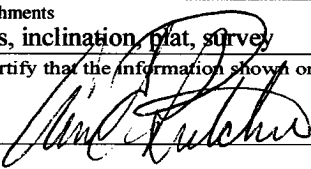


Submit To Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District
1625 N. French Dr., Hobbs, NM 88240
District I
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87504

Form C-105
Revised March 25, 1999

WELL COMPLETION OR RECOMPLETION REPORT AND LOG						WELL API NO. 30-015-32238									
1a. Type of Well: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐						5. Indicate Type of Lease STATE ☒ FEE ☐									
b. Type of Completion: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐						State Oil & Gas Lease No. NM 0555283,									
2. Name of Operator Matador Operating (Change of Operator to Tom Brown 7/1/03)						NMA-15461, NM-14467, NM-24041									
3. Address of Operator PO Box 2608 Midland, TX 79702						7. Lease Name or Agreement Name Federal "12" Com									
4. Well Location Unit Letter J 2080 Feet From The South Line and 1327 Feet From The East Section 2 Township 21 S Range 26 E NMPM Eddy County						8. Well No. #2									
10. Date Spudded 3-5-2003 11. Date T.D. Reached 4-11-2003 12. Date Compl. (Ready to Prod) 5-1-2003 13. Elevations (DF& RKB, RT, GR, etc.) 3185' GR 14. Elev. Casinghead						9. Pool name or Wildcat Barton Pool, Morrow (5000)									
15. Total Depth 12,334 16. Plug Back T.D. 11,940 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By X 19. Producing Interval(s), of this completion - Top, Bottom, Name 11,896-11,906' CNL/DLL Not Run Due To Hole Problems 20. Was Directional, Survey Made Yes per log						21. Type Electric and Other Logs Run CCL, Gamma Ray, CBL, USIT, Cased hole Some & Neutron, cement bond 22. Was Well Cored No									
23. CASING RECORD (Report all strings set in well)															
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED					
13 3/8		48 H-40		600'		17 1/2		540 SXS		Circulated to surf					
9 5/8		36 J-55		2243'		12 1/4		670 SXS		Circulated to surf					
5 1/2		17 P-110		12,340'		8 3/4		1800 SXS		TOC 1490' temp survey					
24. LINER RECORD								25. TUBING RECORD							
SIZE		TOP		BOTTOM		SACKS CEMENT		SCREEN		SIZE		DEPTH SET		PACKER SET	
										2 7/8		11,600		---	
26. Perforation record (interval, size, and number) Perforated Morrow @ 12,082-12,087 (6 spf, .48E#, 60 deg, 41 pen) Perforated Morrow @ 12,048-12,058 set CIBP @ 12,034 Perforated Morrow @ 11,983-11,992 set CIBP @ 11,960 w/20'cmt Perforated Morrow @ 11,896-11,906								27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL 11,896-11,906 AMOUNT AND KIND MATERIAL USED 40 BPM w/38722 lbs 18/40 mesh versaprop 20286 gals 7% KCL							
28. PRODUCTION															
Date First Production 6-20-2003				Flowing				Well Status (Prod. or Shut-in))							
Date of Test 7-19-2003		Hours Tested 24		Choke Size 48/64		Prod'n For Test Period		Oil - Bbl. 0		Gas - MCF 1420 MCF		Water - Bbl. 6		Gas - Oil Ratio N/A	
Flow Tubing Press. -- 100		Casing Pressure -- 310		Calculated 24-Hour Rate		Oil - Bbl. N/A		Gas - MCF N/A		Water - Bbl. N/A		Oil Gravity - API - (Corr.) N/A			
29. Disposition of Gas (Sold used for fuel, vented, etc.), Sales										Test Witnessed By					
30. List Attachments C-104, logs, inclination, flat, survey															
I hereby certify that the information shown on both sides of this form are true and complete to the best of my knowledge and belief.															
Signature 				Printed Name Ann E. Ritchie				Title Regulatory Agent				Date 9-28-2003			

2

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Northwestern New Mexico

OIL OR GAS SANDS OR ZONES

IMPORTANT WATER SANDS

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness in Feet	Lithology

From	To	Thickness in Feet	Lithology

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 August 15, 2000

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

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

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹¹ 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
D	12	21S	26E		985	North	880	West	Eddy
¹² Dedicated Acres 320	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

¹⁶	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 Date 2/11/02	
	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	

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

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

DISTRICT III
1000 Rio Brazos Rd.
Aztec, NM 87410

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

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

Form C-1
Revised 02-10-

Instructions on back

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

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

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'

