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1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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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 07 2006

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 30-015-34665	Pool Code 75-250	Pool Name Cottonwood Creek; WC, W (Gas)
Property Code	Property Name FRIO A 8 FEE	Well Number 2H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3500'

Surface Location

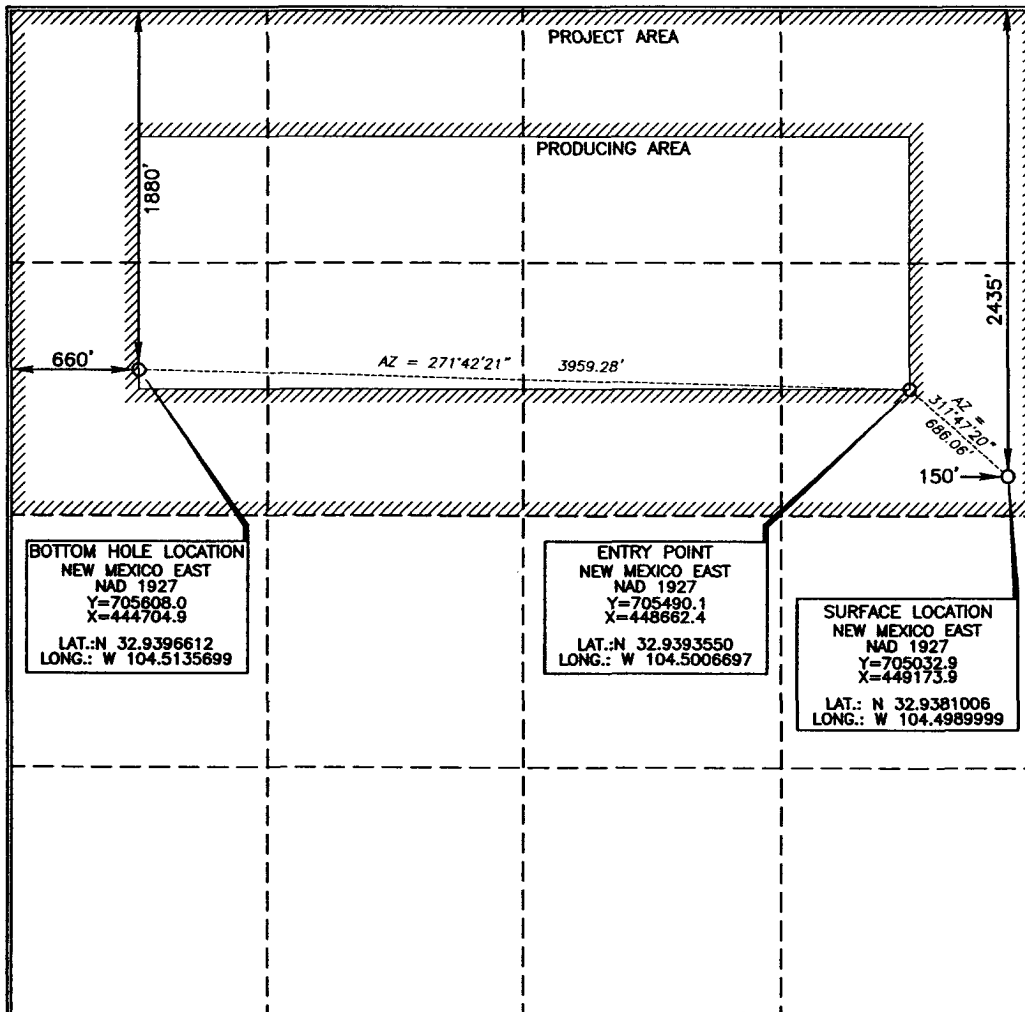
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	8	16 SOUTH	25 EAST, N.M.P.M.		2435	NORTH	150	EAST	EDDY

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	8	16 SOUTH	25 EAST, N.M.P.M.		1880	NORTH	660	WEST	EDDY

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 3-1-06
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 of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

DECEMBER 7, 2005
Date of Survey

Signature and Seal of
Professional Surveyor

Terry J. Asel 12/14/05
Certificate Number 15079

WO# 051122WL-j (cdg)

Permit Information:

Well Name: Frio A 8 Fee #2H

Location:

SL 2345' FNL & 150' FEL, Section 8, T-16-S, R-25-E, Eddy Co., N.M.

