MEASUREMENT WHILE DRILLING SERVICES

November 19, 2004

SUR: P-12-18s-34e, 993/S & 990/E
BHL: P-12-18s-34e, 1272/S & 1063/E
API # 30-025-02321

Oil Conservation Division
Hobbs District Office
1625 N. French Drive
Hobbs, New Mexico 88240

Attention: Mr. Chris Williams
District Supervisor

Re: Dyad Petroleum Company
"BO" State #4
Lea County, New Mexico
Adobe Drilling-Mule Skinner
API #30-025-02321

Enclosed please find the original and one copy of the survey(s) performed on the referenced well(s) by MWD Services, Inc. (Operator No. 519015). Other information required by your office is as follows:

Name & Title Of Surveyor(s)	Drainhole No.	Survey Depths	Date Performed	Survey Type
Garry Hendrix (MWD Field Operator)	Original	1,612'-4,920'	08/10/04-08/20/04	MWD

A certified land plat on which the bottom hole location is oriented both to the surface and to the lease lines (or unit line in case of pooling) is attached to the survey report(s). If any other information is required, please contact the undersigned at the letterhead address and phone number.

Regards,

Clyde J. Cormier
President

Enclosures

CC: Dyad Petroleum Company
Black Viper Energy Services, Ltd.

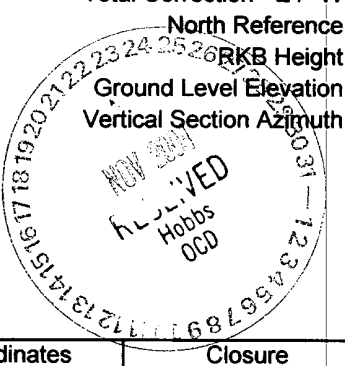
MWD SERVICES, INC. • P.O. Box 750 / 219 Griffin Road • Youngsville, LA 70592
(337) 856-5965 • Fax: (337) 856-9091

MWD SURVEY REPORT
MWD Services, Inc.

MEASUREMENT WHILE DRILLING SERVICES

Report Date :	AUGUST 20, 2004	Target +N / -S =	300.0'
Job Number :	04103	Target +E / -W =	0.0'
Operator :	DYAD PETROLEUM COMPANY	Target TVD =	5000.0'
Lease / Well :	"BO" STATE #4	Magnetic Declination +E / -W =	8.60°
Location :	LEA COUNTY, NEW MEXICO	Grid Convergence +E / -W =	N/A
Field :	DEVONIAN	Total Correction +E / -W =	8.60°
Contractor / Rig :	ADOBE DRILLING MULE SKINNER	North Reference =	True
Directional Company :	BLACK VIPER ENERGY SERVICES, LTD.	RKB Height =	13.50'
MWD Field Rep. :	GARY HENDRIX	Ground Level Elevation =	3923'
Tie In Survey Reference :	GEARHART GYRO SERVICES	Vertical Section Azimuth =	345.00°
Calculation Method :	MINIMUM CURVATURE		

