

SUR: O-12-18s-34e, 822/S & 1838/E
BHL: O-12-18s-34e, 719/S & 1632/E
API #30-025-20005

Dyad Petroleum Company

Lea Co., New Mexico

"BO" State #6

"BO" State #6

SideTrack #1

Survey: MWD Survey #1

Standard Survey Report

07 October, 2004



From	To	Date	Tool Name	Description
0	0	Survey (Wellbore)		
		0		

Black Viper Energy Services

Survey Report



Database: EDM 2003.5 Single User Db
 Company: Dyad Petroleum Company
 Project: Lea Co., New Mexico
 Site: "BO" State #6
 Well: "BO" State #6
 Wellbore: SideTrack #1
 Design: SideTrack #1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well "BO" State #6
 WELL @ 0.00ft (Original Well Elev)
 WELL @ 0.00ft (Original Well Elev)
 True
 Minimum Curvature

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)
3551.00	1.25	23.00	3550.70	27.03	5.58	-13.10	0.00	0.00	0.00
3591.00	1.57	28.06	3590.69	27.92	6.01	-13.35	0.86	0.80	12.65
First MWD Survey									
3621.00	1.23	38.65	3620.68	28.53	6.40	-13.44	1.42	-1.13	35.30
3652.00	1.20	16.44	3651.68	29.11	6.70	-13.58	1.51	-0.10	-71.65
3684.00	1.31	24.72	3683.67	29.76	6.95	-13.81	0.66	0.34	25.87
3714.00	1.46	67.29	3713.66	30.22	7.44	-13.72	3.38	0.50	141.90
3745.00	2.58	90.60	3744.64	30.36	8.51	-13.00	4.41	3.61	75.19
3776.00	4.26	101.79	3775.59	30.12	10.33	-11.45	5.81	5.42	36.10
3807.00	4.34	106.48	3806.50	29.55	12.58	-9.36	1.16	0.26	15.13
3837.00	5.60	106.06	3836.39	28.83	15.08	-6.98	4.20	4.20	-1.40
3868.00	6.38	111.93	3867.22	27.76	18.13	-3.96	3.20	2.52	18.94
3898.00	6.53	116.34	3897.03	26.38	21.20	-0.72	1.73	0.50	14.70
3930.00	6.80	123.90	3928.81	24.52	24.41	2.94	2.87	0.84	23.62
3961.00	8.53	122.60	3959.53	22.26	27.87	7.04	5.61	5.58	-4.19
3992.00	9.47	127.49	3990.15	19.47	31.83	11.87	3.91	3.03	15.77
4022.00	10.33	129.49	4019.70	16.25	35.86	17.02	3.09	2.87	6.67
4053.00	10.78	127.59	4050.18	12.72	40.30	22.70	1.83	1.45	-6.13
4085.00	12.05	125.89	4081.55	8.93	45.38	29.02	4.11	3.97	-5.31
4116.00	12.87	125.95	4111.82	5.01	50.80	35.69	2.65	2.65	0.19
4144.00	12.21	125.37	4139.15	1.47	55.74	41.76	2.40	-2.36	-2.07
4179.00	12.02	123.60	4173.37	-2.69	61.79	49.07	1.19	-0.54	-5.06
4210.00	11.67	125.80	4203.71	-6.31	67.02	55.40	1.84	-1.13	7.10
4242.00	12.21	126.66	4235.02	-10.23	72.36	62.01	1.78	1.69	2.69
4273.00	12.96	127.18	4265.27	-14.29	77.76	68.75	2.45	2.42	1.68
4304.00	12.73	127.56	4295.49	-18.47	83.24	75.64	0.79	-0.74	1.23
4336.00	12.73	124.52	4326.71	-22.62	88.94	82.67	2.09	0.00	-9.50
4367.00	12.30	124.17	4356.97	-26.41	94.49	89.35	1.41	-1.39	-1.13
4399.00	11.85	125.51	4388.26	-30.23	99.98	96.02	1.66	-1.41	4.19
4430.00	11.86	125.48	4418.60	-33.93	105.16	102.37	0.04	0.03	-0.10
4462.00	11.33	123.73	4449.95	-37.58	110.46	108.77	1.99	-1.66	-5.47
4494.00	12.30	124.45	4481.27	-41.25	115.88	115.29	3.07	3.03	2.25
4526.00	12.00	125.13	4512.55	-45.10	121.41	122.00	1.04	-0.94	2.12
4557.00	12.08	124.79	4542.87	-48.80	126.71	128.44	0.34	0.26	-1.10
4588.00	11.57	125.02	4573.21	-52.44	131.92	134.76	1.65	-1.65	0.74
4619.00	11.51	124.12	4603.59	-55.96	137.03	140.94	0.61	-0.19	-2.90
Last MWD Survey									
5035.00	11.51	124.12	5011.22	-102.52	205.75	223.51	0.00	0.00	0.00
Proj to Bit									

