

Oxy Permian

Eddy Co., New Mexico

Dymes State #2

Dymes State #2

Lateral #1

Plan: Plan #4

Standard Survey Report

12 June, 2006

Black Viper Energy

Survey Report

Company:	Oxy Permian	Local Co-ordinate Reference:	Well Dymes State #2
Project:	Eddy Co., New Mexico	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Dymes State #2	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Dymes State #2	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	EDM 2003.14.1.0 Server DB

Project:	Eddy Co., New Mexico		
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:	Dymes State #2		
Site Position:		Northing:	631,342.20 ft
From:	Map	Easting:	534,777.00 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 44' 8.162 N
		Longitude:	104° 13' 12.860 W
		Grid Convergence:	0.06 °

Well:	Dymes State #2		
Well Position	+N-S	0.00 ft	Northing: 631,342.20 ft
	+E-W	0.00 ft	Easting: 534,777.00 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	32° 44' 8.162 N
		Longitude:	104° 13' 12.860 W
		Ground Level:	0.00 ft

Wellbore:	Lateral #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	5/18/2006	8.52
			Dip Angle
			60.67
			Field Strength
			49,400

Design:	Plan #4		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 7,800.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			311.54

Survey Tool Program	Date 6/12/2006		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
7,800.00	10,609.97	Plan #4 (Lateral #1)	MWD
			Description
			Standard MWD

Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N-S	+E-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
7,800.00	3.90	330.10	7,795.37	150.56	-34.68	125.80	0.00	0.00	0.00
KOP - Turn -16.89°/100									
7,900.00	3.56	312.96	7,895.16	155.62	-38.65	132.13	1.18	-0.34	-17.14
8,000.00	3.59	294.28	7,894.97	159.03	-43.77	138.23	1.16	0.02	-18.69
8,100.00	3.96	277.54	8,094.75	160.77	-50.05	144.08	1.16	0.38	-16.73
8,159.97	4.33	269.31	8,154.57	161.01	-54.37	147.47	1.16	0.60	-13.73
EOT - Hold 4.33°									
8,200.00	4.33	269.31	8,194.48	160.97	-57.39	149.71	0.00	0.00	0.00
8,300.00	4.33	269.31	8,294.20	160.88	-64.93	155.30	0.00	0.00	0.00
8,400.00	4.33	269.31	8,393.91	160.79	-72.47	160.88	0.00	0.00	0.00
8,500.00	4.33	269.31	8,493.63	160.70	-80.02	166.47	0.00	0.00	0.00
8,600.00	4.33	269.31	8,593.34	160.61	-87.56	172.05	0.00	0.00	0.00
8,700.00	4.33	269.31	8,693.06	160.52	-95.11	177.64	0.00	0.00	0.00

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Survey Report

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Project:	Eddy Co., New Mexico	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Dymes State #2	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Dymes State #2	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	EDM 2003.14.1.0 Server DB

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)
8,800.00	4.33	269.31	8,792.77	160.43	-102.65	183.23	0.00	0.00	0.00
8,900.00	4.33	269.31	8,892.49	160.34	-110.19	188.81	0.00	0.00	0.00
9,000.00	4.33	269.31	8,992.20	160.25	-117.74	194.40	0.00	0.00	0.00
9,100.00	4.33	269.31	9,091.92	160.16	-125.28	199.98	0.00	0.00	0.00
9,200.00	4.33	269.31	9,191.63	160.07	-132.83	205.57	0.00	0.00	0.00
9,300.00	4.33	269.31	9,291.35	159.98	-140.37	211.16	0.00	0.00	0.00
9,400.00	4.33	269.31	9,391.06	159.89	-147.91	216.74	0.00	0.00	0.00
9,500.00	4.33	269.31	9,490.78	159.80	-155.46	222.33	0.00	0.00	0.00
9,600.00	4.33	269.31	9,590.49	159.70	-163.00	227.91	0.00	0.00	0.00
9,640.50	4.33	269.31	9,630.88	159.67	-166.06	230.18	0.00	0.00	0.00
KOP - Drop -1.17°/100									
9,700.00	3.63	269.31	9,690.23	159.62	-170.18	233.23	1.17	-1.17	0.00
9,800.00	2.48	269.31	9,790.09	159.55	-175.50	237.16	1.17	-1.17	0.00
9,900.00	1.29	269.31	9,890.04	159.51	-178.76	239.58	1.17	-1.17	0.00
10,000.00	0.12	269.31	9,990.03	159.50	-179.99	240.49	1.17	-1.17	0.00
10,009.97	0.00	0.00	10,000.00	159.50	-180.00	240.50	1.17	-1.17	909.62
EOD - Hold 0° to TD									
10,100.00	0.00	0.00	10,090.03	159.50	-180.00	240.50	0.00	0.00	0.00
10,200.00	0.00	0.00	10,190.03	159.50	-180.00	240.50	0.00	0.00	0.00
10,300.00	0.00	0.00	10,290.03	159.50	-180.00	240.50	0.00	0.00	0.00
10,400.00	0.00	0.00	10,390.03	159.50	-180.00	240.50	0.00	0.00	0.00
10,500.00	0.00	0.00	10,490.03	159.50	-180.00	240.50	0.00	0.00	0.00
10,600.00	0.00	0.00	10,590.03	159.50	-180.00	240.50	0.00	0.00	0.00
10,609.97	0.00	0.00	10,600.00	159.50	-180.00	240.50	0.00	0.00	0.00

