

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

MAR 12 2008

OCD-ARTESIA

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 30-015-36190	Pool Code 97415	Pool Name Four Mile Draw ; Wolfcamp (G)
Property Code 37049	Property Name SNAKE "31" STATE	Well Number 2H
OGRID No. 7377	Operator Name EOG RESOURCES INC.	Elevation 4073.3'

Surface Location

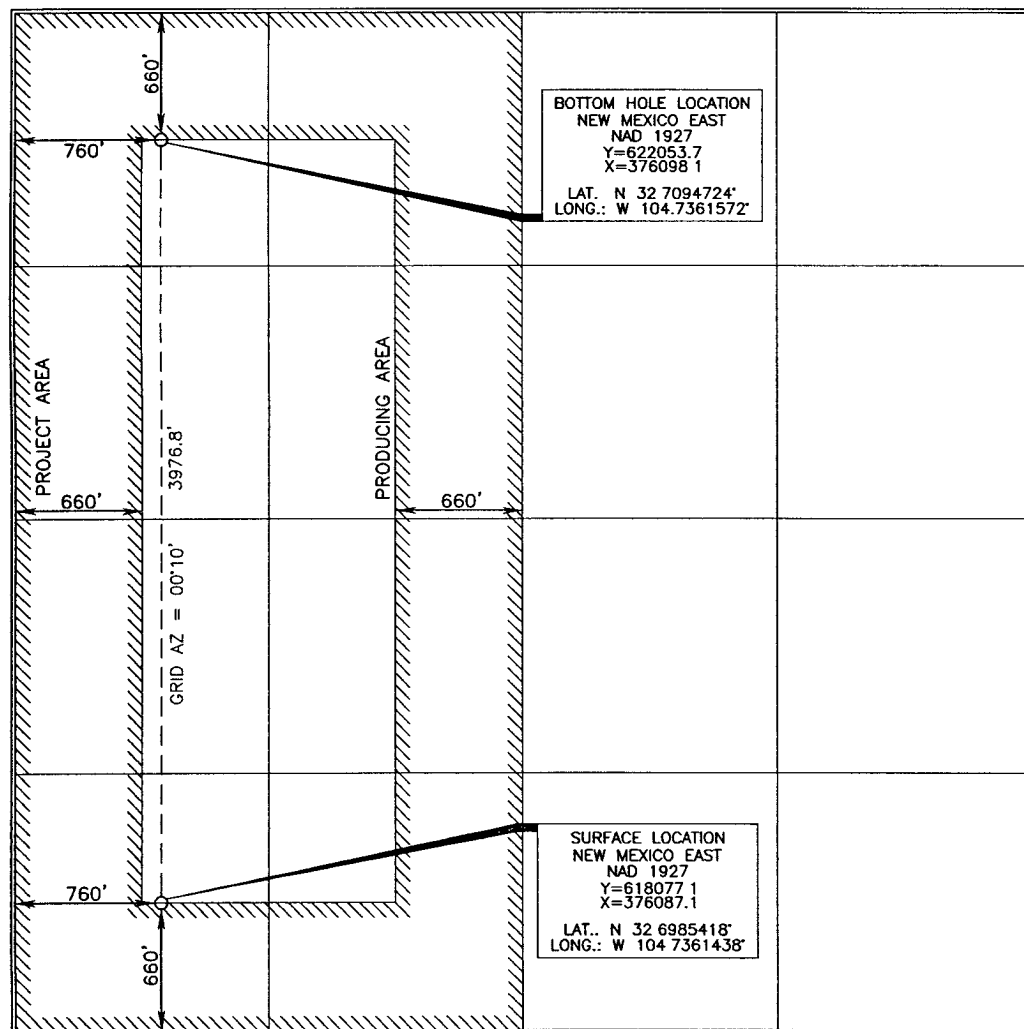
UL or lot no. M	Section 31	Township 18 SOUTH	Range 23 EAST, N.M.P.M.	Lot Idn	Feet from the 660'	North/South line SOUTH	Feet from the 760'	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot no. D	Section 31	Township 18 SOUTH	Range 23 EAST, N.M.P.M.	Lot Idn	Feet from the 660'	North/South line NORTH	Feet from the 760'	East/West line WEST	County EDDY
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Dedicated Acres 304.16	Joint or Infill	Consolidation Code	Order No
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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 3/6/08
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.