BHL 1880' FNL & 660' FWL, Section 8, 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 1000'	900'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	8,981'	7-7/8"	5 1/2"	17#	N-80	Surface

Cement Program:

Depth	No. Sacks	Slurries:
900'	150	Lead: Premium Plus + 2% CaCl ₂ + 3% Econolite + 1/4 pps Flocele
	175	Tail: Premium Plus + 2% CaCl ₂ + 1/4 pps Flocele
8,981'	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' 1000'	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' - 5,100'	Cut Brine	8.8-9.2	28-34	10-15
4,200' - 8,981'	Polymer (Lateral)	9.0-9.4	40-45	10-20



EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(915) 686-3600

March 1, 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 Frio A 8 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,



Jason LaGrega
Drilling Engineer

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Frio A 8 Fee #2H
Company:	EOG - Midland (3)	TVD Reference:	WELL @ 3518.0ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3518.0ft (Original Well Elev)
Site:	Frio A 8 Fee #2H	North Reference:	Grid
Well:	Frio A 8 Fee #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Frio A 8 Fee #2H		
Design:	Plan #1		

Project	Thames		
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	Frio A 8 Fee #2H		
Site Position:		Northing:	705,032.90ft
From:	Map	Easting:	449,173.90ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	32° 56' 17.162 N
		Longitude:	104° 29' 56.400 W
		Grid Convergence:	-0.09 °

Well	Frio A 8 Fee #2H		
Well Position	+N/-S	0.0 ft	Northing: 705,032.90 ft
	+E/-W	0.0 ft	Easting: 449,173.90 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	32° 56' 17.162 N
		Longitude:	104° 29' 56.400 W
		Ground Level:	3,500.0 ft

Wellbore	Frio A 8 Fee #2H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005	3/1/2006	8.67	60.79	49,455

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	4,551.0	0.0	0.0	277.33

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,910.0	0.00	0.00	3,910.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,994.3	90.00	311.00	4,600.3	452.9	-521.0	8.30	8.30	0.00	311.00	
5,456.1	90.75	269.45	4,597.1	609.0	-944.8	9.00	0.16	-9.00	-88.87	
8,980.7	90.75	269.45	4,551.0	575.1	-4,468.9	0.00	0.00	0.00	0.00	
8,980.7	90.75	269.45	4,551.0	575.1	-4,469.0	3.00	-0.33	2.98	96.40	BHL (Frio A #2H)

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Frio A 8 Fee #2H
Company:	EOG - Midland (3)	TVD Reference:	WELL @ 3518.0ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3518.0ft (Original Well Elev)
Site:	Frio A 8 Fee #2H	North Reference:	Grid
Well:	Frio A 8 Fee #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Frio A 8 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,910.0	0.00	0.00	3,910.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	7.47	311.00	3,999.7	3.8	-4.4	4.9	8.30	8.30	0.00
4,100.0	15.77	311.00	4,097.6	17.0	-19.6	21.6	8.30	8.30	0.00
4,200.0	24.07	311.00	4,191.5	39.4	-45.3	50.0	8.30	8.30	0.00
4,300.0	32.37	311.00	4,279.6	70.4	-81.0	89.3	8.30	8.30	0.00
4,400.0	40.67	311.00	4,359.9	109.4	-125.8	138.8	8.30	8.30	0.00
4,500.0	48.97	311.00	4,430.7	155.6	-179.0	197.4	8.30	8.30	0.00
4,600.0	57.27	311.00	4,490.7	208.0	-239.3	263.9	8.30	8.30	0.00
4,700.0	65.57	311.00	4,538.5	265.6	-305.5	336.9	8.30	8.30	0.00
4,800.0	73.87	311.00	4,573.1	327.1	-376.2	414.9	8.30	8.30	0.00
4,900.0	82.17	311.00	4,593.9	391.2	-450.0	496.3	8.30	8.30	0.00
4,994.3	90.00	311.00	4,600.3	452.9	-521.0	574.5	8.30	8.30	0.00
5,000.0	90.01	310.49	4,600.3	456.6	-525.3	579.3	9.00	0.18	-9.00
5,100.0	90.19	301.49	4,600.1	515.3	-606.1	666.9	9.00	0.18	-9.00