10 SURFACE LOCATION

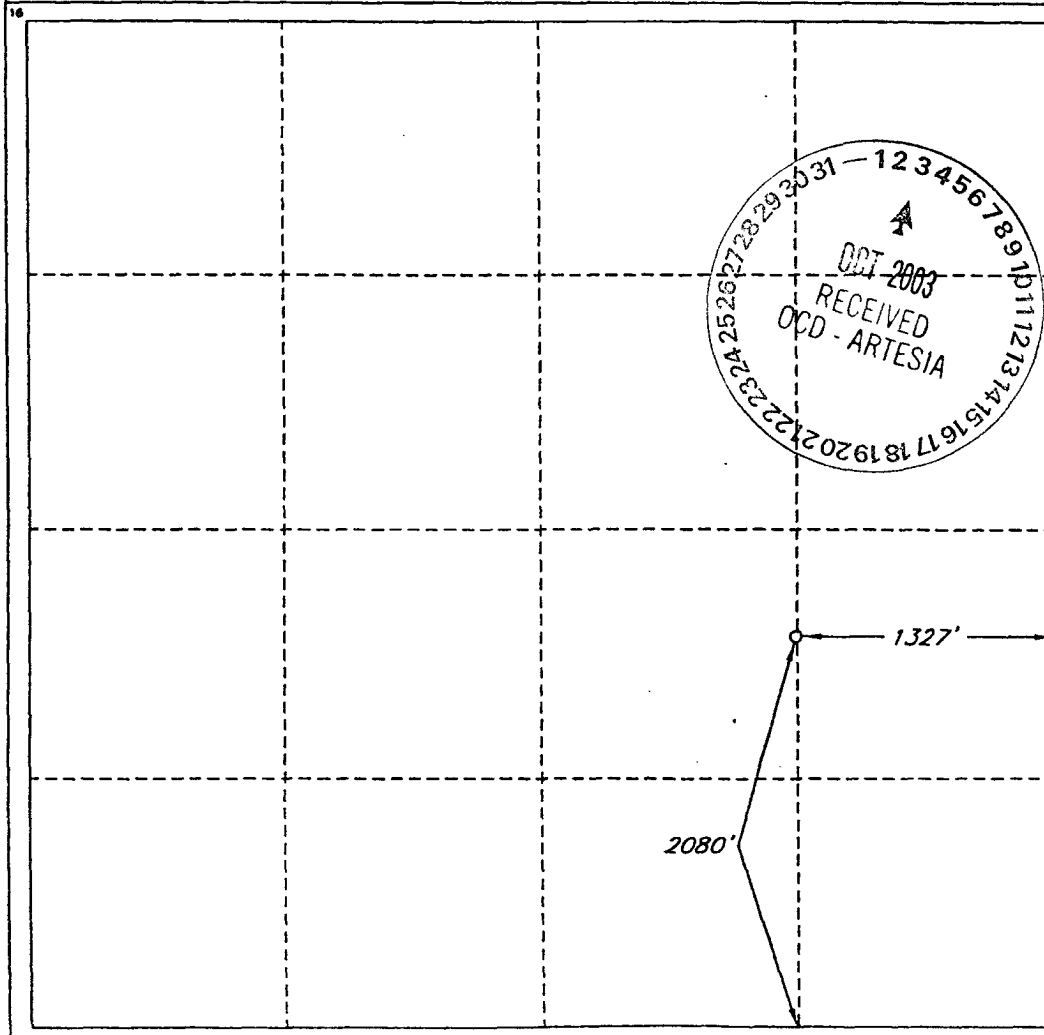
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
J	2	21 SOUTH	26 EAST, N.M.P.M.		2080'	SOUTH	1327'	EAST	EDDY

"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.
---------------------------	--------------------	-----------------------	--------------

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
Jim Kramer
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. L. BEZNER R.P.S. #7920

JOB #79290-75 SE / V.H.B.

OPERATOR: MATADOR OPERATING
WELL/LEASE: FED. 12 COM. 2
COUNTY: EDDY

046-0018

STATE OF NEW MEXICO
DEVIATION REPORT

321	1
566	1
881	1/2
1,366	3/4
1,903	3/4
2,354	1/4
2,669	1



By: Steve Moore

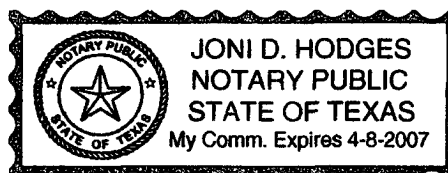
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 22nd day of April, 2003, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

Joni D. Hodges
Notary Public for Midland County, Texas

My Commission Expires: 4/08/2007





Ryan Energy Technologies Survey Report



Company: Matador Operating Company	Date: 5/6/2003	Time: 14:38:16	Page: 1
Field: Burton Flat	Co-ordinate(NE) Reference:	Site: Federal 12, True North	
Site: Federal 12	Vertical (TVD) Reference:	SITE 3205.0	
Well: Com #2	Section (VS) Reference:	Well (0.00N,0.00E,144.91Azi)	
Wellpath: OH	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Field: Burton Flat
Lea 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

Eddy County, New Mexico

Site Position:	Northing: 548833.70 ft	Latitude: 32 30 31.790 N
From: Geographic	Easting: 523651.21 ft	Longitude: 104 15 23.800 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 3185.00 ft		Grid Convergence: 0.04 deg

Well: Com #2

Slot Name:

Well Position:	+N/-S 0.00 ft	Northing: 548833.70 ft	Latitude: 32 30 31.790 N
	+E/-W 0.00 ft	Easting: 523651.21 ft	Longitude: 104 15 23.800 W
Position Uncertainty:	0.00 ft		

Wellpath: OH
30-025-36082

Current Datum: SITE

Height 3205.00 ft

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 9.01 deg
Mag Dip Angle: 60.58 deg
+E/-W Direction deg

Magnetic Data: 3/12/2003
Field Strength: 49676 nT
Vertical Section: Depth From (TVD)
ft