FEBRUARY 14, 2008
Date of Survey

Signature and Seal of
Professional Surveyor

Terry J. Abel 2/20/2008
Certificate Number 15079

WO# 080214WL-a (KA)

Permit Information:

Well Name: Snake 31 State #2H

Location:

SL 660' FSL & 760' FWL, Section 31, T-18-S, R-23-E, Eddy Co., N.M.

BHL 660' FNL & 760' FWL, Section 31, T-18-S, R-23-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	1,200'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	8,181'	7-7/8"	5 1/2"	17#	N-80	Surface

Cement Program:

Depth	No. Sacks	Slurries:
1,200'	345	Lead: 35:65 Poz: C + 4% Bentonite+ 0.005 gps FP-6L + 0.005 pps Static Free + 5 pps LCM-1 + 5% NaCl + 5% MPA-5 + 0.8% SMS
	400	Tail: Class C + 0.005 gps FP-6L + 0.005 pps Static Free + 0.125 pps CelloFlake
8,181'	630	Lead: 50:50 Poz:Class C + 0.005 gps FP-6L + 10% Bentonite + 0.005 pps Static Free + 0.125 pps CelloFlake
	745	Tail: 50:50 Poz:Class C + 2% Bentonite + 0.005 gps FP-6L + 0.005 pps Static Free + 5% NaCl + 0.3% FL-2A + 0.2% CD-32 + 0.05% R-3

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,200'	Fresh - Gel	8.6-8.8	28-34	N/c
1,200' – 4,000'	Cut Brine	8.8-9.2	28-34	N/c
4,000' – 4,700'	Cut Brine	8.8-9.2	28-34	10-15
3,928' – 8,181'	Polymer (Lateral)	9.0-9.4	40-45	10-25



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

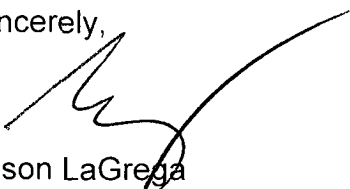
March 5, 2008

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 Snake 31 State #2H. 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 Snake 31 State #2H
Company:	Midland - New Mexico	TVD Reference:	WELL @ 4092 30ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 4092 30ft (Original Well Elev)
Site:	Snake 31 State #2H	North Reference:	Grid
Well:	Snake 31 State #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Snake 31 State #2H		
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:	Snake 31 State #2H		
Site Position		Northing:	618,077 10ft
From:	Map	Easting:	376,087 10ft
Position Uncertainty:	0 00 ft	Slot Radius:	"
		Latitude:	32° 41' 54 763 N
		Longitude:	104° 44' 10 109 W
		Grid Convergence:	-0 22 ?

Well	Snake 31 State #2H					
Well Position	+N/-S	0 00 ft	Northing:	618,077 10 ft	Latitude:	32° 41' 54 763 N
	+E/-W	0 00 ft	Easting:	376,087 10 ft	Longitude:	104° 44' 10 109 W
Position Uncertainty	0 00 ft	Wellhead Elevation:	ft	Ground Level:	4,073 30 ft	

Wellbore	Snake 31 State #2H				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(?)	(?)	(nT)
	IGRF2005	3/5/2008	8 53	60 48	49,043

Design	Original Plan			
Audit Notes				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0 00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (?)
	0 00	0 00	0 00	0 16

