

Submit To Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies 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 and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 Revised June 10, 2003 WELL API NO. 30-015-35837 5. Indicate Type of Lease STATE ☒ FEE ☐ State Oil & Gas Lease No. 49107
WELL COMPLETION OR RECOMPLETION REPORT AND LOG		
1a Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER _____ b Type of Completion NEW ☒ WORK ☐ DEEPEN ☐ PLUG ☐ DIFF. WELL OVER BACK RESVR. ☐ OTHER		7. Lease Name or Unit Agreement Name HORNED TOAD 36 STATE
2 Name of Operator BEPCO, L.P.		8 Well No 2H
3 Address of Operator P.O. BOX 2760 MIDLAND, TX 79702-2760		9 Pool name or Wildcat NASH DRAW (DELAWARE/ BS/ AVALON SD
4 Well Location Unit Letter B 220' Feet From The NORTH Line and 2410 Feet From The EAST Line Section 36 Township 24S Range 29E NMPM EDDY County		
10 Date Spudded 10/17/2007	11 Date T D Reached 12/01/2007	12 Date Compl (Ready to Prod) 02/06/2008
13. Elevations (DF& RKB, RT, GR, etc) 3113' GL		14 Elev Casinghead
15 Total Depth 6797 MD	16 Plug Back T D. 6797' MD	17 If Multiple Compl How Many Zones? -
18 Intervals Drilled By X		Rotary Tools X
19 Producing Interval(s), of this completion - Top, Bottom, Name 5665' - 8101' NASH DRAW (DELAWARE / BONE SPRINGS / AVALON SAND		20 Was Directional Survey Made YES
21 Type Electric and Other Logs Run LDT-GR-CNL; AIT-CFL-GR		22. Was Well Cored NO
23. CASING RECORD (Report all strings set in well)		
CASING SIZE	WEIGHT LB./FT.	DEPTH SET
13-3/8"	54.5	1182'
9-5/8"	36#	3325'
5-1/2"	17#	6797'
24 LINER RECORD SIZE TOP BOTTOM SACKS CEMENT SCREEN 2-7/8" 4953.35 MD		
25 TUBING RECORD SIZE DEPTH SET PACKER SET 2-7/8" 4953.35 MD		
26 Perforation record (interval, size, and number) 5590-91' & 5800-01"; 0.570", 2 JSPF 60000-01', 6200-6201', 6400-01' & 6580-6581'; 0.57", 6 JSPF		27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 5590-6581' ACIDIZE W/ 3000 GALS 7.5% HCL Frac w/ 197304 gals Spectra Star 2500 & 316963 #'s 20/40 Ottawa
28 PRODUCTION		
Date First Production 02/07/2008		Production Method (Flowing, gas lift, pumping - Size and type pump) PUMPING w/ Wood Group ESP TD-650 submersible
Well Status (Prod or Shut-in) PRODUCING		119553 #'s 20/40 Super LC
Date of Test 02/18/2008	Hours Tested 24	Choke Size W/O
Prod'n For Test Period	Oil - Bbl 238	Gas - MCF 112
Water - Bbl 701	Gas - Oil Ratio 470	
Flow Tubing Press 320	Casing Pressure 210	Calculated 24-Hour Rate
Oil - Bbl.	Gas - MCF	Water - Bbl
29 Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD		Test Witnessed By
30 List Attachments LOGS, C104, INCLINATION REPORT, DIRECTIONAL SURVEY		
31 I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief		
Signature 		Printed Name ANN MOORE
Title PRODUCTION CLERK		Date 02/21/2008
E-mail Address camoorebasspet.com		

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depth shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn "B"
T. Salt 1188'	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt 3080'	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand 3350'	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo	T. 3480' Bell Canyon	T. Wingate	T.
T. Wolfcamp	T. 4324' Cherry Canyon	T. Chinle	T.
T. Penn	T. 5420' Lo. Cherry Canyon	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONE

No. 1, from.....to.....

No. 2, from.....to.....

No. 3, from.....to.....

No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

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

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

(Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

BEP CO, L.P.
P. O. Box 2760
Midland, Texas 79702

FEB 26 2008
OCD-ARTESIA

432-683-2277

FAX: 432-687-0329

February 21, 2007

**Re: Horned Toad 36 State #2H
 Nash Draw (Delaware/BS/Avalon)
 Eddy County, New Mexico
 File: 100-WF: HT36S1H.OCD**

Oil Conservation Division
1301 West Grand Avenue
Artesia, New Mexico 88210

Gentlemen:

BEPCO, L.P. respectfully requests that the logs and completion data, on the above captioned well, be held confidential for the maximum period of time.

If you should have any questions, please contact Ann Moore at the above letterhead address, phone number or via email at camoore@basspet.com.

Sincerely,



Ann Moore
Production Clerk

cam

Attachment

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

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

DISTRICT III
1000 Rio Brazos Rd., Artec, 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 30-015-35837	Pool Code 47545	Pool Name Nash Draw (Delaware, Bone Spring, Avalon Sd)
Property Code 35100	Property Name HORNE TOAD "36" STATE	Well Number 2H
OGRID No. 001801	Operator Name BEPCO, L.P.	Elevation 3113'

Surface Location

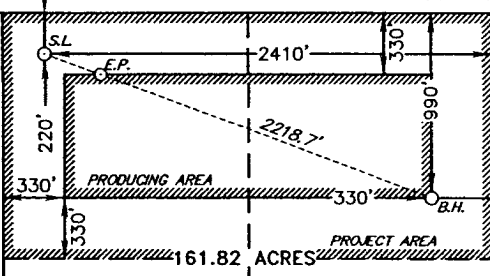
UL or lot No. B	Section 36	Township 24 S	Range 29 E	Lot Idn	Feet from the 220	North/South line NORTH	Feet from the 2410	East/West line EAST	County EDDY
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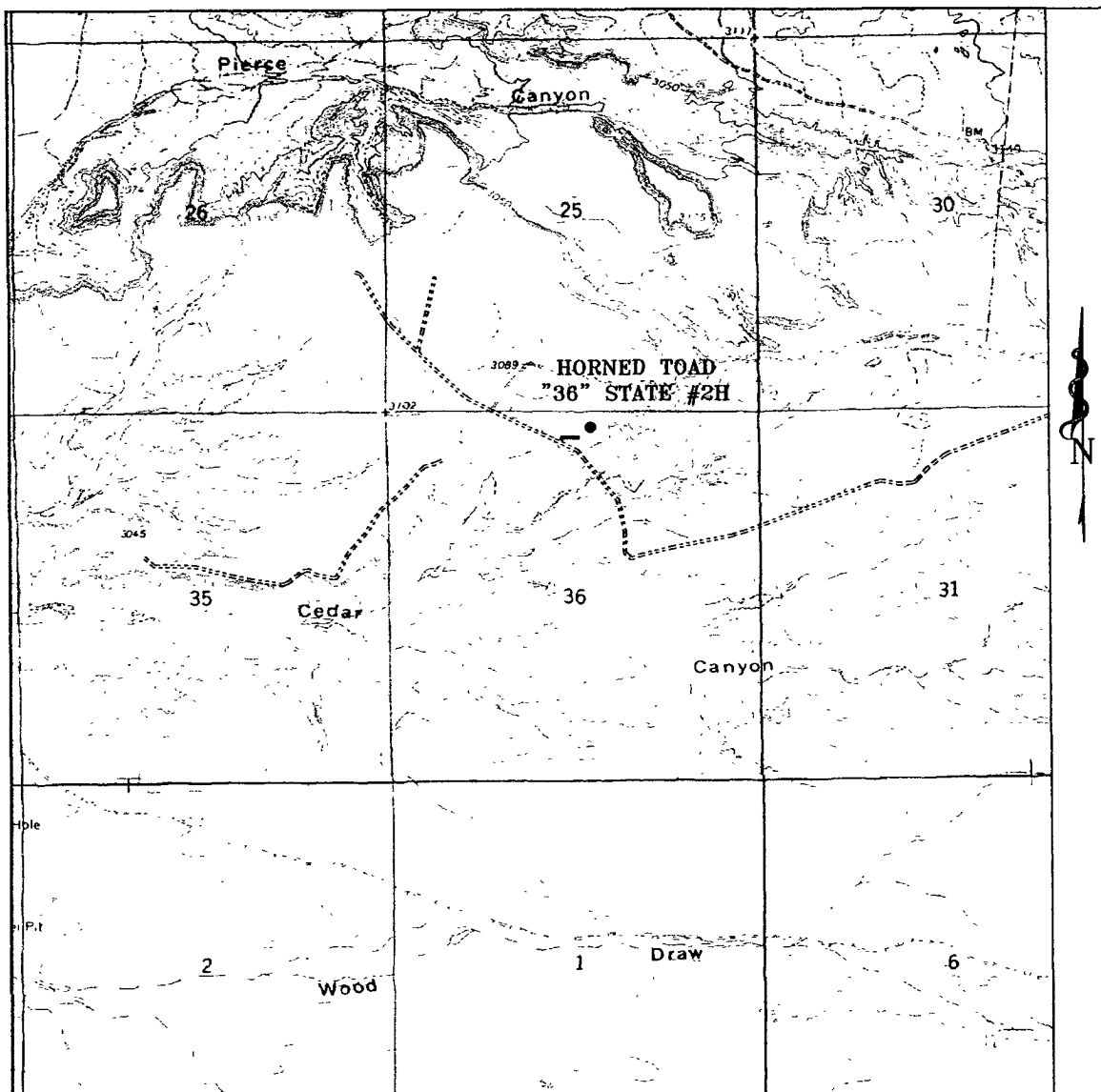
Bottom Hole Location If Different From Surface

UL or lot No. A	Section 36	Township 24 S	Range 29 E	Lot Idn	Feet from the 990	North/South line NORTH	Feet from the 330	East/West line EAST	County EDDY
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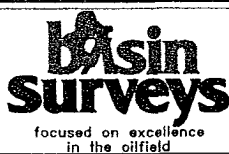
Dedicated Acres 80	Joint or Infill N	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SURFACE LOCATION LAT - N32°10'49.86" LONG - W103°56'14.02" SPC- N.: 429632.267 E.: 663884.383 (NAD-83)		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. Signature: <i>Gary E. Gerhard</i> Date: 9/27/07 Printed Name: Gary E. Gerhard
162.31 ACRES	161.82 ACRES	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. SEPTEMBER 21, 2007 Date Surveyed: 9/21/07 Signature: <i>Gary L. Jones</i> Professional Surveyor Certificate No. Gary L. Jones 7977
161.69 ACRES	161.20 ACRES	BASIN SURVEYS



HORNER TOAD '36" STATE #2H
 220' FNL and 2410' 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
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basinsurveys.com