+N/-S ft

+E/-W ft

0.00

0.00

0.00

144.91

Survey: #2 Ryan MWD

Start Date: 3/12/2003

Company: Ryan Energy Technologies
Tool: MWD,

Engineer: Well Planning - Midland
Tied-to: From: #1 Scientific M/S Gyro

Survey: #2 Ryan MWD

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
2600.00	0.06	155.04	2599.83	-5.69	-14.73	-3.81	0.00	0.00	0.00	MWD
2664.00	0.30	148.20	2663.82	-5.86	-14.63	-3.61	0.38	0.37	-10.69	MWD
2711.00	1.10	149.40	2710.82	-6.36	-14.33	-3.04	1.70	1.70	2.55	MWD
2727.00	1.50	152.20	2726.82	-6.67	-14.15	-2.67	2.53	2.50	17.50	MWD
2759.00	2.30	150.70	2758.80	-7.61	-13.65	-1.62	2.50	2.50	-4.69	MWD
2791.00	3.00	150.90	2790.76	-8.90	-12.92	-0.15	2.19	2.19	0.62	MWD
2822.00	4.00	148.60	2821.71	-10.53	-11.97	1.74	3.26	3.23	-7.42	MWD
2854.00	4.80	147.40	2853.61	-12.61	-10.66	4.19	2.52	2.50	-3.75	MWD
2886.00	5.40	146.70	2885.48	-15.00	-9.11	7.03	1.89	1.87	-2.19	MWD
2917.00	6.00	145.50	2916.33	-17.55	-7.40	10.11	1.97	1.94	-3.87	MWD
2949.00	6.70	142.70	2948.13	-20.41	-5.32	13.65	2.39	2.19	-8.75	MWD
2980.00	7.40	139.10	2978.90	-23.36	-2.91	17.44	2.67	2.26	-11.61	MWD
3012.00	8.20	138.70	3010.60	-26.63	-0.06	21.76	2.51	2.50	-1.25	MWD
3044.00	9.00	139.50	3042.24	-30.25	3.07	26.52	2.53	2.50	2.50	MWD
3075.00	9.60	139.90	3072.84	-34.07	6.31	31.51	1.95	1.94	1.29	MWD
3107.00	10.20	140.10	3104.36	-38.29	9.85	36.99	1.88	1.87	0.62	MWD
3139.00	11.00	139.70	3135.81	-42.79	13.64	42.85	2.51	2.50	-1.25	MWD
3171.00	11.60	139.30	3167.19	-47.56	17.71	49.10	1.89	1.87	-1.25	MWD
3202.00	12.60	139.30	3197.50	-52.48	21.95	55.56	3.23	3.23	0.00	MWD
3234.00	13.40	140.30	3228.68	-57.98	26.60	62.73	2.60	2.50	3.12	MWD
3266.00	14.40	141.90	3259.75	-63.97	31.42	70.40	3.35	3.12	5.00	MWD
3297.00	15.20	142.60	3289.72	-70.23	36.27	78.31	2.64	2.58	2.26	MWD
3328.00	16.10	143.30	3319.57	-76.90	41.30	86.67	2.97	2.90	2.26	MWD
3360.00	16.80	143.70	3350.26	-84.19	46.69	95.73	2.22	2.19	1.25	MWD



Ryan Energy Technologies Survey Report



Company: Matador Operating Company
Field: Burton Flat
Site: Federal 12
Well: Com #2
Wellpath: OH

Date: 5/6/2003 Time: 14:38:16 Page: 2
Co-ordinate(NE) Reference: Site: Federal 12, True North
Vertical (TVD) Reference: SITE 3205.0
Section (VS) Reference: Well (0.00N,0.00E,144.91Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: #2 Ryan MWD

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
3391.00	17.60	142.90	3379.87	-91.54	52.17	104.89	2.69	2.58	-2.58	MWD
3423.00	18.10	140.50	3410.33	-99.23	58.25	114.68	2.78	1.56	-7.50	MWD
3455.00	18.80	139.60	3440.69	-106.99	64.76	124.77	2.36	2.19	-2.81	MWD
3487.00	19.60	139.80	3470.91	-115.02	71.56	135.25	2.51	2.50	0.62	MWD
3519.00	20.60	140.00	3500.96	-123.43	78.65	146.21	3.13	3.12	0.62	MWD
3550.00	21.60	140.40	3529.88	-132.01	85.79	157.33	3.26	3.23	1.29	MWD
3582.00	22.60	140.80	3559.53	-141.31	93.43	169.34	3.16	3.12	1.25	MWD
3614.00	23.50	140.30	3588.97	-150.98	101.39	181.83	2.88	2.81	-1.56	MWD
3646.00	24.40	140.00	3618.22	-160.96	109.71	194.77	2.84	2.81	-0.94	MWD
3677.00	25.40	139.70	3646.33	-170.93	118.13	207.77	3.25	3.23	-0.97	MWD