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	
3,928 00	0 00	0 00	3,928 00	0 00	0 00	0 00	0 00	0 00	0 00	
4,685 12	90 00	0 16	4,410 00	482 00	1 35	11 89	11 89	0 00	0 16	
5,685 12	90 00	0 16	4,410 00	1,481 99	4 14	0 00	0 00	0 00	0 00	
5,751 83	92 00	0 16	4,408 84	1,548 69	4 32	3 00	3 00	0 00	-0 07	
8,181 15	92 00	0 16	4,324 00	3,976 52	11 00	0 00	0 00	0 00	0 00	
8,181 24	92 00	0 16	4,324 00	3,976 61	11 00	3 00	-1 31	2 70	115 79 BHL (Snake #2H)	

EOG Resources Inc

Planning Report

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Project:	Thames	MD Reference:	WELL @ 4092 30ft (Original Well Elev)
Site:	Snake 31 State #2H	North Reference:	Grid
Well:	Snake 31 State #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Snake 31 State #2H		
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 00	100 00	0 00	0 00	0 00	0 00	0 00	0 00
200 00	0 00	0 00	200 00	0 00	0 00	0 00	0 00	0 00	0 00
300 00	0 00	0 00	300 00	0 00	0 00	0 00	0 00	0 00	0 00
400 00	0 00	0 00	400 00	0 00	0 00	0 00	0 00	0 00	0 00
500 00	0 00	0 00	500 00	0 00	0 00	0 00	0 00	0 00	0 00
600 00	0 00	0 00	600 00	0 00	0 00	0 00	0 00	0 00	0 00
700 00	0 00	0 00	700 00	0 00	0 00	0 00	0 00	0 00	0 00
800 00	0 00	0 00	800 00	0 00	0 00	0 00	0 00	0 00	0 00
900 00	0 00	0 00	900 00	0 00	0 00	0 00	0 00	0 00	0 00
1,000 00	0 00	0 00	1,000 00	0 00	0 00	0 00	0 00	0 00	0 00
1,100 00	0 00	0 00	1,100 00	0 00	0 00	0 00	0 00	0 00	0 00
1,200 00	0 00	0 00	1,200 00	0 00	0 00	0 00	0 00	0 00	0 00
1,300 00	0 00	0 00	1,300 00	0 00	0 00	0 00	0 00	0 00	0 00
1,400 00	0 00	0 00	1,400 00	0 00	0 00	0 00	0 00	0 00	0 00
1,500 00	0 00	0 00	1,500 00	0 00	0 00	0 00	0 00	0 00	0 00
1,600 00	0 00	0 00	1,600 00	0 00	0 00	0 00	0 00	0 00	0 00
1,700 00	0 00	0 00	1,700 00	0 00	0 00	0 00	0 00	0 00	0 00
1,800 00	0 00	0 00	1,800 00	0 00	0 00	0 00	0 00	0 00	0 00
1,900 00	0 00	0 00	1,900 00	0 00	0 00	0 00	0 00	0 00	0 00
2,000 00	0 00	0 00	2,000 00	0 00	0 00	0 00	0 00	0 00	0 00
2,100 00	0 00	0 00	2,100 00	0 00	0 00	0 00	0 00	0 00	0 00
