

District II
1301 W. Grand Ave., Artesia, NM 88210
Phone (505) 748-1283 Fax (505) 748-9720

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

Form C-101
Permit 70453

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702		2. OGRID Number 7377
4. Property Code 37011		3. API Number 30-015-36166
5. Property Name PEMBINA A 33 STATE		6. Well No 002H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	33	18S	23E	H	1830	N	360	E	EDDY

8. Pool Information

FOUR MILE DRAW; WOLFCAMP(G)	97415
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Additional Well Information

9. Work Type New Well	10. Well Type GAS	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3937
14. Multiple N	15. Proposed Depth 5100	16. Formation Wolfcamp	17. Contractor	18. Spud Date
Depth to Ground water 350		Distance from nearest fresh water well > 1000		Distance to nearest surface water 600
Pit: Liner Synthetic ☒ 12 _____ mils thick Clay ☐ Pit Volume: 10300 bbls Drilling Method: Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐ Closed Loop System ☐				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	32	1200	745	0
Prod	7.875	5.5	17	8669	1375	0

Casing/Cement Program: Additional Comments

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Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
 I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed Name: Electronically filed by Donny Glanton

Title: Sr. Lease Operations Rep

Email Address: donny_glanton@eogresources.com

Date: 2/29/2008

Phone: 432-686-3642

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., 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 and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
Permit 70453**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-36166	2. Pool Code 97415	3. Pool Name FOUR MILE DRAW; WOLFCAMP(G)
4. Property Code 37011	5. Property Name PEMBINA A 33 STATE	6. Well No. 002H
7. OGRID No 7377	8. Operator Name EOG RESOURCES INC	9. Elevation 3937

10. Surface Location

UL - Lot H	Section 33	Township 18S	Range 23E	Lot Idn	Feet From 1830	N/S Line N	Feet From 360	E/W Line E	County EDDY
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11. Bottom Hole Location If Different From Surface

UL - Lot E	Section 33	Township 18S	Range 23E	Lot Idn	Feet From 1880	N/S Line N	Feet From 660	E/W Line W	County EDDY
12. Dedicated Acres 320.00		13. Joint or Infill		14. Consolidation Code		15. 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>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(s) 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.</i> E-Signed By: Donny Glanton Title: Sr. Lease Operations Rep Date: 2/29/2008		
	SURVEYOR CERTIFICATION <i>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.</i> Surveyed By: Terry Asel Date of Survey: 1/15/2008 Certificate Number: 15079		

Permit Conditions of Approval

Operator: EOG RESOURCES INC , 7377

Well: PEMBINA A 33 STATE #002H

API: 30-015-36166

OCD. Reviewer	Condition
kmwilson	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D Rule 19 15 2.50, and the Pit and Below-Grade Tank Guidelines
kmwilson	Will require a directional survey with the C-104
kmwilson	Please notify OCD time of spud and time to witness the cementing and all casing strings.
kmwilson	Operator must use fresh water mud when drilling surface location

Permit Comments

Operator: EOG RESOURCES INC , 7377

Well: PEMBINA A 33 STATE #002H

API:

Created By	Comment	Comment Date
dglanton	Plat, Detailed Casing, Mud, Cement, Drilling Plan and H2S letter will be forwarded via regular mail	2/29/2008

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
MAR 04 2008
OCD-ARTESIA AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36166	Pool Code 97415	Pool Name Four Mile Draw; Wolfcamp (G)
Property Code 37011	Property Name PEMBINA "A" 33 STATE	Well Number 2H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3937'