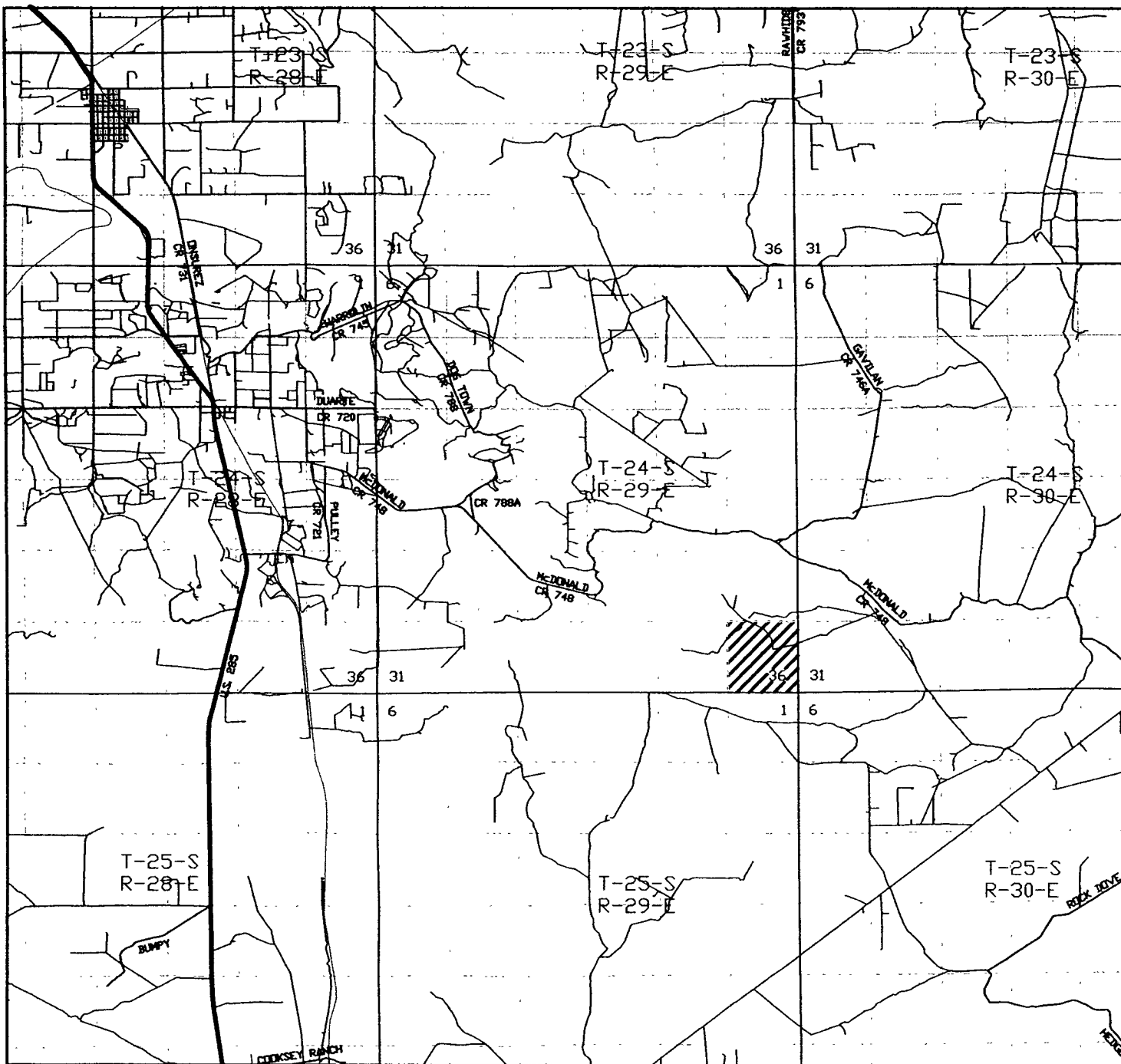
W.O. Number: JMS 18629T

Survey Date: 09-21-2007

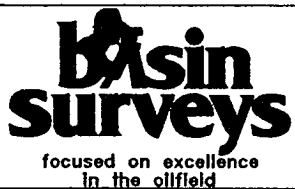
Scale: 1" = 2000'

Date: 09-24-2007

BEPCO, L.P.



HORNED TOAD "36" STATE #2H
 220' FNL and 2410' 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
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basinsurveys.com

W.O. Number: JMS 18629TR

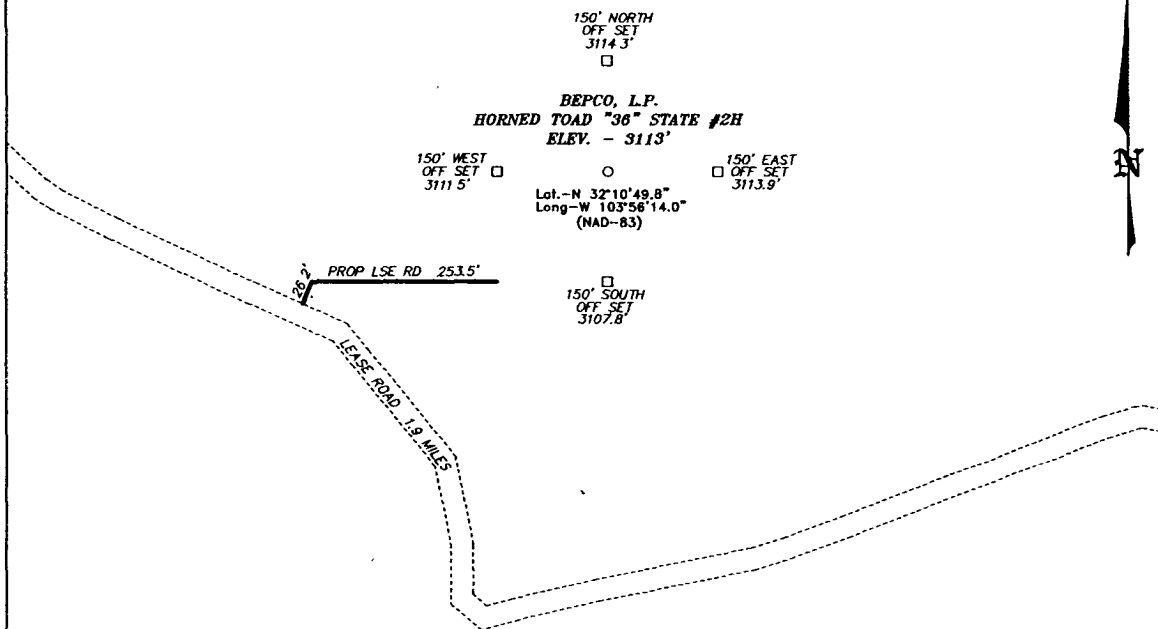
Survey Date: 09-21-2007

Scale: 1" = 2 MILES

Date: 09-24-2007

BEPCO, L.P.

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



DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF CO. RD. 746A AND CO. RD. 748, GO SOUTHEAST ON CO. RD. 748 FOR 1.4 MILES TO LEASE ROAD, ON LEASE ROAD GO SOUTHERLY 0.5 MILES TO PIPELINE ROAD, FROM THE JUNCTION ON PIPELINE ROAD AND LEASE ROAD CONTINUE WEST 1.9 MILES TO PROPOSED LEASE ROAD.

200 0 200 400 FEET
SCALE: 1" = 200'

BEPCO, L.P.

REF: HORNED TOAD "36" STATE #2H / WELL PAD AND TOPO

THE HORNED TOAD "36" STATE #2H LOCATED 220'

FROM THE NORTH LINE AND 2410' 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: 18629

Drawn By: J. SMALL

Date: 09-24-2007

Disk: 18629W JMS

Survey Date: 09-21-2007

Sheet 1 of 1 Sheets

COMPANY: BEPCO, L.P.

WELL: Horned Toad 36 State #2H

FIELD: Nash Draw (Delaware)

County: Eddy

State: New Mexico

County: Eddy Field: Nash Draw (Delaware) Location: 220' FNL & 2410' FEL Well: Horned Toad 36 State #2H Company: BEPCO, L.P.	Schlumberger		Platform Express			
			Three Detector Litho-Density Compensated Neutron / GR			
	220' FNL & 2410' FEL		Elev.: K.B. 3131.1 ft G.L. 3109.6 ft D.F. 3129.6 ft			
	Permanent Datum: Ground Level		Elev.: 3109.6 ft			
Log Measured From: Kelly Bushing		21.5 ft above Perm. Datum				
Drilling Measured From: Kelly Bushing						
API Serial No. 30-015-35837		Section 36		Township 24S	Range 29E	
Logging Date		12-Nov-2007				
Run Number		One				
Depth Driller		5409 ft				
Schlumberger Depth		5356 ft				
Bottom Log Interval		5338 ft				
Top Log Interval		200 ft				
Casing Driller Size @ Depth		9.625 in @ 3325 ft		@		
Casing Schlumberger		3320 ft				
Bit Size		8.750 in				
Type Fluid In Hole		Cut Brine				
Density	Viscosity	8.7 lbm/gal	33 s			
Fluid Loss	PH		10			
Source Of Sample		Circulation Tank				
RM @ Measured Temperature		0.137 ohm.m @ 73 degF				
RMF @ Measured Temperature		0.137 ohm.m @ 73 degF				
RMC @ Measured Temperature		@				
Source RMF	RMC	Measured				
RM @ MRT	RMF @ MRT	0.104 @ 98	0.104 @ 98	@	@	
Maximum Recorded Temperatures		98 degF				
Circulation Stopped	Time	12-Nov-2007	7:45			
Logger On Bottom	Time	12-Nov-2007	14:00			
Unit Number	Location	2357	Roswell			
Recorded By		S. Burdick / N. Greenstein				
Witnessed By		Brian Pregger				

True Vertical Depth

COMPANY: BEPCO, L.P.

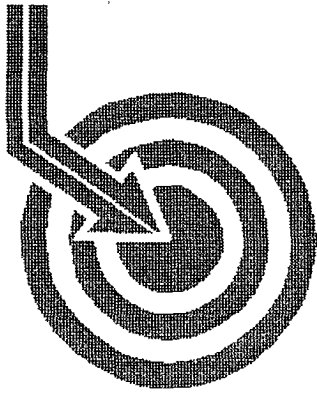
WELL: Horned Toad 36 State #2H

FIELD: Nash Draw (Delaware)

County: Eddy

State: New Mexico

County: Eddy Field: Nash Draw (Delaware) Location: 220' FNL & 2410' FEL Well: Horned Toad 36 State #2H Company: BEPCO, L.P.	LOCATION		Schlumberger		Platform Express			
					Three Detector Litho-Density			
					Compensated Neutron / GR			
220' FNL & 2410' FEL			Elev.: K.B. 3131.1 ft					
			G.L. 3109.6 ft					
			D.F. 3129.6 ft					
Permanent Datum: Ground Level			Elev.: 3109.6 ft					
Log Measured From: Kelly Bushing			21.5 ft above Perm. Datum					
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Casing Schlumberger			3320 ft					
Bit Size			8.750 in					
Type Fluid In Hole			Cut Brine					
Density			Viscosity					
Fluid Loss			PH					
Source Of Sample			Circulation Tank					
RM @ Measured Temperature			0.137 ohm.m @ 73 degF					
RMF @ Measured Temperature			0.137 ohm.m @ 73 degF					
RMC @ Measured Temperature			@					
Source RMF			RMC					
RM @ MRT			RMF @ MRT					
Maximum Recorded Temperatures			98 degF					
Circulation Stopped			Time					
Logger On Bottom			Time					
Unit Number			Location					
Recorded By			S. Burdick / N. Greenstein					
Witnessed By			Brian Pregar					



Scientific Drilling

BASS ENTERPRISES

Field: Nash Draw
Site: Eddy County, NM
Well: Horned Toad 36 State #2H
Wellpath: VH - Job #32K11071023
Survey: 11/08/07

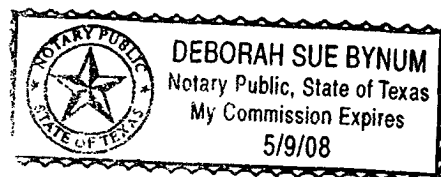
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*L. W. Hart*.....Company Representative

Notorized this date 19th of December, 2007.