3709.00	26.60	139.80	3675.10	-181.64	127.19	221.74	3.75	3.75	0.31	MWD
3740.00	27.40	140.20	3702.72	-192.42	136.24	235.77	2.65	2.58	1.29	MWD
3772.00	28.50	140.60	3730.98	-203.98	145.80	250.72	3.49	3.44	1.25	MWD
3804.00	28.90	140.90	3759.05	-215.88	155.52	266.04	1.33	1.25	0.94	MWD
3835.00	29.00	141.20	3786.18	-227.55	164.96	281.02	0.57	0.32	0.97	MWD
3930.00	28.60	141.20	3869.43	-263.21	193.63	326.69	0.42	-0.42	0.00	MWD
4026.00	29.60	141.50	3953.31	-299.68	222.79	373.28	1.05	1.04	0.31	MWD
4120.00	29.70	141.70	4035.00	-336.12	251.67	419.71	0.15	0.11	0.21	MWD
4182.00	29.60	142.50	4088.88	-360.32	270.52	450.34	0.66	-0.16	1.29	MWD
4276.00	29.50	144.50	4170.66	-397.58	298.09	496.68	1.05	-0.11	2.13	MWD
4370.00	29.70	144.90	4252.39	-435.48	324.92	543.11	0.30	0.21	0.43	MWD
4464.00	29.60	145.40	4334.08	-473.64	351.49	589.61	0.28	-0.11	0.53	MWD
4558.00	29.30	145.60	4415.94	-511.73	377.67	635.83	0.34	-0.32	0.21	MWD
4652.00	28.50	146.00	4498.23	-549.30	403.20	681.25	0.88	-0.85	0.43	MWD
4746.00	30.00	146.40	4580.24	-587.46	428.75	727.17	1.61	1.60	0.43	MWD
4840.00	29.20	146.90	4661.97	-626.25	454.28	773.57	0.89	-0.85	0.53	MWD
4934.00	28.50	146.90	4744.31	-664.24	479.05	818.90	0.74	-0.74	0.00	MWD
5027.00	29.00	148.40	4825.84	-702.03	502.98	863.58	0.94	0.54	1.61	MWD
5121.00	29.20	145.50	4907.98	-740.34	527.91	909.25	1.52	0.21	-3.09	MWD
5216.00	28.20	145.70	4991.31	-777.98	553.68	954.87	1.06	-1.05	0.21	MWD
5310.00	28.30	145.60	5074.11	-814.71	578.79	999.36	0.12	0.11	-0.11	MWD
5403.00	28.30	144.60	5156.00	-850.87	604.01	1043.45	0.51	0.00	-1.08	MWD
5510.00	28.20	144.20	5250.25	-892.05	633.49	1094.09	0.20	-0.09	-0.37	MWD
5604.00	29.00	144.10	5332.78	-928.52	659.85	1139.08	0.85	0.85	-0.11	MWD
5698.00	28.80	145.60	5415.08	-965.66	686.00	1184.51	0.80	-0.21	1.60	MWD
5793.00	30.70	143.90	5497.55	-1004.14	713.22	1231.64	2.19	2.00	-1.79	MWD
5886.00	33.00	144.70	5576.55	-1044.00	741.84	1280.71	2.51	2.47	0.86	MWD
5981.00	31.80	143.40	5656.76	-1085.21	771.72	1331.61	1.46	-1.26	-1.37	MWD
6049.00	32.20	144.30	5714.42	-1114.31	792.97	1367.63	0.92	0.59	1.32	MWD
6081.00	33.00	144.20	5741.38	-1128.30	803.05	1384.87	2.51	2.50	-0.31	MWD
6111.00	33.20	144.30	5766.51	-1141.60	812.62	1401.26	0.69	0.67	0.33	MWD
6143.00	33.40	145.00	5793.26	-1155.93	822.78	1418.82	1.35	0.62	2.19	MWD
6174.00	32.60	145.50	5819.26	-1169.80	832.41	1435.71	2.73	-2.58	1.61	MWD
6205.00	32.60	144.90	5845.37	-1183.51	841.94	1452.41	1.04	0.00	-1.94	MWD
6237.00	31.90	144.70	5872.44	-1197.47	851.78	1469.48	2.21	-2.19	-0.62	MWD
6268.00	31.50	144.00	5898.81	-1210.70	861.28	1485.77	1.75	-1.29	-2.26	MWD
6299.00	31.60	144.30	5925.23	-1223.85	870.78	1501.99	0.60	0.32	0.97	MWD
6330.00	30.80	144.80	5951.75	-1236.93	880.09	1518.05	2.71	-2.58	1.61	MWD
6361.00	30.40	145.60	5978.43	-1249.89	889.10	1533.83	1.84	-1.29	2.58	MWD
6393.00	30.30	145.50	6006.04	-1263.22	898.24	1550.00	0.35	-0.31	-0.31	MWD
6424.00	30.10	145.30	6032.84	-1276.06	907.10	1565.59	0.72	-0.65	-0.65	MWD
6455.00	29.90	145.40	6059.68	-1288.81	915.91	1581.09	0.67	-0.65	0.32	MWD
6487.00	28.80	145.40	6087.58	-1301.72	924.82	1596.77	3.44	-3.44	0.00	MWD