Surface Location

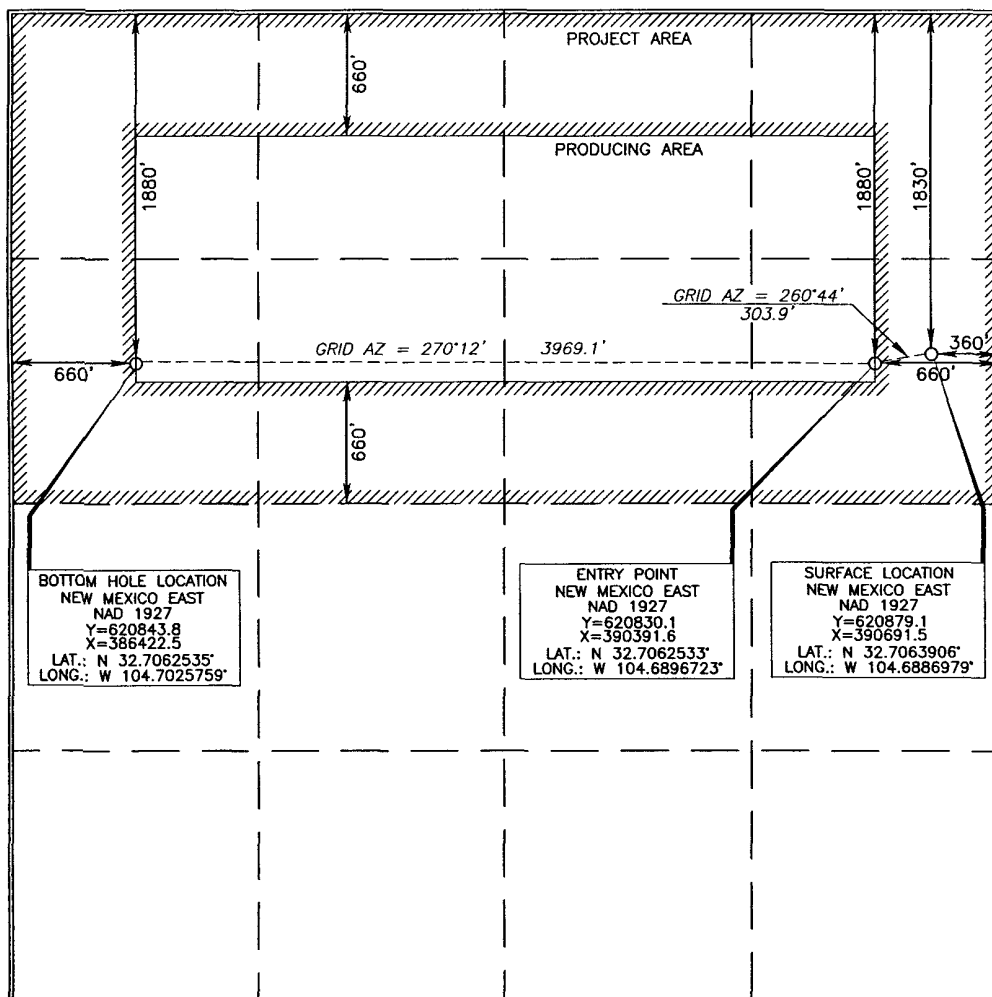
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	33	18 SOUTH	23 EAST, N.M.P.M.		1830	NORTH	360	EAST	EDDY

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
E	33	18 SOUTH	23 EAST, N.M.P.M.		1880	NORTH	660	WEST	EDDY

Dedicated Acres 320	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.

Don S. Mott 2/29/2008
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.

Terry J. Glanton 2/4/2008
Date of Survey
Signature and Seal of Professional Land Surveyor
Certificate Number 15079

WO# 080115WL-b (KA)

Permit Information:

Well Name: Pembina A 33 State #2H

Location:

SL 1830' FNL & 360' FEL, Section 33, T-18-S, R-23-E, Eddy Co., N.M.

BHL 1880' FNL & 660' FWL, Section 33, 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	8,669'	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
8,669'	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' – 4,300'	Cut Brine	8.8-9.2	28-34	N/c
4,300' – 5,000'	Cut Brine	8.8-9.2	28-34	10-15
4,123' – 8,669'	Polymer (Lateral)	9.0-9.4	40-45	10-25

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Pembina A 33 State #2H
Company:	Midland - New Mexico	TVD Reference:	WELL @ 3956.00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3956.00ft (Original Well Elev)
Site:	Pembina A 33 State #2H	North Reference:	Grid
Well:	Pembina A 33 State #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pembina A 33 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:	Pembina A 33 State #2H		
Site Position:		Northing:	620,879.10 ft
From:	Map	Easting:	390,691.50 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 42' 23.007 N
		Longitude:	104° 41' 19.312 W
		Grid Convergence:	-0.19 ?

