Field Strength
			(nT)
			49,365

Design	Original Plan		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0 00	0 00
			Direction
			(°)
			269.42

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0 00	0 00	0 00	0.00	0.00	0.00	0.00	0.00	0 00	0 00	
5,468 00	0 00	0 01	5,468.00	0 00	0 00	0 00	0.00	0.00	0 01	
6,069 37	71.50	269 42	5,925 00	-3 33	-328 98	11 89	11.89	0 00	269.42	
6,225 58	90 00	269 42	5,950 00	-4 88	-482 47	11 84	11 84	0 00	0 00	
7,225 58	90 00	269 42	5,950 00	-15 01	-1,482 42	0.00	0 00	0 00	0 00	
7,292 23	92.00	269 43	5,948 84	-15 68	-1,549.06	3 00	3 00	0 01	0.19	
10,024 56	92 00	269.43	5,853 50	-43 00	-4,279.59	0 00	0.00	0 00	0 00	
10,024 67	92 00	269.43	5,853 50	-43 00	-4,279.70	3 00	0 45	2 97	0.00	BHL (Rio Ruidoso /

EOG RESOURCES INC.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Rio Ruidoso A 16 State #1H
Company:	EOG - Midland (3)	TVD Reference:	WELL @ 3439.00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3439.00ft (Original Well Elev)
Site:	Rio Ruidoso A 16 State #1H	North Reference:	Grid
Well:	Rio Ruidoso A 16 State #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Rio Ruidoso A 16 State #1H		
Design:	Original Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0 00	0 00	0.00	0.00	0 00	0 00	0.00	0 00	0.00	0.00
100 00	0.00	0.01	100.00	0 00	0.00	0.00	0 00	0 00	0.00
200 00	0 00	0 01	200 00	0.00	0.00	0.00	0 00	0 00	0 00
300 00	0 00	0 01	300 00	0 00	0.00	0 00	0 00	0 00	0.00
400 00	0 00	0 01	400 00	0.00	0 00	0 00	0 00	0.00	0 00
500 00	0 00	0 01	500 00	0 00	0 00	0.00	0.00	0 00	0.00
600 00	0 00	0 01	600 00	0.00	0.00	0.00	0 00	0.00	0 00
700 00	0.00	0 01	700.00	0.00	0.00	0 00	0 00	0.00	0 00
800 00	0.00	0 01	800.00	0 00	0.00	0 00	0 00	0 00	0.00
900 00	0.00	0 01	900.00	0 00	0 00	0 00	0 00	0 00	0.00
1,000 00	0 00	0 01	1,000.00	0 00	0 00	0 00	0.00	0.00	0.00
1,100 00	0 00	0.01	1,100.00	0 00	0 00	0 00	0 00	0 00	0 00
1,200 00	0.00	0 01	1,200 00	0.00	0 00	0 00	0.00	0 00	0 00
1,300 00	0.00	0 01	1,300 00	0 00	0.00	0 00	0.00	0 00	0.00
1,400 00	0.00	0.01	1,400 00	0 00	0 00	0 00	0.00	0.00	0 00
1,500 00	0.00	0 01	1,500.00	0.00	0 00	0.00	0.00	0.00	0 00
1,600 00	0.00	0.01	1,600 00	0.00	0.00	0.00	0.00	0.00	0.00
1,700 00	0 00	0.01	1,700 00	0.00	0.00	0.00	0 00	0.00	0.00
1,800 00	0.00	0.01	1,800 00	0.00	0.00	0.00	0.00	0.00	0.00
1,900 00	0 00	0.01	1,900 00	0.00	0.00	0.00	0.00	0.00	0.00
2,000 00	0.00	0.01	2,000.00	0.00	0.00	0.00	0.00	0.00	0 00
2,100 00	0.00	0.01	2,100.00	0.00	0.00	0.00	0.00	0.00	0 00
2,200 00	0.00	0.01	2,200 00	0 00	0.00	0.00	0.00	0.00	0 00
2,300 00	0.00	0.01	2,300 00	0 00	0.00	0.00	0.00	0.00	0.00
2,400 00	0 00	0.01	2,400.00	0 00	0 00	0 00	0 00	0 00	0.00
2,500 00	0.00	0 01	2,500.00	0 00	0.00	0 00	0 00	0.00	0.00
2,600 00	0 00	0 01	2,600 00	0 00	0.00	0.00	0.00	0 00	0 00
2,700 00	0.00	0 01	2,700 00	0 00	0 00	0.00	0.00	0.00	0 00
2,800 00	0 00	0.01	2,800.00	0.00	0 00	0 00	0 00	0 00	0.00
2,900 00	0.00	0 01	2,900 00	0 00	0 00	0 00	0.00	0.00	0.00
3,000 00	0 00	0 01	3,000 00	0 00	0.00	0.00	0.00	0 00	0.00
3,100 00	0 00	0 01	3,100.00	0 00	0.00	0.00	0.00	0 00	0.00
3,200 00	0 00	0 01	3,200 00	0.00	0 00	0.00	0 00	0.00	0 00
3,300 00	0.00	0.01	3,300.00	0 00	0.00	0 00	0 00	0 00	0.00
3,400 00	0 00	0.01	3,400.00	0.00	0.00	0 00	0 00	0 00	0.00
3,500 00	0.00	0 01	3,500 00	0 00	0 00	0 00	0 00	0.00	0.00
3,600 00	0 00	0 01	3,600 00	0 00	0 00	0 00	0 00	0 00	0 00
3,700 00	0.00	0 01	3,700 00	0 00	0 00	0 00	0 00	0.00	0 00
3,800 00	0 00	0 01	3,800 00	0 00	0 00	0 00	0 00	0 00	0.00
3,900 00	0 00	0 01	3,900 00	0 00	0 00	0 00	0 00	0 00	0.00
4,000 00	0 00	0.01	4,000.00	0.00	0.00	0.00	0.00	0 00	0.00
4,100 00	0.00	0 01	4,100.00	0 00	0.00	0 00	0 00	0 00	0 00
4,200 00	0.00	0 01	4,200 00	0 00	0 00	0 00	0 00	0 00	0 00
4,300 00	0.00	0.01	4,300.00	0 00	0 00	0 00	0 00	0 00	0 00
4,400 00	0 00	0 01	4,400 00	0 00	0 00	0 00	0 00	0 00	0.00
4,500 00	0.00	0 01	4,500 00	0 00	0 00	0 00	0.00	0 00	0.00
4,600 00	0.00	0 01	4,600 00	0 00	0 00	0 00	0.00	0 00	0 00
4,700 00	0.00	0 01	4,700 00	0 00	0 00	0 00	0.00	0 00	0.00
4,800 00	0 00	0 01	4,800 00	0 00	0 00	0 00	0 00	0 00	0 00
4,900 00	0.00	0.01	4,900.00	0 00	0 00	0 00	0 00	0.00	0.00
5,000 00	0 00	0 01	5,000 00	0 00	0 00	0.00	0 00	0.00	0 00
5,100 00	0 00	0 01	5,100 00	0 00	0.00	0 00	0 00	0 00	0 00
5,200 00	0.00	0 01	5,200 00	0 00	0.00	0 00	0 00	0.00	0 00
5,300 00	0.00	0.01	5,300.00	0 00	0.00	0 00	0 00	0 00	0.00