Ryan Energy Technologies

Survey Report



Company: Matador Operating Company
Field: Burton Flat
Site: Federal 12
Well: Com #2
Wellpath: OH

Date: 5/6/2003 Time: 14:38:16 Page: 3
Co-ordinate(NE) Reference: Site: Federal 12, True North
Vertical (TVD) Reference: SITE 3205.0
Section (VS) Reference: Well (0.00N,0.00E,144.91Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: #2 Ryan MWD

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
6519.00	27.80	145.10	6115.75	-1314.18	933.46	1611.94	3.16	-3.12	-0.94	MWD
6551.00	27.30	144.40	6144.12	-1326.27	942.00	1626.74	1.86	-1.56	-2.19	MWD
6582.00	27.10	144.80	6171.69	-1337.82	950.21	1640.91	0.87	-0.65	1.29	MWD
6614.00	27.50	144.80	6200.13	-1349.82	958.67	1655.59	1.25	1.25	0.00	MWD
6645.00	27.50	144.70	6227.63	-1361.50	966.93	1669.91	0.15	0.00	-0.32	MWD
6677.00	26.80	144.60	6256.10	-1373.41	975.38	1684.51	2.19	-2.19	-0.31	MWD
6708.00	25.90	143.90	6283.88	-1384.58	983.42	1698.27	3.07	-2.90	-2.26	MWD
6739.00	25.60	143.30	6311.80	-1395.42	991.41	1711.73	1.28	-0.97	-1.94	MWD
6770.00	25.30	143.40	6339.79	-1406.11	999.36	1725.05	0.98	-0.97	0.32	MWD
6802.00	24.80	142.60	6368.78	-1416.93	1007.52	1738.59	1.89	-1.56	-2.50	MWD
6833.00	24.40	142.70	6396.97	-1427.19	1015.35	1751.48	1.30	-1.29	0.32	MWD
6865.00	25.40	143.20	6425.99	-1437.94	1023.46	1764.95	3.19	3.12	1.56	MWD
6896.00	26.60	144.70	6453.86	-1448.93	1031.46	1778.53	4.41	3.87	4.84	MWD
6927.00	27.80	144.80	6481.43	-1460.50	1039.63	1792.70	3.87	3.87	0.32	MWD
6959.00	27.90	144.50	6509.72	-1472.70	1048.28	1807.65	0.54	0.31	-0.94	MWD
6991.00	27.70	146.40	6538.03	-1484.99	1056.75	1822.57	2.84	-0.62	5.94	MWD
7021.00	28.40	148.00	6564.51	-1496.84	1064.39	1836.67	3.43	2.33	5.33	MWD
7052.00	29.20	149.00	6591.67	-1509.58	1072.19	1851.57	3.01	2.58	3.23	MWD
7084.00	29.30	149.10	6619.59	-1522.99	1080.23	1867.17	0.35	0.31	0.31	MWD
7116.00	29.20	148.40	6647.51	-1536.36	1088.34	1882.77	1.11	-0.31	-2.19	MWD
7179.00	28.80	149.10	6702.61	-1562.47	1104.19	1913.24	0.83	-0.63	1.11	MWD
7242.00	28.10	149.40	6758.00	-1588.26	1119.53	1943.17	1.13	-1.11	0.48	MWD
7304.00	28.10	148.60	6812.70	-1613.29	1134.57	1972.30	0.61	0.00	-1.29	MWD
7336.00	27.80	148.10	6840.96	-1626.06	1142.44	1987.27	1.19	-0.94	-1.56	MWD
7398.00	27.30	148.70	6895.93	-1650.48	1157.47	2015.89	0.92	-0.81	0.97	MWD
7492.00	27.30	145.80	6979.47	-1686.73	1180.79	2058.96	1.41	0.00	-3.09	MWD
7554.00	27.30	145.60	7034.56	-1710.22	1196.81	2087.39	0.15	0.00	-0.32	MWD
7617.00	26.90	145.30	7090.64	-1733.86	1213.09	2116.09	0.67	-0.63	-0.48	MWD
7648.00	26.90	144.80	7118.29	-1745.36	1221.12	2130.11	0.73	0.00	-1.61	MWD
7710.00	27.90	144.00	7173.33	-1768.55	1237.73	2158.64	1.72	1.61	-1.29	MWD
7804.00	26.90	142.40	7256.79	-1803.19	1263.63	2201.88	1.32	-1.06	-1.70	MWD
7835.00	26.10	142.30	7284.53	-1814.15	1272.08	2215.70	2.58	-2.58	-0.32	MWD
7866.00	25.80	142.60	7312.41	-1824.90	1280.35	2229.25	1.06	-0.97	0.97	MWD
7898.00	26.30	143.30	7341.15	-1836.12	1288.82	2243.29	1.83	1.56	2.19	MWD
7928.00	26.30	144.80	7368.05	-1846.88	1296.62	2256.58	2.22	0.00	5.00	MWD
7960.00	26.50	145.40	7396.71	-1858.54	1304.76	2270.81	1.04	0.62	1.87	MWD
7991.00	26.50	144.90	7424.46	-1869.90	1312.66	2284.64	0.72	0.00	-1.61	MWD
8023.00	26.70	146.10	7453.07	-1881.70	1320.78	2298.97	1.79	0.62	3.75	MWD
8054.00	27.90	146.90	7480.62	-1893.56	1328.62	2313.18	4.05	3.87	2.58	MWD
8085.00	28.90	146.50	7507.88	-1905.88	1336.72	2327.92	3.28	3.23	-1.29	MWD
8116.00	29.20	146.60	7534.98	-1918.44	1345.02	2342.97	0.98	0.97	0.32	MWD
8148.00	28.90	147.10	7562.96	-1931.45	1353.51	2358.50	1.21	-0.94	1.56	MWD
8210.00	27.80	146.10	7617.52	-1956.03	1369.72	2387.92	1.93	-1.77	-1.61	MWD
8242.00	27.30	145.50	7645.89	-1968.27	1378.04	2402.72	1.79	-1.56	-1.87	MWD
8273.00	28.10	145.70	7673.34	-1980.16	1386.18	2417.13	2.60	2.58	0.65	MWD
8335.00	30.10	146.10	7727.51	-2005.13	1403.08	2447.28	3.24	3.23	0.65	MWD
8398.00	30.40	146.20	7781.93	-2031.49	1420.76	2479.01	0.48	0.48	0.16	MWD
8460.00	30.90	145.50	7835.27	-2057.65	1438.50	2510.61	0.99	0.81	-1.13	MWD
8521.00	31.50	145.30	7887.45	-2083.66	1456.44	2542.21	1.00	0.98	-0.33	MWD
8551.00	31.80	144.60	7912.99	-2096.54	1465.48	2557.95	1.58	1.00	-2.33	MWD
8583.00	31.10	143.40	7940.29	-2110.05	1475.30	2574.64	2.93	-2.19	-3.75	MWD
8615.00	29.30	143.00	7967.94	-2122.94	1484.94	2590.73	5.66	-5.62	-1.25	MWD
8645.00	28.20	143.50	7994.24	-2134.50	1493.57	2605.15	3.75	-3.67	1.67	MWD



Ryan Energy Technologies Survey Report



Company: Matador Operating Company
Field: Burton Flat
Site: Federal 12
Well: Com #2
Wellpath: OH

Date: 5/6/2003 Time: 14:38:16 Page: 4
Co-ordinate(N/E) Reference: Site: Federal 12, True North
Vertical (TVD) Reference: SITE 3205.0
Section (VS) Reference: Well (0.00N,0.00E,144.91Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: #2 Ryan MWD

