

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, 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 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised March 17, 1999

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

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

¹ Operator Name and Address Matador Operating Company 8340 Meadow Road #150 Dallas, TX 75231		² OGRID Number 14245
³ Property Code 29622		³ API Number 30-015-32238
⁵ Property Name Federal "12" Com		⁶ Well No. 2

7 Surface Location

UL or lct no.	Section	Township	Range	Lot ldn	Feet from th	North/South line	Feet from the	East/West line	County
J	2	21S	26E		2080	South	1327	East	Eddy

8 Proposed Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot ldn	est line	County
D	12	21S	26E		est	Eddy
⁹ Proposed Pool 1 Burton Flat Morrow					2 awn	

**NOTIFY SPUD & TIME TO WITNESS
CEMENTING of 9-5/8" CASING**

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3185'
¹⁶ Multiple No	¹⁷ Proposed Depth 12300'	¹⁸ Formation Morrow	¹⁹ Contractor Patterson	²⁰ Spud Date 3/15/02

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	48#	600	475	surface
12-1/4"	9-5/8"	36#	2200	600	surface
8-3/4"	5-1/2"	17#	12300	1600	2200'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.

Describe the blowout prevention program, if any. Use additional sheets if necessary.

Drill 12,300' Morrow test. Drill 17-1/2" hole to 600'. Run and cement 13-3/8" casing to surface. NU BOP stack and drill 12-1/4" hole to +/-2200'. Run and cement 9-5/8" casing to surface. NU BOP assembly and test to 5000 psi. Drill 8-3/4" hole to 12,300' MD (11,420' TVD) and evaluate. (Directional operations to start @ 2700').

*Per Armando Lopez w/BLM, Federal Lands transferred to the Carlsbad Irrigation District.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Jim Kramer*

Printed name: Jim Kramer

Title: Sr. Drilling Engineer

Date: 2/21/02

Phone: 214 987-7128

OIL CONSERVATION DIVISION

Approved by:

**ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR**

Title:

Approval Date: MAR 22 2002

Expiration Date: MAR 22 2003

Conditions of Approval: Operation subject of approval with Bureau of Reclamation
Attached ☐ Surface Rights

DISTRICT I
P. O. Box 1980
Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals, and Natural Resources Department

Form C-1
Revised 02-10-

Instructions on back

DISTRICT II
P. O. Drawer DD
Artesia, NM 88211-0719

OIL CONSERVATION DIVISION
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Submit to the Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

DISTRICT III
1000 Rio Brazos Rd.
Aztec, NM 87410

☐ AMENDED REPORT

DISTRICT IV
P. O. Box 2088
Santa Fe, NM 87507-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code 73280	3 Pool Name Burton Flat Morrow
4 Property Code	5 Property Name FEDERAL '12' COM	6 Well Number 2
7 OGRID No. 14245	8 Operator Name MATADOR OPERATING COMPANY	9 Elevation 3185'

" SURFACE LOCATION

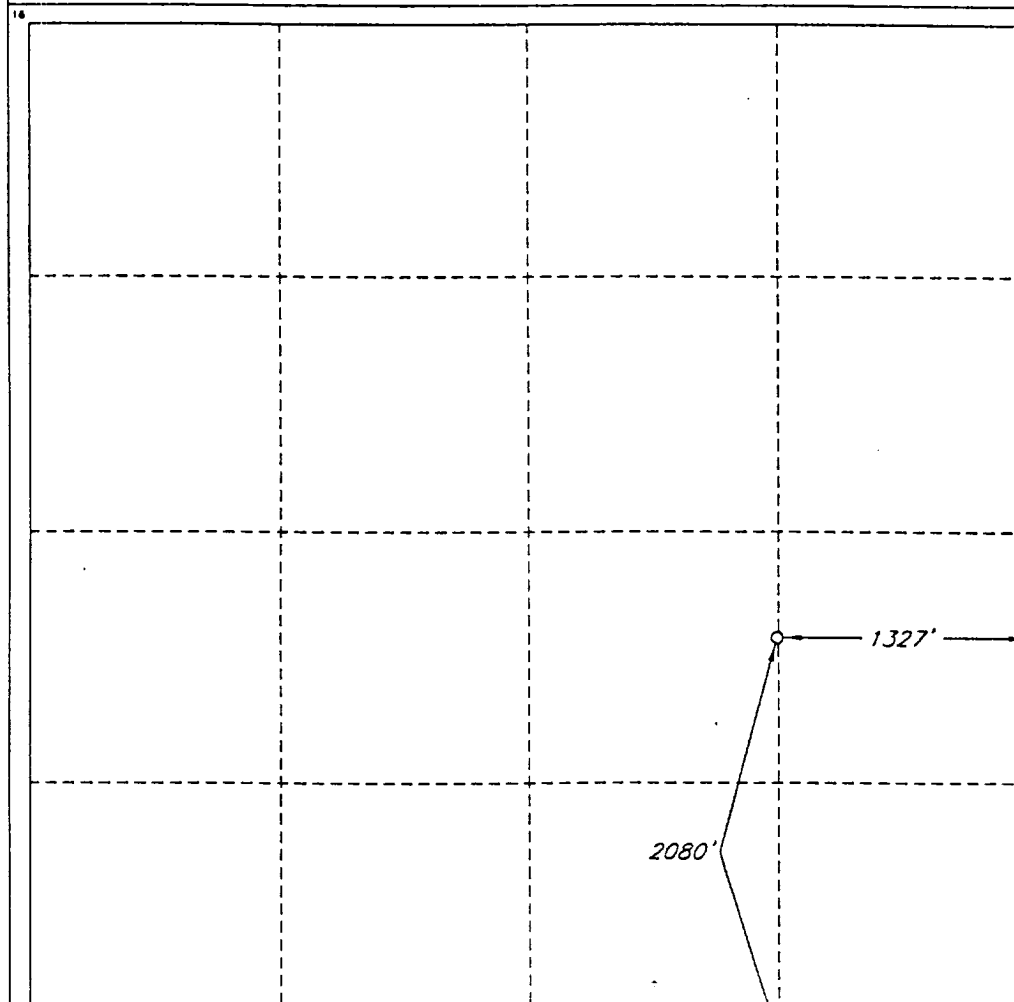
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
J	2	21 SOUTH	26 EAST, N.M.P.M.		2080'	SOUTH	1327'	EAST	EDDY

" BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
D	12	21 South	26 East, NMPM		965	North	880	West	Eddy

12 Dedicated Acres 320	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WELL 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.

Signature

Printed Name

Jim Kramer

Title

Sr. Drilling Engineer

Date

2/11/02

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.

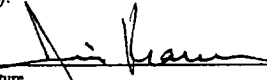
Date of Survey

NOVEMBER 19, 2001

Signature and Seal of
Professional Surveyor

Certificate No.

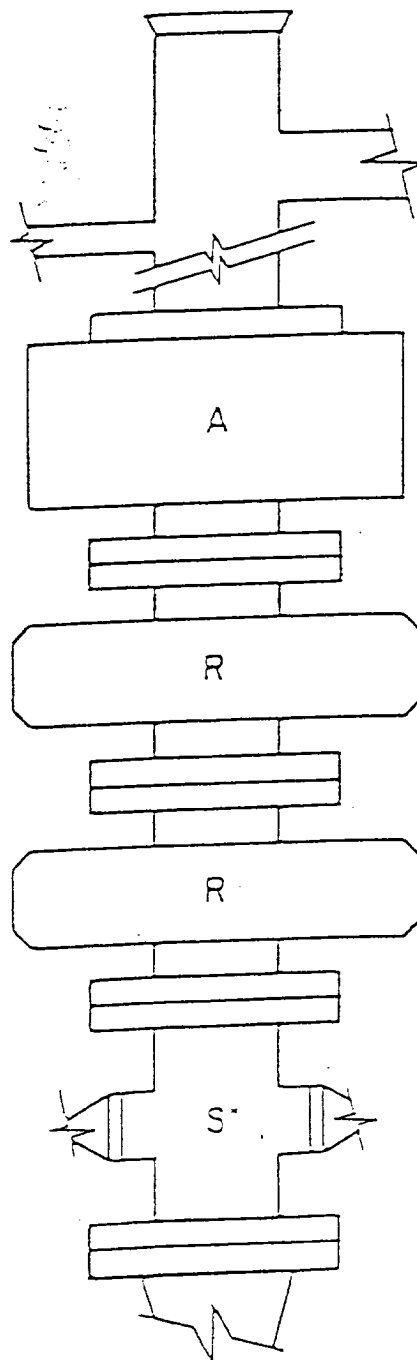
V I BE7NER R P S. #7920

16 880' 965'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Jim Kramer Printed Name Sr. Drilling Engineer Title 2/11/02 Date
	18 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. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number

MATADOR OPERATING COMPANY
FEDERAL 12 COM #2
SEC. 2, T21S, R26E
EDDY COUNTY, NEW MEXICO

BOP SCHEMATIC

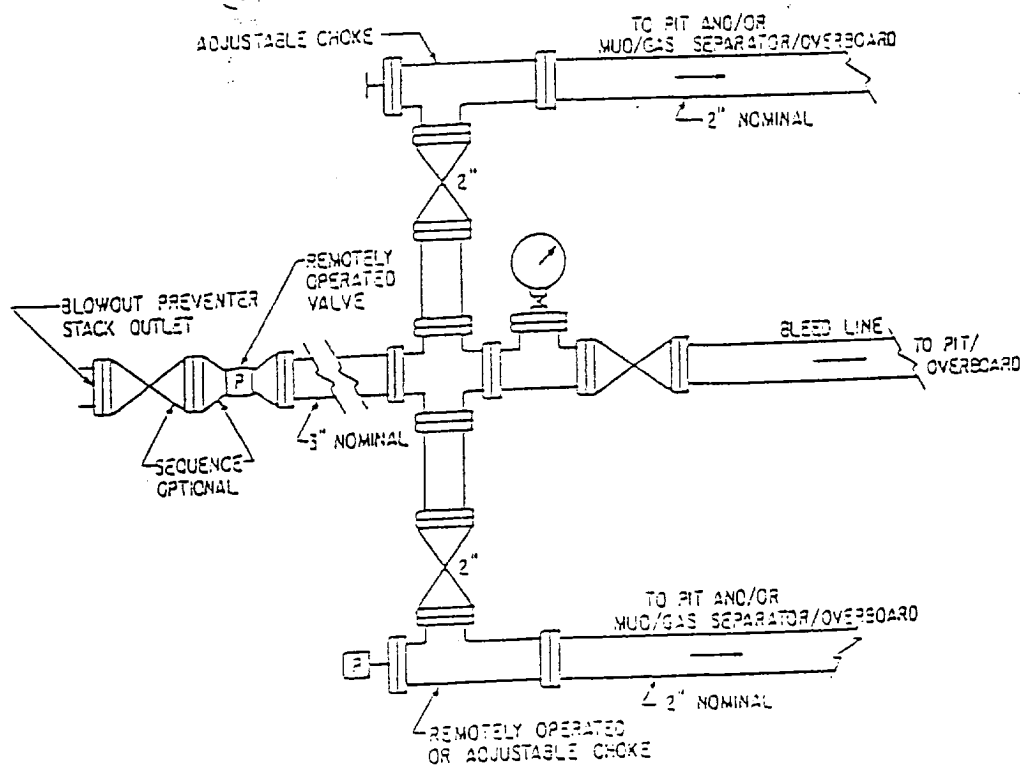
(5m Rated Working Pressure)



MATADOR OPERATING COMPANY
FEDERAL 12 COM #2
SEC. 2, T21S, R26E
EDDY COUNTY, NEW MEXICO

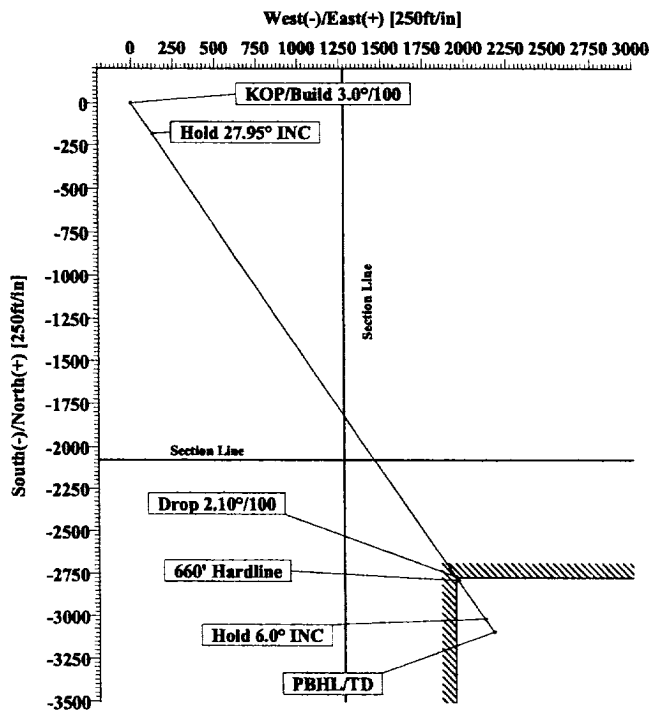
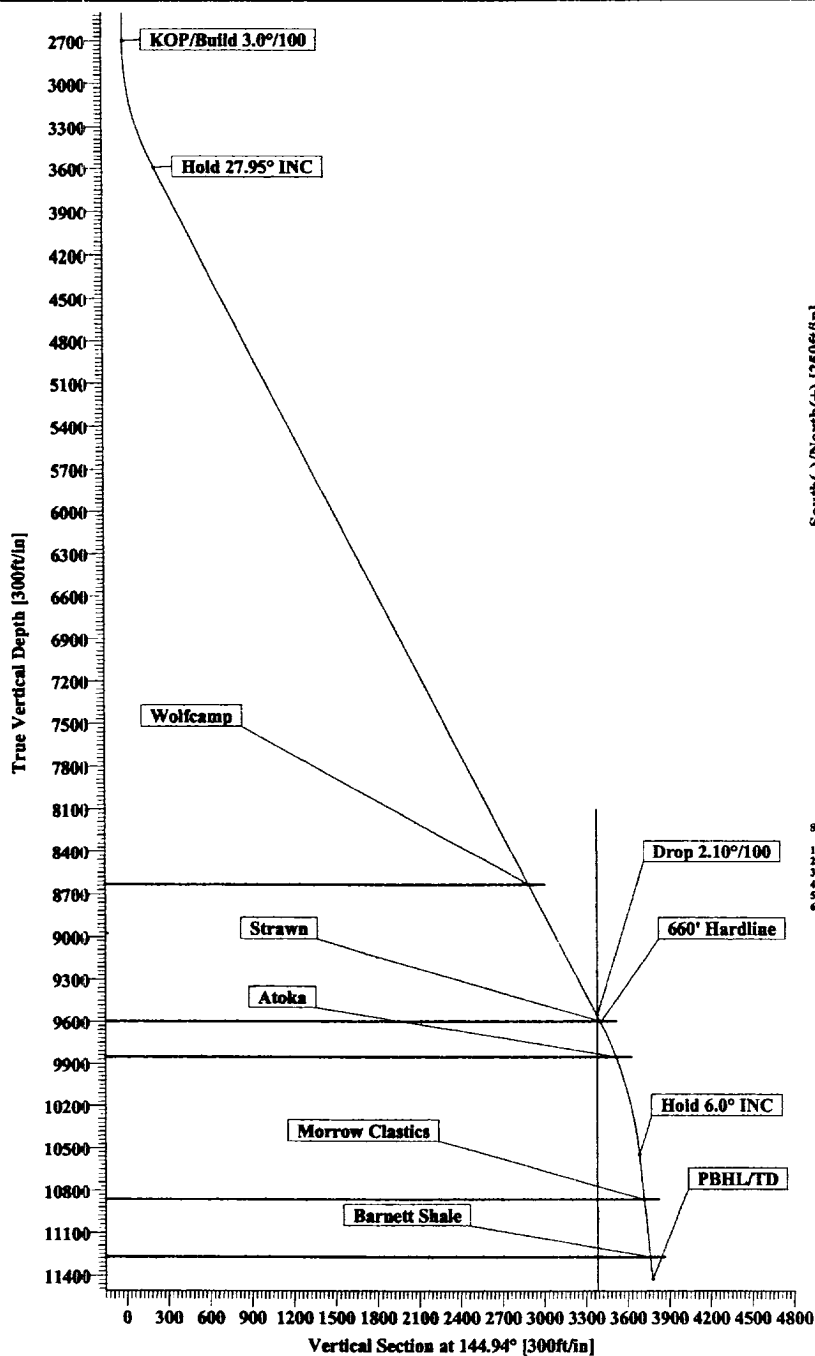
CHOKE MANIFOLD

(5m Rated Working Pressure)