2,200 00	0 00	0 00	2,200 00	0 00	0 00	0 00	0 00	0 00	0 00
2,300 00	0 00	0 00	2,300 00	0 00	0 00	0 00	0 00	0 00	0 00
2,400 00	0 00	0 00	2,400 00	0 00	0 00	0 00	0 00	0 00	0 00
2,500 00	0 00	0 00	2,500 00	0 00	0 00	0 00	0 00	0 00	0 00
2,600 00	0 00	0 00	2,600 00	0 00	0 00	0 00	0 00	0 00	0 00
2,700 00	0 00	0 00	2,700 00	0 00	0 00	0 00	0 00	0 00	0 00
2,800 00	0 00	0 00	2,800 00	0 00	0 00	0 00	0 00	0 00	0 00
2,900 00	0 00	0 00	2,900 00	0 00	0 00	0 00	0 00	0 00	0 00
3,000 00	0 00	0 00	3,000 00	0 00	0 00	0 00	0 00	0 00	0 00
3,100 00	0 00	0 00	3,100 00	0 00	0 00	0 00	0 00	0 00	0 00
3,200 00	0 00	0 00	3,200 00	0 00	0 00	0 00	0 00	0 00	0 00
3,300 00	0 00	0 00	3,300 00	0 00	0 00	0 00	0 00	0 00	0 00
3,400 00	0 00	0 00	3,400 00	0 00	0 00	0 00	0 00	0 00	0 00
3,500 00	0 00	0 00	3,500 00	0 00	0 00	0 00	0 00	0 00	0 00
3,600 00	0 00	0 00	3,600 00	0 00	0 00	0 00	0 00	0 00	0 00
3,700 00	0 00	0 00	3,700 00	0 00	0 00	0 00	0 00	0 00	0 00
3,800 00	0 00	0 00	3,800 00	0 00	0 00	0 00	0 00	0 00	0 00
3,900 00	0 00	0 00	3,900 00	0 00	0 00	0 00	0 00	0 00	0 00
3,928 00	0 00	0 00	3,928 00	0 00	0 00	0 00	0 00	0 00	0 00
4,000 00	8 56	0 16	3,999 73	5 37	0 01	5 37	11 89	11 89	0 00
4,100 00	20 45	0 16	4,096 37	30 36	0 08	30 36	11 89	11 89	0 00
4,200 00	32 33	0 16	4,185 79	74 73	0 21	74 73	11 89	11 89	0 00
4,300 00	44 22	0 16	4,264 15	136 57	0 38	136 57	11 89	11 89	0 00
4,400 00	56 11	0 16	4,328 10	213 22	0 60	213 22	11 89	11 89	0 00
4,500 00	67 99	0 16	4,374 88	301 39	0 84	301 39	11 89	11 89	0 00
4,600 00	79 88	0 16	4,402 50	397 32	1 11	397 32	11 89	11 89	0 00
4,685 12	90 00	0 16	4,410 00	482 00	1 35	482 00	11 89	11 89	0 00
4,700 00	90 00	0 16	4,410 00	496 87	1 39	496 88	0 00	0 00	0 00
4,800 00	90 00	0 16	4,410 00	596 87	1 67	596 88	0 00	0 00	0 00
4,900 00	90 00	0 16	4,410 00	696 87	1 95	696 88	0 00	0 00	0 00
5,000 00	90 00	0 16	4,410 00	796 87	2 23	796 88	0 00	0 00	0 00
5,100 00	90 00	0 16	4,410 00	896 87	2 50	896 88	0 00	0 00	0 00