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
8677.00	27.90	143.20	8022.48	-2146.58	1502.55	2620.20	1.04	-0.94	-0.94	MWD
8708.00	27.90	142.70	8049.88	-2158.15	1511.29	2634.69	0.75	0.00	-1.61	MWD
8739.00	28.00	142.00	8077.26	-2169.66	1520.17	2649.21	1.11	0.32	-2.26	MWD
8770.00	28.00	142.00	8104.64	-2181.12	1529.13	2663.74	0.00	0.00	0.00	MWD
8801.00	28.00	142.60	8132.01	-2192.64	1538.03	2678.28	0.91	0.00	1.94	MWD
8833.00	28.10	141.90	8160.25	-2204.54	1547.24	2693.31	1.08	0.31	-2.19	MWD
8863.00	28.10	141.60	8186.71	-2215.63	1555.99	2707.42	0.47	0.00	-1.00	MWD
8894.00	28.30	141.70	8214.03	-2227.12	1565.08	2722.05	0.66	0.65	0.32	MWD
8931.00	28.10	141.90	8246.64	-2240.86	1575.89	2739.51	0.60	-0.54	0.54	MWD
8963.00	27.90	142.50	8274.90	-2252.73	1585.10	2754.51	1.08	-0.62	1.87	MWD
8994.00	27.90	142.20	8302.29	-2264.22	1593.96	2769.00	0.45	0.00	-0.97	MWD
9025.00	27.30	142.10	8329.76	-2275.56	1602.77	2783.35	1.94	-1.94	-0.32	MWD
9056.00	27.00	141.60	8357.35	-2286.68	1611.51	2797.47	1.22	-0.97	-1.61	MWD
9087.00	26.80	142.40	8384.99	-2297.73	1620.14	2811.48	1.33	-0.65	2.58	MWD
9117.00	26.30	143.30	8411.83	-2308.42	1628.24	2824.88	2.14	-1.67	3.00	MWD
9148.00	26.40	144.40	8439.61	-2319.53	1636.36	2838.64	1.61	0.32	3.55	MWD
9179.00	26.80	144.70	8467.33	-2330.84	1644.41	2852.52	1.36	1.29	0.97	MWD
9211.00	26.40	144.20	8495.94	-2342.50	1652.74	2866.85	1.43	-1.25	-1.56	MWD
9242.00	26.10	142.90	8523.75	-2353.53	1660.88	2880.55	2.09	-0.97	-4.19	MWD
9274.00	26.30	143.90	8552.46	-2364.87	1669.31	2894.67	1.51	0.62	3.12	MWD
9306.00	26.00	143.90	8581.18	-2376.26	1677.62	2908.78	0.94	-0.94	0.00	MWD
9338.00	26.40	145.60	8609.89	-2387.80	1685.77	2922.90	2.66	1.25	5.31	MWD
9370.00	26.30	146.90	8638.57	-2399.61	1693.66	2937.10	1.83	-0.31	4.06	MWD
9402.00	26.40	146.60	8667.25	-2411.49	1701.45	2951.30	0.52	0.31	-0.94	MWD
9431.00	26.70	147.40	8693.19	-2422.36	1708.51	2964.25	1.61	1.03	2.76	MWD
9462.00	27.40	146.90	8720.80	-2434.20	1716.15	2978.34	2.37	2.26	-1.61	MWD
9494.00	27.80	146.90	8749.15	-2446.62	1724.25	2993.15	1.25	1.25	0.00	MWD
9525.00	27.00	147.20	8776.68	-2458.59	1732.01	3007.41	2.62	-2.58	0.97	MWD
9554.00	26.60	145.70	8802.56	-2469.49	1739.23	3020.48	2.71	-1.38	-5.17	MWD
9586.00	27.30	145.60	8831.09	-2481.46	1747.42	3034.98	2.19	2.19	-0.31	MWD
9618.00	27.40	145.90	8859.51	-2493.61	1755.69	3049.68	0.53	0.31	0.94	MWD
9649.00	26.60	145.70	8887.13	-2505.25	1763.60	3063.75	2.60	-2.58	-0.65	MWD
9681.00	26.00	144.90	8915.82	-2516.91	1771.67	3077.93	2.18	-1.87	-2.50	MWD
9713.00	26.10	146.30	8944.57	-2528.51	1779.61	3091.98	1.95	0.31	4.37	MWD
9745.00	27.50	146.80	8973.13	-2540.55	1787.56	3106.40	4.43	4.37	1.56	MWD
9776.00	28.70	146.30	9000.47	-2552.73	1795.61	3121.00	3.94	3.87	-1.61	MWD
9807.00	28.60	146.40	9027.68	-2565.10	1803.85	3135.86	0.36	-0.32	0.32	MWD
9838.00	27.60	146.60	9055.03	-2577.28	1811.91	3150.45	3.24	-3.23	0.65	MWD
9870.00	26.70	146.90	9083.50	-2589.49	1819.91	3165.05	2.84	-2.81	0.94	MWD
9902.00	25.90	146.20	9112.19	-2601.32	1827.73	3179.22	2.68	-2.50	-2.19	MWD
9933.00	25.60	146.30	9140.11	-2612.51	1835.21	3192.68	0.98	-0.97	0.32	MWD
9965.00	26.50	146.10	9168.86	-2624.19	1843.03	3206.73	2.83	2.81	-0.62	MWD
9997.00	26.10	146.10	9197.54	-2635.96	1850.94	3220.91	1.25	-1.25	0.00	MWD
10029.00	25.90	145.90	9226.31	-2647.59	1858.78	3234.93	0.68	-0.62	-0.62	MWD
10060.00	26.60	145.60	9254.11	-2658.92	1866.50	3248.64	2.30	2.26	-0.97	MWD
10091.00	26.20	147.40	9281.88	-2670.41	1874.11	3262.42	2.89	-1.29	5.81	MWD
10122.00	27.30	147.50	9309.56	-2682.18	1881.61	3276.36	3.55	3.55	0.32	MWD
10152.00	28.10	147.50	9336.12	-2693.94	1889.10	3290.29	2.67	2.67	0.00	MWD
10183.00	28.00	147.50	9363.48	-2706.23	1896.94	3304.85	0.32	-0.32	0.00	MWD
10214.00	27.20	146.90	9390.95	-2718.30	1904.72	3319.20	2.73	-2.58	-1.94	MWD
10244.00	26.80	145.50	9417.68	-2729.62	1912.29	3332.82	2.50	-1.33	-4.67	MWD
10276.00	25.60	145.00	9446.39	-2741.23	1920.34	3346.95	3.81	-3.75	-1.56	MWD
10308.00	24.10	144.80	9475.43	-2752.23	1928.08	3360.39	4.69	-4.69	-0.62	MWD
10340.00	24.80	145.60	9504.56	-2763.11	1935.63	3373.64	2.42	2.19	2.50	MWD



Ryan Energy Technologies

Survey Report



Company: Matador Operating Company
Field: Burton Flat
Site: Federal 12
Well: Com #2
Wellpath: OH

Date: 5/6/2003 Time: 14:38:16 Page: 5
Co-ordinate(NE) Reference: Site: Federal 12, True North
Vertical (TVD) Reference: SITE 3205.0
Section (VS) Reference: Well (0.00N,0.00E,144.91Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: #2 Ryan MWD