EOG RESOURCES INC.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Rio Ruidoso A 16 State #1H
Company:	EOG - Midland (3)	TVD Reference:	WELL @ 3439.00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3439 00ft (Original Well Elev)
Site:	Rio Ruidoso A 16 State #1H	North Reference:	Grid
Well:	Rio Ruidoso A 16 State #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Rio Ruidoso A 16 State #1H		
Design:	Original Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	0.00	0.01	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,468.00	0.00	0.01	5,468.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	3.80	269.42	5,499.98	-0.01	-1.06	1.06	11.89	11.89	0.00
5,600.00	15.69	269.42	5,598.36	-0.18	-17.96	17.97	11.89	11.89	0.00
5,700.00	27.58	269.42	5,691.14	-0.55	-54.77	54.77	11.89	11.89	0.00
5,800.00	39.47	269.42	5,774.35	-1.11	-109.91	109.91	11.89	11.89	0.00
5,900.00	51.36	269.42	5,844.42	-1.83	-181.00	181.01	11.89	11.89	0.00
6,000.00	63.25	269.42	5,898.34	-2.68	-265.00	265.01	11.89	11.89	0.00
6,069.37	71.50	269.42	5,925.00	-3.33	-328.98	328.99	11.89	11.89	0.00
6,100.00	75.13	269.42	5,933.79	-3.63	-358.31	358.33	11.84	11.84	0.00
6,200.00	86.97	269.42	5,949.32	-4.63	-456.91	456.93	11.84	11.84	0.00
6,225.58	90.00	269.42	5,950.00	-4.88	-482.47	482.50	11.84	11.84	0.00
6,300.00	90.00	269.42	5,950.00	-5.64	-556.89	556.92	0.00	0.00	0.00
6,400.00	90.00	269.42	5,950.00	-6.65	-656.89	656.92	0.00	0.00	0.00
6,500.00	90.00	269.42	5,950.00	-7.66	-756.88	756.92	0.00	0.00	0.00
6,600.00	90.00	269.42	5,950.00	-8.67	-856.88	856.92	0.00	0.00	0.00
6,700.00	90.00	269.42	5,950.00	-9.69	-956.87	956.92	0.00	0.00	0.00
6,800.00	90.00	269.42	5,950.00	-10.70	-1,056.87	1,056.92	0.00	0.00	0.00
6,900.00	90.00	269.42	5,950.00	-11.71	-1,156.86	1,156.92	0.00	0.00	0.00
7,000.00	90.00	269.42	5,950.00	-12.72	-1,256.86	1,256.92	0.00	0.00	0.00
7,100.00	90.00	269.42	5,950.00	-13.74	-1,356.85	1,356.92	0.00	0.00	0.00
7,200.00	90.00	269.42	5,950.00	-14.75	-1,456.85	1,456.92	0.00	0.00	0.00
7,225.58	90.00	269.42	5,950.00	-15.01	-1,482.42	1,482.50	0.00	0.00	0.00
7,292.23	92.00	269.43	5,948.84	-15.68	-1,549.06	1,549.14	3.00	3.00	0.01
7,300.00	92.00	269.43	5,948.57	-15.76	-1,556.82	1,556.90	0.00	0.00	0.00
7,400.00	92.00	269.43	5,945.08	-16.76	-1,656.76	1,656.84	0.00	0.00	0.00
7,500.00	92.00	269.43	5,941.59	-17.76	-1,756.69	1,756.78	0.00	0.00	0.00
7,600.00	92.00	269.43	5,938.10	-18.76	-1,856.63	1,856.72	0.00	0.00	0.00
7,700.00	92.00	269.43	5,934.61	-19.75	-1,956.56	1,956.66	0.00	0.00	0.00
