

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Ed., Aztec, NM 87410

DISTRICT IV
1220 St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-34764	Pool Code 47545	Pool Name NASH DRAW; DELAWARE/BONE SPRING (AVALON SD)
Property Code 35100	Property Name HORNE TOAD "36" STATE	Well Number 1H
OGRID No. 001801	Operator Name BEPCO, L.P.	Elevation 3130'

Surface Location

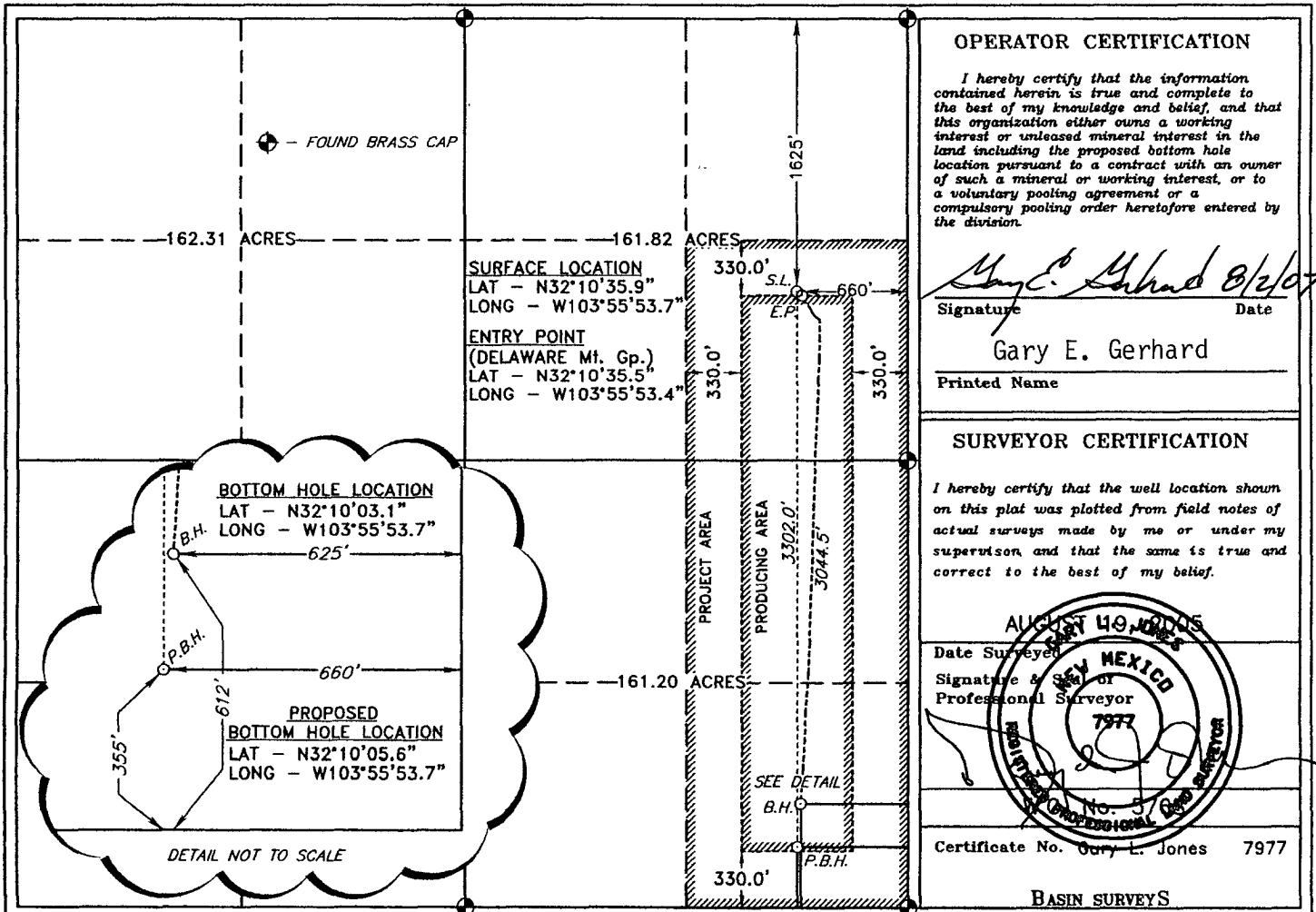
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	36	24 S	29 E		1625	NORTH	660	EAST	EDDY

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
P	36	24 S	29 E		612	SOUTH	625	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
120	N		ENTRY POINT - DELAWARE Mt. Gp.

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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Gary E. Gerhard 8/2/05
Signature Date

Gary E. Gerhard
Printed Name

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.

August 19, 2005
Date Surveyed
Signature & Seal of Professional Surveyor
7977
Certificate No. Gary E. Jones 7977

BASIN SURVEYS

SECTION 36, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.



150' NORTH
 □ OFF SET
 3135.4'

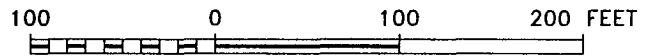
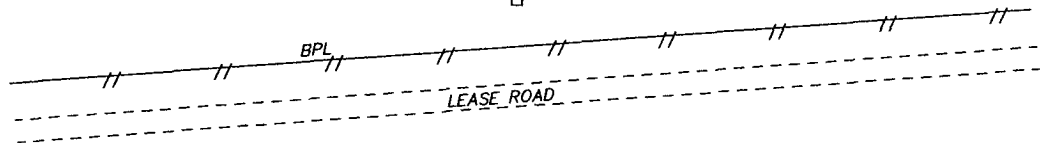
150' WEST
 OFF SET □
 3125.4'

BEPCO, L.P.
HORNED TOAD "36" STATE #1H
 ELEV. - 3130'
 ○

150' EAST
 □ OFF SET
 3138.7'

Lat.-N 32°10'35.9"
 Long-W 103°55'53.7"

150' SOUTH
 OFF SET
 3127.9'
 □



SCALE: 1" = 100'

DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF CO. RD. 748 AND CO. RD. 746A, GO SOUTHEAST 1.2 MILE TO LEASE ROAD; THENCE SOUTH FOR 0.6 MILE TO CATTLE GUARD; THENCE GO WEST FOR 1.5 MILE TO PROPOSED WELL PAD.

BEPCO, L.P.

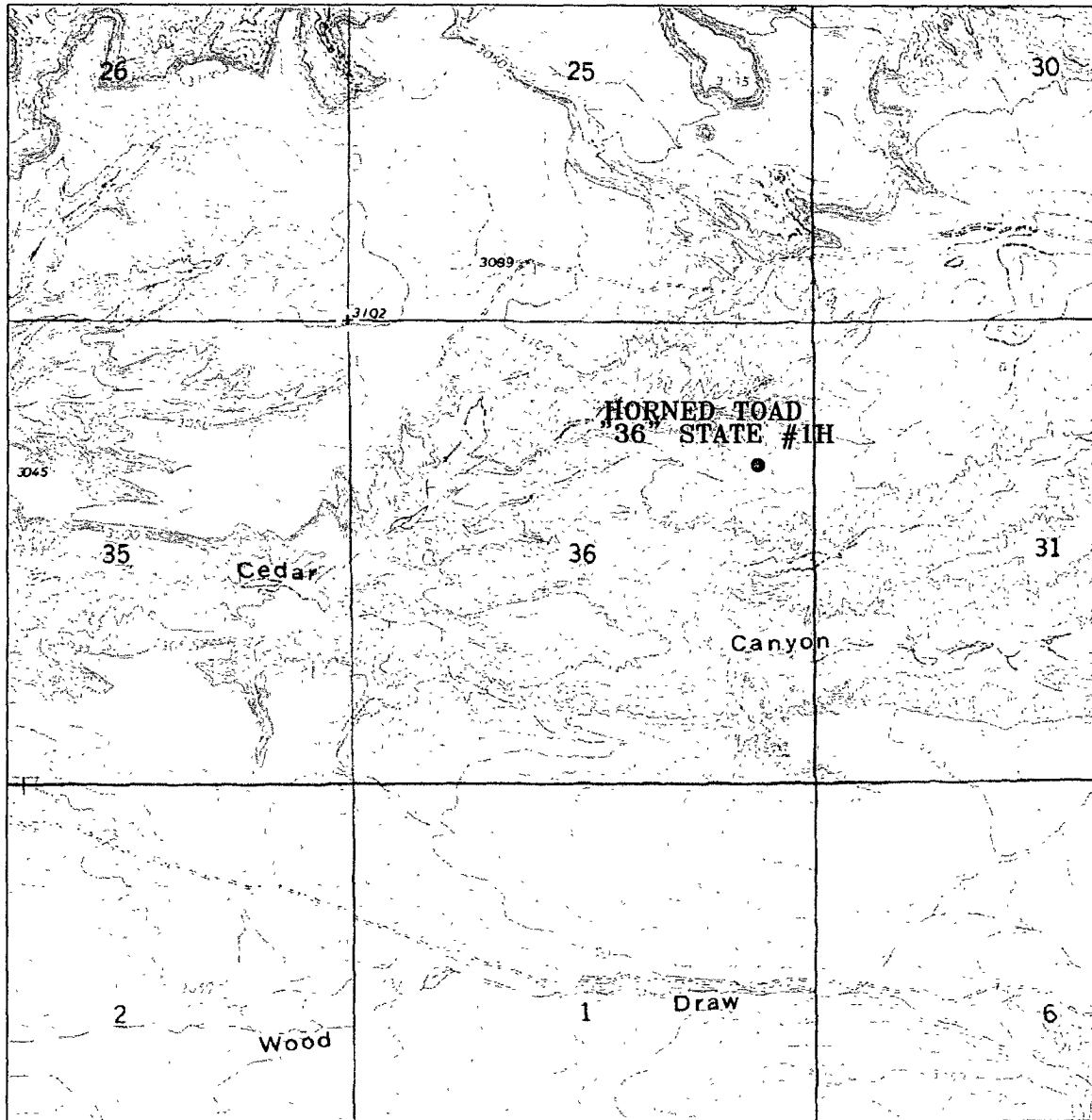
REF: HORNED TOAD "36" STATE No. 1H / Well Pad Topo
 THE HORNED TOAD "36" STATE No. 1H LOCATED 1625' FROM
 THE NORTH LINE AND 660' FROM THE EAST LINE OF
 SECTION 36, TOWNSHIP 24 SOUTH, RANGE 29 EAST,
 N.M.P.M., EDDY COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 5768 Drawn By: K. GOAD

Date: 08-25-2005 Disk: KJG CD#7 - 5768A.DWG

Survey Date: 08-19-2005 Sheet 1 of 1 Sheets



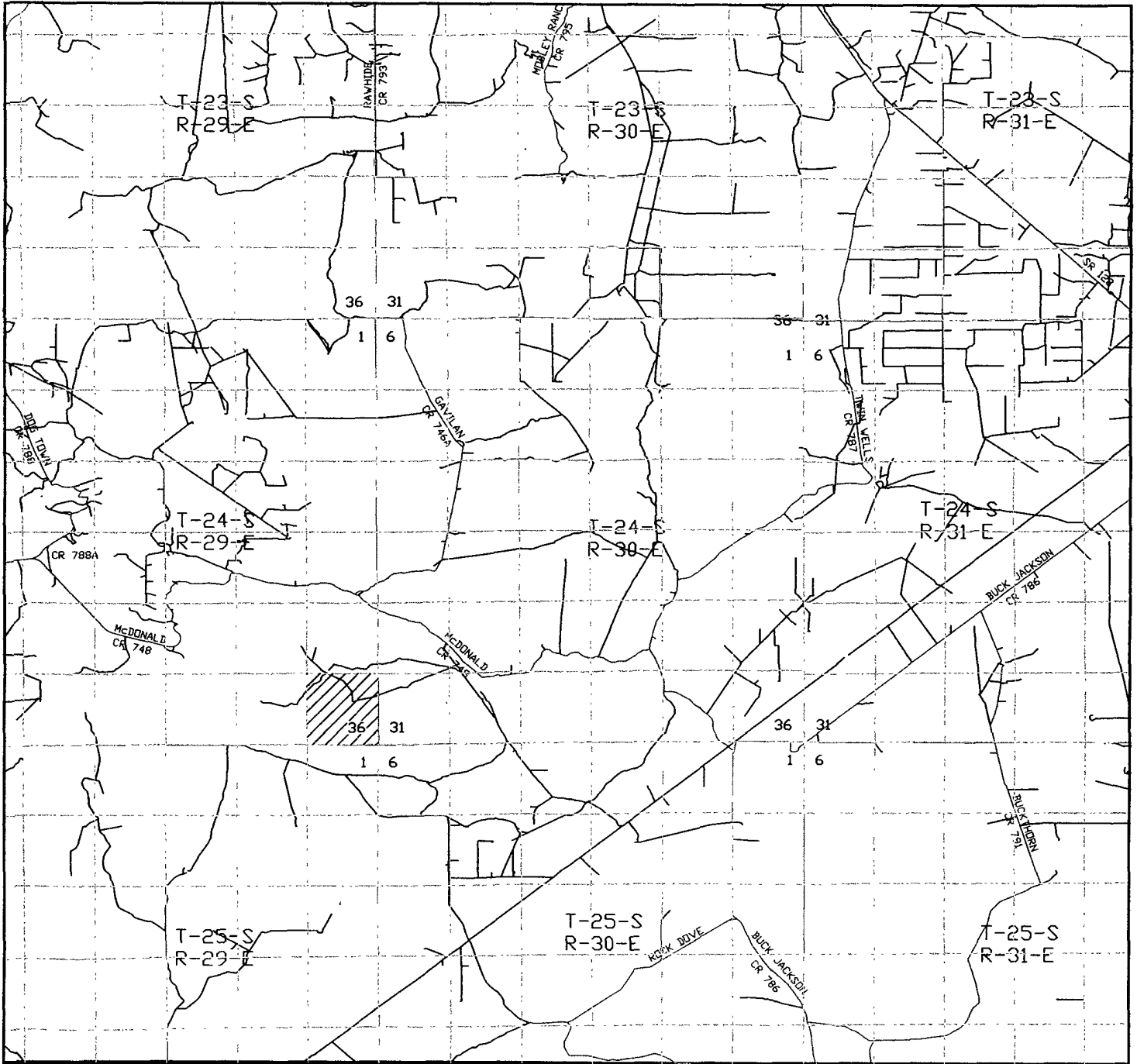
HORNER TOAD "36" STATE #1H
 Located at 1625' FNL and 660' FEL
 Section 36, Township 24 South, Range 29 East,
 N.M.P.M., Eddy County, New Mexico.

basin surveys
 focused on excellence
 in the oilfield

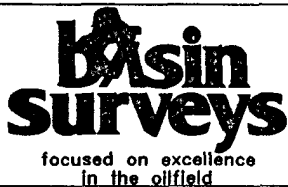
P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basinsurveys.com

W.O. Number	5768AA - KJG #7
Survey Date:	08-19-2005
Scale	1" = 2000'
Date:	08-25-2005

BEPCO, L.P.



HORNED TOAD "36" STATE #1H
 Located at 1625' FNL and 660' FEL
 Section 36, Township 24 South, Range 29 East,
 N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
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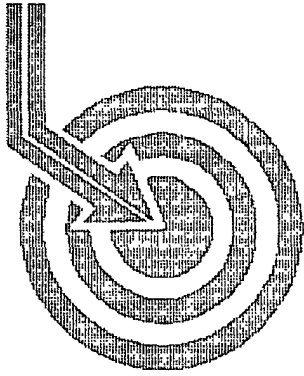
W.O. Number: 5768AA - KJG #7

Survey Date: 08-19-2005

Scale: 1" = 2 MILES

Date: 08-25-2005

BEPCO, L.P.



Scientific Drilling

BASS ENTERPRISES

Field: Nash Draw
Site: Eddy County, NM
Well: Horned Toad 36 State #1
Wellpath: VH - Job #32K0407298
Survey: 04/10/07

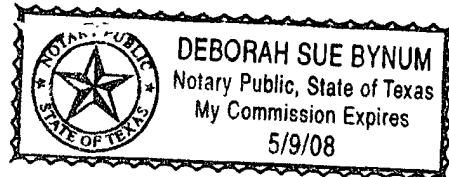
This survey is correct to the best of my knowledge and is supported by actual field data.

.....*K. K. K.*..... Company Representative

Notorized this date 14th of May, 2007.

Deborah Sue Bynum
Notary Signature

County of Midland
State of Texas



[Handwritten initials]



Scientific Drilling International Survey Report

Company: BASS ENTERPRISES	Date: 05/08/2007	Time: 13:55:08	Page: 1
Field: Nash Draw	Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North		
Site: Eddy County, NM	Vertical (TVD) Reference: SITE 0.0		
Well: Horned Toad 36 State #1	Section (VS) Reference: Well (0.00N,0.00E,142.26Azi)		
Wellpath: VH - Job #32K0407298	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 04/10/07	Start Date: 04/10/2007	
KSRG 0'-3670'		
Company: Scientific Drilling Internatio	Engineer: Pena w/GeoGyro	
Tool: Keeper;Keeper Gyro	Tied-to: From Surface	

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.21	212.01	100.00	0.06	-0.16	-0.10	0.21	0.18	212.01
200.00	0.11	328.94	200.00	0.03	-0.23	-0.24	0.28	0.33	226.85
300.00	0.37	292.82	300.00	-0.35	-0.02	-0.59	0.29	0.59	267.95
400.00	0.09	324.67	400.00	-0.70	0.17	-0.93	0.30	0.95	280.21
500.00	0.29	224.65	500.00	-0.75	0.05	-1.16	0.32	1.16	272.58
600.00	0.38	230.81	600.00	-0.71	-0.34	-1.59	0.10	1.63	258.04
700.00	0.34	213.00	699.99	-0.60	-0.80	-2.01	0.12	2.16	248.41
800.00	0.56	266.46	799.99	-0.78	-1.07	-2.66	0.45	2.87	248.00
900.00	0.46	271.19	899.99	-1.31	-1.10	-3.55	0.11	3.71	252.83
1000.00	0.28	279.94	999.98	-1.74	-1.05	-4.19	0.19	4.32	255.99
1100.00	0.32	261.57	1099.98	-2.06	-1.04	-4.71	0.10	4.82	257.49
1200.00	0.23	273.18	1199.98	-2.32	-1.07	-5.18	0.11	5.29	258.29
1300.00	0.20	333.31	1299.98	-2.63	-0.91	-5.46	0.22	5.54	260.57
1400.00	0.31	322.17	1399.98	-3.07	-0.54	-5.71	0.12	5.73	264.62
1500.00	0.63	321.87	1499.98	-3.89	0.11	-6.21	0.32	6.21	271.00
1600.00	0.92	326.63	1599.97	-5.24	1.21	-6.99	0.30	7.10	279.82
1700.00	0.99	336.64	1699.95	-6.88	2.67	-7.78	0.18	8.23	288.98
1800.00	1.34	3.25	1799.93	-8.60	4.64	-8.05	0.64	9.29	299.92
1900.00	1.30	13.69	1899.91	-10.19	6.90	-7.72	0.24	10.36	311.81
2000.00	1.37	29.43	1999.88	-11.36	9.05	-6.86	0.37	11.36	322.82
2100.00	0.74	43.82	2099.86	-11.92	10.56	-5.83	0.68	12.06	331.09
2200.00	0.64	58.06	2199.86	-11.95	11.32	-4.91	0.20	12.34	336.55
2300.00	0.37	49.88	2299.85	-11.91	11.82	-4.19	0.28	12.54	340.49
2400.00	0.51	47.97	2399.85	-11.96	12.33	-3.61	0.14	12.84	343.68
2500.00	0.39	51.15	2499.85	-12.00	12.84	-3.01	0.12	13.19	346.79
2600.00	0.40	51.03	2599.84	-12.01	13.27	-2.48	0.01	13.50	349.42
2700.00	1.11	89.74	2699.84	-11.43	13.49	-1.24	0.84	13.55	354.76
2800.00	1.97	104.41	2799.80	-9.48	13.07	1.40	0.94	13.15	6.09
2900.00	2.31	113.46	2899.73	-6.36	11.84	4.91	0.48	12.82	22.52
3000.00	3.10	125.05	2999.62	-2.01	9.49	8.97	0.96	13.06	43.40
3100.00	3.49	133.71	3099.45	3.58	5.83	13.39	0.63	14.60	66.47
3200.00	4.01	134.40	3199.24	10.06	1.28	18.08	0.52	18.13	85.95
3300.00	12.07	151.41	3298.18	23.87	-10.37	25.60	8.32	27.62	112.05
3400.00	17.80	149.77	3394.77	49.36	-32.77	38.31	5.75	50.41	130.55
3500.00	15.74	150.75	3490.51	77.94	-57.82	52.63	2.08	78.18	137.69
3600.00	14.10	150.40	3587.13	103.41	-80.24	65.28	1.64	103.44	140.87
3670.00	13.39	151.48	3655.13	119.85	-94.78	73.36	1.08	119.85	142.26



Scientific
Drilling

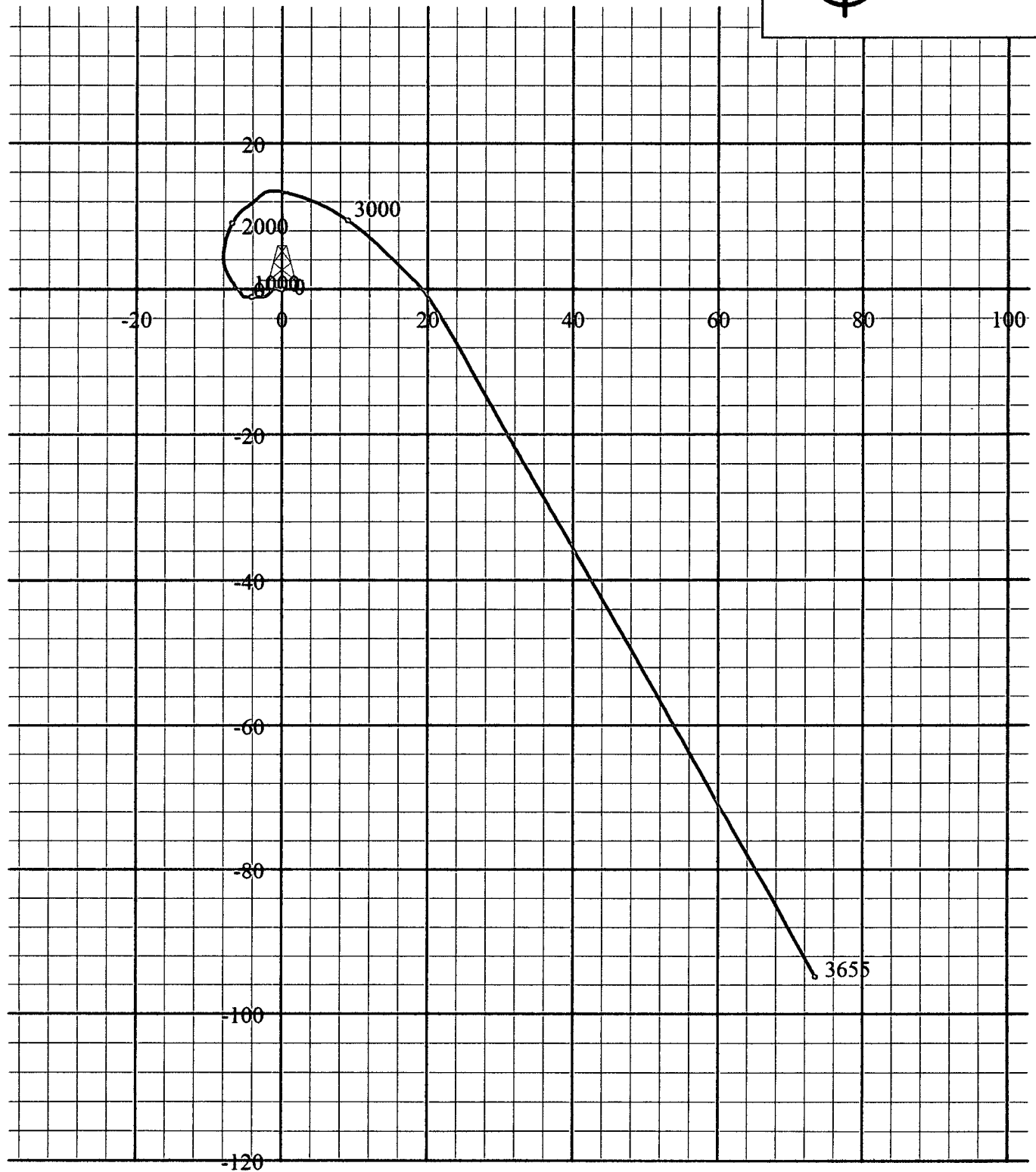
Field: Nash Draw
Site: Eddy County, NM
Well: Horned Toad 36 State #1
Wellpath: VH - Job #32K0407298
Survey: 04/10/07

G/T/M

Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 05/08/2007
Model: igrf2000

South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]



Bass Enterprises Production Co.

Eddy Co. New Mexico (Nad 27)

Horned Toad 36 State # 1

Horned Toad 36 State # 1

Lateral# 1

Survey: MWD Survey #2 (Lateral)

Standard Survey Report

30 April, 2007





Black Viper Energy

Survey Report



Company: Bass Enterprises Production Co.
Project: Eddy Co. New Mexico (Nad 27)
Site: Horned Toad 36 State # 1
Well: Horned Toad 36 State # 1
Wellbore: Lateral# 1
Design: Lateral# 1

Local Co-ordinate Reference: Well Horned Toad 36 State # 1
TVD Reference: WELL @ 0.00ft (Original Well Elev)
MD Reference: WELL @ 0.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.14.1.0 Server DB

Project	Eddy Co. New Mexico (Nad 27)		
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	Horned Toad 36 State # 1				
Site Position:		Northing:	428,214.71 ft	Latitude:	32° 10' 35.900 N
From:	Map	Easting:	624,302.72 ft	Longitude:	103° 55' 53.700 W
Position Uncertainty:	0 00 ft	Slot Radius:	"	Grid Convergence:	0.21 °

Well	Horned Toad 36 State # 1					
Well Position	+N/-S	0 00 ft	Northing:	428,214.71 ft	Latitude:	32° 10' 35.900 N
	+E/-W	0 00 ft	Easting:	624,302.72 ft	Longitude:	103° 55' 53.700 W
Position Uncertainty		0 00 ft	Wellhead Elevation:	3,170.00 ft	Ground Level:	0 00 ft

Wellbore	Lateral# 1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2/19/2007	8.25	60.19	49,023

Design	Lateral# 1				
Audit Notes:					
Version:	1 0	Phase:	ACTUAL	Tie On Depth:	3,670.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0 00	0 00	0 00	180 00	

Survey Program	Date: 4/30/2007			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	3,670.00	Gyro Survey #1 (OH)	CT_GYRO_MS	Continuous Gyro Multishot
3,670.00	8,202.00	MWD Survey #2 (Lateral) (Lateral# 1)	MWD	MWD - Standard

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)
3,670.00	13.39	151.48	3,655.12	-94.78	73.36	94.78	0.00	0.00	0.00
3,684.00	12.90	151.80	3,668.75	-97.58	74.87	97.58	3.54	-3.50	2.29
3,721.00	12.10	152.00	3,704.88	-104.65	78.64	104.65	2.17	-2.16	0.54
3,747.00	10.80	151.50	3,730.36	-109.19	81.09	109.19	5.01	-5.00	-1.92
3,779.00	9.10	150.70	3,761.88	-114.03	83.76	114.03	5.33	-5.31	-2.50
3,811.00	8.70	149.80	3,793.49	-118.33	86.21	118.33	1.32	-1.25	-2.81
3,874.00	8.30	148.10	3,855.80	-126.31	91.01	126.31	0.75	-0.63	-2.70
3,939.00	7.20	144.60	3,920.20	-133.62	95.85	133.62	1.84	-1.69	-5.38
4,003.00	5.70	146.30	3,983.80	-139.53	99.94	139.53	2.36	-2.34	2.66
4,066.00	5.40	138.90	4,046.50	-144.37	103.62	144.37	1.23	-0.48	-11.75
4,131.00	4.30	133.50	4,111.27	-148.35	107.40	148.35	1.83	-1.69	-8.31
4,194.00	4.50	128.10	4,174.08	-151.50	111.06	151.50	0.73	0.32	-8.57



Black Viper Energy

Survey Report



Company:	Bass Enterprises Production Co.	Local Co-ordinate Reference:	Well Horned Toad 36 State # 1
Project:	Eddy Co. New Mexico (Nad 27)	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Horned Toad 36 State # 1	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Horned Toad 36 State # 1	North Reference:	Grid
Wellbore:	Lateral# 1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral# 1	Database:	EDM 2003.14.1.0 Server DB

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)
4,258.00	4.00	126.00	4,237.91	-154.36	114.84	154.36	0.82	-0.78	-3.28
4,319.00	3.30	117.40	4,298.78	-156.42	118.12	156.42	1.45	-1.15	-14.10
4,383.00	2.40	103.50	4,362.70	-157.58	121.06	157.58	1.76	-1.41	-21.72
4,447.00	2.10	94.80	4,426.66	-157.99	123.53	157.99	0.71	-0.47	-13.59
4,512.00	1.40	85.30	4,491.62	-158.02	125.51	158.02	1.16	-1.08	-14.62
4,575.00	1.30	86.80	4,554.61	-157.92	126.99	157.92	0.17	-0.16	2.38
4,638.00	1.20	94.10	4,617.59	-157.93	128.36	157.93	0.30	-0.16	11.59
4,701.00	1.20	95.00	4,680.58	-158.03	129.68	158.03	0.03	0.00	1.43
4,765.00	1.30	90.30	4,744.56	-158.10	131.07	158.10	0.22	0.16	-7.34
4,827.00	1.40	91.90	4,806.55	-158.12	132.53	158.12	0.17	0.16	2.58
4,890.00	1.20	85.60	4,869.53	-158.10	133.96	158.10	0.39	-0.32	-10.00
5,017.00	1.10	65.20	4,996.50	-157.49	136.39	157.49	0.33	-0.08	-16.06
5,049.00	1.10	69.50	5,028.50	-157.25	136.96	157.25	0.26	0.00	13.44
5,078.00	2.41	180.34	5,057.49	-157.76	137.21	157.76	10.28	4.51	382.21
First MWD Survey									
5,081.00	2.70	182.60	5,060.49	-157.90	137.21	157.90	10.28	9.72	75.30
5,113.00	8.00	186.40	5,092.34	-160.86	136.93	160.86	16.59	16.56	11.88
5,145.00	13.30	188.10	5,123.77	-166.72	136.16	166.72	16.59	16.56	5.31
5,176.00	19.00	185.10	5,153.54	-175.29	135.21	175.29	18.58	18.39	-9.68
5,208.00	23.10	181.80	5,183.40	-186.76	134.55	186.76	13.33	12.81	-10.31
5,240.00	26.10	181.70	5,212.49	-200.07	134.14	200.07	9.38	9.38	-0.31
5,271.00	29.90	179.00	5,239.86	-214.62	134.07	214.62	12.92	12.26	-8.71
5,303.00	34.10	177.40	5,266.99	-231.56	134.62	231.56	13.39	13.13	-5.00
5,335.00	38.90	178.50	5,292.71	-250.58	135.29	250.58	15.14	15.00	3.44
5,367.00	43.40	178.90	5,316.80	-271.62	135.76	271.62	14.09	14.06	1.25
5,398.00	45.70	179.60	5,338.89	-293.37	136.05	293.37	7.59	7.42	2.26
5,430.00	47.70	180.90	5,360.83	-316.65	135.94	316.65	6.91	6.25	4.06
5,462.00	51.50	181.10	5,381.57	-341.01	135.51	341.01	11.88	11.88	0.63
5,493.00	54.90	182.40	5,400.13	-365.82	134.75	365.82	11.47	10.97	4.19
5,525.00	58.20	182.90	5,417.77	-392.49	133.51	392.49	10.39	10.31	1.56
5,557.00	61.00	183.30	5,433.96	-420.04	132.02	420.04	8.82	8.75	1.25
5,589.00	63.30	183.30	5,448.91	-448.29	130.39	448.29	7.19	7.19	0.00
5,619.00	64.80	183.10	5,462.04	-475.22	128.89	475.22	5.04	5.00	-0.67
5,651.00	66.90	183.10	5,475.13	-504.38	127.31	504.38	6.56	6.56	0.00
5,683.00	70.10	183.00	5,486.86	-534.10	125.72	534.10	10.00	10.00	-0.31
5,714.00	72.50	182.60	5,496.79	-563.43	124.29	563.43	7.84	7.74	-1.29
5,746.00	74.60	182.10	5,505.86	-594.09	123.03	594.09	6.73	6.56	-1.56
5,778.00	77.80	181.70	5,513.49	-625.15	122.00	625.15	10.07	10.00	-1.25
5,810.00	80.80	181.90	5,519.43	-656.57	121.01	656.57	9.40	9.38	0.63
5,837.00	82.90	182.50	5,523.26	-683.28	119.99	683.28	8.08	7.78	2.22
5,843.00	83.20	182.30	5,523.98	-689.23	119.74	689.23	6.00	5.00	-3.33
5,874.00	85.70	182.00	5,526.98	-720.06	118.58	720.06	8.12	8.06	-0.97
5,906.00	88.60	182.40	5,528.57	-751.99	117.35	751.99	9.15	9.06	1.25
5,938.00	89.90	182.90	5,528.99	-783.96	115.87	783.96	4.35	4.06	1.56
5,970.00	90.30	182.90	5,528.93	-815.91	114.26	815.91	1.25	1.25	0.00
6,002.00	91.30	182.90	5,528.49	-847.87	112.64	847.87	3.13	3.13	0.00
6,033.00	92.30	182.90	5,527.51	-878.81	111.07	878.81	3.23	3.23	0.00
6,065.00	93.60	182.40	5,525.87	-910.74	109.59	910.74	4.35	4.06	-1.56
6,096.00	93.50	182.20	5,523.95	-941.65	108.35	941.65	0.72	-0.32	-0.65
6,128.00	93.20	182.00	5,522.08	-973.58	107.18	973.58	1.13	-0.94	-0.63
6,159.00	93.20	181.80	5,520.35	-1,004.51	106.15	1,004.51	0.64	0.00	-0.65
6,190.00	94.10	181.90	5,518.37	-1,035.43	105.15	1,035.43	2.92	2.90	0.32
6,222.00	94.00	181.90	5,516.11	-1,067.33	104.10	1,067.33	0.31	-0.31	0.00
6,254.00	93.80	181.80	5,513.94	-1,099.24	103.07	1,099.24	0.70	-0.63	-0.31