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
10372.00	25.90	146.70	9533.48	-2774.49	1943.26	3387.33	3.74	3.44	3.44	MWD
10404.00	25.50	147.50	9562.31	-2786.14	1950.80	3401.20	1.65	-1.25	2.50	MWD
10436.00	25.30	147.50	9591.22	-2797.72	1958.17	3414.91	0.62	-0.62	0.00	MWD
10465.00	25.10	147.30	9617.46	-2808.12	1964.83	3427.25	0.75	-0.69	-0.69	MWD
10495.00	23.80	147.10	9644.77	-2818.56	1971.55	3439.66	4.34	-4.33	-0.67	MWD
10527.00	22.90	147.10	9674.15	-2829.20	1978.44	3452.33	2.81	-2.81	0.00	MWD
10558.00	23.60	146.10	9702.63	-2839.42	1985.18	3464.56	2.59	2.26	-3.23	MWD
10590.00	24.00	144.10	9731.91	-2850.01	1992.57	3477.47	2.81	1.25	-6.25	MWD
10621.00	23.10	143.30	9760.33	-2859.99	1999.90	3489.86	3.08	-2.90	-2.58	MWD
10653.00	22.30	143.90	9789.85	-2869.93	2007.23	3502.20	2.60	-2.50	1.87	MWD
10682.00	22.70	144.80	9816.64	-2878.95	2013.70	3513.30	1.82	1.38	3.10	MWD
10713.00	22.10	145.90	9845.30	-2888.66	2020.41	3525.11	2.36	-1.94	3.55	MWD
10744.00	21.40	146.10	9874.09	-2898.19	2026.84	3536.60	2.27	-2.26	0.65	MWD
10775.00	21.30	145.40	9902.97	-2907.52	2033.19	3547.88	0.88	-0.32	-2.26	MWD
10838.00	21.50	142.80	9961.62	-2926.13	2046.67	3570.86	1.54	0.32	-4.13	MWD
10870.00	21.00	142.70	9991.45	-2935.36	2053.69	3582.45	1.57	-1.56	-0.31	MWD
10902.00	20.90	143.10	10021.33	-2944.49	2060.59	3593.88	0.55	-0.31	1.25	MWD
10934.00	20.00	143.30	10051.32	-2953.44	2067.29	3605.06	2.82	-2.81	0.62	MWD
10965.00	18.90	143.80	10080.55	-2961.74	2073.42	3615.38	3.59	-3.55	1.61	MWD
10996.00	18.20	143.80	10109.94	-2969.70	2079.24	3625.24	2.26	-2.26	0.00	MWD
11027.00	18.00	144.00	10139.40	-2977.48	2084.92	3634.87	0.68	-0.65	0.65	MWD
11059.00	17.30	144.40	10169.89	-2985.35	2090.59	3644.57	2.22	-2.19	1.25	MWD
11090.00	16.80	144.70	10199.53	-2992.76	2095.87	3653.66	1.64	-1.61	0.97	MWD
11122.00	16.30	143.80	10230.21	-3000.15	2101.19	3662.77	1.76	-1.56	-2.81	MWD
11154.00	15.30	142.80	10261.00	-3007.14	2106.40	3671.48	3.24	-3.12	-3.12	MWD
11186.00	14.60	142.50	10291.91	-3013.70	2111.40	3679.73	2.20	-2.19	-0.94	MWD
11216.00	14.50	142.50	10320.95	-3019.68	2115.99	3687.26	0.33	-0.33	0.00	MWD
11247.00	13.70	143.30	10351.02	-3025.71	2120.55	3694.81	2.66	-2.58	2.58	MWD
11279.00	12.80	144.70	10382.17	-3031.64	2124.86	3702.14	2.99	-2.81	4.37	MWD
11311.00	12.70	144.70	10413.38	-3037.40	2128.94	3709.20	0.31	-0.31	0.00	MWD
11342.00	12.50	145.30	10443.63	-3042.94	2132.82	3715.97	0.77	-0.65	1.94	MWD
11374.00	11.80	145.70	10474.91	-3048.49	2136.64	3722.70	2.20	-2.19	1.25	MWD
11404.00	11.30	145.40	10504.31	-3053.44	2140.03	3728.71	1.68	-1.67	-1.00	MWD
11436.00	10.60	145.00	10535.72	-3058.44	2143.50	3734.78	2.20	-2.19	-1.25	MWD
11467.00	10.40	146.10	10566.20	-3063.09	2146.70	3740.43	0.91	-0.65	3.55	MWD
11499.00	10.10	146.90	10597.69	-3067.84	2149.84	3746.13	1.04	-0.94	2.50	MWD
11531.00	9.60	148.30	10629.22	-3072.46	2152.78	3751.59	1.73	-1.56	4.37	MWD
11556.00	9.30	146.90	10653.88	-3075.93	2154.98	3755.69	1.51	-1.20	-5.60	MWD
11586.00	9.30	146.90	10683.49	-3079.99	2157.62	3760.54	0.00	0.00	0.00	MWD
11617.00	8.60	144.90	10714.11	-3083.98	2160.32	3765.36	2.47	-2.26	-6.45	MWD
11648.00	8.50	144.70	10744.77	-3087.75	2162.98	3769.97	0.34	-0.32	-0.65	MWD
11679.00	8.40	144.60	10775.43	-3091.47	2165.62	3774.52	0.33	-0.32	-0.32	MWD
11711.00	8.40	144.40	10807.09	-3095.27	2168.33	3779.20	0.09	0.00	-0.62	MWD
11742.00	8.10	145.40	10837.76	-3098.91	2170.89	3783.65	1.07	-0.97	3.23	MWD
11774.00	8.00	145.40	10869.45	-3102.60	2173.43	3788.13	0.31	-0.31	0.00	MWD
11806.00	7.80	144.20	10901.15	-3106.19	2175.97	3792.52	0.81	-0.62	-3.75	MWD
11838.00	7.50	145.20	10932.86	-3109.67	2178.43	3796.78	1.03	-0.94	3.12	MWD
11869.00	7.70	145.00	10963.59	-3113.03	2180.78	3800.88	0.65	0.65	-0.65	MWD
11901.00	7.60	145.10	10995.30	-3116.52	2183.22	3805.14	0.32	-0.31	0.31	MWD
11931.00	7.60	146.90	11025.04	-3119.81	2185.43	3809.11	0.79	0.00	6.00	MWD
11963.00	7.40	147.10	11056.77	-3123.31	2187.71	3813.28	0.63	-0.62	0.62	MWD
11994.00	6.20	146.30	11087.55	-3126.38	2189.72	3816.95	3.88	-3.87	-2.58	MWD
12026.00	6.30	148.60	11119.36	-3129.32	2191.60	3820.43	0.84	0.31	7.19	MWD



Ryan Energy Technologies Survey Report



Company: Matador Operating Company
Field: Burton Flat
Site: Federal 12
Well: Com #2
Wellpath: OH