Planning Report

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Well:	Frio A 8 Fee #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Frio A 8 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)
5,200.0	90.36	292.49	4,599.7	560.6	-695.1	761.0	9.00	0.17	-9.00
5,300.0	90.52	283.49	4,598.9	591.5	-790.1	859.2	9.00	0.16	-9.00
5,400.0	90.67	274.50	4,597.8	607.1	-888.8	959.0	9.00	0.15	-9.00
5,456.1	90.75	269.45	4,597.1	609.0	-944.8	1,014.8	9.00	0.14	-9.00
5,500.0	90.75	269.45	4,596.6	608.6	-988.7	1,058.3	0.00	0.00	0.00
5,600.0	90.75	269.45	4,595.3	607.6	-1,088.7	1,157.4	0.00	0.00	0.00
5,700.0	90.75	269.45	4,594.0	606.7	-1,188.7	1,256.4	0.00	0.00	0.00
5,800.0	90.75	269.45	4,592.6	605.7	-1,288.7	1,355.5	0.00	0.00	0.00
5,900.0	90.75	269.45	4,591.3	604.8	-1,388.7	1,454.5	0.00	0.00	0.00
6,000.0	90.75	269.45	4,590.0	603.8	-1,488.7	1,553.5	0.00	0.00	0.00
6,100.0	90.75	269.45	4,588.7	602.8	-1,588.6	1,652.6	0.00	0.00	0.00
6,200.0	90.75	269.45	4,587.4	601.9	-1,688.6	1,751.6	0.00	0.00	0.00
6,300.0	90.75	269.45	4,586.1	600.9	-1,788.6	1,850.7	0.00	0.00	0.00
6,400.0	90.75	269.45	4,584.8	599.9	-1,888.6	1,949.7	0.00	0.00	0.00
6,500.0	90.75	269.45	4,583.5	599.0	-1,988.6	2,048.8	0.00	0.00	0.00
6,600.0	90.75	269.45	4,582.2	598.0	-2,088.6	2,147.8	0.00	0.00	0.00
6,700.0	90.75	269.45	4,580.9	597.1	-2,188.6	2,246.9	0.00	0.00	0.00
6,800.0	90.75	269.45	4,579.6	596.1	-2,288.6	2,345.9	0.00	0.00	0.00
6,900.0	90.75	269.45	4,578.2	595.1	-2,388.5	2,445.0	0.00	0.00	0.00
7,000.0	90.75	269.45	4,576.9	594.2	-2,488.5	2,544.0	0.00	0.00	0.00
7,100.0	90.75	269.45	4,575.6	593.2	-2,588.5	2,643.1	0.00	0.00	0.00
7,200.0	90.75	269.45	4,574.3	592.2	-2,688.5	2,742.1	0.00	0.00	0.00
7,300.0	90.75	269.45	4,573.0	591.3	-2,788.5	2,841.1	0.00	0.00	0.00
7,400.0	90.75	269.45	4,571.7	590.3	-2,888.5	2,940.2	0.00	0.00	0.00
7,500.0	90.75	269.45	4,570.4	589.4	-2,988.5	3,039.2	0.00	0.00	0.00
7,600.0	90.75	269.45	4,569.1	588.4	-3,088.4	3,138.3	0.00	0.00	0.00
7,700.0	90.75	269.45	4,567.8	587.4	-3,188.4	3,237.3	0.00	0.00	0.00
7,800.0	90.75	269.45	4,566.5	586.5	-3,288.4	3,336.4	0.00	0.00	0.00
7,900.0	90.75	269.45	4,565.1	585.5	-3,388.4	3,435.4	0.00	0.00	0.00
8,000.0	90.75	269.45	4,563.8	584.5	-3,488.4	3,534.5	0.00	0.00	0.00
8,100.0	90.75	269.45	4,562.5	583.6	-3,588.4	3,633.5	0.00	0.00	0.00
8,200.0	90.75	269.45	4,561.2	582.6	-3,688.4	3,732.6	0.00	0.00	0.00
8,300.0	90.75	269.45	4,559.9	581.7	-3,788.4	3,831.6	0.00	0.00	0.00
8,400.0	90.75	269.45	4,558.6	580.7	-3,888.3	3,930.7	0.00	0.00	0.00
8,500.0	90.75	269.45	4,557.3	579.7	-3,988.3	4,029.7	0.00	0.00	0.00
8,600.0	90.75	269.45	4,556.0	578.8	-4,088.3	4,128.7	0.00	0.00	0.00
8,700.0	90.75	269.45	4,554.7	577.8	-4,188.3	4,227.8	0.00	0.00	0.00
8,800.0	90.75	269.45	4,553.4	576.8	-4,288.3	4,326.8	0.00	0.00	0.00
8,900.0	90.75	269.45	4,552.1	575.9	-4,388.3	4,425.9	0.00	0.00	0.00
8,980.7	90.75	269.45	4,551.0	575.1	-4,469.0	4,505.9	0.00	0.00	0.00