Black Viper Energy

Survey Report



Company: Bass Enterprises Production Co
Project: Eddy Co New Mexico (Nad 27)
Site: Horned Toad 36 State # 1
Well: Horned Toad 36 State # 1
Wellbore: Lateral# 1
Design: Lateral# 1

Local Co-ordinate Reference: Well Horned Toad 36 State # 1
TVD Reference: WELL @ 0.00ft (Original Well Elev)
MD Reference: WELL @ 0.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 14.1.0 Server DB

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)	
6,286.00	93.80	181.70	5,511.82	-1,131.16	102.09	1,131.16	0.31	0.00	-0.31	
6,317.00	93.40	181.80	5,509.87	-1,162.08	101.15	1,162.08	1.33	-1.29	0.32	
6,349.00	93.30	181.80	5,508.00	-1,194.01	100.14	1,194.01	0.31	-0.31	0.00	
6,381.00	93.20	181.60	5,506.18	-1,225.95	99.19	1,225.95	0.70	-0.31	-0.63	
6,413.00	92.80	181.60	5,504.51	-1,257.89	98.30	1,257.89	1.25	-1.25	0.00	
6,445.00	92.90	181.70	5,502.92	-1,289.84	97.38	1,289.84	0.44	0.31	0.31	
6,476.00	92.70	181.50	5,501.40	-1,320.79	96.52	1,320.79	0.91	-0.65	-0.65	
6,517.00	92.50	181.30	5,499.54	-1,361.73	95.52	1,361.73	0.69	-0.49	-0.49	
6,549.00	92.20	181.20	5,498.23	-1,393.70	94.82	1,393.70	0.99	-0.94	-0.31	
6,580.00	91.90	181.00	5,497.12	-1,424.67	94.22	1,424.67	1.16	-0.97	-0.65	
6,613.00	92.00	180.90	5,496.00	-1,457.65	93.68	1,457.65	0.43	0.30	-0.30	
6,644.00	91.90	180.80	5,494.95	-1,488.63	93.22	1,488.63	0.46	-0.32	-0.32	
6,676.00	91.10	182.30	5,494.11	-1,520.60	92.35	1,520.60	5.31	-2.50	4.69	
6,708.00	91.20	182.20	5,493.47	-1,552.57	91.10	1,552.57	0.44	0.31	-0.31	
6,739.00	91.00	182.00	5,492.87	-1,583.55	89.96	1,583.55	0.91	-0.65	-0.65	
6,771.00	90.80	182.10	5,492.37	-1,615.52	88.82	1,615.52	0.70	-0.63	0.31	
6,803.00	90.10	182.00	5,492.12	-1,647.50	87.67	1,647.50	2.21	-2.19	-0.31	
6,835.00	90.10	182.30	5,492.06	-1,679.48	86.47	1,679.48	0.94	0.00	0.94	
6,867.00	90.20	182.70	5,491.98	-1,711.45	85.08	1,711.45	1.29	0.31	1.25	
6,899.00	90.20	182.50	5,491.87	-1,743.41	83.62	1,743.41	0.62	0.00	-0.63	
6,931.00	90.00	182.40	5,491.81	-1,775.39	82.26	1,775.39	0.70	-0.63	-0.31	
6,962.00	89.70	182.60	5,491.89	-1,806.36	80.90	1,806.36	1.16	-0.97	0.65	
6,994.00	89.90	182.40	5,492.00	-1,838.33	79.51	1,838.33	0.88	0.63	-0.63	
7,026.00	89.60	182.30	5,492.14	-1,870.30	78.20	1,870.30	0.99	-0.94	-0.31	
7,058.00	89.50	182.20	5,492.39	-1,902.27	76.94	1,902.27	0.44	-0.31	-0.31	
7,090.00	89.40	181.90	5,492.70	-1,934.25	75.79	1,934.25	0.99	-0.31	-0.94	
7,121.00	89.50	181.80	5,493.00	-1,965.23	74.79	1,965.23	0.46	0.32	-0.32	
7,153.00	89.30	181.30	5,493.33	-1,997.22	73.93	1,997.22	1.68	-0.63	-1.56	
7,185.00	89.40	181.80	5,493.70	-2,029.21	73.06	2,029.21	1.59	0.31	1.56	
7,217.00	89.30	181.80	5,494.06	-2,061.19	72.06	2,061.19	0.31	-0.31	0.00	
7,248.00	89.70	182.20	5,494.33	-2,092.17	70.98	2,092.17	1.82	1.29	1.29	
7,279.00	89.40	182.00	5,494.57	-2,123.15	69.84	2,123.15	1.16	-0.97	-0.65	
7,311.00	89.80	182.60	5,494.80	-2,155.12	68.56	2,155.12	2.25	1.25	1.88	
7,343.00	89.30	182.70	5,495.05	-2,187.08	67.08	2,187.08	1.59	-1.56	0.31	
7,375.00	88.90	182.50	5,495.55	-2,219.05	65.63	2,219.05	1.40	-1.25	-0.63	
7,406.00	88.50	182.40	5,496.25	-2,250.01	64.30	2,250.01	1.33	-1.29	-0.32	
7,438.00	88.80	183.30	5,497.01	-2,281.96	62.71	2,281.96	2.96	0.94	2.81	
7,501.00	87.70	183.30	5,498.93	-2,344.83	59.08	2,344.83	1.75	-1.75	0.00	
7,548.00	87.40	184.20	5,500.94	-2,391.68	56.01	2,391.68	2.02	-0.64	1.91	
7,579.00	87.30	184.30	5,502.37	-2,422.56	53.72	2,422.56	0.46	-0.32	0.32	
7,612.00	87.80	183.10	5,503.79	-2,455.46	51.59	2,455.46	3.94	1.52	-3.64	
7,643.00	88.00	182.70	5,504.92	-2,486.40	50.02	2,486.40	1.44	0.65	-1.29	
7,674.00	89.10	182.40	5,505.71	-2,517.36	48.65	2,517.36	3.68	3.55	-0.97	
7,706.00	89.70	182.50	5,506.04	-2,549.33	47.28	2,549.33	1.90	1.88	0.31	
7,738.00	89.30	182.80	5,506.32	-2,581.30	45.80	2,581.30	1.56	-1.25	0.94	
7,769.00	88.80	182.50	5,506.83	-2,612.26	44.36	2,612.26	1.88	-1.61	-0.97	
7,801.00	88.90	182.40	5,507.48	-2,644.22	43.00	2,644.22	0.44	0.31	-0.31	
7,832.00	88.60	183.10	5,508.15	-2,675.18	41.51	2,675.18	2.46	-0.97	2.26	
7,864.00	88.50	183.10	5,508.96	-2,707.12	39.78	2,707.12	0.31	-0.31	0.00	
7,895.00	83.30	183.00	5,511.18	-2,737.99	38.14	2,737.99	16.78	-16.77	-0.32	
7,927.00	89.10	183.00	5,513.30	-2,769.86	36.47	2,769.86	18.13	18.13	0.00	
7,958.00	89.10	183.20	5,513.78	-2,800.81	34.79	2,800.81	0.65	0.00	0.65	
7,990.00	89.20	183.10	5,514.26	-2,832.76	33.03	2,832.76	0.44	0.31	-0.31	
8,022.00	90.30	183.20	5,514.40	-2,864.71	31.27	2,864.71	3.45	3.44	0.31	
8,054.00	90.30	183.10	5,514.23	-2,896.66	29.51	2,896.66	0.31	0.00	-0.31	