Comments :
SURVEY #0 = TIE IN SURVEY
SURVEY #60 = STRAIGHT LINE PROJECTED SURVEY TO BIT DEPTH



Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates +N / -S (ft)	Coordinates +E / -W (ft)	Closure Distance (ft)	Closure Azimuth (deg)	Dogleg Severity (deg/100 ')
0	1577.00'	3.04°	343.60°		1576.01'	24.72'	24.67'	-7.98'	25.93'	342.08°	
1	1612.00'	3.30°	359.50°	35'	1610.96'	27.80'	26.57'	-8.25'	27.82'	342.75°	2.61°
2	1642.00'	3.90°	2.30°	30'	1640.90'	29.61'	28.45'	-8.22'	29.61'	343.89°	2.08°
3	1674.00'	4.10°	359.80°	32'	1672.82'	31.75'	30.68'	-8.18'	31.75'	345.08°	0.83°
4	1706.00'	4.70°	355.80°	32'	1704.73'	34.15'	33.13'	-8.28'	34.15'	345.97°	2.10°
5	1737.00'	4.90°	352.50°	31'	1735.62'	36.71'	35.71'	-8.54'	36.72'	346.55°	1.10°
6	1768.00'	4.70°	352.10°	31'	1766.51'	39.28'	38.28'	-8.89'	39.30'	346.93°	0.65°
7	1830.00'	4.60°	354.20°	62'	1828.30'	44.25'	43.27'	-9.49'	44.30'	347.63°	0.32°
8	1893.00'	4.50°	351.40°	63'	1891.11'	49.20'	48.23'	-10.12'	49.28'	348.15°	0.39°
9	1956.00'	4.50°	356.60°	63'	1953.91'	54.08'	53.14'	-10.63'	54.19'	348.69°	0.65°
10	2019.00'	4.90°	347.90°	63'	2016.70'	59.19'	58.24'	-11.34'	59.33'	348.98°	1.30°
11	2081.00'	4.90°	345.80°	62'	2078.47'	64.48'	63.39'	-12.55'	64.62'	348.80°	0.29°
12	2144.00'	4.60°	348.80°	63'	2141.26'	69.69'	68.48'	-13.70'	69.84'	348.69°	0.62°
13	2206.00'	4.70°	342.60°	62'	2203.05'	74.71'	73.34'	-14.94'	74.85'	348.49°	0.83°
14	2268.00'	4.70°	344.10°	62'	2264.85'	79.79'	78.21'	-16.40'	79.91'	348.16°	0.20°
15	2331.00'	4.60°	345.40°	63'	2327.64'	84.90'	83.14'	-17.74'	85.01'	347.95°	0.23°
16	2393.00'	4.40°	342.30°	62'	2389.45'	89.76'	87.81'	-19.09'	89.86'	347.73°	0.51°
17	2455.00'	4.40°	343.60°	62'	2451.26'	94.51'	92.36'	-20.48'	94.60'	347.49°	0.16°
18	2518.00'	4.50°	345.10°	63'	2514.07'	99.40'	97.06'	-21.80'	99.48'	347.34°	0.24°
19	2582.00'	4.50°	346.00°	64'	2577.88'	104.42'	101.93'	-23.06'	104.50'	347.25°	0.11°
20	2644.00'	4.50°	348.60°	62'	2639.69'	109.28'	106.67'	-24.12'	109.36'	347.26°	0.33°
21	2707.00'	4.80°	339.60°	63'	2702.48'	114.37'	111.56'	-25.53'	114.45'	347.11°	1.25°
22	2770.00'	4.80°	341.40°	63'	2765.26'	119.62'	116.53'	-27.29'	119.69'	346.82°	0.24°
23	2831.00'	4.80°	344.40°	61'	2826.04'	124.72'	121.41'	-28.79'	124.78'	346.66°	0.41°
24	2893.00'	4.80°	340.40°	62'	2887.83'	129.90'	126.35'	-30.36'	129.95'	346.49°	0.54°
25	2956.00'	4.90°	342.90°	63'	2950.60'	135.22'	131.41'	-32.03'	135.25'	346.30°	0.37°
26	3019.00'	4.50°	343.50°	63'	3013.39'	140.38'	136.35'	-33.53'	140.41'	346.19°	0.64°
27	3083.00'	4.50°	349.90°	64'	3077.19'	145.39'	141.23'	-34.68'	145.42'	346.20°	0.78°
28	3146.00'	4.50°	340.80°	63'	3140.00'	150.32'	145.99'	-35.93'	150.35'	346.17°	1.13°

