

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

OCT 23 2007
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 30-015-35885	Pool Code 97553	Pool Name Four Mile Draw; Wolfcamp SW (G)
Property Code	Property Name YELLOWSTONE 23 STATE COM	Well Number 3H
OCRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 4137'

Surface Location

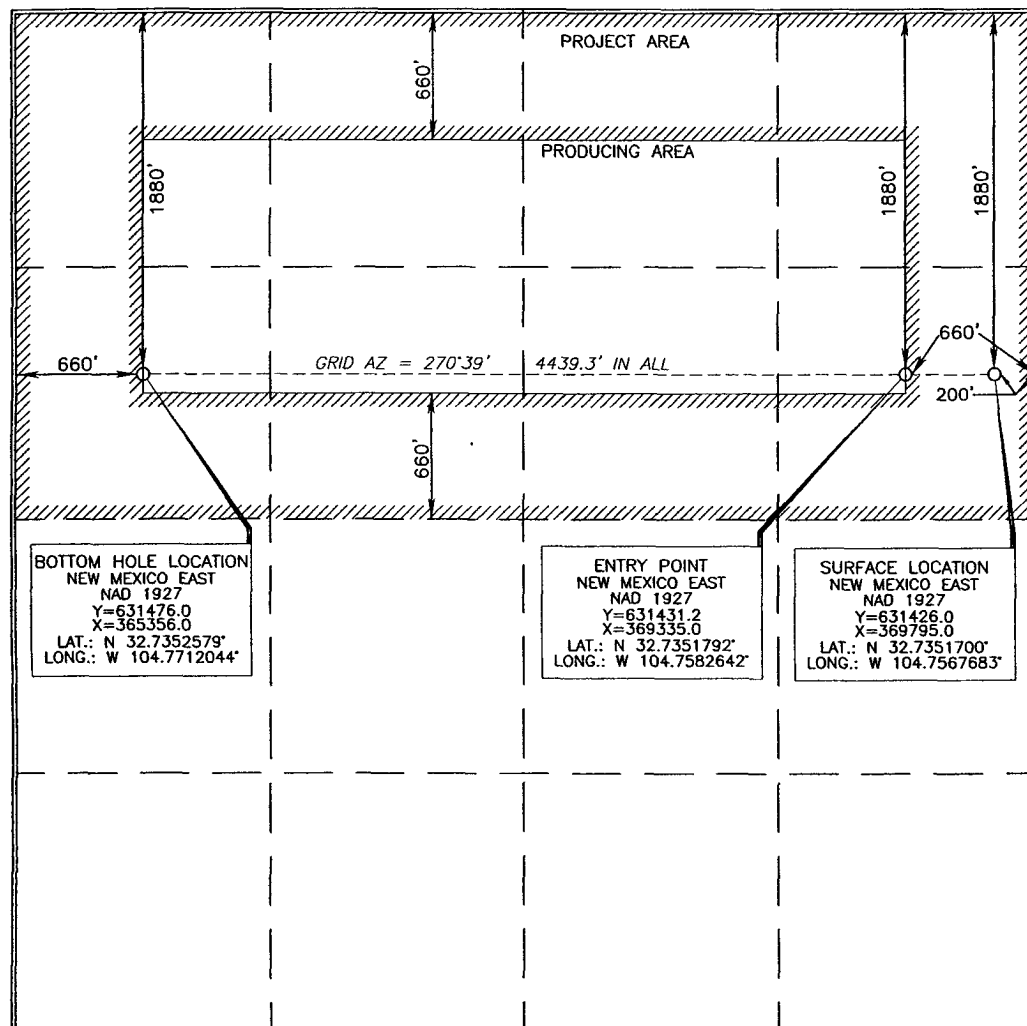
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	23	18 SOUTH	21 EAST, N.M.P.M.		1880'	NORTH	200'	EAST	EDDY

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
E	23	18 SOUTH	21 EAST, N.M.P.M.		1880'	NORTH	660'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	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 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 10/22/07
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 or actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

15079
OCTOBER 2, 2007
Date of Survey

Signature and Seal of Professional Surveyor

Terry J. Paul 10-15-2007
Certificate Number 15079

WO# 071002WL-c (KA)

Permit Information:OCT 23 2007
OCD-ARTESIA

S

Well Name: Yellowstone 23 State Com #3H

Location:

SL 1880' FNL & 200' FEL, Section 23, T-18-S, R-21-E, Eddy Co., N.M.