Well	Pembina A 33 State #2H					
Well Position	+N/-S	0.00 ft	Northing:	620,879.10 ft	Latitude:	32° 42' 23.007 N
	+E/-W	0.00 ft	Easting:	390,691.50 ft	Longitude:	104° 41' 19.312 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,937.00 ft	

Wellbore	Pembina A 33 State #2H				
Magnetics	Model Name	Sample Date	Declination (?)	Dip Angle (?)	Field Strength (nT)
	IGRF2005	2/28/2008	8.51	60.49	49,057

Design:	Original Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(?)
	4,509.00	0.00	0.00	269.53

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	
4,123.00	0.00	0.00	4,123.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,880.12	90.00	269.52	4,605.00	-4.04	-481.98	11.89	11.89	0.00	269.52	
5,880.12	90.00	269.52	4,605.00	-12.42	-1,481.95	0.00	0.00	0.00	0.00	
5,946.67	92.00	269.53	4,603.84	-12.97	-1,548.47	3.00	3.00	0.01	0.28	
8,668.82	92.00	269.53	4,509.00	-35.30	-4,268.88	0.00	0.00	0.00	0.00	
8,668.94	92.00	269.53	4,509.00	-35.30	-4,269.01	3.00	2.76	0.26	5.43 BHL (Pembina #2H)	

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Pembina A 33 State #2H
Company:	Midland - New Mexico	TVD Reference:	WELL @ 3956 00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3956.00ft (Original Well Elev)
Site:	Pembina A 33 State #2H	North Reference:	Grid
Well:	Pembina A 33 State #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pembina A 33 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
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,123.00	0.00	0.00	4,123.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	9.15	269.52	4,199.67	-0.05	-6.14	6.14	11.89	11.89	0.00
4,300.00	21.04	269.52	4,296.05	-0.27	-32.13	32.14	11.89	11.89	0.00
4,400.00	32.93	269.52	4,385.00	-0.65	-77.43	77.43	11.89	11.89	0.00
4,500.00	44.81	269.52	4,462.72	-1.17	-140.07	140.07	11.89	11.89	0.00
4,600.00	56.70	269.52	4,525.87	-1.82	-217.37	217.38	11.89	11.89	0.00
4,696.40	68.16	269.52	4,570.41	-2.54	-302.68	302.69	11.89	11.89	0.00
PP (Pembina #2H)									
4,700.00	68.59	269.52	4,571.73	-2.56	-306.03	306.04	11.89	11.89	0.00
4,800.00	80.48	269.52	4,598.36	-3.37	-402.23	402.24	11.89	11.89	0.00
4,880.12	90.00	269.52	4,605.00	-4.04	-481.98	482.00	11.89	11.89	0.00