Date: 5/6/2003 Time: 14:38:16 Page: 6
Co-ordinate(NE) Reference: Site: Federal 12, True North
Vertical (TVD) Reference: SITE 3205.0
Section (VS) Reference: Well (0.00N,0.00E,144.91Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: #2 Ryan MWD

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
12057.00	6.10	149.50	11150.18	-3132.19	2193.32	3823.77	0.72	-0.65	2.90	MWD
12120.00	5.60	152.10	11212.85	-3137.79	2196.46	3830.16	0.90	-0.79	4.13	MWD
12213.00	5.00	154.00	11305.45	-3145.44	2200.36	3838.66	0.67	-0.65	2.04	MWD
12292.00	4.40	157.90	11384.18	-3151.35	2203.00	3845.02	0.86	-0.76	4.94	MWD
12340.00	4.40	157.90	11432.04	-3154.76	2204.39	3848.60	0.00	0.00	0.00	MWD

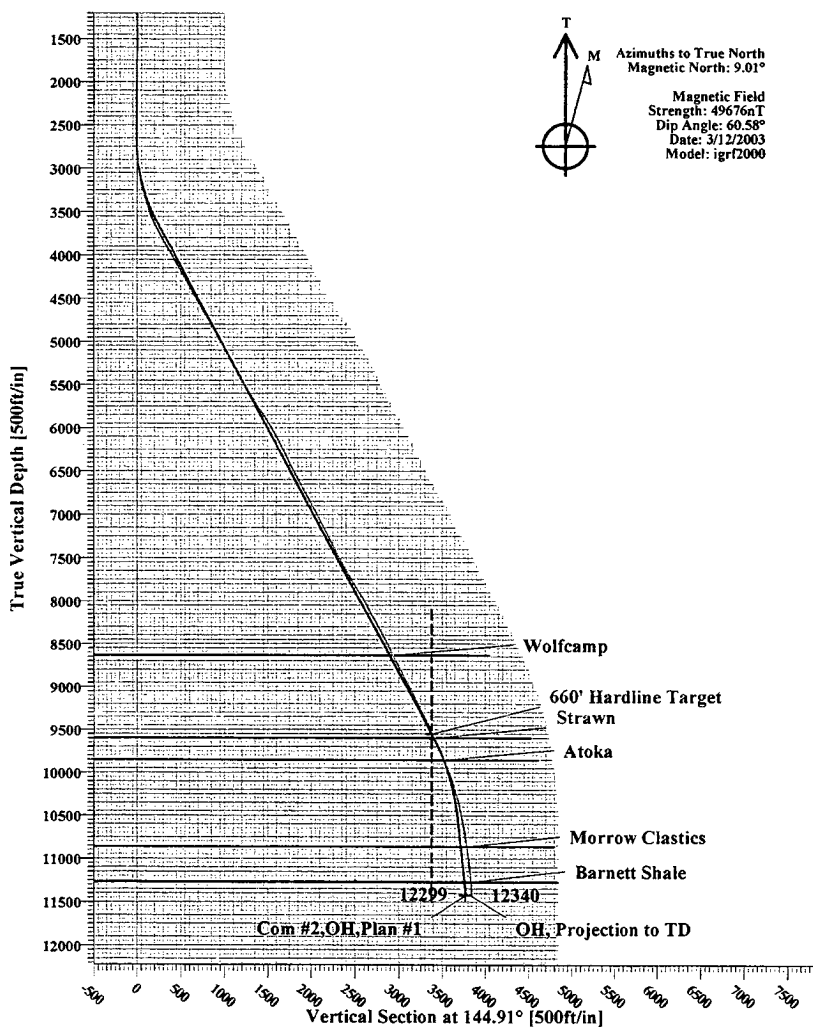
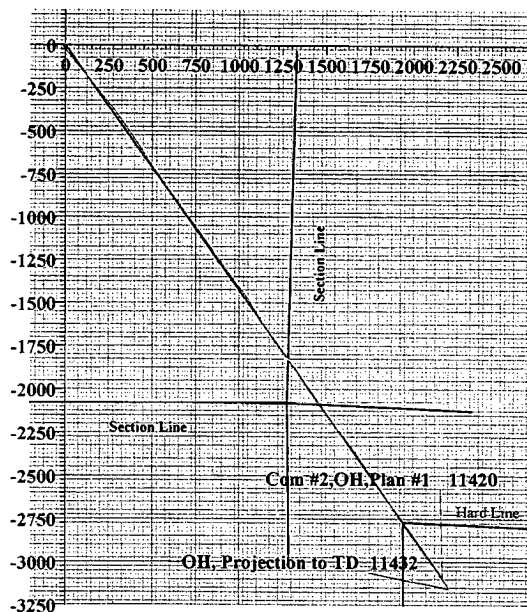
Matador Operating Company



Field: Burton Flat
Site: Federal 12
Well: Com #2
Wellpath: OH

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Com #2	8.00	0.00	548833.70	523651.21	32°30'31.790N	104°15'23.800W

South(-)/North(+) [250ft/in]



Azimuths to True North
Magnetic North: 9.01°
Magnetic Field
Strength: 49676nT
Dip Angle: 60.58°
Date: 3/12/2003
Model: igr12000

West(-)/East(+) [250ft/in]

TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
660' Hardline Target	9550.00	-2768.54	1942.70	Rectangle (50x50)
PBHL/TD	11420.00	-3083.62	2166.09	Point

FIELD DETAILS
Burton Flat
New Mexico
USA
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: igr12000
System Datum: Mean Sea Level
Local North: True North

SITE DETAILS
Federal 12
Eddy County, New Mexico
Site Centre Latitude: 32°30'31.790N
Longitude: 104°15'23.800W
Ground Level: 3185.00
Positional Uncertainty: 0.00
Convergence: 0.04

WELLPATH DETAILS
OH, Projection to TD
30-025-36882

Rig:	Patterson 46		
Ref. Datum:	SITE 3205.00ft		
V. Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD
144.91°	0.00	0.00	0.00

Wellpath: (Com #2/OH, Projection to TD)
Created By: Robbie Melancon Date: 9/30/2003
Checked: Date: