



(432) 686-3642 Office
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EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3600

September 25, 2006

OCD-Artesia
Att: Mr. Bryan Arrent
1301 W. Grand Avenue
Artesia, NM 88210



Re: MERAMEC C 4 FEE 2H

Dear Mr. Arrent:

30-015-35161

As per the submittal comments of the C-101 (Electronic Permitting Application) for the above captioned wells, 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 cursive script, appearing to read "Donny G. Glanton".

Donny G. Glanton
Sr. ROW Lease Operations Representative

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 - 2 Copies
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 75250	Pool Name COTTONWOOD CREEK; WOLFCAMP (Gas)
Property Code 36046	Property Name MERAMEC C "4" FEE	Well Number 2H
OGRIID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3467'

Surface Location

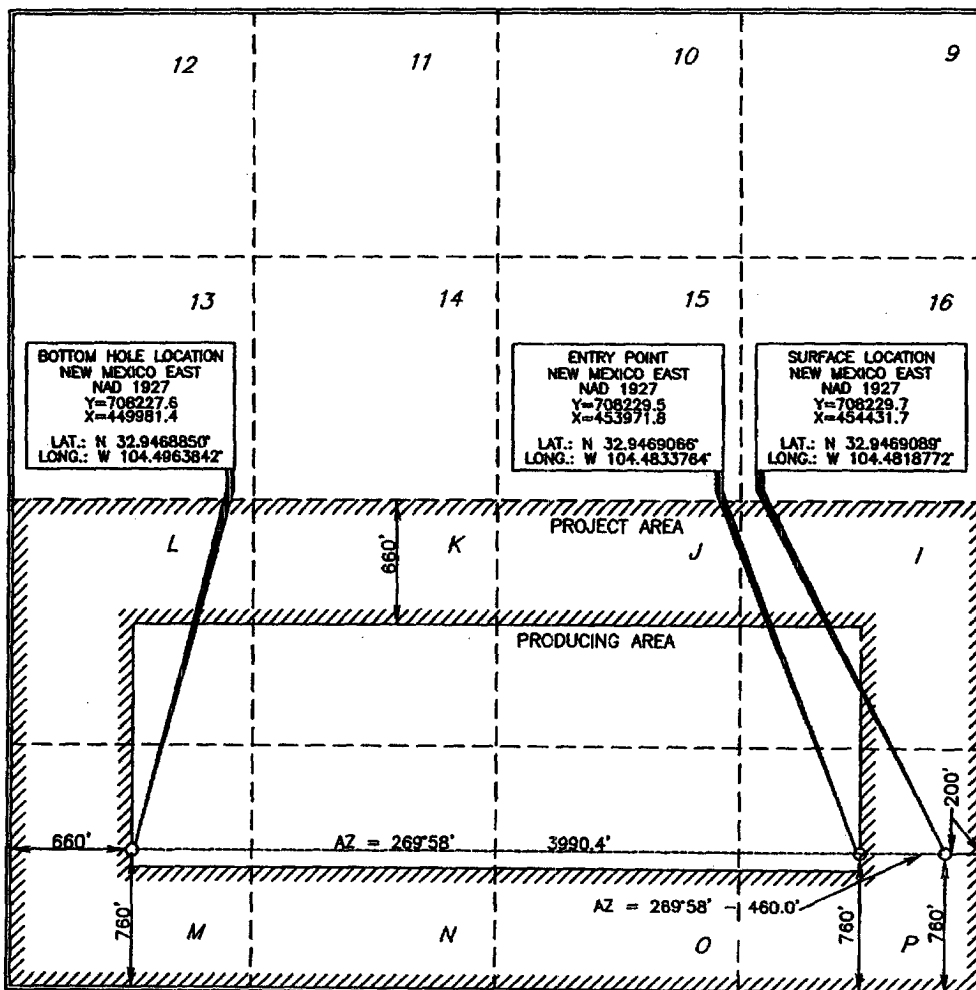
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	4	16 SOUTH	25 EAST, N.M.P.M.		760	SOUTH	200	EAST	EDDY

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
M	4	16 SOUTH	25 EAST, N.M.P.M.		760	SOUTH	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.