Deborah Sue Bynum
Notary Signature

County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: BASS ENTERPRISES	Date: 12/16/2007	Time: 17:37:02	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 #2H	Section (VS) Reference:	Well (0.00N,0.00E,110.24Azi)	
Wellpath: VH - Job #32K11071023	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 11/08/07 KSRG 0'-4904'	Start Date: 11/08/2007
Company: Scientific Drilling Internatio	Engineer: Rehders 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	359.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.12	335.53	100.00	-0.07	0.10	-0.04	0.12	0.10	335.53
200.00	0.31	226.65	200.00	-0.27	0.00	-0.28	0.37	0.28	271.00
300.00	0.13	18.96	300.00	-0.39	-0.07	-0.44	0.43	0.45	260.59
400.00	0.32	72.91	400.00	-0.17	0.12	-0.14	0.27	0.18	309.70
500.00	0.79	109.57	499.99	0.74	-0.03	0.78	0.57	0.78	92.43
600.00	0.92	122.39	599.98	2.21	-0.69	2.10	0.23	2.22	108.25
700.00	1.45	131.50	699.96	4.18	-1.96	3.73	0.56	4.21	117.75
800.00	2.03	144.58	799.91	6.82	-4.24	5.70	0.70	7.11	126.65
900.00	1.97	148.28	899.85	9.64	-7.15	7.63	0.14	10.46	133.12
1000.00	2.00	145.05	999.79	12.42	-10.04	9.54	0.12	13.85	136.48
1100.00	1.56	143.11	1099.75	15.00	-12.56	11.35	0.44	16.93	137.89
1200.00	1.34	141.11	1199.71	17.15	-14.56	12.91	0.23	19.46	138.45
1300.00	0.93	126.59	1299.69	18.93	-15.95	14.29	0.50	21.42	138.15
1400.00	0.83	109.42	1399.68	20.43	-16.68	15.63	0.28	22.85	136.87
1500.00	0.83	117.87	1499.67	21.87	-17.26	16.95	0.12	24.19	135.52
1600.00	0.35	142.77	1599.67	22.85	-17.84	17.77	0.53	25.18	135.10
1700.00	0.62	205.67	1699.66	23.05	-18.57	17.72	0.56	25.67	136.33
1800.00	0.97	210.04	1799.65	22.86	-19.79	17.07	0.35	26.13	139.23
1900.00	0.99	206.77	1899.64	22.62	-21.29	16.25	0.06	26.79	142.65
2000.00	0.99	207.27	1999.62	22.41	-22.83	15.47	0.01	27.58	145.88
2100.00	0.69	210.77	2099.61	22.20	-24.12	14.76	0.30	28.28	148.53
2200.00	0.34	197.00	2199.61	22.10	-24.92	14.37	0.37	28.77	150.03
2300.00	0.18	187.48	2299.61	22.16	-25.36	14.26	0.17	29.10	150.65
2400.00	0.15	177.18	2399.61	22.24	-25.65	14.25	0.04	29.34	150.94
2500.00	0.13	347.20	2499.61	22.23	-25.67	14.23	0.28	29.35	150.99
2600.00	0.78	60.81	2599.60	22.61	-25.22	14.80	0.75	29.24	149.60
2700.00	1.23	78.93	2699.59	23.97	-24.69	16.45	0.55	29.66	146.33
2800.00	1.59	99.03	2799.56	26.25	-24.70	18.87	0.61	31.08	142.62
2900.00	1.80	105.79	2899.51	29.18	-25.34	21.75	0.29	33.40	139.36
3000.00	2.06	116.75	2999.46	32.53	-26.58	24.87	0.45	36.40	136.90
3100.00	2.17	122.44	3099.39	36.16	-28.40	28.07	0.24	39.93	135.34
3200.00	1.80	127.93	3199.33	39.51	-30.38	30.91	0.42	43.34	134.51
3300.00	1.36	125.17	3299.29	42.15	-32.03	33.12	0.45	46.07	134.05
3400.00	1.01	135.98	3399.27	44.09	-33.35	34.70	0.41	48.13	133.86
3500.00	0.96	139.16	3499.26	45.62	-34.62	35.86	0.07	49.84	133.99
3600.00	0.75	144.96	3599.24	46.89	-35.79	36.78	0.23	51.32	134.21
3700.00	0.76	154.25	3699.24	47.91	-36.92	37.45	0.12	52.59	134.59
3800.00	0.43	212.86	3799.23	48.30	-37.83	37.53	0.65	53.29	135.23
3900.00	0.31	208.33	3899.23	48.18	-38.39	37.20	0.12	53.45	135.90
4000.00	0.28	220.66	3999.23	48.06	-38.81	36.91	0.07	53.56	136.44
4100.00	0.34	263.05	4099.23	47.71	-39.03	36.46	0.23	53.41	136.95
4200.00	0.41	286.87	4199.22	47.09	-38.96	35.82	0.17	52.93	137.41
4300.00	0.42	281.30	4299.22	46.37	-38.79	35.12	0.04	52.32	137.84
4400.00	0.43	293.12	4399.22	45.63	-38.57	34.41	0.09	51.69	138.26
4500.00	0.53	285.82	4499.22	44.80	-38.30	33.62	0.12	50.96	138.72
4600.00	0.52	287.15	4599.21	43.88	-38.04	32.75	0.02	50.19	139.27
4700.00	0.37	279.42	4699.21	43.11	-37.85	31.99	0.16	49.56	139.79
4800.00	0.38	275.14	4799.21	42.47	-37.77	31.35	0.03	49.08	140.31



Scientific
Drilling

Scientific Drilling International

Survey Report

Company: BASS ENTERPRISES	Date: 12/16/2007	Time: 17:37:02	Page: 2
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 #2H	Section (VS) Reference:	Well (0.00N,0.00E,110.24Azi)	
Wellpath: VH - Job #32K11071023	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	0.27	305.84	4899.20	41.93	-37.60	30.82	0.20	48.62	140.65
4904.00	0.30	262.76	4903.20	41.91	-37.59	30.81	5.28	48.60	140.67



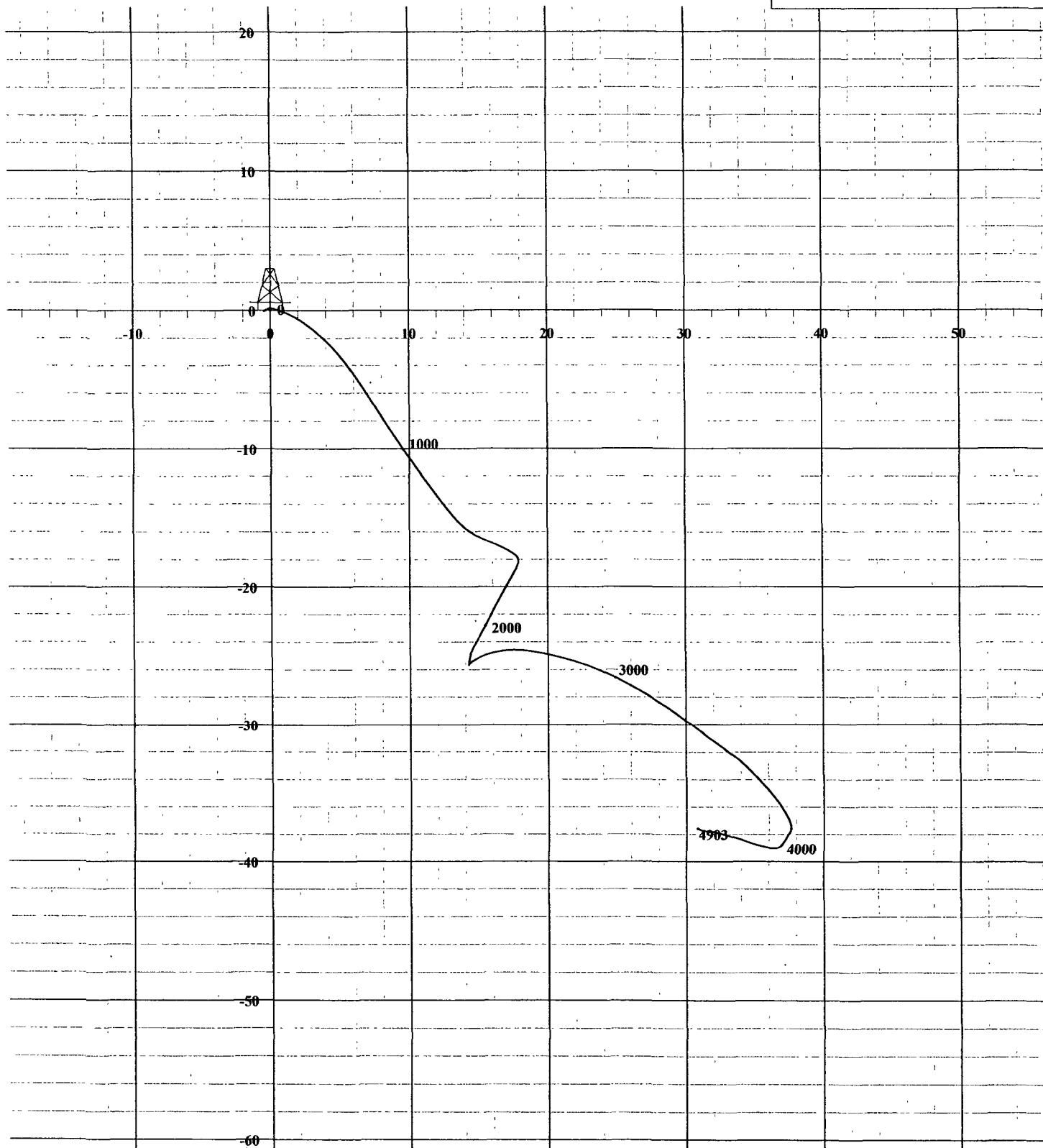
Scientific
Drilling

Field: Nash Draw
Site: Eddy County, NM
Well: Horned Toad 36 State #2H
Wellpath: VH - Job #32K11071023
Survey: 11/08/07



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Strength: 0.1
Dip Angle: 0.00°
Date: 12/16/2007
Model: grf2000

South(-)/North(+) [5ft/in]



West(-)/East(+) [5ft/in]



CAM

Phone: 432.561.8801

Fax: 432.561.8870

P. O. Box 2552

Midland, Texas 79702

Well Completion Report

Bass Enterprises

Horned Toad 36 State #2H

Adobe Sundance

Eddy County, New Mexico

Job # 2007131

December 5, 2007

1	Daily Drilling Reports
2	'As' Drilled Plot
3	Motor Run Reports
4	Bottom Hole Assemblies
5	Slide Sheets





Daily Drilling Report

Report Date:	8-Nov-07				
Company	BASS	Job #	2007131	Fig. Last 24 Hrs	
Rig	Adobe Sun Dance	Report #	1	Last Csg. Set	
Well	Horned Toad 36 State 2H	Midn't Depth		Total PDM Hrs	
BHA #		Bit #	1		
PDM Serial#	5410221	Size	7 7/8	BHA#	
Drl hrs		Make	Hughes	Item	Length
Cir hrs		Type	PDC	Bit	1
Cum Drl Hrs		Depth In	4904	Motor	25 39
Cum Cir Hrs		Depth Out		Float Sub	2.57
Bent Sub		Total Footage		UBHO	2 69
Bent Hous		Hours		2NMFDC	62 33
Depth In	4904	ROP		26stds DP	2432.88
Depth Out		Nozzles (TFA)		9stds 6" DC	590 39
WOB Rotating		T/B/G		19stds DP	1775 55
Pad/Stab OD		Mud Type		TOTAL =	4892 8
GPM		Weight		TOTAL =	0
PSI off BTM		Viscosity		BHA Run Tally:	
PSI on BTM		PV/YP		Rotate	Slide
Hook Load		PH		Circulate	Total
P/U Weight		Water Loss			0
S/O Weight		Solid Content			0
MWD Temp		Sand Content			
		Chlorides			