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL(DST#2)	0.00	0.00	10,600.00	159.50	-180.00	631,501.70	534,597.00	32° 44' 9.742 N	104° 13' 14.965 W
- plan hits target									
- Point									
PP(DST#2)	0.00	0.00	10,000.00	159.50	-180.00	631,501.70	534,597.00	32° 44' 9.742 N	104° 13' 14.965 W
- plan hits target									
- Point									

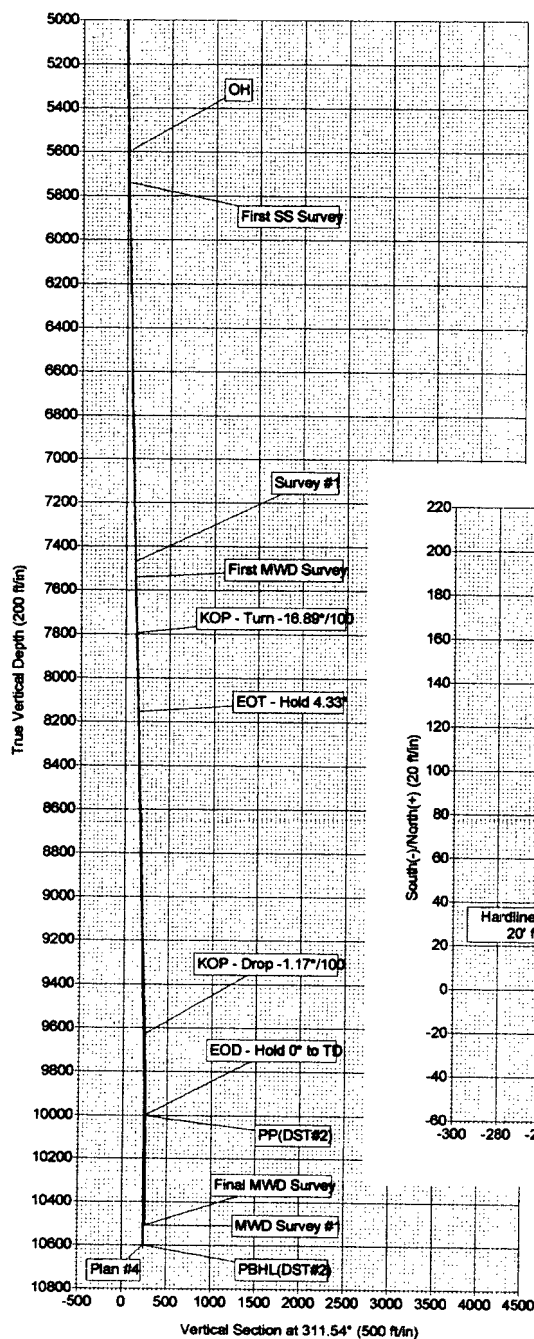
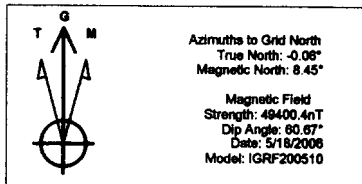
Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
7,800.00	7,795.37	150.56	-34.68	KOP - Turn -16.89°/100
8,159.97	8,154.57	161.01	-54.37	EOT - Hold 4.33°
9,640.50	9,630.88	159.67	-166.06	KOP - Drop -1.17°/100
10,009.97	10,000.00	159.50	-180.00	EOD - Hold 0° to TD

Checked By: _____ Approved By: _____ Date: _____



Project: Eddy Co., New Mexico
 Site: Dymes State #2
 Well: Dymes State #2
 Wellbore: Lateral #1
 Plan: Plan #4 (Dymes State #2/Lateral #1)

PROJECT DETAILS: Eddy Co., New Mexico
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Ground Level



Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	7800.00	3.90	330.10	7795.37	150.56	-34.68	0.00	0.00	125.80	Target
2	8159.97	4.33	289.31	8154.57	161.01	-54.37	1.16	-115.27	147.47	
3	9640.50	4.33	289.31	9630.87	159.67	-166.06	0.00	0.00	230.18	
4	10009.97	0.00	0.00	10000.00	159.50	-180.00	1.17	180.00	240.50	PP(DST#2)
5	10609.97	0.00	0.00	10600.00	159.50	-180.00	0.00	0.00	240.50	PBHL(DST#2)