BHL 1880' FNL & 660' FWL, Section 23, T-18-S, R-21-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	1250' 900'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	8,478'	7-7/8"	5 1/2"	17#	N-80	Surface

Cement Program:

Depth	No. Sacks	Slurries:
900'	500	Lead: 35:65 Poz C + 6% Bentonite+ 0.005 gps FP-6L + 0.005 pps Static Free + 10 pps LCM-1 + 2% CaCl ₂
	400	Tail: Class C + 0.005 gps FP-6L + 0.005 pps Static Free + 0.125 pps CelloFlake
8,478'	500	Lead: 50:50 Poz:Class C + 0.005 gps FP-6L + 10% Bentonite + 0.005 pps Static Free + 0.125 pps CelloFlake
	700	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 – 900'	Fresh - Gel	8.6-8.8	28-34	N/c
900' – 3,800'	Cut Brine	8.8-9.2	28-34	N/c
3,800' – 4,500'	Cut Brine	8.8-9.2	28-34	10-15
3,700' – 8,478'	Polymer (Lateral)	9.0-9.4	40-45	10-25



OCT 23 2007
OCD-ARTESIA

EOG Resources, Inc.
P.O. Box 2287
Midland, TX 79702
(409) 636-5600

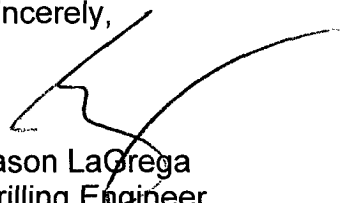
October 17, 2007

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 Yellowstone 23 State Com #3H. 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

OCT 23 2007
OCD-ARTESIA

Database:	EDM	Local Co-ordinate Reference:	Well Yellowstone 23 State Com #3H
Company:	EOG - Midland (3)	TVD Reference:	WELL @ 4156.00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 4156 00ft (Original Well Elev)
Site:	Yellowstone 23 State Com #3H	North Reference:	Grid
Well:	Yellowstone 23 State Com #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Yellowstone 23 State Com #3H		
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		Yellowstone 23 State Com #3H			
Site Position:		Northing:	631,426.00ft	Latitude:	32° 44' 6 612 N
From:	Map	Easting:	369,795.00ft	Longitude:	104° 45' 24 366 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	-0.23 °

Well:	Yellowstone 23 State Com #3H					
Well Position	+N-S	0.00 ft	Northing:	631,426.00 ft	Latitude:	32° 44' 6 612 N
	+E-W	0 00 ft	Easting:	369,795.00 ft	Longitude:	104° 45' 24 366 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,137.00ft

Wellbore	Yellowstone 23 State Com #3H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005	10/18/2007	8 58	60.52	49,101

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)	(°)
	0.00	0.00	0.00	270.65

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	
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,500.27	78.00	270.65	4,275.00	5.28	-465.60	9.75	9.75	0.00	270.65	
4,787.80	90.00	270.65	4,305.00	8.52	-751.01	4.17	4.17	0.00	0.00	
5,787.80	90.00	270.65	4,305.00	19.86	-1,750.94	0.00	0.00	0.00	0.00	
5,854.67	92.01	270.64	4,303.83	20.62	-1,817.80	3.00	3.00	-0.01	-0.22	
8,477.42	92.01	270.64	4,212.01	50.00	-4,438.78	0.00	0.00	0.00	0.00	
8,477.64	92.00	270.64	4,212.00	50.00	-4,439.00	3.00	-2.83	-0.99	0.00	BHL (Yellowstone #

EOG RESOURCES INC.

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OCT 23 2007

OCD-ARTESIA

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Project:	Thames	MD Reference:	WELL @ 4156.00ft (Original Well Elev)
Site:	Yellowstone 23 State Com #3H	North Reference:	Grid
Well:	Yellowstone 23 State Com #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Yellowstone 23 State Com #3H		
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	9.75	270.65	3,799.52	0.10	-8.48	8.49	9.75	9.75	0.00	
3,900.00	19.49	270.65	3,896.16	0.38	-33.69	33.70	9.75	9.75	0.00	
4,000.00	29.24	270.65	3,987.15	0.85	-74.90	74.90	9.75	9.75	0.00	
4,100.00	38.99	270.65	4,069.84	1.49	-130.91	130.92	9.75	9.75	0.00	
4,200.00	48.73	270.65	4,141.86	2.27	-200.11	200.13	9.75	9.75	0.00	
4,300.00	58.48	270.65	4,201.12	3.18	-280.51	280.53	9.75	9.75	0.00	
4,400.00	68.23	270.65	4,245.91	4.20	-369.77	369.80	9.75	9.75	0.00	
4,494.91	77.48	270.65	4,273.86	5.22	-460.36	460.39	9.75	9.75	0.00	
PP (Yellowstone #3H)										
4,500.00	77.97	270.65	4,274.94	5.28	-465.33	465.36	9.75	9.75	0.00	
4,500.27	78.00	270.65	4,275.00	5.28	-465.60	465.63	9.75	9.75	0.00	
4,600.00	82.16	270.65	4,292.18	6.40	-563.81	563.85	4.17	4.17	0.00	
4,700.00	86.34	270.65	4,302.19	7.52	-663.28	663.32	4.17	4.17	0.00	
4,787.80	90.00	270.65	4,305.00	8.52	-751.01	751.06	4.17	4.17	0.00	
4,800.00	90.00	270.65	4,305.00	8.66	-763.21	763.26	0.00	0.00	0.00	

EOG RESOURCES INC.

Planning Report

OCT 23 2007
OCD-ARTESIA

Database:	EDM	Local Co-ordinate Reference:	Well Yellowstone 23 State Com #3H
Company:	EOG - Midland (3)	TVD Reference:	WELL @ 4156 00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 4156 00ft (Original Well Elev)
Site:	Yellowstone 23 State Com #3H	North Reference:	Grid
Well:	Yellowstone 23 State Com #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Yellowstone 23 State Com #3H		
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	270.65	4,305.00	9.79	-863.20	863.26	0.00	0.00	0.00
5,000.00	90.00	270.65	4,305.00	10.93	-963.20	963.26	0.00	0.00	0.00
5,100.00	90.00	270.65	4,305.00	12.06	-1,063.19	1,063.26	0.00	0.00	0.00
5,200.00	90.00	270.65	4,305.00	13.20	-1,163.19	1,163.26	0.00	0.00	0.00
5,300.00	90.00	270.65	4,305.00	14.33	-1,263.18	1,263.26	0.00	0.00	0.00
5,400.00	90.00	270.65	4,305.00	15.47	-1,363.17	1,363.26	0.00	0.00	0.00
5,500.00	90.00	270.65	4,305.00	16.60	-1,463.17	1,463.26	0.00	0.00	0.00
5,600.00	90.00	270.65	4,305.00	17.73	-1,563.16	1,563.26	0.00	0.00	0.00
5,700.00	90.00	270.65	4,305.00	18.87	-1,663.15	1,663.26	0.00	0.00	0.00
5,787.80	90.00	270.65	4,305.00	19.86	-1,750.94	1,751.06	0.00	0.00	0.00
5,800.00	90.37	270.65	4,304.96	20.00	-1,763.15	1,763.26	3.00	3.00	-0.01
5,854.67	92.01	270.64	4,303.83	20.62	-1,817.80	1,817.92	3.00	3.00	-0.01
5,900.00	92.01	270.64	4,302.24	21.13	-1,863.10	1,863.22	0.00	0.00	0.00
6,000.00	92.01	270.64	4,298.74	22.25	-1,963.03	1,963.16	0.00	0.00	0.00
6,100.00	92.01	270.64	4,295.24	23.37	-2,062.96	2,063.10	0.00	0.00	0.00
6,200.00	92.01	270.64	4,291.74	24.49	-2,162.90	2,163.04	0.00	0.00	0.00
6,300.00	92.01	270.64	4,288.24	25.61	-2,262.83	2,262.97	0.00	0.00	0.00
6,400.00	92.01	270.64	4,284.74	26.73	-2,362.76	2,362.91	0.00	0.00	0.00
6,500.00	92.01	270.64	4,281.24	27.85	-2,462.69	2,462.85	0.00	0.00	0.00
6,600.00	92.01	270.64	4,277.74	28.97	-2,562.63	2,562.79	0.00	0.00	0.00
6,700.00	92.01	270.64	4,274.23	30.09	-2,662.56	2,662.73	0.00	0.00	0.00
6,800.00	92.01	270.64	4,270.73	31.21	-2,762.49	2,762.67	0.00	0.00	0.00
6,900.00	92.01	270.64	4,267.23	32.33	-2,862.42	2,862.61	0.00	0.00	0.00
7,000.00	92.01	270.64	4,263.73	33.45	-2,962.36	2,962.54	0.00	0.00	0.00
7,100.00	92.01	270.64	4,260.23	34.57	-3,062.29	3,062.48	0.00	0.00	0.00
7,200.00	92.01	270.64	4,256.73	35.69	-3,162.22	3,162.42	0.00	0.00	0.00
7,300.00	92.01	270.64	4,253.23	36.81	-3,262.15	3,262.36	0.00	0.00	0.00
7,400.00	92.01	270.64	4,249.73	37.93	-3,362.09	3,362.30	0.00	0.00	0.00
7,500.00	92.01	270.64	4,246.23	39.05	-3,462.02	3,462.24	0.00	0.00	0.00
7,600.00	92.01	270.64	4,242.73	40.17	-3,561.95	3,562.18	0.00	0.00	0.00
7,700.00	92.01	270.64	4,239.22	41.29	-3,661.88	3,662.12	0.00	0.00	0.00
7,800.00	92.01	270.64	4,235.72	42.41	-3,761.82	3,762.05	0.00	0.00	0.00
7,900.00	92.01	270.64	4,232.22	43.53	-3,861.75	3,861.99	0.00	0.00	0.00
8,000.00	92.01	270.64	4,228.72	44.65	-3,961.68	3,961.93	0.00	0.00	0.00
8,100.00	92.01	270.64	4,225.22	45.77	-4,061.61	4,061.87	0.00	0.00	0.00
8,200.00	92.01	270.64	4,221.72	46.89	-4,161.54	4,161.81	0.00	0.00	0.00
8,300.00	92.01	270.64	4,218.22	48.01	-4,261.48	4,261.75	0.00	0.00	0.00
8,400.00	92.01	270.64	4,214.72	49.13	-4,361.41	4,361.69	0.00	0.00	0.00
8,477.42	92.01	270.64	4,212.01	50.00	-4,438.78	4,439.06	0.00	0.00	0.00
8,477.64	92.00	270.64	4,212.00	50.00	-4,439.00	4,439.28	3.00	-2.83	-0.99

BHL (Yellowstone #3H)

EOG RESOURCES INC.

Planning Report

OCT 23 2007
OCD-ARTESIA

Database:	EDM	Local Co-ordinate Reference:	Well Yellowstone 23 State Com #3H
Company:	EOG - Midland (3)	TVD Reference:	WELL @ 4156 00ft (Original Well Elev)
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Well:	Yellowstone 23 State Com #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Yellowstone 23 State Com #3H		
Design:	Original Plan		

Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Latitude Longitude
PP (Yellowstone #3H)	- plan misses by 1.19ft at 4494.90ft MD (4273.86 TVD, 5.22 N, -460.35 E)	0.00	0.00	4,275.00	5 20	-460 00	631,431.20	369,335 00	32° 44' 6 646 N 104° 45' 29 751 W
	- Point								
BHL (Yellowstone #3H)	- plan hits target	0.00	360 00	4,212.00	50 00	-4,439.00	631,476.00	365,356.00	32° 44' 6.929 N 104° 46' 16.336 W
	- Point								

WELL DETAILS: Yellowstone 23 State Com #3H

+N/-S
0.00+E/-W
0.00Northing
631426.00Ground Level:
Easting
369795.00

4137.00

Latitude
32° 44' 6.612 N 104° 45' 24.366 W

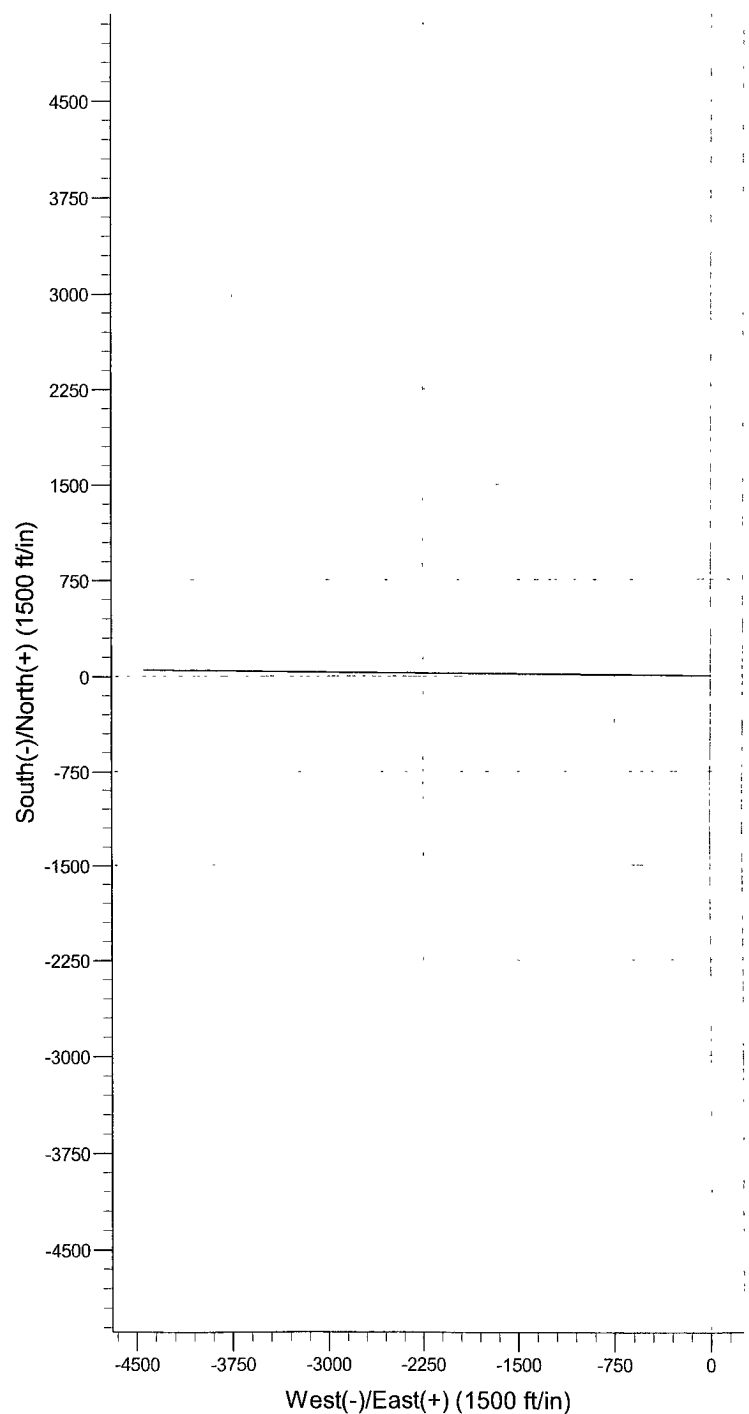
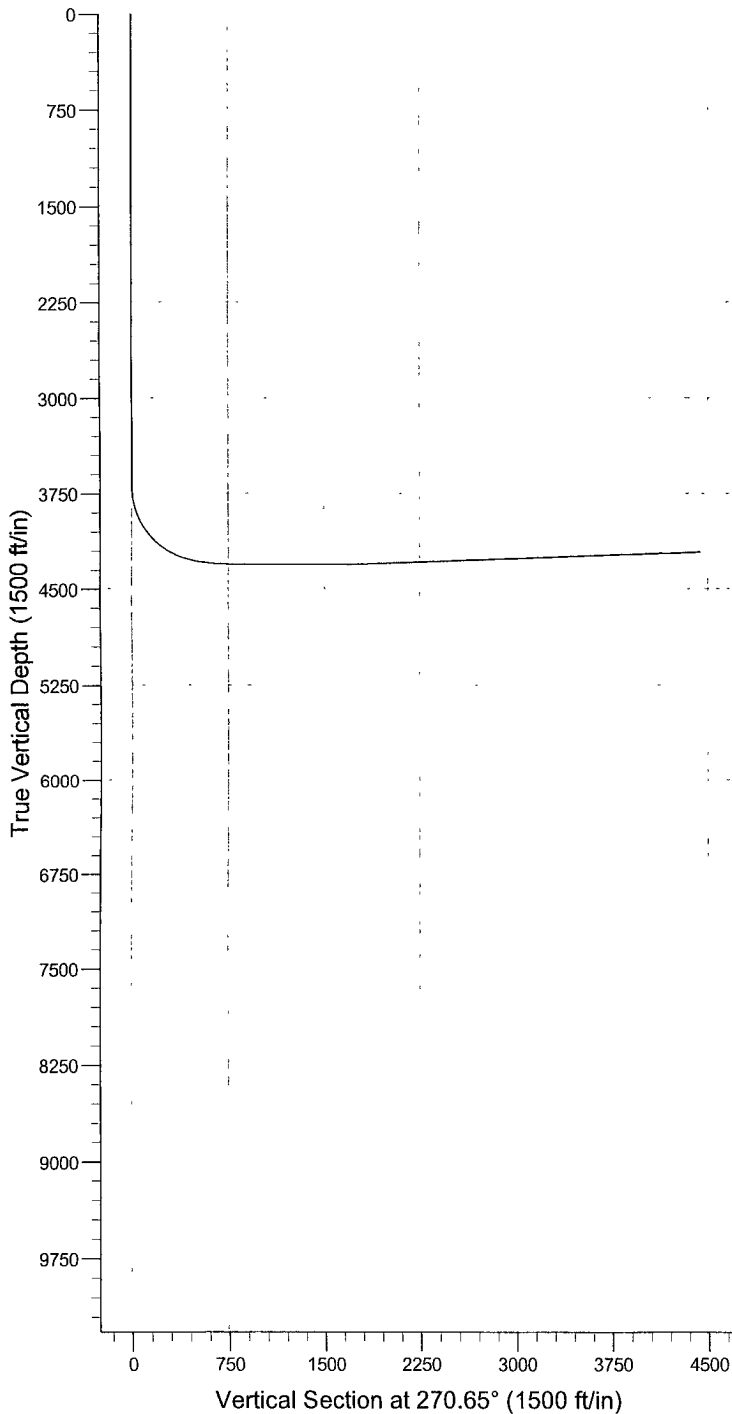
Slot



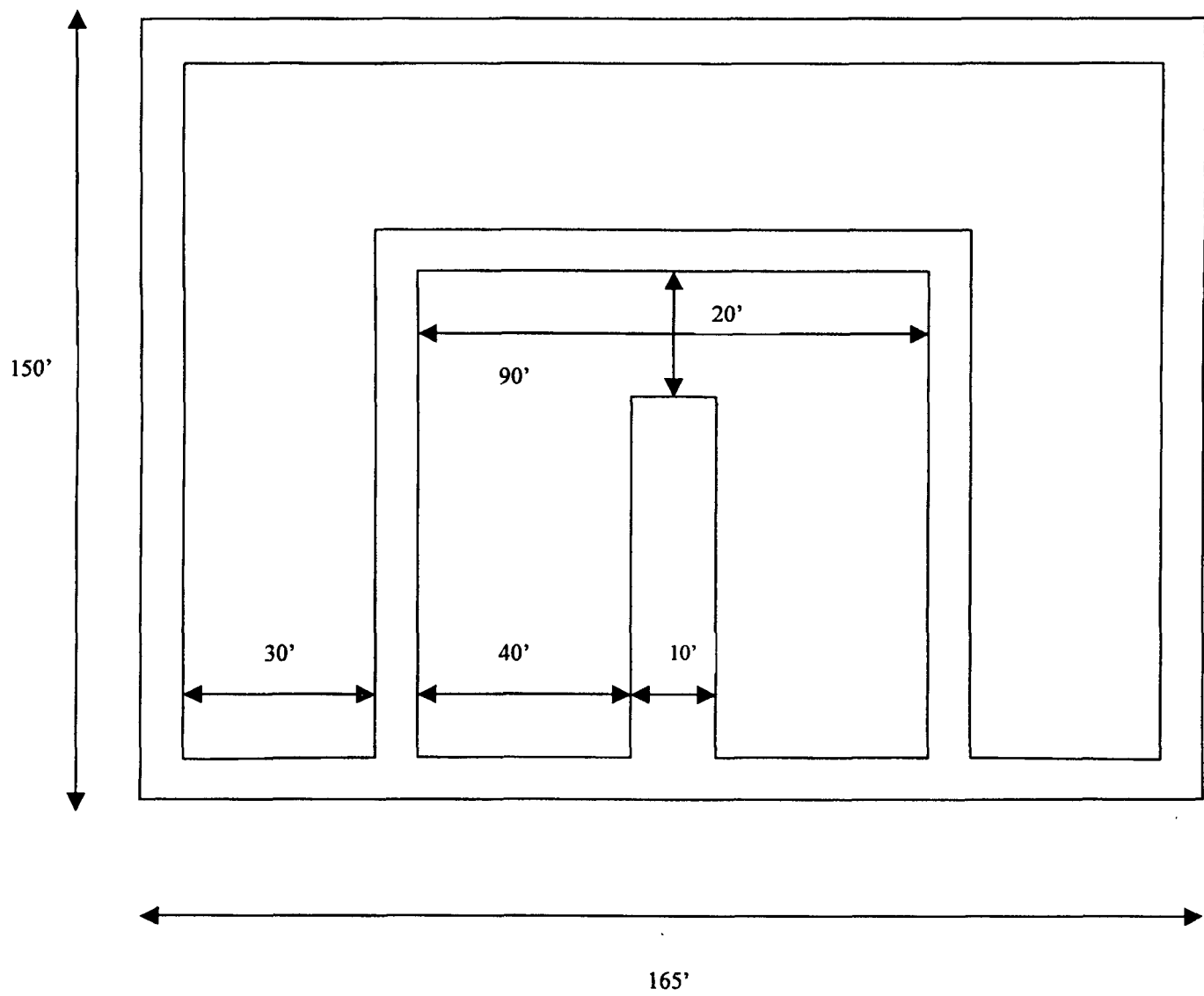
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	Target	Sec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00
3	4500.27	78.00	270.65	4275.00	5.28	-465.60	9.75	270.65	465.63	
4	4787.80	90.00	270.65	4305.00	8.52	-751.01	4.17	0.00	751.06	
5	5787.80	90.00	270.65	4305.00	19.86	-1750.94	0.00	0.00	1751.06	
6	5854.67	92.01	270.64	4303.83	20.62	-1817.80	3.00	-0.22	1817.92	
7	8477.42	92.01	270.64	4212.01	50.00	-4438.78	0.00	0.00	4439.06	
8	8477.64	92.00	270.64	4212.00	50.00	-4439.00	0.00	0.00	4439.28	

OCT 23 2007
OCD-ARTESIA



New Mexico Double Horseshoe Reserve Pit Design



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