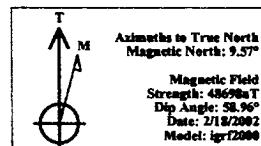


Matador Operating Company

Field: Eddy County, New Mexico
Site: Federal 12 Com #2
Well: Federal 12 Com #2
Wellpath: Federal 12 Com #2
Plan: Plan #1



Sec	MD	Inc	Asl	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	0.00	0.00	144.94	0.00	0.00	0.00	0.00	0.00	0.00	
2	2780.00	0.00	144.94	2780.00	0.00	0.00	0.00	0.00	0.00	
3	3631.61	27.95	144.94	3595.11	-182.34	127.95	3.80	145.00	222.75	
4	10372.72	27.95	144.94	9598.00	-2708.54	1942.70	0.00	0.00	3382.14	660' Hardline Target
5	11417.00	0.00	144.94	10543.53	-3016.70	2116.00	2.10	180.00	3685.41	
6	12299.18	0.00	144.94	11420.00	-3992.19	2180.81	0.00	0.00	3777.53	



Ryan The leader in UNDERGROUND INTELLIGENCE™

Plan: Plan #1 (Federal 12 Com #2/Federal 12 Com #2)

Created By: Ernie Fontenot Date: 2/19/2002

Checked: _____ Date: _____

Reviewed: _____ Date: _____

Approved: _____ Date: _____

Planning Report

Company: Matador Operating Company
Field: Eddy County, New Mexico
Site: Federal 12 Com #2
Well: Federal 12 Com #2
Wellpath: Federal 12 Com #2

Date: 2/19/2002
Co-ordinate(NE) Reference: Site: Federal 12 Com #2, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,144.94Azi)
Plan: Plan #1

Page: 1

Field: Eddy County, New Mexico
 Eddy County, New Mexico

Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Site Centre
Geomagnetic Model: igrf2000

Site: Federal 12 Com #2

Eddy County, New Mexico

Site Position:
From: Geographic
Position Uncertainty: 0.00 ft
Ground Level: 3185.00 ft

Northing: 548833.70 ft
Easting: 523651.21 ft
Latitude: 32 30 31.790 N
Longitude: 104 15 23.800 W
North Reference: True
Grid Convergence: 0 deg

Well: Federal 12 Com #2

Slot Name:

Well Position: +N/-S 0.00 ft
 +E/-W 0.00 ft
Position Uncertainty: 0.00 ft

Northing: 548833.70 ft
Easting: 523651.21 ft
Latitude: 32 30 31.790 N
Longitude: 104 15 23.800 W

Wellpath: Federal 12 Com #2

Current Datum: SITE
Magnetic Data: 2/18/2002
Field Strength: 48698 nT
Vertical Section: Depth From (TVD) ft
Height: 0.00 ft

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 10 deg
Mag Dip Angle: 59 deg
+N/-S: ft
+E/-W: ft
Direction: deg

0.00 0.00 0.00 144.94

Plan: Plan #1

Date Composed: 2/18/2002
Version: 1
Tied-to: From Surface

Principal: Yes

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	144.94	0.00	0.00	0.00	0.00	0.00	0.00	0	
2700.00	0.00	144.94	2700.00	0.00	0.00	0.00	0.00	0.00	0	
3631.61	27.95	144.94	3595.11	-182.34	127.95	3.00	3.00	0.00	145	
10372.72	27.95	144.94	9550.00	-2768.54	1942.70	0.00	0.00	0.00	0	660' Hardline Target
11417.88	6.00	144.94	10543.53	-3016.78	2116.90	2.10	-2.10	0.00	180	
12299.18	6.00	144.94	11420.00	-3092.19	2169.81	0.00	0.00	0.00	0	

Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
0.00	0.00	144.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
2700.00	0.00	144.94	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	145

Section 2 : Start Build 3.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
3200.00	15.00	144.94	3194.31	-53.27	37.38	65.08	3.00	3.00	0.00	0
3631.61	27.95	144.94	3595.11	-182.34	127.95	222.75	3.00	3.00	0.00	0

Section 3 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
3700.00	27.95	144.94	3655.52	-208.57	146.36	254.80	0.00	0.00	0.00	144
4200.00	27.95	144.94	4097.20	-400.39	280.96	489.14	0.00	0.00	0.00	0
4700.00	27.95	144.94	4538.89	-592.22	415.56	723.47	0.00	0.00	0.00	0
5200.00	27.95	144.94	4980.57	-784.04	550.17	957.81	0.00	0.00	0.00	0

Planning Report

Company: Matador Operating Company
Field: Eddy County, New Mexico
Site: Federal 12 Com #2
Well: Federal 12 Com #2
Wellpath: Federal 12 Com #2

Date: 2/19/2002 Time: 17:20:01 Page: 2
Co-ordinate(NE) Reference: Site: Federal 12 Com #2, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,144.94Azi)
Plan: Plan #1

Section 3 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5700.00	27.95	144.94	5422.26	-975.86	684.77	1192.15	0.00	0.00	0.00	0
6200.00	27.95	144.94	5863.94	-1167.69	819.37	1426.49	0.00	0.00	0.00	0
6700.00	27.95	144.94	6305.63	-1359.51	953.98	1660.83	0.00	0.00	0.00	0
7200.00	27.95	144.94	6747.31	-1551.34	1088.58	1895.16	0.00	0.00	0.00	0
7700.00	27.95	144.94	7189.00	-1743.16	1223.18	2129.50	0.00	0.00	0.00	0
8200.00	27.95	144.94	7630.68	-1934.98	1357.79	2363.84	0.00	0.00	0.00	0
8700.00	27.95	144.94	8072.37	-2126.81	1492.39	2598.18	0.00	0.00	0.00	0
9200.00	27.95	144.94	8514.05	-2318.63	1627.00	2832.52	0.00	0.00	0.00	0
9332.39	27.95	144.94	8631.00	-2369.42	1662.64	2894.56	0.00	0.00	0.00	0
9700.00	27.95	144.94	8955.74	-2510.45	1761.60	3066.86	0.00	0.00	0.00	0
10200.00	27.95	144.94	9397.42	-2702.28	1896.20	3301.19	0.00	0.00	0.00	0
10372.72	27.95	144.94	9550.00	-2768.54	1942.70	3382.14	0.00	0.00	0.00	-36

Section 4 : Start Drop -2.10

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
10425.66	26.84	144.94	9597.00	-2788.48	1956.69	3406.50	2.10	-2.10	0.00	180
10429.02	26.77	144.94	9600.00	-2789.72	1957.56	3408.01	2.10	-2.10	0.00	-180
10700.00	21.08	144.94	9847.60	-2879.62	2020.65	3517.84	2.10	-2.10	0.00	-180
10705.78	20.95	144.94	9853.00	-2881.32	2021.84	3519.92	2.10	-2.10	0.00	-180
11200.00	10.58	144.94	10327.98	-2991.08	2098.86	3654.01	2.10	-2.10	0.00	-180
11417.88	6.00	144.94	10543.53	-3016.78	2116.90	3685.41	2.10	-2.10	0.00	-180

Section 5 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
11700.00	6.00	144.94	10824.10	-3040.92	2133.84	3714.90	0.00	0.00	0.00	46
11739.11	6.00	144.94	10863.00	-3044.27	2136.19	3718.99	0.00	0.00	0.00	0
12147.35	6.00	144.94	11269.00	-3079.20	2160.70	3761.66	0.00	0.00	0.00	0
12200.00	6.00	144.94	11321.36	-3083.70	2163.86	3767.16	0.00	0.00	0.00	0
12299.18	6.00	144.94	11420.00	-3092.19	2169.81	3777.53	0.00	0.00	0.00	-134