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Pembina A 33 State #2H
Company:	Midland - New Mexico	TVD Reference:	WELL @ 3956 00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3956 00ft (Original Well Elev)
Site:	Pembina A 33 State #2H	North Reference:	Grid
Well:	Pembina A 33 State #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pembina A 33 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)
4,900.00	90.00	269.52	4,605.00	-4.20	-501.86	501.88	0.00	0.00	0.00
5,000.00	90.00	269.52	4,605.00	-5.04	-601.86	601.88	0.00	0.00	0.00
5,100.00	90.00	269.52	4,605.00	-5.88	-701.85	701.88	0.00	0.00	0.00
5,200.00	90.00	269.52	4,605.00	-6.72	-801.85	801.88	0.00	0.00	0.00
5,300.00	90.00	269.52	4,605.00	-7.56	-901.84	901.88	0.00	0.00	0.00
5,400.00	90.00	269.52	4,605.00	-8.39	-1,001.84	1,001.88	0.00	0.00	0.00
5,500.00	90.00	269.52	4,605.00	-9.23	-1,101.84	1,101.88	0.00	0.00	0.00
5,600.00	90.00	269.52	4,605.00	-10.07	-1,201.83	1,201.88	0.00	0.00	0.00
5,700.00	90.00	269.52	4,605.00	-10.91	-1,301.83	1,301.88	0.00	0.00	0.00
5,800.00	90.00	269.52	4,605.00	-11.74	-1,401.83	1,401.88	0.00	0.00	0.00
5,880.12	90.00	269.52	4,605.00	-12.42	-1,481.95	1,482.00	0.00	0.00	0.00
5,900.00	90.60	269.52	4,604.90	-12.58	-1,501.82	1,501.88	3.00	3.00	0.01
5,946.67	92.00	269.53	4,603.84	-12.97	-1,548.47	1,548.53	3.00	3.00	0.01
6,000.00	92.00	269.53	4,601.98	-13.40	-1,601.77	1,601.83	0.00	0.00	0.00
6,100.00	92.00	269.53	4,598.50	-14.23	-1,701.71	1,701.77	0.00	0.00	0.00
6,200.00	92.00	269.53	4,595.01	-15.05	-1,801.65	1,801.71	0.00	0.00	0.00
6,300.00	92.00	269.53	4,591.53	-15.87	-1,901.58	1,901.65	0.00	0.00	0.00
6,400.00	92.00	269.53	4,588.05	-16.69	-2,001.52	2,001.59	0.00	0.00	0.00
6,500.00	92.00	269.53	4,584.56	-17.51	-2,101.45	2,101.53	0.00	0.00	0.00
6,600.00	92.00	269.53	4,581.08	-18.33	-2,201.39	2,201.47	0.00	0.00	0.00
6,700.00	92.00	269.53	4,577.60	-19.15	-2,301.33	2,301.41	0.00	0.00	0.00
6,800.00	92.00	269.53	4,574.11	-19.97	-2,401.26	2,401.34	0.00	0.00	0.00
6,900.00	92.00	269.53	4,570.63	-20.79	-2,501.20	2,501.28	0.00	0.00	0.00
7,000.00	92.00	269.53	4,567.14	-21.61	-2,601.13	2,601.22	0.00	0.00	0.00
7,100.00	92.00	269.53	4,563.66	-22.43	-2,701.07	2,701.16	0.00	0.00	0.00
7,200.00	92.00	269.53	4,560.18	-23.25	-2,801.01	2,801.10	0.00	0.00	0.00
7,300.00	92.00	269.53	4,556.69	-24.07	-2,900.94	2,901.04	0.00	0.00	0.00
7,400.00	92.00	269.53	4,553.21	-24.89	-3,000.88	3,000.98	0.00	0.00	0.00
7,500.00	92.00	269.53	4,549.72	-25.71	-3,100.81	3,100.92	0.00	0.00	0.00
7,600.00	92.00	269.53	4,546.24	-26.53	-3,200.75	3,200.86	0.00	0.00	0.00
7,700.00	92.00	269.53	4,542.76	-27.35	-3,300.69	3,300.80	0.00	0.00	0.00
7,800.00	92.00	269.53	4,539.27	-28.17	-3,400.62	3,400.74	0.00	0.00	0.00
7,900.00	92.00	269.53	4,535.79	-28.99	-3,500.56	3,500.68	0.00	0.00	0.00
8,000.00	92.00	269.53	4,532.31	-29.81	-3,600.49	3,600.62	0.00	0.00	0.00
8,100.00	92.00	269.53	4,528.82	-30.63	-3,700.43	3,700.56	0.00	0.00	0.00
8,200.00	92.00	269.53	4,525.34	-31.45	-3,800.36	3,800.49	0.00	0.00	0.00
8,300.00	92.00	269.53	4,521.85	-32.27	-3,900.30	3,900.43	0.00	0.00	0.00
8,400.00	92.00	269.53	4,518.37	-33.09	-4,000.24	4,000.37	0.00	0.00	0.00
8,500.00	92.00	269.53	4,514.89	-33.91	-4,100.17	4,100.31	0.00	0.00	0.00
8,600.00	92.00	269.53	4,511.40	-34.73	-4,200.11	4,200.25	0.00	0.00	0.00
8,668.82	92.00	269.53	4,509.00	-35.30	-4,268.88	4,269.03	0.00	0.00	0.00
8,668.94	92.00	269.53	4,509.00	-35.30	-4,269.01	4,269.15	2.78	2.76	0.26
BHL (Pembina #2H)									

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Pembina A 33 State #2H
Company:	Midland - New Mexico	TVD Reference:	WELL @ 3956.00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3956 00ft (Original Well Elev)
Site:	Pembina A 33 State #2H	North Reference:	Grid
Well:	Pembina A 33 State #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pembina A 33 State #2H		
Design:	Original Plan		