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
BHL (Frio A #2H) - plan hits target - Point	0.00	0.00	4,551.0	575.1	-4,469.0	705,608.00	444,704.90	32° 56' 22.780 N	104° 30' 48.851 W

SITE DETAILS: Frio A 8 Fee #2H

Site Centre Northing: 705032.90
Easting: 449173.90

Positional Uncertainty: 0.0
Convergence: -0.09
Local North: Grid

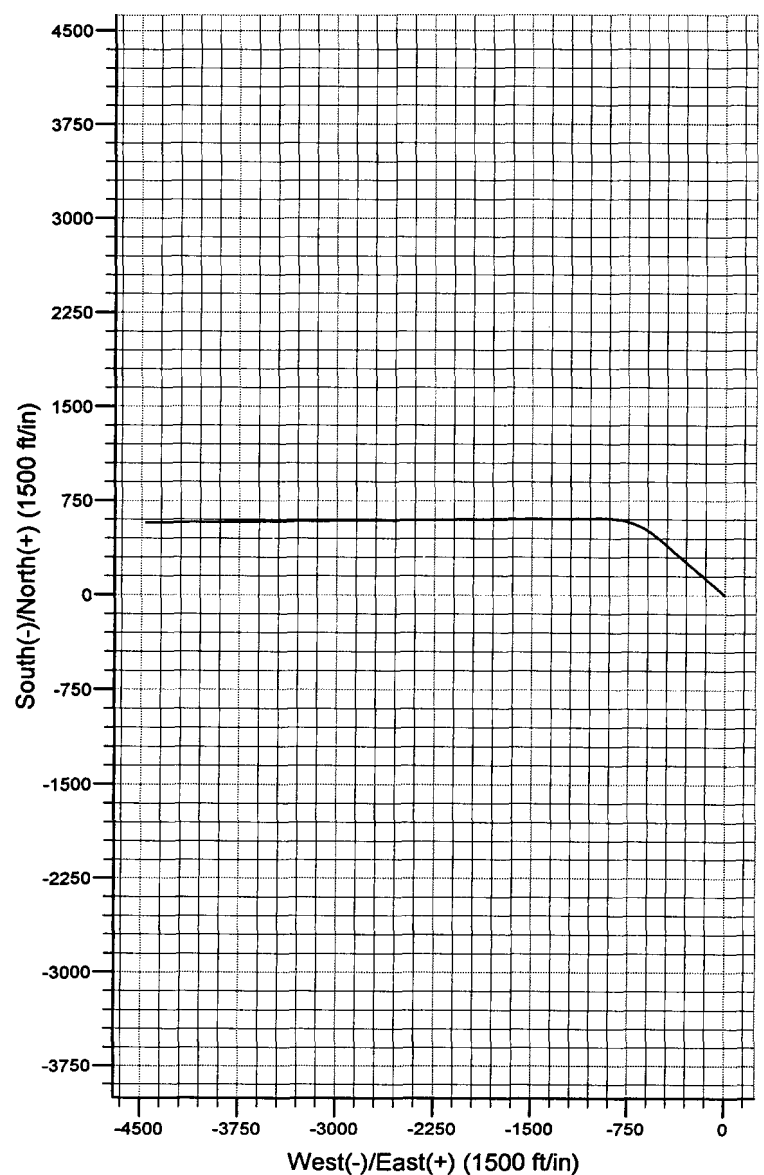
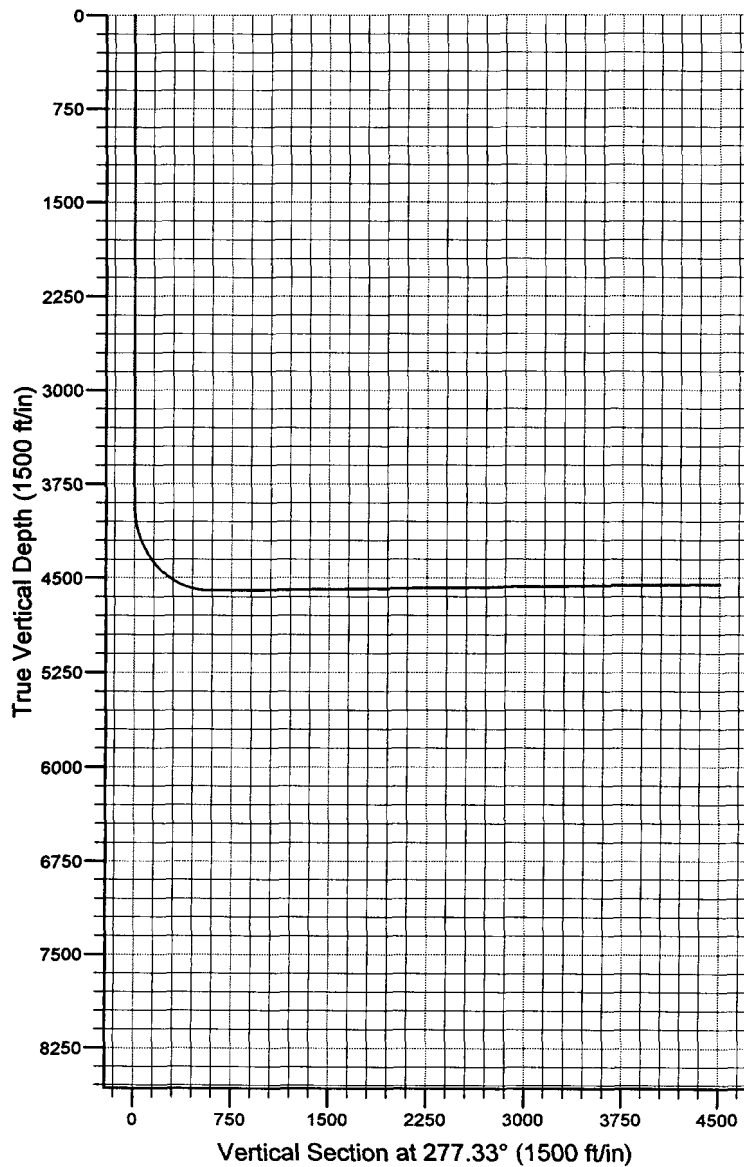
PROJECT DETAILS: Thames