Black Viper Energy Services Survey Report



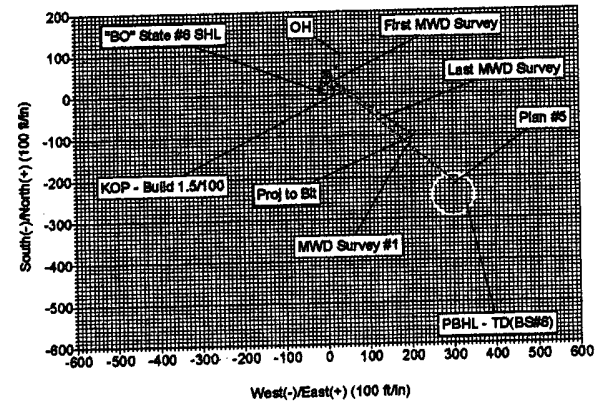
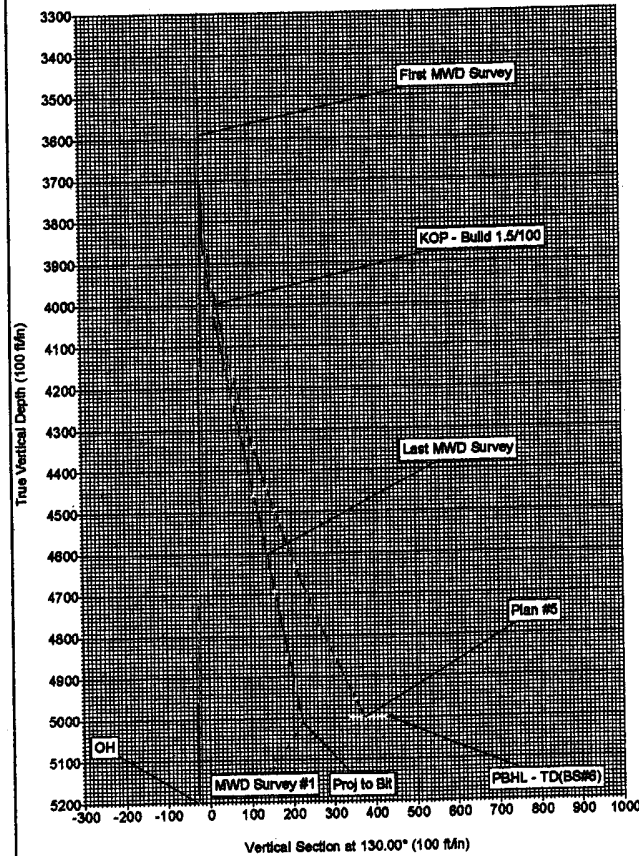
Database:	EDM 2003.5 Single User Db	Local Co-ordinate Reference:	Well "BO" State #6
Company:	Dyad Petroleum Company	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Project:	Lea Co., New Mexico	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	"BO" State #6	North Reference:	True
Well:	"BO" State #6	Survey Calculation Method:	Minimum Curvature
Wellbore:	SideTrack #1		
Design:	SideTrack #1		

Targets								
Target Name	Shape	TVD (ft)	Northing (ft)	Easting (ft)	+N/-S ft	+E/-W ft	Created	Updated
PBHL - TD(BS#6)	Circle	5000.00	11888089.86	2099334.96	-280.90	334.76	7/22/2004	8/28/2004

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3591.00	3590.69	27.92	6.01	First MWD Survey
4619.00	4603.59	-55.96	137.03	Last MWD Survey
5035.00	5011.22	-102.52	205.75	Proj to Bit

Dyad Petroleum Company

Project: Lea Co., New Mexico
Site: "BO" State #8
Well: "BO" State #8
Wellbore: SideTrack #1
Plan: Plan #5