Time Log			Operation details and comments	Rot	Slide	Motor Inventory	
From	To	Hours		Ftg.	Ftg.	Clean	
0000	1400	14 00	Arrive On Job			Dirty	
1400	1700	3 00	Wait on tools			Comments:	
1700	1800	1 00	Unload And Strap tools				
1800	1930	1 50	Make up BHA #1				
1930	2100	1 50	SFC Test				
2100	2400	3 00	TIH			Directional Charges	
2400						Operating Package	\$8,000
						Gamma	\$1,000
						Motor LIH Coverage	\$350
						MWD LIH Coverage	\$450
						Accomadations	\$150
						Float Valve	\$850
						Motor Inspection	\$1,050
						XP Motor	\$750
						Mileage	\$6,000
						Daily Total	\$18,600
						Cum Total	\$18,600
Black Viper Energy Representatives							
						Directional Driller's :	Justin Mckenzie
							Robert Williams
						Mwd Engineers:	Richard Thurman
							Robert Burnham
Operator Representatives							
						Cecil Watkins	
						Terry Baron	
Total Hours=	24 00			0	0		



Daily Drilling Report

Report Date: 8-Nov-07		Job # 2007131		Ftg. Last 24 Hrs 102	
Company BASS		Report # 2		Last Csg. Set	
Rig Adobe Sun Dance		Midn't Depth 5096		Total PDM Hrs 10.5	
Well Horned Toad 36 State 2H					

BHA #		Bit # 1		BHA #		BHA #	
PDM Serial# 5410221		Size 7 7/8		Item	Length	Item	Length
Drl hrs 7.5		Make Hughes		Bit 1			
Cir hrs. 3		Type PDC		Motor 25.39			
Cum. Drl. Hrs 7.5		Depth In 4994		Float Sub 2.57			
Cum. Cir. Hrs 3		Depth Out		UBHO 2.69			
Bent Sub		Total Footage 0		2NMFDC 62.33			
Bent Hous 2.12/2.60		Hours		26stds DP 2432.88			
Depth In 4904		ROP		9stds 6" DC 590.39			
Depth Out		Nozzles (TFA)					
WOB Rotating		T/B/G					
Pad/Stab OD		Mud Type					
GPM		Weight					
PSI off BTTM		Viscosity					
PSI on BTTM		PV/YP					
Hook Load		PH		TOTAL = 3117.25		TOTAL = 0	
P/U Weight		Water Loss		BHA Run Tally			
S/O Weight		Solid Content		Rotate	Slide	Circulate	Total
MWD Temp.		Sand Content			102		102
		Chlorides			7.5	3	10.5

Time Log			Operation details and comments		Rot	Slide	Motor Inventory	
From	To	Hours			Ftg.	Ftg.	Clean	
0000	400	4.00	TIH				Dirty	
400	530	1.50	Calibrate MWD Gamma					Comments:
530	600	0.50	S 4994-5002 Wob 10K Spm= 90 Mtf=110		8			
600	615	0.25	C&S @ 4956 Inc= .4 Azm= 274.5					
615	1000	3.75	S 5002-5033 Wob 10K Spm= 90 Mtf=110		31			
1000	1015	0.25	C&S @ 4987 Inc= .3 Azm= 72.4					Directional Charges
1015	1145	1.50	S 5033-5064 Wob 10K Spm= 90 Mtf=110		31		Operating Package	\$8,000
1145	1215	0.50	Service Rig				Gamma	\$1,000
1215	1230	0.25	C&S @ 5018 Inc= 1.5 Azm= 89.6				Motor LIH Coverage	\$350
1230	1415	1.75	S 5064-5096 Wob 10K Spm= 90 Mtf=110		32		MWD LIH Coverage	\$450
1415	1430	0.25	C&S @ 5050 Inc= 3.7 Azm= 96.3				Accomadations	\$150
1430	1630	2.00	CIRC				Float Valve	
1630	1900	2.50	POOH				Motor Inspection	
1900	2100	2.00	Adjust motor to 2.60degree				XP Motor	\$750
2100	2130	0.50	Sfc test				Mileage	
2130	2400	2.50	TIH					
2400							Daily Total	\$10,700
							Cum Total	\$29,300
							Black Viper Energy Representatives	
							Directional Driller's :	Justin Mckenzie Robert Williams
							Mwd Engineers:	Richard Thurman Robert Burnham
							Operator Representatives	
							Cecil Watkins Terry Baron	
Total Hours=	24.00				0	102		



Daily Drilling Report

Report Date: 9-Nov-07		Job # 2007131		Ftg. Last 24 Hrs 187	
Company BASS		Report # 3		Last Csg. Set	
Rig Adobe Sun Dance		Midn't Depth 5283		Total PDM Hrs 23.75	
Well Horned Toad 36 State 2H					

BHA # 1	Size 7 7/8	BHA# 1	BHA#
PDM Serial# 5410221	Make Hughes	Item	Length
Drl hrs 11.25	Type PDC	Bit 1	
Cir hrs. 2	Depth In 4994	Motor 25.39	
Cum Drl Hrs 18.75	Depth Out 5283	Float Sub 2.57	
Cum Cir. Hrs 5	Total Footage 289	UBHO 2.69	
Bent Sub	Hours 18.75	2NMFDC 62.33	
Bent Hous 2.12/2.60	ROP 15.41	26stds DP 2432.88	
Depth In 4904	Nozzles (TFA) 6x16	9stds 6" DC 590.39	
Depth Out	T/B/G		
WOB Rotating	Mud Type Cut brine		
Pad/Stab OD	Weight 8.5		
GPM 330	Viscosity 29		
PSI off BTM 1200	PV/YP		
PSI on BTM 1350	PH 10	TOTAL = 3117.25	TOTAL = 0
Hook Load 155	Water Loss	BHA Run Tally	
P/U Weight 160	Solid Content	Rotate	Slide
S/O Weight 150	Sand Content	289	289
MWD Temp. 109	Chlorides 25000 PPM	18.75	5
			23.75

Time Log			Operation details and comments		Rot	Slide	Motor Inventory	
From	To	Hours			Ftg.	Ftg.	Clean	
0000	200	2 00	TIH				Dirty	
200	330	1 50	S/5096-5127 Wob 10K Spm= 90 Mtf=110			31	Comments	
330	400	0 50	C&S @ 5081 Inc= 5.4 Azm= 98.7					
400	700	3 00	S/5127-5158 Wob 10K Spm= 90 Gtf=10R			31		
700	715	0 25	C&S @ 5112 Inc= 7.9 Azm= 96					
715	845	1 50	S/5158-5190 Wob 10K Spm= 90 Gtf=10R			32	Directional Charges	
845	900	0 25	C&S @ 5144 Inc= 11.2 Azm= 96.1				Operating Package	\$8,000
900	1015	1 25	S/5190-5221 Wob 10K Spm= 90 Gtf=10R			31	Gamma	\$1,000
1015	1030	0 25	C&S @ 5175 Inc= 15.2 Azm= 98.3				Motor LIH Coverage	\$350
1030	1200	1 50	S/5221-5252 Wob 10K Spm= 90 Gtf=10R			31	MWD LIH Coverage	\$450
1200	1215	0 25	C&S @ 5206 Inc= 18.8 Azm= 105.6				Accomadations	\$150
1215	1445	2 50	S/5252-5283 Wob 10K Spm= 90 Gtf=10R			31	Float Valve	
1445	1500	0 25	C&S @ 5237 Inc= 22.7 Azm= 107.9				Motor Inspection	
1500	1515	0 25	Circ				XP Motor	\$750
1515	1830	3 25	P.O.OH Dail up to 3.00					
1830	2030	2 00	Adjust Motor					
2030	2400	3 50	TIH				Daily Total	\$10,700
2400							Cum Total	\$40,000
Black Viper Energy Representatives								
						Directional Driller's : Justin Mckenzie Robert Williams		
						Mwd Engineers: Richard Thurman Robert Burnham		
Operator Representatives								
						Cecil Watkins Terry Baron		
Total Hours=		24.00			0	187		



Daily Drilling Report

Report Date: 11-Nov-07		Job # 2007131		Ftg. Last 24 Hrs 63	
Company BASS		Report # 4		Last Csg. Set	
Rig Adobe Sun Dance		Midn't Depth 5346		Total PDM Hrs 30.75	
Well Horned Toad 36 State 2H					

BHA # 1	Size 8 3/4	BHA# 1	BHA#
PDM Serial# 5410221	Make Hughes	Item	Length
Drl hrs 4	Type GX-38CH	Bit 1	
Cir hrs. 3	Depth In 5283	Motor 25.39	
Cum. Drl Hrs 22.75	Depth Out	Float Sub 2.57	
Cum. Cir Hrs 8	Total Footage 0	UBHO 2.69	
Bent Sub	Hours	2NMFDC 62.33	
Bent Hous 2.12/2.60/3.00	ROP	26stds DP 2432.88	
Depth In 4904	Nozzles (TFA)	9stds 6" DC 590.39	
Depth Out	T/B/G		
WOB Rotating	Mud Type Cut brine		
Pad/Stab OD	Weight 8.5		
GPM 330	Viscosity 29		
PSI off BTM 1200	PV/YP		
PSI on BTM 1350	PH 10	TOTAL = 3117.25	TOTAL = 0
Hook Load 155	Water Loss	BHA Run Tally	
P/U Weight 160	Solid Content	Rotate	Slide
S/O Weight 150	Sand Content		
MWD Temp 109	Chlorides 25000 PPM	352	352
		22.75	8
			30.75

Time Log			Operation details and comments		Rot	Slide	Motor Inventory	
From	To	Hours			Ftg.	Ftg.	Clean	
0000	30	0 50	TIH				Dirty	
30	300	2 50	Cut/Slip Drill line				Comments	
300	530	2 50	Test MWD/Work on MWD					
530	900	3 50	POOH for MWD					
900	1000	1 00	Change MWD & Test					
1000	1600	6.00	T.I.H				Directional Charges	
1600	1900	3 00	Wash to Bottom Tight Hole				Operating Package	\$8,000
1900	2200	3 00	S/5283-5314 Wob 10K Spm= 90 Gtf=10R		31		Gamma	\$1,000
2200	2230	0 50	C&S @ 5268 Inc= 26.4 Azm= 110.7				Motor LIH Coverage	\$350
2230	2330	1 00	S/5314-5346 Wob 10K Spm= 90 Gtf=10R		32		MWD LIH Coverage	\$450
2330	2400	0 50	C&S @ 5300 Inc= 31 Azm= 113.2				Accomadations	\$150
2400							Float Valve	
							Motor Inspection	
							XP Motor	\$750
							Daily Total	\$10,700
							Cum Total	\$50,700
							Black Viper Energy Representatives	
							Directional Driller's :	Justin Mckenzie Robert Williams
							Mwd Engineers:	Richard Thurman Robert Burnham
							Operator Representatives	
							Cecil Watkins Terry Baron	
Total Hours=	24.00				0	63		

Daily Drilling Report



Daily Drilling Report

Report Date:		13-Nov-07		Job #		2007131		Ftg. Last 24 Hrs		76	
Company		BASS		Report #		6		Last Csg. Set			
Rig		Adobe Sun Dance		Midn't Depth		5471		Total PDM Hrs		58.75	
Well		Horned Toad 36 State 2H									

BHA #		1		Bit #		2		BHA #		1		BHA #			
PDM Serial#		5410221		Size		8 3/4		Item		Length		Item		Length	
Drl hrs		10.5		Make		Hughes		Bit		1					
Cir hrs.		8		Type		GX-38CH		Motor		25.39					
Cum Drl. Hrs		35.75		Depth In		5283		Float Sub		2.57					
Cum. Cir. Hrs		23		Depth Out				UBHO		2.69					
Bent Sub				Total Footage		0		2NMFDC		62.33					
Bent Hous		2.12/2.60/3.00		Hours				26stds DP		2432.88					
Depth In		4904		ROP				9stds 6" DC		590.39					
Depth Out				Nozzles (TFA)											
WOB Rotating				T/B/G											
Pad/Stab OD				Mud Type		Cut brine									
GPM		330		Weight		8.5									
PSI off BTM		1200		Viscosity		29									
PSI on BTM		1350		PV/YP											
Hook Load		155		PH		10									
P/U Weight		160		Water Loss											
S/O Weight		150		Solid Content											
MWD Temp.		109		Sand Content											
				Chlorides		25000 PPM									