Donny G. Glanton 9/25/06
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 or actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

SEPTEMBER 19, 2006
Date of Survey
Signature and Seal of Professional Surveyor
Terry J. Asch 9/21/2006
Certificate Number 15079

WOL 060919WL_B (LA)



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



September 22, 2006

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 Meramec C 4 Fee #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".

Jason LaGrega
Drilling Engineer

Permit Information:

Well Name: Meramec C 4 Fee #2H

Location:

SL 760' FSL & 200' FEL, Section 4, T-16-S, R-25-E, Eddy Co., N.M.

BHL 760' FSL & 660' FWL, Section 4, T-16-S, R-25-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	900' 950'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	9,061'	7-7/8"	5 1/2"	17#	N-80	Surface

Cement Program:

Depth	No. Sacks	Slurries:
900' 950'	150	Lead: Premium Plus + 2% CaCl ₂ + 3% Econolite + 1/4 pps Flocele
	175	Tail: Premium Plus + 2% CaCl ₂ + 1/4 pps Flocele
9,061'	400	Lead: Interfill C + 1/4 pps Flocele
	300	Tail: Premium Cement + 100% Acid Soluble Additive + 0.6% Halad®-344 + 0.8% Econolite + 0.2% HR-55

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 900' 950'	Fresh - Gel	8.6-8.8	55-65	N/C
900' – 4,400'	Cut Brine	8.8-9.2	28-34	N/C
4,400' – 5,100'	Cut Brine	8.8-9.2	28-34	10-15
4,600' – 9,061'	Polymer (Lateral)	9.0-9.4	40-45	10-20

EOG - Midland (3)

Thames

Meramec C 4 Fee #2H

Meramec C 4 Fee #2H

Meramec C 4 Fee #2H

Plan: Plan #1

Standard Planning Report

22 September, 2006

EOG RESOURCES INC.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Meramec C 4 Fee #2H
Company:	EOG - Midland (3)	TVD Reference:	WELL @ 3485.00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3485.00ft (Original Well Elev)
Site:	Meramec C 4 Fee #2H	North Reference:	Grid
Well:	Meramec C 4 Fee #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Meramec C 4 Fee #2H		
Design:	Plan #1		

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	Meramec C 4 Fee #2H		
Site Position:		Northing:	708,229.70 ft
From:	Map	Easting:	454,431.70 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 56' 48.872 N
		Longitude:	104° 28' 54.757 W
		Grid Convergence:	-0.08 °

Well	Meramec C 4 Fee #2H		
Well Position	+N/-S	0.00 ft	Northing: 708,229.70 ft
	+E/-W	0.00 ft	Easting: 454,431.70 ft
Position Uncertainty		0.00 ft	Wellhead Elevation: ft
			Latitude: 32° 56' 48.872 N
			Longitude: 104° 28' 54.757 W
			Ground Level: 3,467.00 ft

Wellbore	Meramec C 4 Fee #2H		
Magnetics	Model Name	Sample Date	Declination
	IGRF2005	9/22/2006	(°)
			8.60
			Dip Angle
			(°)
			60.79
			Field Strength
			(nT)
			49,378

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	4,720.00	0.00	0.00
			Direction
			(°)
			269.97

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(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	
4,330.00	0.00	0.00	4,330.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,099.69	90.00	269.98	4,820.00	-0.17	-490.00	11.69	11.69	0.00	269.98	
6,609.69	90.00	269.98	4,820.00	-0.70	-2,000.00	0.00	0.00	0.00	0.00	
6,676.44	92.00	269.97	4,818.83	-0.73	-2,066.73	3.00	3.00	-0.02	-0.37	
9,061.21	92.00	269.97	4,735.51	-2.10	-4,450.05	0.00	0.00	0.00	0.00	
9,061.46	92.00	269.96	4,735.50	-2.10	-4,450.30	3.00	-0.95	-2.85	-108.44	

EOG RESOURCES INC.