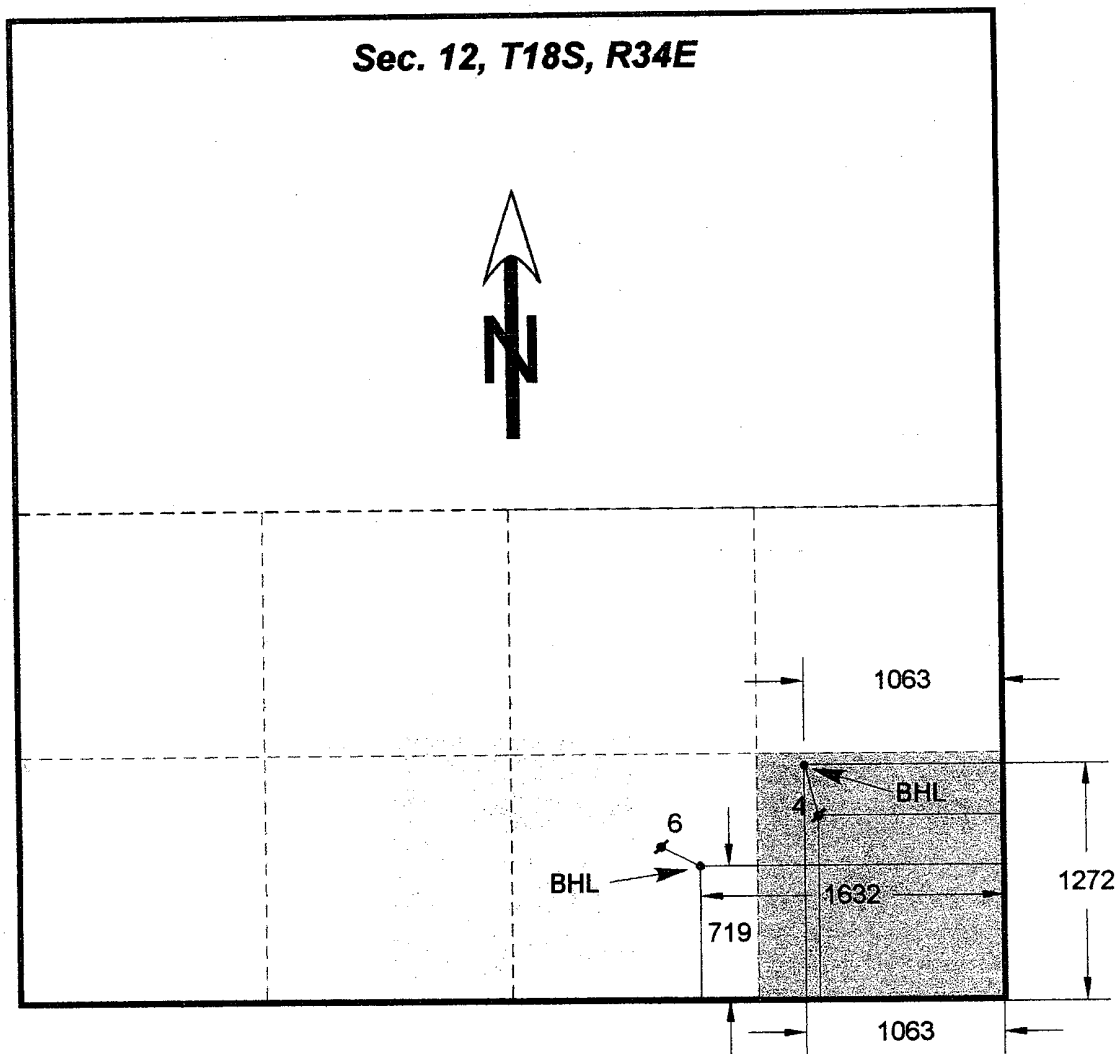
Azimuths to True North
Magnetic North: 9.60°
Magnetic Field
Strength: 48838.8nT
Dip Angle: 60.94°
Date: 7/22/2004
Model: IGRF2000

ANNOTATIONS
TVD MD Annotation
3997.28 4000.00 KOP - Build 2/100
3997.28 4000.00 KOP - Build 1.5/100

Plan: Plan #5 ("BO" State #8) SideTrack #1
Created By: Mike Stanley Date: 09/28/2004
Checked: Date:

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	3551.00	1.25	23.00	3550.70	27.03	5.58	0.00	0.00	-13.10	
2	3815.00	1.25	28.00	3814.89	28.29	6.18	0.17	82.50	-13.45	
3	4000.00	11.23	130.00	3997.28	7.83	36.97	3.00	108.00	23.29	
4	5085.39	27.21	130.00	5000.00	-216.88	304.78	1.50	0.00	372.88	PBHL - TD(BS#6)



Dyad Petroleum Co.
"BO" Prospect
Lea Co., NM

Sec 12, T18S, R34E

"BO" State #4:
Surface Location: 993' FSL, 990' FEL (SE/4 SE/4)
BHL Location: 1272' FSL, 1063' FEL
API No.: 30-025-02321

"BO" State #6:
Surface Location: 822' FSL, 1838' FEL (SW/4 SE/4)
BHL Location: 719' FSL, 1632' FEL
API No.: 30-025-20005

Scale: 1 in. = 1000 ft.