Time Log			Operation details and comments			Rot		Slide		Motor Inventory			
From	To	Hours				Ftg.	Ftg.			Clean			
0000	245	2.75	Gtf= Gravity Tool Face				14			Dirty			
245	300	0.25	S/5395-5409 Wob 10K Spm= 90 Gtf= HS							Comments:			
300	400	1.00	Connection @ 5409 MD- Stuck can't get to bottom										
400	700	3.00	Work Pipe										
700	800	1.00	Wash 5378-5409										
800	815	0.25	Circ Sweep Clean Hole										
815	1145	3.50	C&S @5363 inc=41.8 azm=117.8							Directional Charges:			
1145	1200	0.25	S/5409-5440 Wob 25K Spm= 90 Gtf= HS				31			Operating Package	\$8,000		
1200	1215	0.25	Service Rig							Gamma	\$1,000		
1215	1400	1.75	C&S @5394 inc=45.3 azm=119.2							Motor LIH Coverage	\$350		
1400	1500	1.00	S/5440-5450 Wob 25K Spm= 90 Gtf= HS				10			MWD LIH Coverage	\$450		
1500	1600	1.00	Trouble Shoot MWD							Accomadations	\$150		
1600	1830	2.50	Circ Sweep Clean Hole							Float Valve			
1830	2030	2.00	T.O H to casing MWD FAILURE							Motor Inspection			
2030	2130	1.00	Wireline MWD							XP Motor	\$750		
2130	2400	2.50	TIH										
2400			S/5450-5471 Wob 25K Spm= 90 Gtf= 10L				21						
Daily Total												\$10,700	
Cum Total												\$72,100	
				s=10.5						Black Viper Energy Representatives			
				c=8						Directional Driller's : Justin Mckenzie			
										Robert Williams			
										Mwd Engineers: Richard Thurman			
										Robert Burnham			
										Operator Representatives			
										Cecil Watkins Terry Baron			
Total Hours=		24.00				0		76					



Daily Drilling Report

Report Date:	15-Nov-07	Job #	2007131	Ftg. Last 24 Hrs	93
Company	BASS	Report #	8	Last Csg. Set	
Rig	Adobe Sun Dance	Midn't Depth	5653	Total PDM Hrs	81.25
Well	Horned Toad 36 State 2H				

BHA #	2	3	Size	8 3/4	8 3/4	BHA#	2	BHA#	3
PDM Serial#	650004	65019	Make	BV	BV	Item	Length	Item	Length
Drl hrs	7.5		Type	LHA627GY		Bit	1	Bit	1
Cir hrs.	3.5	1	Depth In	5533	5654	Motor	20.57	Motor	29.75
Cum. Drl. Hrs	2.5		Depth Out	5653		Float Sub	2.57	Float Sub	2.57
Cum. Cir. Hrs	2	1	Total Footage	121	-5654	UBHO	2.69	UBHO	2.69
Bent Sub			Hours	10		2NMFDC	62.33	2NMFDC	62.33
Bent Hous	3	1.76	ROP	12.10		26stds DP	2432.88	26stds DP	2432.88
Depth In	5533		Nozzles (TFA)	3x16	6x16s	9stds 6" DC	841.05	9stds 6" DC	841.05
Depth Out			T/B/G	green					
WOB Rotating			Mud Type	Cut brine					
Pad/Stab OD			Weight	8.5					
GPM	330	330	Viscosity	29					
PSI off BTTM	1200		PV/YP						
PSI on BTTM	1350		PH	10		TOTAL =	3363.09	TOTAL =	3372.27
Hook Load	155	167	Water Loss	9		BHA Run-Tally			
P/U Weight	160	175	Solid Content			Rotate	Slide	Circulate	Total
S/O Weight	150	155	Sand Content						0
MWD Temp.	109		Chlorides	25000 PPM				1	1

Time Log			Operation details and comments	Rot.	Slide	Motor Inventory	
From	To	Hours	Gtf= Gravity Tool Face	Ftg.	Ftg.	Clean	
0000	30	0.50	S/5560-5565 Wob 10K Spm= 90 Gtf= 6L		6	Dirty	
30	100	0.50	C&S @ 5524 inc= 65.8 azm= 119.8			Comments:	
100	230	1.50	S/5565-5596 Wob 10K Spm= 90 Gtf= 6L		31		
230	300	0.50	C&S @ 5555 inc= 71 azm= 119.1				
300	600	3.00	S/5596-5627 Wob 10K Spm= 90 Gtf= 6L		31		
600	645	0.75	Relog Gamma			Directional Charges	
645	700	0.25	C&S @ 5586 inc= 77.3 azm= 118.6			Operating Package	\$8,000
700	900	2.00	S/5627-5648 Wob 10K Spm= 90 Gtf= 6L		21	Gamma	\$1,000
900	930	0.50	Rig Repair			Motor LIH Coverage	\$350
930	1000	0.50	S/5648-5653 Wob 10K Spm= 90 Gtf= 6L		5	MWD LIH Coverage	\$450
1000	1115	1.25	Circ Sweep			Accomadations	\$150
1115	1545	4.50	T.O H			Float Valve	
1545	1645	1.00	Change Motor & Bit			Motor Inspection	\$1,050
1645	1715	0.50	Test MWD			XP Motor	\$750
1715	2300	5.75	T.I.H				
2300	2400	1.00	Work Pipe/Wash last 4 stands to bottom				
2400						Daily Total	\$11,750
						Cum Total	\$95,600
						Black Viper Energy Representatives	
						Directional Driller's : Justin Mckenzie	
						Robert Williams	
						Mwd Engineers: Richard Thurman	
						Robert Burnham	
						Operator Representatives	
						Cecil Watkins Terry Baron	
Total Hours=		24.00		0	94		

Daily Drilling Report

Daily Drilling Report



Daily Drilling Report

Report Date:		18-Nov-07			
Company		BASS		Job #	
Rig		Adobe Sun Dance		2007131	
Well		Horned Toad 36 State 2H		Report #	
		Midn't Depth		11	
				Ftg. Last 24 Hrs	
				188	
				Last Csg. Set	
				Total PDM Hrs	
				140.5	

BHA #		3		Bit #		3			
PDM Serial#		65019		Size		8 3/4			
Drl hrs		8 25		Make		BV			
Cir hrs.		2		Type					
Cum Drl. Hrs		45.25		Depth In		5654			
Cum. Cir. Hrs		14		Depth Out					
Bent Sub				Total Footage		-5654		0	
Bent Hous		1.76		Hours					
Depth In				ROP					
Depth Out				Nozzles (TFA)		6x16s			
WOB Rotating				T/B/G					
Pad/Stab OD				Mud Type		Cut brine			
GPM		330		Weight		8.5			
PSI off BTM				Viscosity		29			
PSI on BTM				PV/YP					
Hook Load		167		PH		10			
P/U Weight		175		Water Loss		9			
S/O Weight		155		Solid Content					
MWD Temp.		110		Sand Content					
				Chlorides		25000 PPM			

BHA#		3		BHA#		3		BHA#			
Item		Length		Item		Length		Item		Length	
Bit		1		Motor		29 75					
Float Sub		2.57		UBHO		2.69					
2NMFDC		62 33		26stds DP		2432.88					
9stds 6" DC		841.05									
TOTAL =		3372.27		TOTAL =		0					

BHA Run Tally:			
Rotate	Slide	Circulate	Total
664	127	791	
33.75	11.5	14	59.25

Time Log			Operation details and comments		Rot.	Slide	Motor Inventory	
From	To	Hours			Ftg.	Ftg.	Clean	
0000	30	0.50	Gtf= Gravity Tool Face				Dirty	
30	230	2.00	C&S @ 6394 inc= 89 azm= 108.9		63		Comments:	
230	430	2.00	R/6444-6507 Wob 10K Spm= 90 rpm=45			20		
430	630	2.00	S/6507-6527 Wob 10K Spm= 90 Gtf= 70L		43			
630	645	0.25	R/6527-6570 Wob 10K Spm= 90 rpm=45					
645	900	2.25	C&S @ 6520 inc= 88.8 azm= 109.2		62			
900	1300	4.00	R/6570-6632 Wob 10K Spm= 90 rpm=45				Directional Charges	
1300	2400	11.00	Work Stuck Pipe				Operating Package	\$8,000
2400			Work Stuck Pipe Wait on Wireline Truck				Gamma	\$1,000
							Motor LIH Coverage	\$350
							MWD LIH Coverage	\$450
							Accomadations	\$150
							Float Valve	
							Motor Inspection	
							XP Motor	\$750
							Daily Total	\$10,700
							Cum Total	\$127,700
							Black Viper Energy Representatives	
							Directional Driller's : Justin Mckenzie	
							Robert Williams	
							Mwd Engineers: Richard Thurman	
							Robert Burnham	
							Operator Representatives	
							Cecil Watkins Terry Baron	
Total Hours=		24.00			168	20		

Daily Drilling Report



Daily Drilling Report

Daily Drilling Report

Daily Drilling Report

Daily Drilling Report





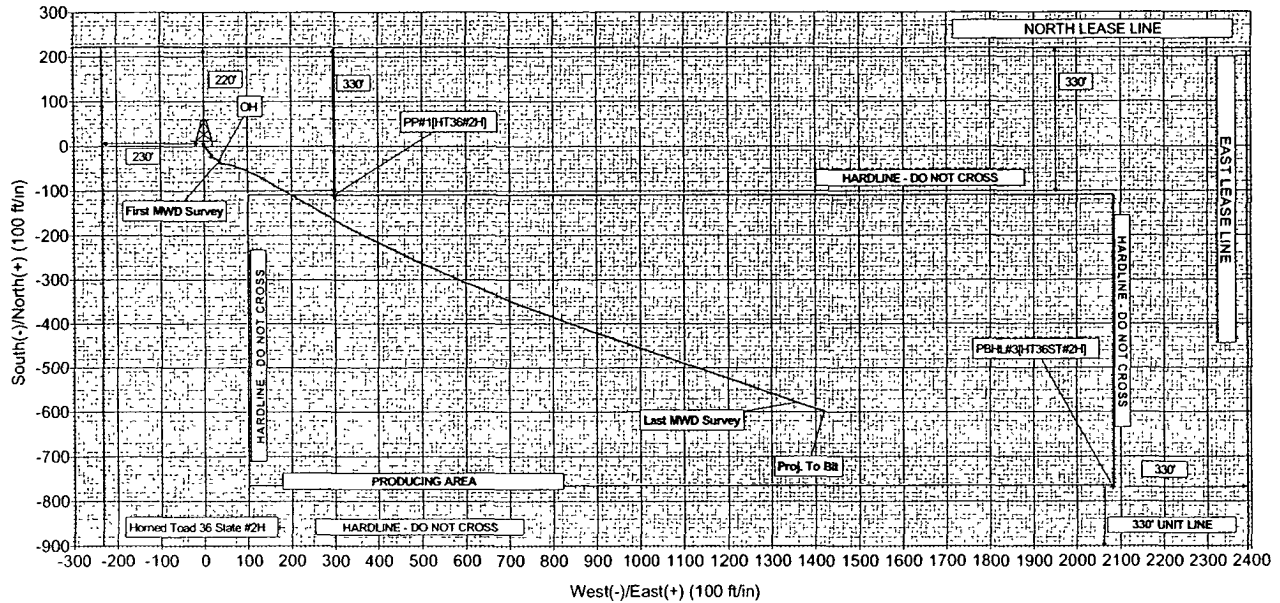
Daily Drilling Report

Daily Drilling Report





Project: Eddy Co., New Mexico (Nad 83)
 Site: Horned Toad 36 State #2H
 Well: Horned Toad 36 State #2H
 Wellbore: Lateral
 Survey: MWD Survey #1 (Horned Toad 36 State #2H/Lateral)