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2700.00	0.00	144.94	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP/Build 3.0°/100
3200.00	15.00	144.94	3194.31	-53.27	37.38	65.08	3.00	3.00	0.00	
3631.61	27.95	144.94	3595.11	-182.34	127.95	222.75	3.00	3.00	0.00	Hold 27.95° INC
3700.00	27.95	144.94	3655.52	-208.57	146.36	254.80	0.00	0.00	0.00	
4200.00	27.95	144.94	4097.20	-400.39	280.96	489.14	0.00	0.00	0.00	
4700.00	27.95	144.94	4538.89	-592.22	415.56	723.47	0.00	0.00	0.00	
5200.00	27.95	144.94	4980.57	-784.04	550.17	957.81	0.00	0.00	0.00	
5700.00	27.95	144.94	5422.26	-975.86	684.77	1192.15	0.00	0.00	0.00	
6200.00	27.95	144.94	5863.94	-1167.69	819.37	1426.49	0.00	0.00	0.00	
6700.00	27.95	144.94	6305.63	-1359.51	953.98	1660.83	0.00	0.00	0.00	
7200.00	27.95	144.94	6747.31	-1551.34	1088.58	1895.16	0.00	0.00	0.00	
7700.00	27.95	144.94	7189.00	-1743.16	1223.18	2129.50	0.00	0.00	0.00	
8200.00	27.95	144.94	7630.68	-1934.98	1357.79	2363.84	0.00	0.00	0.00	
8700.00	27.95	144.94	8072.37	-2126.81	1492.39	2598.18	0.00	0.00	0.00	
9200.00	27.95	144.94	8514.05	-2318.63	1627.00	2832.52	0.00	0.00	0.00	
9332.39	27.95	144.94	8631.00	-2369.42	1662.64	2894.56	0.00	0.00	0.00	Wolfcamp
9700.00	27.95	144.94	8955.74	-2510.45	1761.60	3066.86	0.00	0.00	0.00	
10200.00	27.95	144.94	9397.42	-2702.28	1896.20	3301.19	0.00	0.00	0.00	
10372.72	27.95	144.94	9550.00	-2768.54	1942.70	3382.14	0.00	0.00	0.00	660' Hardline Target
10425.66	26.84	144.94	9597.00	-2788.48	1956.69	3406.50	2.10	-2.10	0.00	Strawn
10429.02	26.77	144.94	9600.00	-2789.72	1957.56	3408.01	2.10	-2.10	0.00	660' Hardline
10700.00	21.08	144.94	9847.60	-2879.62	2020.65	3517.84	2.10	-2.10	0.00	

Planning Report

Company: Matador Operating Company	Date: 2/19/2002	Time: 17:20:01	Page: 3
Field: Eddy County, New Mexico	Co-ordinate(NE) Reference: Site: Federal 12 Com #2, True North		
Site: Federal 12 Com #2	Vertical (TVD) Reference: SITE 0.0		
Well: Federal 12 Com #2	Section (VS) Reference: Well (0.00N,0.00E,144.94Azi)		
Wellpath: Federal 12 Com #2	Plan: Plan #1		

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
10705.78	20.95	144.94	9853.00	-2881.32	2021.84	3519.92	2.10	-2.10	0.00	Atoka
11200.00	10.58	144.94	10327.98	-2991.08	2098.86	3654.01	2.10	-2.10	0.00	
11417.88	6.00	144.94	10543.53	-3016.78	2116.90	3685.41	2.10	-2.10	0.00	Hold 6.0° INC
11700.00	6.00	144.94	10824.10	-3040.92	2133.84	3714.90	0.00	0.00	0.00	
11739.11	6.00	144.94	10863.00	-3044.27	2136.19	3718.99	0.00	0.00	0.00	Morrow Clastics
12147.35	6.00	144.94	11269.00	-3079.20	2160.70	3761.66	0.00	0.00	0.00	Barnett Shale
12200.00	6.00	144.94	11321.36	-3083.70	2163.86	3767.16	0.00	0.00	0.00	
12299.18	6.00	144.94	11420.00	-3092.19	2169.81	3777.53	0.00	0.00	0.00	PBHL/TD

Targets

Name	Description	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
660' Hardline Target		9550.00	-2768.54	1942.70	546066.56	525595.90	32	30	4.392 N	104	15	1.115 W
-Plan hit target												
PBHL/TD		11420.00	-3083.62	2166.09	545751.64	525819.52	32	30	1.274 N	104	14	58.507 W
-Plan out by 9.34 at		11420.00	-3092.19	2169.81	545743.08	525823.25	32	30	1.189 N	104	14	58.463 W

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
9332.39	8631.00	Wolfcamp		0.00	0.00
10425.66	9597.00	Strawn		0.00	0.00
10705.78	9853.00	Atoka		0.00	0.00
11739.11	10863.00	Morrow Clastics		0.00	0.00
12147.35	11269.00	Barnett Shale		0.00	0.00

Annotation

MD ft	TVD ft	
2700.00	2700.00	KOP/Build 3.0°/100
3631.61	3595.10	Hold 27.95° INC
10372.72	9550.00	Drop 2.10°/100
10429.02	9600.00	660' Hardline
11417.88	10543.52	Hold 6.0° INC
12299.18	11420.00	PBHL/TD