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates +N / -S (ft)	Coordinates +E / -W (ft)	Closure Distance (ft)	Closure Azimuth (deg)	Dogleg Severity (deg/100 ')
29	3209.00'	4.60°	343.00°	63'	3202.80'	155.31'	150.74'	-37.48'	155.33'	346.04°	0.32°
30	3273.00'	4.90°	344.10°	64'	3266.58'	160.61'	155.83'	-38.98'	160.63'	345.96°	0.49°
31	3336.00'	4.30°	344.70°	63'	3329.38'	165.66'	160.69'	-40.34'	165.68'	345.91°	0.96°
32	3399.00'	4.10°	352.00°	63'	3392.21'	170.25'	165.20'	-41.27'	170.28'	345.97°	0.91°
33	3462.00'	4.20°	358.60°	63'	3455.04'	174.73'	169.74'	-41.64'	174.77'	346.21°	0.77°
34	3525.00'	5.10°	350.50°	63'	3517.84'	179.76'	174.81'	-42.16'	179.82'	346.44°	1.77°
35	3557.00'	5.30°	342.80°	32'	3549.71'	182.65'	177.62'	-42.84'	182.71'	346.44°	2.27°
36	3621.00'	5.20°	335.00°	64'	3613.44'	188.46'	183.07'	-44.93'	188.51'	346.21°	1.13°
37	3652.00'	5.10°	338.40°	31'	3644.31'	191.22'	185.63'	-46.04'	191.25'	346.07°	1.04°
38	3684.00'	4.70°	340.70°	32'	3676.20'	193.94'	188.19'	-46.99'	193.97'	345.98°	1.39°
39	3715.00'	4.80°	344.30°	31'	3707.09'	196.50'	190.63'	-47.76'	196.53'	345.93°	1.01°
40	3778.00'	4.70°	343.80°	63'	3769.87'	201.72'	195.65'	-49.20'	201.74'	345.89°	0.17°
41	3842.00'	4.40°	340.20°	64'	3833.67'	206.78'	200.48'	-50.76'	206.80'	345.79°	0.65°
42	3903.00'	4.40°	342.10°	61'	3894.49'	211.45'	204.91'	-52.27'	211.47'	345.69°	0.24°
43	3965.00'	4.90°	347.70°	62'	3956.29'	216.47'	209.76'	-53.57'	216.49'	345.67°	1.09°
44	4028.00'	4.80°	348.90°	63'	4019.06'	221.79'	214.97'	-54.65'	221.81'	345.74°	0.23°
45	4060.00'	4.30°	345.80°	32'	4050.96'	224.33'	217.45'	-55.20'	224.35'	345.76°	1.74°
46	4120.00'	4.50°	342.30°	60'	4110.78'	228.93'	221.87'	-56.47'	228.94'	345.72°	0.56°
47	4152.00'	4.60°	341.50°	32'	4142.68'	231.46'	224.28'	-57.26'	231.48'	345.68°	0.37°
48	4182.00'	4.50°	341.60°	30'	4172.59'	233.84'	226.54'	-58.01'	233.85'	345.64°	0.33°
49	4245.00'	4.40°	345.90°	63'	4235.40'	238.72'	231.23'	-59.38'	238.73'	345.60°	0.55°
50	4308.00'	4.40°	350.10°	63'	4298.21'	243.54'	235.96'	-60.38'	243.56'	345.65°	0.51°
51	4339.00'	3.80°	347.40°	31'	4329.13'	245.75'	238.13'	-60.81'	245.77'	345.67°	2.03°
52	4402.00'	4.20°	340.60°	63'	4391.98'	250.14'	242.34'	-62.03'	250.16'	345.64°	0.98°
53	4463.00'	4.10°	345.70°	61'	4452.82'	254.55'	246.56'	-63.31'	254.56'	345.60°	0.63°
54	4525.00'	4.00°	340.90°	62'	4514.67'	258.92'	250.75'	-64.57'	258.93'	345.56°	0.57°
55	4588.00'	4.40°	345.30°	63'	4577.50'	263.53'	255.17'	-65.90'	263.54'	345.52°	0.81°
56	4651.00'	4.20°	341.40°	63'	4640.32'	268.25'	259.69'	-67.25'	268.26'	345.48°	0.56°
57	4747.00'	4.10°	343.50°	96'	4736.07'	275.19'	266.31'	-69.35'	275.19'	345.40°	0.19°
58	4809.00'	4.50°	344.80°	62'	4797.89'	279.84'	270.79'	-70.61'	279.84'	345.38°	0.66°
59	4872.00'	4.10°	344.60°	63'	4860.72'	284.56'	275.34'	-71.86'	284.57'	345.37°	0.64°
60	4920.00'	4.10°	344.60°	48'	4908.59'	287.99'	278.65'	-72.77'	288.00'	345.36°	0.00°