Black Viper Energy

Survey Report



Company: Bass Enterprises Production Co.
Project: Eddy Co New Mexico (Nad 27)
Site: Horned Toad 36 State # 1
Well: Horned Toad 36 State # 1
Wellbore: Lateral# 1
Design: Lateral# 1

Local Co-ordinate Reference: Well Horned Toad 36 State # 1
TVD Reference: WELL @ 0 00ft (Original Well Elev)
MD Reference: WELL @ 0 00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.14 1.0 Server DB

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)	
8,086 00	90 60	183.30	5,513 98	-2,928.61	27.73	2,928 61	1 13	0 94	0 63	
8,117 00	90 90	183 40	5,513 57	-2,959 56	25.92	2,959 56	1.02	0.97	0.32	
Last MWD Survey										
8,202 00	90 90	183.40	5,512 24	-3,044 40	20 88	3,044 40	0.00	0 00	0 00	
Proj. To Bit										

Targets

Target Name	- hit/miss target	- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL#6[HT36#1]			0.00	0.00	5,509 00	-3,300.00	0 00	424,914 71	624,302 72	32° 10' 3 243 N	103° 55' 53 843 W
- survey misses by 256 48ft at 8202 00ft MD (5512.24 TVD, -3044 40 N, 20 88 E)											
- Point											
PBHL#1[HT#1]			0 00	0 00	5,542 00	-3,300 00	0 00	424,914.71	624,302 72	32° 10' 3 243 N	103° 55' 53.843 W
- survey misses by 258 18ft at 8202 00ft MD (5512.24 TVD, -3044 40 N, 20 88 E)											
- Point											
PBHL#3[HT36#1]				0.00	5,538 26	-3,300 00	0 00	424,914 71	624,302 72	32° 10' 3 243 N	103° 55' 53.843 W
- survey misses by 257 77ft at 8202 00ft MD (5512 24 TVD, -3044.40 N, 20 88 E)											
- Point											
PBHL#4[HT36#1]			0.00	0 00	5,482 40	-3,300 00	0 00	424,914 71	624,302.72	32° 10' 3.243 N	103° 55' 53.843 W
- survey misses by 258 19ft at 8202 00ft MD (5512 24 TVD, -3044.40 N, 20 88 E)											
- Point											
PBHL#2[HT36#1]				0 00	5,527.00	-3,300 00	0 00	424,914 71	624,302 72	32° 10' 3 243 N	103° 55' 53.843 W
- survey misses by 256 88ft at 8202 00ft MD (5512 24 TVD, -3044 40 N, 20 88 E)											
- Point											
PBHL#5[HT36#1]			0 00	0 00	5,495 00	-3,300 00	0 00	424,914 71	624,302 72	32° 10' 3 243 N	103° 55' 53 843 W
- survey misses by 257 03ft at 8202.00ft MD (5512 24 TVD, -3044 40 N, 20 88 E)											
- Point											

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,078 00	5,057 49	-157.76	137 21	First MWD Survey
8,117 00	5,513 57	-2,959 56	25 92	Last MWD Survey
8,202.00	5,512 24	-3,044 40	20 88	Proj. To Bit

Checked By: _____ Approved By: _____ Date: _____