EOG Resources Inc

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Project:	Thames	MD Reference:	WELL @ 4092 30ft (Original Well Elev)
Site:	Snake 31 State #2H	North Reference:	Grid
Well:	Snake 31 State #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Snake 31 State #2H		
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)
5,200 00	90 00	0 16	4,410 00	996 87	2 78	996 88	0 00	0 00	0 00
5,300 00	90 00	0 16	4,410 00	1,096 87	3 06	1,096 88	0 00	0 00	0 00
5,400 00	90 00	0 16	4,410 00	1,196 87	3 34	1,196 88	0 00	0 00	0 00
5,500 00	90 00	0 16	4,410 00	1,296 87	3 62	1,296 88	0 00	0 00	0 00
5,600 00	90 00	0 16	4,410 00	1,396 87	3 90	1,396 88	0 00	0 00	0 00
5,685 12	90 00	0 16	4,410 00	1,481 99	4 14	1,482 00	0 00	0 00	0 00
5,700 00	90 45	0 16	4,409 94	1,496 87	4 18	1,496 88	3 00	3 00	0 00
5,751 83	92 00	0 16	4,408 84	1,548 69	4 32	1,548 69	3 00	3 00	0 00
5,800 00	92 00	0 16	4,407 15	1,596 83	4 46	1,596 83	0 00	0 00	0 00
5,900 00	92 00	0 16	4,403 66	1,696 77	4 73	1,696 77	0 00	0 00	0 00
6,000 00	92 00	0 16	4,400 17	1,796 70	5 01	1,796 71	0 00	0 00	0 00
6,100 00	92 00	0 16	4,396 68	1,896 64	5 28	1,896 65	0 00	0 00	0 00
6,200 00	92 00	0 16	4,393 19	1,996 58	5 56	1,996 59	0 00	0 00	0 00
6,300 00	92 00	0 16	4,389 69	2,096 52	5 83	2,096 53	0 00	0 00	0 00
6,400 00	92 00	0 16	4,386 20	2,196 46	6 10	2,196 47	0 00	0 00	0 00
6,500 00	92 00	0 16	4,382 71	2,296 40	6 38	2,296 41	0 00	0 00	0 00
6,600 00	92 00	0 16	4,379 22	2,396 34	6 65	2,396 35	0 00	0 00	0 00
6,700 00	92 00	0 16	4,375 73	2,496 27	6 93	2,496 28	0 00	0 00	0 00
6,800 00	92 00	0 16	4,372 23	2,596 21	7 20	2,596 22	0 00	0 00	0 00
6,900 00	92 00	0 16	4,368 74	2,696 15	7 48	2,696 16	0 00	0 00	0 00
7,000 00	92 00	0 16	4,365 25	2,796 09	7 75	2,796 10	0 00	0 00	0 00
7,100 00	92 00	0 16	4,361 76	2,896 03	8 03	2,896 04	0 00	0 00	0 00
7,200 00	92 00	0 16	4,358 27	2,995 97	8 30	2,995 98	0 00	0 00	0 00
7,300 00	92 00	0 16	4,354 77	3,095 91	8 58	3,095 92	0 00	0 00	0 00
7,400 00	92 00	0 16	4,351 28	3,195 85	8 85	3,195 86	0 00	0 00	0 00
7,500 00	92 00	0 16	4,347 79	3,295 78	9 13	3,295 80	0 00	0 00	0 00
7,600 00	92 00	0 16	4,344 30	3,395 72	9 40	3,395 74	0 00	0 00	0 00
7,700 00	92 00	0 16	4,340 81	3,495 66	9 68	3,495 67	0 00	0 00	0 00
7,800 00	92 00	0 16	4,337 31	3,595 60	9 95	3,595 61	0 00	0 00	0 00
7,900 00	92 00	0 16	4,333 82	3,695 54	10 23	3,695 55	0 00	0 00	0 00
8,000 00	92 00	0 16	4,330 33	3,795 48	10 50	3,795 49	0 00	0 00	0 00
8,100 00	92 00	0 16	4,326 84	3,895 42	10 78	3,895 43	0 00	0 00	0 00
8,181 15	92 00	0 16	4,324 00	3,976 52	11 00	3,976 53	0 00	0 00	0 00
8,181 24	92 00	0 16	4,324 00	3,976 61	11 00	3,976 62	3 00	-1 31	2 70
BHL (Snake #2H)									

Targets									
Target Name	- hit/miss target	Dip Angle (?)	Dip Dir. (?)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude Longitude
BHL (Snake #2H)	- plan hits target center	0 00	0 00	4,324 00	3,976 61	11 00	622,053 70	376,098 10	32° 42' 34 113 N 104° 44' 10 157 W
- Point									

WELL DETAILS Snake 31 State #2H

			Ground Level	4073 30		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0 00	0 00	618077 10	376087 10	32° 41' 54 763 N104° 44' 10 109 W		

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFac	Target	Sec
1	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00	0 00	
2	3928 00	0 00	0 00	3928 00	0 00	0 00	0 00	0 00	0.00	
3	4685 12	90 00	0 16	4410.00	482 00	1.35	11 89	0 16	482 00	
4	5685.12	90 00	0.16	4410.00	1481 99	4 14	0 00	0 00	1482 00	
5	5751 83	92 00	0 16	4408 84	1548 69	4 32	3 00	-0.07	1548.69	
6	8181.15	92 00	0 16	4324.00	3976 52	11.00	0 00	0.00	3976 53	
7	8181 24	92 00	0 16	4324.00	3976.61	11 00	3 00	0.00	3976.62	