MEASUREMENT WHILE DRILLING SERVICES

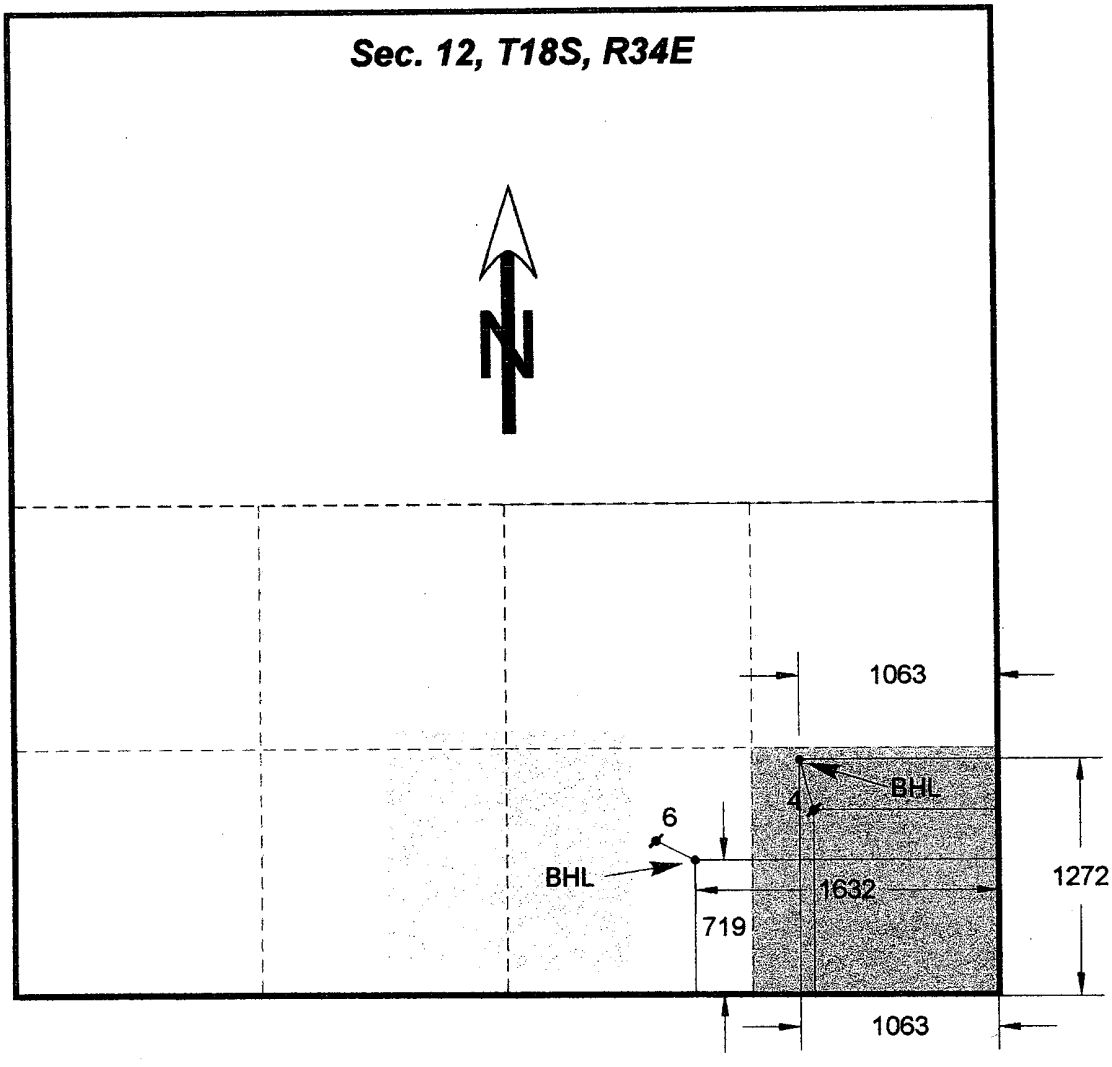
MWD Survey Certification

State of New Mexico
County of Lea

I, Garry Hendrix, certify that; I am employed by MWD Services, Inc.; that I did on the day(s) of 08/10/04 through 08/20/04 conduct or supervise the taking of MWD survey(s) from a depth of 1,612 feet to a depth of 4,920 feet; that the data is true, correct, complete and within the limitations of the tool set forth by MWD Services, Inc.; that I am authorized and qualified to make this report; that this report was conducted at the request of Dyad Petroleum Company, for the "BO" State Well #4, API No. 30-025-02321 and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by MWD Services, Inc.

Garry Hendrix
MWD Field Operator

MWD SERVICES, INC. • P.O. Box 750 / 219 Griffin Road • Youngsville, LA 70592
(337) 856-5965 • Fax: (337) 856-9091



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.