Planning Report

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Company:	EOG - Midland (3)	TVD Reference:	WELL @ 3485.00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3485.00ft (Original Well Elev)
Site:	Meramec C 4 Fee #2H	North Reference:	Grid
Well:	Meramec C 4 Fee #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Meramec C 4 Fee #2H		
Design:	Plan #1		

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
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,330.00	0.00	0.00	4,330.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	8.19	269.98	4,399.76	0.00	-4.99	4.99	11.69	11.69	0.00
4,500.00	19.88	269.98	4,496.61	-0.01	-29.20	29.20	11.69	11.69	0.00
4,600.00	31.57	269.98	4,586.54	-0.03	-72.52	72.52	11.69	11.69	0.00
4,700.00	43.26	269.98	4,665.83	-0.05	-133.18	133.18	11.69	11.69	0.00
4,800.00	54.96	269.98	4,731.17	-0.07	-208.65	208.65	11.69	11.69	0.00
4,900.00	66.65	269.98	4,779.87	-0.10	-295.79	295.79	11.69	11.69	0.00
5,000.00	78.34	269.98	4,809.89	-0.14	-391.00	391.00	11.69	11.69	0.00
5,099.69	90.00	269.98	4,820.00	-0.17	-490.00	490.00	11.69	11.69	0.00
5,100.00	90.00	269.98	4,820.00	-0.17	-490.31	490.31	0.00	0.00	0.00

EOG RESOURCES INC.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Meramec C 4 Fee #2H
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Well:	Meramec C 4 Fee #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Meramec C 4 Fee #2H		
Design:	Plan #1		