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001

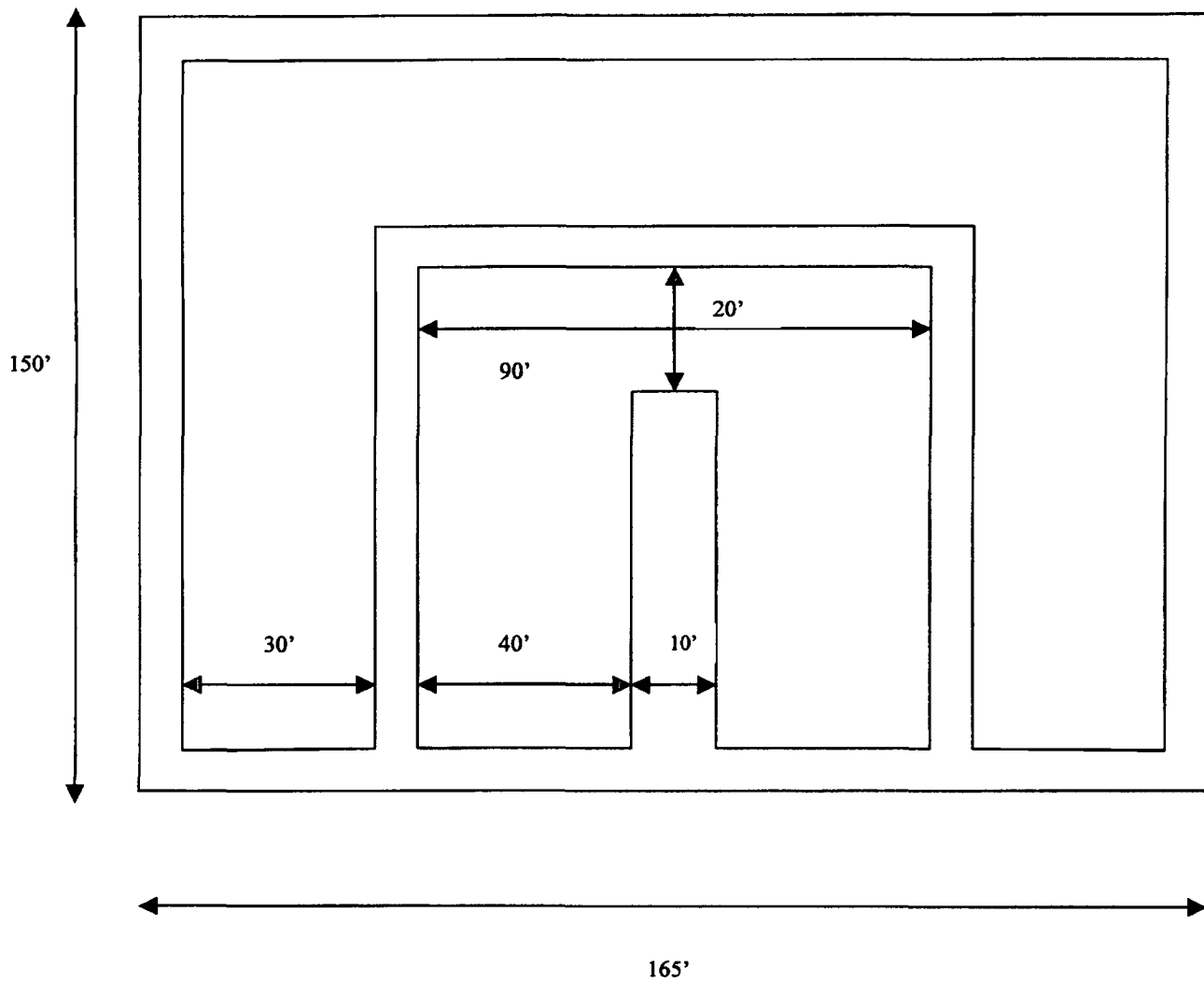
System Datum: Mean Sea Level

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
3910.0	0.00	0.00	3910.0	0.0	0.0	0.00	0.00	0.0	
4994.3	90.00	311.00	4600.3	452.9	-521.0	8.30	311.00	574.5	
5456.1	90.75	269.45	4597.1	609.0	-944.8	9.00	-88.87	1014.8	
8980.7	90.75	269.45	4551.0	575.1	-4468.9	0.00	0.00	4505.8	
8980.7	90.75	269.45	4551.0	575.1	-4469.0	3.00	96.40	4505.9	BHL (Frio A #2H)



New Mexico Double Horseshoe Reserve Pit Design



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