7,800.00	92.00	269.43	5,931.12	-20.75	-2,056.49	2,056.60	0.00	0.00	0.00
7,900.00	92.00	269.43	5,927.63	-21.75	-2,156.43	2,156.54	0.00	0.00	0.00
8,000.00	92.00	269.43	5,924.14	-22.75	-2,256.36	2,256.48	0.00	0.00	0.00
8,100.00	92.00	269.43	5,920.65	-23.75	-2,356.30	2,356.42	0.00	0.00	0.00
8,200.00	92.00	269.43	5,917.16	-24.75	-2,456.23	2,456.35	0.00	0.00	0.00
8,300.00	92.00	269.43	5,913.68	-25.75	-2,556.16	2,556.29	0.00	0.00	0.00
8,400.00	92.00	269.43	5,910.19	-26.75	-2,656.10	2,656.23	0.00	0.00	0.00
8,500.00	92.00	269.43	5,906.70	-27.75	-2,756.03	2,756.17	0.00	0.00	0.00
8,600.00	92.00	269.43	5,903.21	-28.75	-2,855.97	2,856.11	0.00	0.00	0.00
8,700.00	92.00	269.43	5,899.72	-29.75	-2,955.90	2,956.05	0.00	0.00	0.00
8,800.00	92.00	269.43	5,896.23	-30.75	-3,055.83	3,055.99	0.00	0.00	0.00
8,900.00	92.00	269.43	5,892.74	-31.75	-3,155.77	3,155.93	0.00	0.00	0.00
9,000.00	92.00	269.43	5,889.25	-32.75	-3,255.70	3,255.87	0.00	0.00	0.00
9,100.00	92.00	269.43	5,885.76	-33.75	-3,355.64	3,355.81	0.00	0.00	0.00
9,200.00	92.00	269.43	5,882.27	-34.75	-3,455.57	3,455.75	0.00	0.00	0.00
9,300.00	92.00	269.43	5,878.78	-35.75	-3,555.51	3,555.69	0.00	0.00	0.00
9,400.00	92.00	269.43	5,875.30	-36.75	-3,655.44	3,655.62	0.00	0.00	0.00
9,500.00	92.00	269.43	5,871.81	-37.75	-3,755.37	3,755.56	0.00	0.00	0.00
9,600.00	92.00	269.43	5,868.32	-38.75	-3,855.31	3,855.50	0.00	0.00	0.00
9,700.00	92.00	269.43	5,864.83	-39.75	-3,955.24	3,955.44	0.00	0.00	0.00
9,800.00	92.00	269.43	5,861.34	-40.75	-4,055.18	4,055.38	0.00	0.00	0.00
9,900.00	92.00	269.43	5,857.85	-41.75	-4,155.11	4,155.32	0.00	0.00	0.00
10,000.00	92.00	269.43	5,854.36	-42.75	-4,255.04	4,255.26	0.00	0.00	0.00
10,024.56	92.00	269.43	5,853.50	-43.00	-4,279.59	4,279.81	0.00	0.00	0.00

EOG RESOURCES INC.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Rio Ruidoso A 16 State #1H
Company:	EOG - Midland (3)	TVD Reference:	WELL @ 3439.00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3439.00ft (Original Well Elev)
Site:	Rio Ruidoso A 16 State #1H	North Reference:	Grid
Well:	Rio Ruidoso A 16 State #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Rio Ruidoso A 16 State #1H		
Design:	Original Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,024.67	92.00	269.43	5,853.50	-43.00	-4,279.70	4,279.92	3.00	0.45	2.97
BHL (Rio Ruidoso A 16 State #1H)									

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL (Rio Ruidoso A 1	0.00	0.00	5,853.50	-43.00	-4,279.70	735,160.20	526,567.90	33° 1' 15 564 N	104° 14' 47.957 W
- plan hits target									
- Point									