ANNOTATIONS

TVD	MD	Annotation
4955.19	4956.00	First MWD Survey
5479.77	6736.00	Last MWD Survey
5482.59	6736.00	Proj. To Bit

FORMATION TOP DETAILS

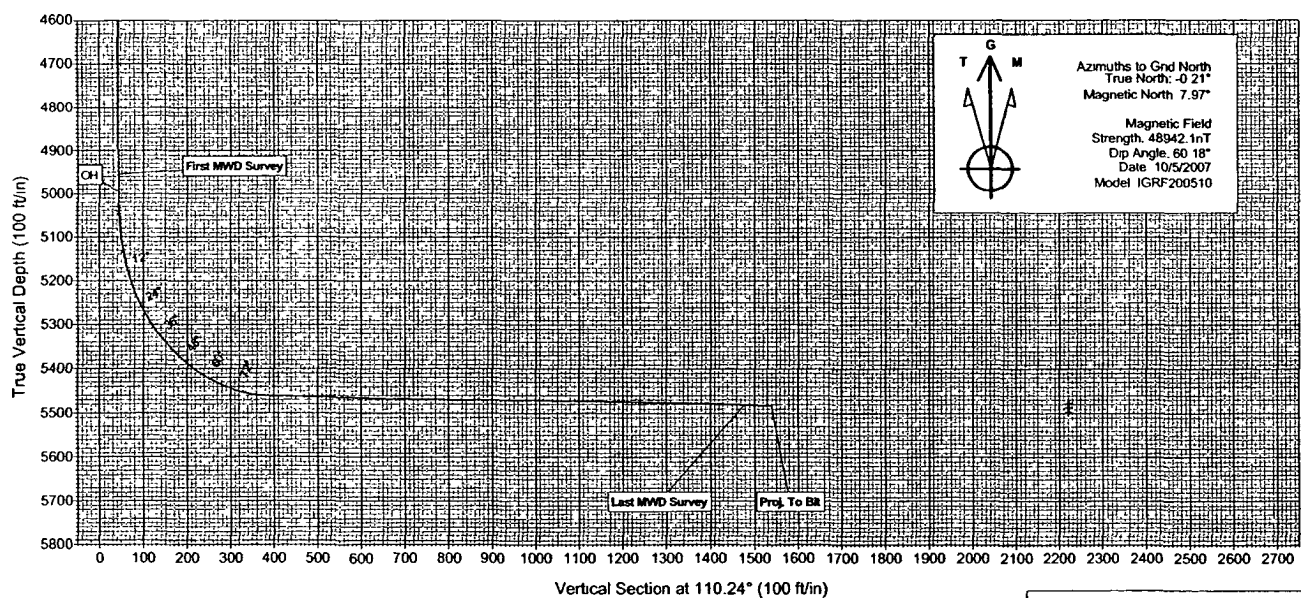
No formation data is available

SECTION DETAILS

No plan data is available

PROJECT DETAILS Eddy Co., New Mexico (Nad 83)

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level



Survey: MWD Survey #1 (Horned Toad 36 State #2H/Lateral)
 Created By: L.D. Bunton Date: November 12, 2007

Bass Enterprises Production Co.

Eddy Co., New Mexico (Nad 83)

Horned Toad 36 State #2H

Horned Toad 36 State #2H

Lateral

Survey: MWD Survey #1

Standard Survey Report

06 December, 2007

Black Viper Energy

Survey Report

Company: Bass Enterprises Production Co.
Project: Eddy Co., New Mexico (Nad 83)
Site: Horned Toad 36 State #2H
Well: Horned Toad 36 State #2H
Wellbore: Lateral
Design: Lateral

Local Co-ordinate Reference: Well Horned Toad 36 State #2H
TVD Reference: Rig KB @ 3131.00ft (New Rig KB Elev.)
MD Reference: Rig KB @ 3131.00ft (New Rig KB Elev.)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.14 Server Db

Project Eddy Co., New Mexico (Nad 83)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Site Horned Toad 36 State #2H

Site Position:
From: Map
Position Uncertainty: 0.00 ft
Northing: 429,632.27 ft
Easting: 663,884.38 ft
Slot Radius: "
Latitude: 32° 10' 49.851 N
Longitude: 103° 56' 14.040 W
Grid Convergence: 0 21 °

Well Horned Toad 36 State #2H

Well Position +N/-S 0 00 ft
Well Position +E/-W 0 00 ft
Position Uncertainty 0 00 ft
Northing: 429,632.27 ft
Easting: 663,884.38 ft
Wellhead Elevation: 3,131.10 ft
Latitude: 32° 10' 49.851 N
Longitude: 103° 56' 14.040 W
Ground Level: 3,109.90 ft

Wellbore Lateral

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/5/2007	8.18	60 18	48,942

Design Lateral

Audit Notes:

Version: 1 0
Phase: ACTUAL
Tie On Depth: 4,900.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0 00	0 00	0 00	110.24

Survey Program Date 12/6/2007

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	4,900.00	Gyro Survey (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s
4,900.00	6,796.00	MWD Survey #1 (Lateral)	MWD	MWD - Standard

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)
4,900.00	0.27	305.84	4,899.19	-37.60	30.82	41.92	0.00	0.00	0.00
4,956.00	0.40	274.50	4,955.19	-37.51	30.52	41.61	0.39	0.23	-55.96
First MWD Survey									
4,987.00	0.30	72.40	4,986.19	-37.47	30.49	41.57	2.22	-0.32	509.36
5,018.00	1.50	89.60	5,017.18	-37.45	30.97	42.01	3.92	3.87	55.48
5,050.00	3.70	96.30	5,049.15	-37.56	32.42	43.41	6.93	6.88	20.94
5,081.00	5.40	98.70	5,080.05	-37.89	34.85	45.81	5.52	5.48	7.74
5,112.00	7.90	96.00	5,110.84	-38.33	38.41	49.30	8.13	8.06	-8.71
5,144.00	11.20	96.10	5,142.39	-38.89	43.69	54.45	10.31	10.31	0.31
5,175.00	15.20	98.30	5,172.57	-39.80	50.71	61.35	13.00	12.90	7.10
5,206.00	18.80	105.60	5,202.21	-41.73	59.55	70.31	13.48	11.61	23.55
5,237.00	22.70	107.90	5,231.20	-44.91	70.05	81.27	12.85	12.58	7.42

Black Viper Energy

Survey Report

Company: Bass Enterprises Production Co.
 Project: Eddy Co., New Mexico (Nad 83)
 Site: Horned Toad 36 State #2H
 Well: Horned Toad 36 State #2H
 Wellbore: Lateral
 Design: Lateral

Local Co-ordinate Reference: Well Horned Toad 36 State #2H
 TVD Reference: Rig KB @ 3131.00ft (New Rig KB Elev.)
 MD Reference: Rig KB @ 3131.00ft (New Rig KB Elev.)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.14 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)
5,268.00	26.40	110.70	5,259.39	-49.19	82.20	94.14	12.51	11.94	9.03
5,299.00	31.00	113.20	5,286.57	-54.77	95.99	109.01	15.33	14.84	8.06
5,332.00	36.30	115.20	5,314.04	-62.29	112.65	127.24	16.41	16.06	6.06
5,363.00	41.80	117.80	5,338.10	-71.02	130.11	146.64	18.51	17.74	8.39
5,394.00	45.30	119.20	5,360.57	-81.21	148.87	167.77	11.71	11.29	4.52
5,425.00	50.60	119.90	5,381.32	-92.57	168.89	190.48	17.18	17.10	2.26
5,456.00	55.20	119.20	5,400.02	-104.75	190.39	214.87	14.95	14.84	-2.26
5,487.00	60.80	119.40	5,416.44	-117.62	213.31	240.83	18.07	18.06	0.65
5,524.00	65.80	119.80	5,433.06	-133.94	242.04	273.43	13.55	13.51	1.08
5,555.00	71.00	119.10	5,444.47	-148.10	267.13	301.87	16.90	16.77	-2.26
5,586.00	77.30	118.60	5,452.93	-162.48	293.24	331.34	20.38	20.32	-1.61
5,613.00	83.50	117.60	5,457.43	-175.02	316.71	357.70	23.25	22.96	-3.70
5,645.00	88.00	116.30	5,459.80	-189.47	345.15	389.39	14.63	14.06	-4.06
5,676.00	88.60	115.70	5,460.72	-203.06	373.00	420.22	2.74	1.94	-1.94
5,707.00	88.50	115.90	5,461.50	-216.54	400.90	451.06	0.72	-0.32	0.65
5,739.00	88.90	115.60	5,462.23	-230.44	429.71	482.90	1.56	1.25	-0.94
5,770.00	89.20	115.60	5,462.74	-243.84	457.67	513.76	0.97	0.97	0.00
5,801.00	88.90	115.60	5,463.26	-257.23	485.62	544.62	0.97	-0.97	0.00
5,832.00	88.80	114.10	5,463.88	-270.25	513.74	575.52	4.85	-0.32	-4.84
5,863.00	88.90	113.80	5,464.50	-282.84	542.07	606.44	1.02	0.32	-0.97
5,894.00	88.40	112.30	5,465.23	-294.97	570.59	637.40	5.10	-1.61	-4.84
5,927.00	88.70	112.20	5,466.07	-307.46	601.12	670.37	0.96	0.91	-0.30
5,958.00	88.80	112.50	5,466.74	-319.25	629.78	701.34	1.02	0.32	0.97
5,989.00	88.90	112.20	5,467.37	-331.03	658.45	732.31	1.02	0.32	-0.97
6,021.00	89.10	111.20	5,467.93	-342.86	688.18	764.30	3.19	0.63	-3.13
6,052.00	89.20	110.60	5,468.39	-353.92	717.13	795.29	1.96	0.32	-1.94
6,083.00	89.50	110.00	5,468.74	-364.67	746.20	826.29	2.16	0.97	-1.94
6,114.00	89.70	110.10	5,468.95	-375.30	775.33	857.29	0.72	0.65	0.32
6,145.00	89.30	110.20	5,469.22	-385.98	804.43	888.29	1.33	-1.29	0.32
6,176.00	89.90	109.90	5,469.44	-396.61	833.55	919.28	2.16	1.94	-0.97
6,208.00	90.10	110.10	5,469.44	-407.55	863.62	951.28	0.88	0.63	0.63
6,239.00	89.40	109.30	5,469.58	-418.00	892.80	982.28	3.43	-2.26	-2.58
6,269.00	89.30	108.60	5,469.92	-427.74	921.17	1,012.27	2.36	-0.33	-2.33
6,300.00	89.30	109.00	5,470.29	-437.73	950.52	1,043.26	1.29	0.00	1.29
6,332.00	88.90	108.80	5,470.80	-448.10	980.79	1,075.25	1.40	-1.25	-0.63
6,363.00	88.80	109.00	5,471.42	-458.14	1,010.11	1,106.23	0.72	-0.32	0.65
6,394.00	89.00	108.90	5,472.01	-468.20	1,039.43	1,137.22	0.72	0.65	-0.32
6,425.00	88.80	108.60	5,472.61	-478.16	1,068.78	1,168.20	1.16	-0.65	-0.97
6,457.00	88.80	108.40	5,473.28	-488.32	1,099.12	1,200.18	0.62	0.00	-0.63
6,488.00	88.80	108.60	5,473.93	-498.15	1,128.51	1,231.16	0.65	0.00	0.65
6,520.00	88.80	109.20	5,474.60	-508.51	1,158.77	1,263.14	1.87	0.00	1.88
6,551.00	88.90	108.60	5,475.22	-518.55	1,188.10	1,294.13	1.96	0.32	-1.94
6,582.00	88.80	109.10	5,475.84	-528.57	1,217.43	1,325.11	1.64	-0.32	1.61
6,611.00	89.20	108.90	5,476.35	-538.01	1,244.84	1,354.10	1.54	1.38	-0.69
6,647.00	88.90	109.50	5,476.95	-549.84	1,278.84	1,390.09	1.86	-0.83	1.67
6,674.00	88.20	109.20	5,477.63	-558.79	1,304.30	1,417.08	2.82	-2.59	-1.11
6,705.00	88.30	108.80	5,478.58	-568.87	1,333.60	1,448.06	1.33	0.32	-1.29
6,736.00	87.30	108.60	5,479.77	-578.81	1,362.94	1,479.02	3.29	-3.23	-0.65
Last MWD Survey									
6,796.00	87.30	108.60	5,482.59	-597.92	1,419.75	1,538.93	0.00	0.00	0.00
Proj. To Bit									