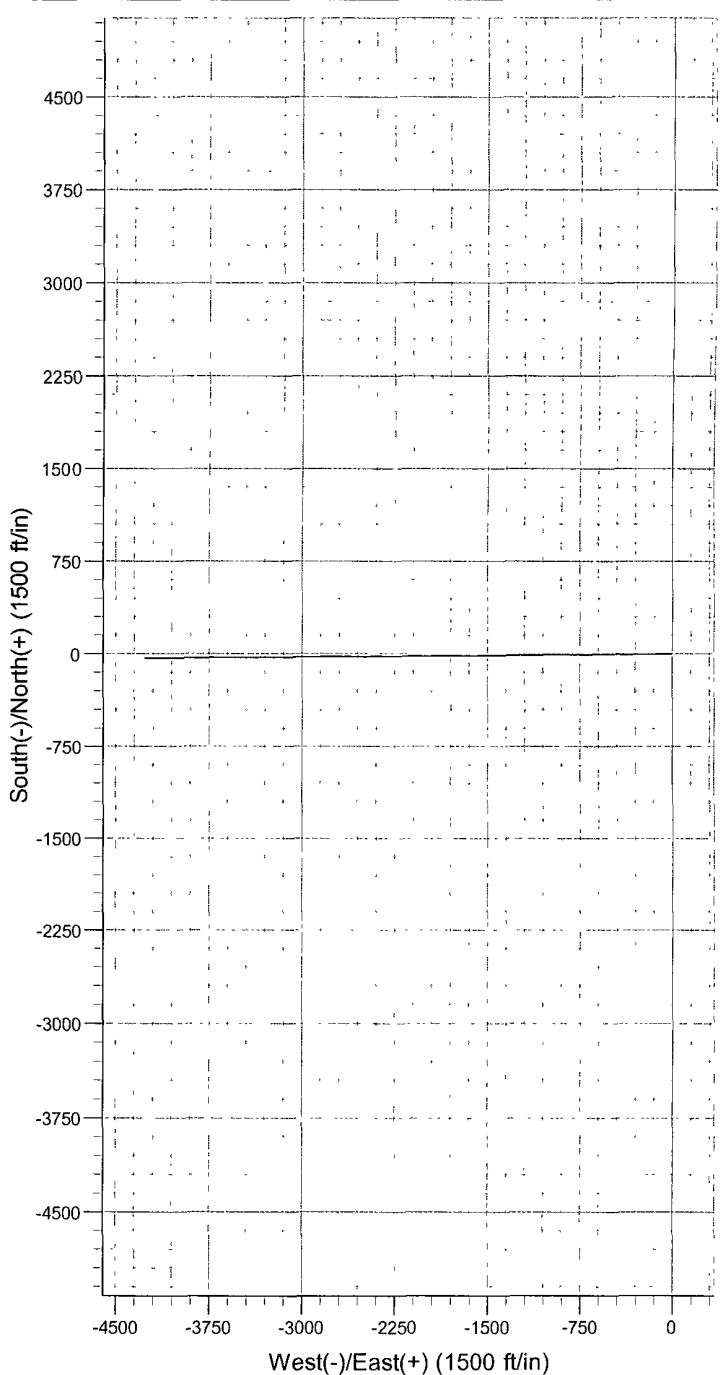
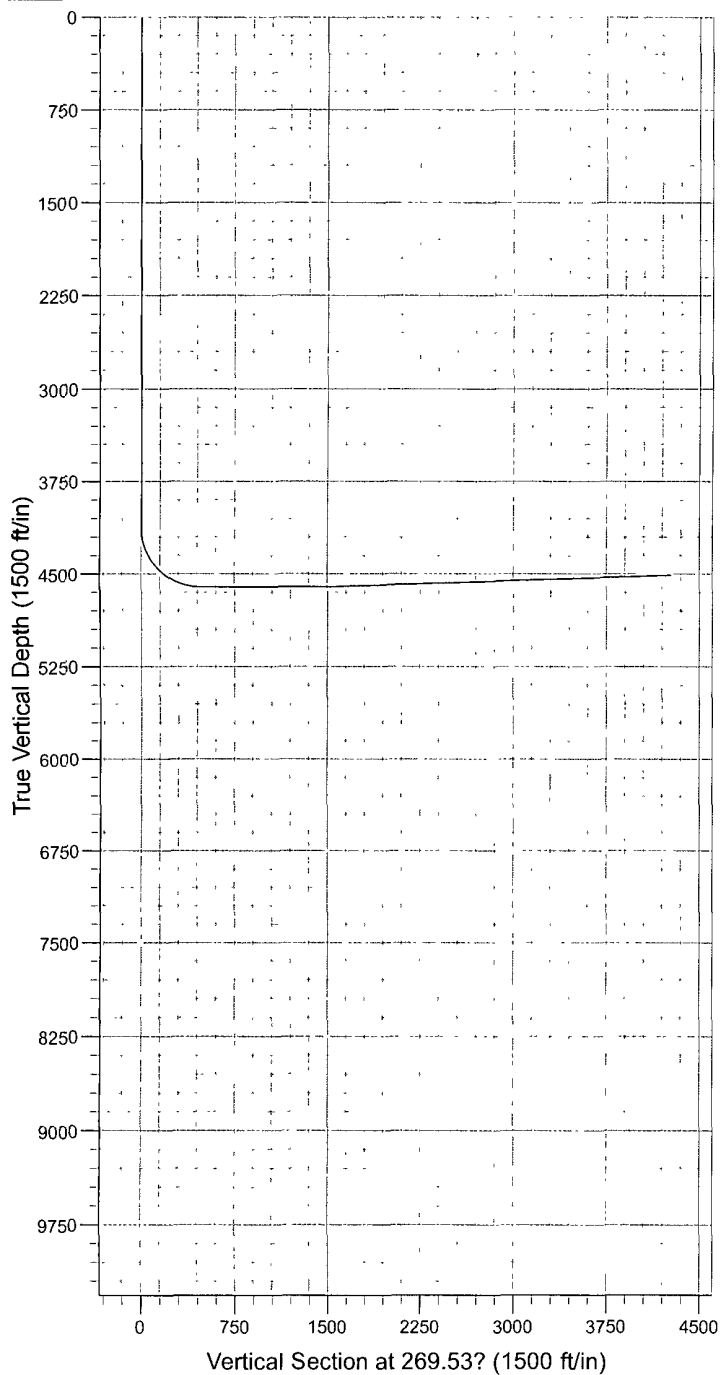
Targets									
Target Name	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(?)	(?)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
PP (Pembina #2H)	0.00	360.00	4,575.00	-49.00	-299.90	620,830 10	390,391 60	32° 42' 22 512 N	104° 41' 22.820 W
- plan misses target center by 46.77ft at 4696.40ft MD (4570.41 TVD, -2.54 N, -302.68 E)									
- Point									
BHL (Pembina #2H)	0.00	360.00	4,509.00	-35.30	-4,269.01	620,843.80	386,422 50	32° 42' 22.513 N	104° 42' 9 273 W
- plan hits target center									
- Point									