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	269.98	4,820.00	-0.21	-590.31	590.31	0.00	0.00	0.00	
5,300.00	90.00	269.98	4,820.00	-0.24	-690.31	690.31	0.00	0.00	0.00	
5,400.00	90.00	269.98	4,820.00	-0.28	-790.31	790.31	0.00	0.00	0.00	
5,500.00	90.00	269.98	4,820.00	-0.31	-890.31	890.31	0.00	0.00	0.00	
5,600.00	90.00	269.98	4,820.00	-0.35	-990.31	990.31	0.00	0.00	0.00	
5,700.00	90.00	269.98	4,820.00	-0.38	-1,090.31	1,090.31	0.00	0.00	0.00	
5,800.00	90.00	269.98	4,820.00	-0.42	-1,190.31	1,190.31	0.00	0.00	0.00	
5,900.00	90.00	269.98	4,820.00	-0.45	-1,290.31	1,290.31	0.00	0.00	0.00	
6,000.00	90.00	269.98	4,820.00	-0.49	-1,390.31	1,390.31	0.00	0.00	0.00	
6,100.00	90.00	269.98	4,820.00	-0.52	-1,490.31	1,490.31	0.00	0.00	0.00	
6,200.00	90.00	269.98	4,820.00	-0.56	-1,590.31	1,590.31	0.00	0.00	0.00	
6,300.00	90.00	269.98	4,820.00	-0.59	-1,690.31	1,690.31	0.00	0.00	0.00	
6,400.00	90.00	269.98	4,820.00	-0.62	-1,790.31	1,790.31	0.00	0.00	0.00	
6,500.00	90.00	269.98	4,820.00	-0.66	-1,890.31	1,890.31	0.00	0.00	0.00	
6,600.00	90.00	269.98	4,820.00	-0.69	-1,990.31	1,990.31	0.00	0.00	0.00	
6,609.69	90.00	269.98	4,820.00	-0.70	-2,000.00	2,000.00	0.00	0.00	0.00	
6,676.44	92.00	269.97	4,818.83	-0.73	-2,066.73	2,066.73	3.00	3.00	-0.02	
6,700.00	92.00	269.97	4,818.01	-0.74	-2,090.28	2,090.28	0.00	0.00	0.00	
6,800.00	92.00	269.97	4,814.52	-0.80	-2,190.22	2,190.22	0.00	0.00	0.00	
6,900.00	92.00	269.97	4,811.02	-0.86	-2,290.16	2,290.16	0.00	0.00	0.00	
7,000.00	92.00	269.97	4,807.53	-0.91	-2,390.10	2,390.10	0.00	0.00	0.00	
7,100.00	92.00	269.97	4,804.03	-0.97	-2,490.04	2,490.04	0.00	0.00	0.00	
7,200.00	92.00	269.97	4,800.54	-1.03	-2,589.98	2,589.98	0.00	0.00	0.00	
7,300.00	92.00	269.97	4,797.05	-1.09	-2,689.92	2,689.92	0.00	0.00	0.00	
7,400.00	92.00	269.97	4,793.55	-1.14	-2,789.85	2,789.85	0.00	0.00	0.00	
7,500.00	92.00	269.97	4,790.06	-1.20	-2,889.79	2,889.79	0.00	0.00	0.00	
7,600.00	92.00	269.97	4,786.56	-1.26	-2,989.73	2,989.73	0.00	0.00	0.00	
7,700.00	92.00	269.97	4,783.07	-1.32	-3,089.67	3,089.67	0.00	0.00	0.00	
7,800.00	92.00	269.97	4,779.58	-1.37	-3,189.61	3,189.61	0.00	0.00	0.00	
7,900.00	92.00	269.97	4,776.08	-1.43	-3,289.55	3,289.55	0.00	0.00	0.00	
8,000.00	92.00	269.97	4,772.59	-1.49	-3,389.49	3,389.49	0.00	0.00	0.00	
8,100.00	92.00	269.97	4,769.09	-1.55	-3,489.43	3,489.43	0.00	0.00	0.00	
8,200.00	92.00	269.97	4,765.60	-1.60	-3,589.37	3,589.37	0.00	0.00	0.00	
8,300.00	92.00	269.97	4,762.11	-1.66	-3,689.30	3,689.30	0.00	0.00	0.00	
8,400.00	92.00	269.97	4,758.61	-1.72	-3,789.24	3,789.24	0.00	0.00	0.00	
8,500.00	92.00	269.97	4,755.12	-1.78	-3,889.18	3,889.18	0.00	0.00	0.00	
8,600.00	92.00	269.97	4,751.62	-1.83	-3,989.12	3,989.12	0.00	0.00	0.00	
8,700.00	92.00	269.97	4,748.13	-1.89	-4,089.06	4,089.06	0.00	0.00	0.00	
8,800.00	92.00	269.97	4,744.64	-1.95	-4,189.00	4,189.00	0.00	0.00	0.00	
8,900.00	92.00	269.97	4,741.14	-2.01	-4,288.94	4,288.94	0.00	0.00	0.00	
9,000.00	92.00	269.97	4,737.65	-2.06	-4,388.88	4,388.88	0.00	0.00	0.00	
9,061.21	92.00	269.97	4,735.51	-2.10	-4,450.05	4,450.05	0.00	0.00	0.00	
9,061.46	92.00	269.96	4,735.50	-2.10	-4,450.30	4,450.30	3.00	-0.95	-2.85	