Black Viper Energy

Survey Report

Company: Bass Enterprises Production Co.
 Project: Eddy Co., New Mexico (Nad 83)
 Site: Horned Toad 36 State #2H
 Well: Horned Toad 36 State #2H
 Wellbore: Lateral
 Design: Lateral

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

Well Horned Toad 36 State #2H
 Rig KB @ 3131.00ft (New Rig KB Elev.)
 Rig KB @ 3131.00ft (New Rig KB Elev.)
 Grid
 Minimum Curvature
 EDM 2003.14 Server Db

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
PP#1[HT36#2H] - survey misses by 1017 32ft at 5641.50ft MD (5459.66 TVD, -187.92 N, 342.02 E) - Point	0 00	0 00	6,473.00	-110.00	297.15	429,522.27	664,181.53	32° 10' 48.752 N	103° 56' 10.587 W
PBHL#3[HT36ST#2H] - survey misses by 683 38ft at 6796 00ft MD (5482.59 TVD, -597 92 N, 1419.75 E) - Point	0 00	0 00	5,485.00	-767.58	2,081.73	428,864.69	665,966.11	32° 10' 42.179 N	103° 55' 49.850 W
PBHL#1[HT36ST#2H] - survey misses by 683 39ft at 6796 00ft MD (5482.59 TVD, -597 92 N, 1419.75 E) - Point	0 00	0 00	5,476.00	-767.72	2,081.67	428,864.55	665,966.05	32° 10' 42.178 N	103° 55' 49.851 W
PBHL#2[HT36ST#2H] - survey misses by 683 51ft at 6796 00ft MD (5482.59 TVD, -597 92 N, 1419.75 E) - Point	0 00	0 00	5,496.00	-767.58	2,081.73	428,864.69	665,966.11	32° 10' 42.179 N	103° 55' 49.850 W

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,956.00	4,955.19	-37.51	30.52	First MWD Survey
6,736.00	5,479.77	-578.81	1,362.94	Last MWD Survey
6,796.00	5,482.59	-597.92	1,419.75	Proj To Bit

Checked By: _____ Approved By: _____ Date: _____

Slide Data Sheet

Company: BASS

Date: 17-Nov thru

Well Name: Horned Toad 36 State 2H

Bit to Survey: 50 Ft.

Co. Rep. : Cecil Watkins

Page: 2 of

[illegible]

Sliding Data : Footage= 91 Hrs= 9.25 Ft/Hr= 9.83783784

Rotating Data: Footage= 428 Hrs= 15.3 Ft/Hr= 28.0655738

Black Viper Directional Sup.:

Slide Data Sheet

Company: **BASS**

Date: 8-Nov thru 17-Nov

Well Name: Horned Toad 36 State 2H

Bit to Survey: 50 Ft.

Co. Rep. : Cecil Watkins

Page: 1 of

BHA #	Surevy Depth	Incl. Degree	Azimuth Degree	Depth From	Depth To	Feet	Drill O/R	Tool Face or RPM	Drill Hrs.	WOB 1000#	PU,SO & ROT WT	Pump SPM	Flow Rate	Pressure OFF/ON	Comments
1	4956	0.4	274.5	4994	5033	39	o	110/HS	4.25	5k	160/150/	90	330	1200/1300	
	4987	0.3	72.4	5033	5064	31	o	110	1.50	5k	160/150/	90	330	1200/1300	
	5018	1.5	89.6	5064	5096	32	o	110	1.75	5k	160/150/	90	330	1200/1300	
	5050	3.7	96.3	5096	5127	31	o	110	1.50	5k	160/150/	90	330	1200/1300	
	5081	5.4	98.7	5127	5158	31	o	hs	3.00	10k	160/150/	90	330	1200/1300	
	5112	7.9	96	5158	5190	32	o	hs	1.50	10k	160/150/	90	330	1200/1300	
	5144	11.2	96.1	5190	5221	31	o	hs	1.25	10k	160/150/	90	330	1200/1300	
	5175	15.2	98.3	5221	5252	31	o	hs	1.50	10k	160/150/	90	330	1200/1300	
	5206	18.8	105.6	5252	5283	31	o	hs	2.50	10k	160/150/	90	330	1200/1300	
	5237	22.7	107.9	5283	5314	31	o	hs	3.00	10k	160/150/	90	330	1200/1300	
	5268	26.4	110.7	5314	5346	32	o	hs	1.00	10k	160/150/	90	330	1200/1300	
	5300	31	113.2	5346	5378	32	o	hs	1.50	10k	160/150/	90	330	1200/1300	
	5332	36.3	115.2	5378	5409	31	o	hs	3.75	35k	160/150/	90	330	1200/1300	
	5363	41.8	117.8	5409	5440	31	o	hs	3.50	35k	160/150/	90	330	1200/1300	
	5394	45.3	119.2	5440	5471	31	o	hs	4.25	35k	160/150/	90	330	1200/1300	
	5425	50.8	119.9	5471	5502	31	o	hs	2.00	35k	160/150/	90	330	1200/1300	
	5456	55.2	119.2	5502	5533	31	o	hs	3.50	35k	160/150/	90	330	1200/1300	
2	5487	60.8	119.4	5533	5565	32	o	hs	3.00	35k	160/150/	90	330	1200/1300	
	5524	65.8	119.8	5565	5596	31	o	hs	1.50	35k	160/150/	90	330	1200/1300	
	5555	71	119.1	5596	5627	31	o	hs	3.00	35k	160/150/	90	330	1200/1300	
	5586	77.3	118.6	5627	5653	26	o	hs	2.50	35k	160/150/	90	330	1200/1300	
3	5613	83.5	117.6	5653	5726	73	r	40	3.00	8k	160/150/	90	330	1200/1300	
	5645	88	116.3	5726	5757	31	r	40	1.25	8k	160/150/	90	330	1200/1300	
	5676	88.6	115.7	5757	5767	10	o	45L	1.00	10K	160/150/	90	330	1200/1300	
				5767	5820	53	R	40	1.75	8K	160/150/	90	330	1200/1300	
	5770	89.2	115.6	5820	5835	15	O	90L	1.25	10K	160/150/	90	330	1200/1300	
				5835	5882	47	R	40	3.35	8K	160/150/	90	330	1200/1300	
	5832	88.8	114.1	5882	5913	31	O	70L	1.00	10K	160/150/	90	330	1200/1300	
				5913	5977	64	R	40	2.50	8K	160/150/	90	330	1200/1300	
	5927	88.7	112.2	5977	6008	31	R	40	0.50	8K	160/150/	90	330	1200/1300	

Sliding Data : Footage= 676 Hrs= 50.3 Ft/Hr= 13.4527363

Rotating Data: Footage= 299 Hrs= 12.4 Ft/Hr= 24.2105263

Black Viper Directional Sup.:



BHA Data Sheet

Job #	2007131	BHA #:	4	Hole Size :	8 3/4	Motor Run#	4
Customer:	BASS	Date In:	11/27/07	Date Out:	11/29/2007	Motor OD:	6 1/2
Well:	Horned Toad 36 State 2H	Depth In:	6632	Depth Out:	6796	Total Ftg.:	164.00
Well Loc.:	0	Slide.Hrs.:	24.25	Slide Ftg.:	64	Slide.ROP:	2.64
Co./St.:	Eddy New Mexico	Rot.Hrs.:	15.5	Rot.Ftg.:	100	Rot.ROP:	6.45
Rig :	Adobe Sun Dance	Drig Hrs.:	39.75	Slide WOB:	75k	Avg.ROP:	4.13
DD:	Justin Mckenzie	Circ.Hrs.:		Rot. WOB:	45k	Steering%:	39.02%
DD:	Robert Williams	D&C Hrs:	39.75	Avg. Tq.:		Rotate%:	60.98%
MWD:	Richard Thurman	Rot/Stat.:	7/8 4.0	Avg. RPM :	40	GPM:	420
MWD:	Robert Burnham	ABH Set:	1.76	Incl. In:	88.8	SPP On:	1800
Mud :	Cut Brine	Mud PV:		Mud YP:		Incl.Out:	87.3
Mud Wt.:	9 PPG	Chloride:	25000 k PPM	BHT F.:	109 F.	Azimuth In :	109
Mud Vis.:	33	Sand % :		Solid %:		Azimuth Out :	108.8
						SPP Off:	1720
						Delta P:	80
						Avg.DLS:	2

Item	Description	Vendor	S/N	F/N	Stab. OD	OD	ID	Connection	Length	Cum.
1	Bit	bves				8 3/4		4 1/2 reg	1.00	1.00
2	Mud Motor	Cavo	65007			6 1/2		4 1/2 reg	29.75	30.75
3	Float Sub	bves	6500007			6 7/16	2 1/2	4 1/2 xh	2.57	33.32
4	UBHO Sub	bves	650024			5 5/16	2 3/4	4 1/2 xh	2.65	35.97
5	2 NMFDC	SD	41722/40731			6 1/4	2 7/8	4 1/2 xh	62.33	98.30
6	26 Stds DP	Rig						4 1/2 xh	2432.88	2531.18
7	8 Stds 6" DC	Rig						4 1/2 xh	745.09	3276.27
8	Jars								32.28	3308.55
9	2 Jts 6" DC								61.99	3370.54

Total BHA Length = 3370.54

BHA Weights : Wt in Air = 9086 lb Wt in Mud = 7907 lb

BHA Exp. Behavior

BHA Act. Behavior

Comments / Reason for Trip

Accumulative PDM Hrs.

Failure? Y or N Failure Type

Bit Grade Inner/Outer/Dull Char./Location/Brng/Gage/Other/Reason Pulled

3/3/WT/A/O/4/ER/PR



BHA Data Sheet

Job #	2007131	BHA #:	3	Hole Size :	8 3/4	Motor Run#	3
Customer:	BASS	Date In:	11/15/07-	Date Out:	11/24/2007	Motor OD:	6 1/2
Well:	Horned Toad 36 State 2H	Depth In:	5654	Depth Out:	6632	Total Ftg.:	978.00
Well Loc.:	0	Slide.Hrs.:	11.5	Slide Ftg.:	314	Slide.ROP:	27.30
Co./St.:	Eddy New Mexico	Rot.Hrs.:	33.75	Rot.Ftg.:	664	Rot.ROP:	19.67
Rig :	Adobe Sun Dance	Drig Hrs.:	45.25	Slide WOB:	35k	Avg.ROP:	21.61
DD:	Justin Mckenzie	Circ.Hrs.:	84	Rot. WOB:	15k	Steering%:	32.11%
DD:	Robert Williams	D&C Hrs:	129.25	Avg. Tq.:		Rotate%:	67.89%
MWD:	Richard Thurman	Rot/Stat.:	7/8 4.0	Avg. RPM :	40	GPM:	329
MWD:	Robert Burnham	ABH Set:	1.76	Incl. In:	83	SPP On:	1600
Mud :	Cut Brine	Mud PV:		Mud YP:		Incl.Out:	88.8
Mud Wt.:	9 PPG	Chloride:	25000 k PPM	BHT F.:	109 F.	Azimuth In :	118
Mud Vis.:	33	Sand % :		Solid %:		Azimuth Out :	109.2
						Avg.DLS:	2

Item	Description	Vendor	S/N	F/N	Stab. OD	OD	ID	Connection	Length	Cum.
1	Bit	VB	1011			8 3/4		4 1/2 reg	1.00	1.00
2	Mud Motor	Cavo	65019			6 1/2		4 1/2 reg	29.75	30.75
3	Float Sub	bves	65000019			6 7/16	2 1/2	4 1/2 xh	2.57	33.32
4	UBHO Sub	bves	650024			5 5/16	2 3/4	4 1/2 xh	2.65	35.97
5	2 NMFDC	SD	41722/40731			6 1/4	2 7/8	4 1/2 xh	62.33	98.30
6	26 Stds DP	Rig						4 1/2 xh	2432.88	2531.18
7	9 Stds 6" DC	Rig						4 1/2 xh	841.05	3372.23

Total BHA Length = 3372.23

BHA Weights : Wt in Air = 9086 lb Wt in Mud = 7907 lb

BHA Exp. Behavior

BHA Act. Behavior As expected

Comments / Reason for Trip

Accumulative PDM Hrs.