WELL DETAILS: Pembina A 33 State #2H

+N/-S	+E/-W	Northing	Ground Level:	3937.00		
0.00	0.00	620879.10	Easting	Latitude	Longitude	Slot
			390691.50	32° 42' 23.007 N	104° 41' 19.312 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	4123.00	0.00	0.00	4123.00	0.00	0.00	0.00	0.00	0.00	
3	4880.12	90.00	269.52	4605.00	-4.04	-481.98	11.89	269.52	482.00	
4	5880.12	90.00	269.52	4605.00	-12.42	-1481.95	0.00	0.00	1482.00	
5	5946.67	92.00	269.53	4603.84	-12.97	-1548.47	3.00	0.28	1548.53	
6	8668.82	92.00	269.53	4509.00	-35.30	-4268.88	0.00	0.00	4269.03	
7	8668.94	92.00	269.53	4509.00	-35.30	-4269.01	0.00	0.00	4269.15	





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

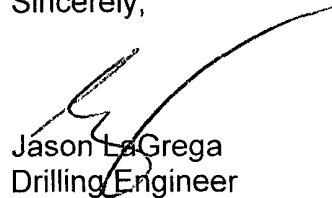
February 29, 2008

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 Pembina A 33 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,

A handwritten signature in black ink, appearing to read "Jason LaGrega", written over the printed name and title.

Jason LaGrega
Drilling Engineer



(432) 686-3642 Office
(432) 770-0602 Cell
Donny_Glanton@eogresources.com

MAR 04 2008
OCD-ARTESIA

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

2/29/2008

OCD-Artesia
1301 W. Grand Avenue
Artesia, NM 88210

Re: PEMBINA A 33 STATE 2H

As per the submittal comments of the C-101 (Electronic Permitting Application) for the above captioned well, please find the following additional information submitted for your review and processing.

- Well Plat
- Detailed Casing
- Mud
- Cement
- Drilling Plan
- H₂S Letter

Should you have any additional questions, please feel to give me a call.

Thanks and best regards.

Very truly yours,

A handwritten signature in black ink, appearing to read "Donny G. Glanton".

Donny G. Glanton
Sr. Lease Operations ROW Representative