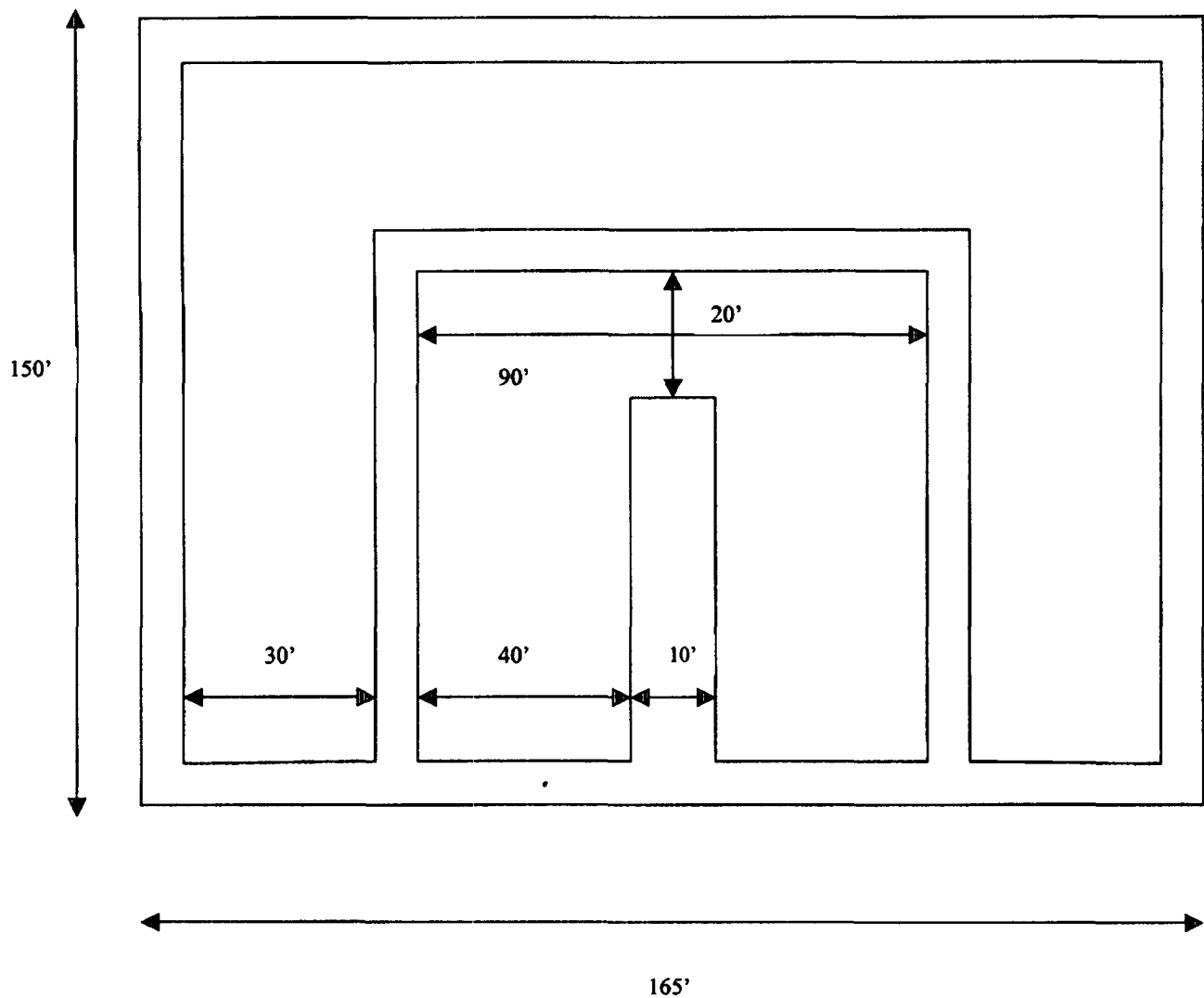
EOG RESOURCES INC.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Meramec C 4 Fee #2H
Company:	EOG - Midland (3)	TVD Reference:	WELL @ 3485.00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3485.00ft (Original Well Elev)
Site:	Meramec C 4 Fee #2H	North Reference:	Grid
Well:	Meramec C 4 Fee #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Meramec C 4 Fee #2H		
Design:	Plan #1		

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									
BHL (Meramec C 4 Fee #2H)	0.00	0.00	4,735.50	-2.10	-4,450.30	708,227.60	449,981.40	32° 56' 48.786 N	104° 29' 46.983 W
- plan hits target									
- Point									

New Mexico Double Horseshoe Reserve Pit Design



Approximate Inside Reserve Volume: 4500 bbls
Approximate Outside Reserve Volume: 5800 bbls