Failure? Y or N

Failure Type

n

Bit Grade Inner/Outer/Dull Char./Location/Brng/Gage/Other/Reason Pulled

3/3/WT/A/O/I/ER/PR



BHA Data Sheet

Job #	2007131	BHA #:	2	Hole Size :	8 3/4	Motor Run#	2
Customer:	BASS	Date In:	11/14/07-	Date Out:	11/15/2007	Motor OD:	6 1/2
Well:	Horned Toad 36 State 2H	Depth In:	5533	Depth Out:	5654	Total Ftg.:	121.00
Well Loc.:	0	Slide.Hrs.:	10	Slide Ftg.:	121	Slide.ROP:	12.10
Co./St.:	Eddy New Mexico	Rot.Hrs.:	0	Rot.Ftg.:	0	Rot.ROP:	
Rig :	Adobe Sun Dance	Drlg Hrs.:	10	Slide WOB:	35k	Avg.ROP:	12.10
DD:	Justin Mckenzie	Circ.Hrs.:	3.5	Rot. WOB:		Steering%:	100.00%
DD:	Robert Williams	D&C Hrs:	13.5	Avg. Tq.:		Rotate%:	0.00%
MWD:	Richard Thurman	Rot/Stat.:	7/8 3.0	Avg. RPM :	89	GPM:	329
MWD:	Robert Burnham	ABH Set:	3	Incl. In:	60.8	SPP On:	1600
Mud :	Cut Brine	Mud PV:		Mud YP:		Incl.Out:	83
Mud Wt.:	9 PPG	Chloride:	25000 k PPM	BHT F.:	109 F.	SPP Off:	1520
Mud Vis.:	33	Sand % :		Solid %:		Azimuth In :	119.4
						Azimuth Out :	118
						Avg.DLS:	19

Item	Description	Vendor	S/N	F/N	Stab. OD	OD	ID	Connection	Length	Cum.
1	lha627gy Bit	BV	22007					4 1/2 reg	1.00	1.00
2	Mud Motor	BV	650004			6 1/2		4 1/2reg 4 1/2 xh	20.57	21.57
3	Float Sub	bves	65000019			6 7/16	2 1/2	4 1/2 xh	2.57	24.14
4	UBHO Sub	bves	650024			5 5/16	2 3/4	4 1/2 xh	2.65	26.79
5	2 NMFDC	SD	41722/40731			6 1/4	2 7/8	4 1/2 xh	62.33	89.12
6	26 Stds DP	Rig						4 1/2 xh	2432.88	2522.00
7	9 Stds 6" DC	Rig						4 1/2 xh	841.05	3363.05

Total BHA Length = 3363.05

BHA Weights : Wt in Air = 7845 lb Wt in Mud = 6827 lb

BHA Exp. Behavior

BHA Act. Behavior

Comments / Reason for Trip

Accumulative PDM Hrs. 13.5

Failure? Y or N

Failure Type

Bit Grade Inner/Outer/Dull Char./Location/Brng/Gage/Other/Reason Pulled

2/5wt/o/o/PDC

BHA Data Sheet

Job #	2007131			BHA #:	1	Hole Size :	8 3/4	Motor Run#	1
Customer:	BASS			Date In:	11/8/2007\$	Date Out:	11/14/2007	Motor OD:	6 1/2
Well:	Horned Toad 36 State 2H			Depth In:	4994	Depth Out:	5533	Total Ftg.:	539.00
Well Loc.:	0			Slide.Hrs.:	41.25	Slide Ftg.:	539	Slide.ROP:	13.07
Co./St.:	Eddy New Mexico			Rot.Hrs.:	0	Rot.Ftg.:	0	Rot.ROP:	
Rig :	Adobe Sun Dance			Drig Hrs.:	41.25	Slide WOB:	35K	Avg.ROP:	13.07
DD:	Justin Mckenzie			Circ.Hrs.:	25.5	Rot. WOB:		Steering%:	100.00%
DD:	Robert Williams			D&C Hrs:	66.75	Avg. Tq.:		Rotate%:	0.00%
MWD:	Richard Thurman			Rot/Stat.:	7/8 4.0	Avg. RPM :		GPM:	329
MWD:	Robert Burnham			ABH Set:	3	Incl. In:	0.27	SPP On:	1600
Mud :	Cut Brine	Mud PV:		Mud YP:		Incl.Out:	60.8	SPP Off:	1520
Mud Wt.:	9 PPG	Chloride:	25000 k PPM	BHT F.:	109 F.	Azimuth In :	305.84	Delta P:	80
Mud Vis.:	33	Sand % :		Solid %:		Azimuth Out :	119.4	Avg.DLS:	16

[illegible]

Total BHA Length = 3367.87

BHA Weights :	Wt in Air =	8389 lb	Wt in Mud =	7300 lb
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BHA	Exp. Behavior
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
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31	31
32	32
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34	34
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54	54
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58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
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67	67
68	68
69	69
70	70
71	71
72	72
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75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

BHA Act. Behavior

Comments / Reason for Trip

Accumulative PDM Hrs.

Failure? Y or N

Failure Type

Bit Grade	Inner/Outer/Dull Char./Location/Brng/Gage/Other/Reason Pulled
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4/2/WT/A/0/4/ER/PR



Motor Run Report

Job Number 2007131
PDM Company Cavo
Motor O.D. 6 1/2"
Power Section 7/8 4
Serial Number 65007
Customer BASS
Well Name Horned Toad 36 State 2H
Rig Name Adobe Sun Dance
County / State Eddy New Mexico
Location a
Date In 27-Nov
Date Out 29-Nov
Total Days Run 2
Hole Size 8 3/4
Stabilizer Size a
Adj. Bend Set 1.76
Depth In 6632
Depth Out 6796
Footage Drilled 164
ROP 4.13
Drill Hours 39.75
Circulating Hours
Total Run Hours 39.75
Rotating Feet 100
Rotating Hours 15.50
Rotating ROP 6.45
Slide Feet 65
Slide Hours 24.25
Slide ROP 2.68

BHA # : 4

Motor Run # : 4

Failure - Y/N :
Trip-Reason For :

Failure Type: a

GPM : 420
Mud Wt. : 8.8
Mud Vis. : 33
Mud Cl. : 25000
Mud Type : Cut Brine

Delta P : 80
Inclination : 87.3
WOB : 35k
BHT : 109
RPM : 89

Directional Hand #1: Justin Mckenzie

MWD Hand #1: Richard Thurman

Directional Hand #2: Robert Williams

MWD Hand #2: Robert Burnham

Comments: a

Bit Grade: 3/3/WT/A/OI/4/ER/PR



Motor Run Report

Job Number 2007131
PDM Company Cavo
Motor O.D. 6 1/2"
Power Section 7/8 4
Serial Number 65019
Customer BASS
Well Name Horned Toad 36 State 2H
Rig Name Adobe Sun Dance
County / State Eddy New Mexico
Location a
Date In 15-Nov
Date Out 24-Nov
Total Days Run 9
Hole Size 8 3/4
Stabilizer Size a
Adj. Bend Set 1.76
Depth In 5654
Depth Out 6632
Footage Drilled 978
ROP 21.61
Drill Hours 45.25
Circulating Hours 84
Total Run Hours 129.25
Rotating Feet 664
Rotating Hours 33.75
Rotating ROP 19.67
Slide Feet 314
Slide Hours 11.50
Slide ROP 27.30

BHA # : 3

Motor Run # : 3

Failure - Y/N : n
Trip-Reason For : Pipe Stuck

Failure Type: a

GPM : 330
Mud Wt. : 8.8
Mud Vis. : 33
Mud Cl. : 25000
Mud Type : Cut Brine

Delta P : 80
Inclination : 88.8
WOB : 35k
BHT : 109
RPM : 89

Directional Hand #1: Justin Mckenzie

MWD Hand #1: Richard Thurman

Directional Hand #2: Robert Williams

MWD Hand #2: Robert Burnham

Comments: a

Bit Grade: _____



Motor Run Report

Job Number 2007131
PDM Company BV
Motor O.D. 6 1/2"
Power Section 7/8 3
Serial Number 65004
Customer BASS
Well Name Horned Toad 36 State 2H
Rig Name Adobe Sun Dance
County / State Eddy New Mexico
Location a
Date In 14-Nov
Date Out 15-Nov
Total Days Run 1
Hole Size 8 3/4
Stabilizer Size a
Adj. Bend Set 3
Depth In 5533
Depth Out 5654
Footage Drilled 121
ROP 12.10
Drill Hours 10.00
Circulating Hours 3.5
Total Run Hours 13.5
Rotating Feet _____
Rotating Hours _____
Rotating ROP #DIV/0!
Slide Feet 121
Slide Hours 10.00
Slide ROP 12.10

BHA # : 2

Motor Run # : 2

Failure - Y/N : n
Trip-Reason For : _____

Failure Type: a

GPM : 330
Mud Wt. : 8.5
Mud Vis. : 33
Mud Cl. : 25000
Mud Type : Cut Brine

Delta P : 80
Inclination : 83
WOB : 35k
BHT : 109
RPM : 89

Directional Hand #1: Justin Mckenzie

MWD Hand #1: Richard Thurman

Directional Hand #2: Robert Williams

MWD Hand #2: Robert Burnham

Comments: a

Bit Grade: 2/5wt/0.0/PDC



Motor Run Report

Job Number 2007131
PDM Company Wenzel
Motor O.D. 6 1/2"
Power Section 7/8 4.0
Serial Number 5410221
Customer BASS
Well Name Horned Toad 36 State 2H
Rig Name Adobe Sun Dance
County / State Eddy New Mexico
Location a
Date In 8-Nov
Date Out 14-Nov
Total Days Run 7
Hole Size 8 3/4
Stabilizer Size a
Adj. Bend Set 3
Depth In 4994
Depth Out 5533
Footage Drilled 539
ROP 13.07
Drill Hours 41.25
Circulating Hours 25.5
Total Run Hours 66.75
Rotating Feet 0
Rotating Hours 0.00
Rotating ROP #DIV/0!
Slide Feet 539
Slide Hours 41.25
Slide ROP 13.07

BHA # : 1

Motor Run # : 1

Failure - Y/N : N
Trip-Reason For : Build Rates

Failure Type: a

GPM : 330
Mud Wt. : 8.5
Mud Vis. : 33
Mud Cl. : 25000
Mud Type : Cut Brine

Delta P : 80
Inclination : 60.8
WOB : 35k
BHT : 109
RPM : a

Directional Hand #1: Justin Mckenzie

MWD Hand #1: Richard Thurman

Directional Hand #2: Robert Williams

MWD Hand #2: Robert Burnham

Comments: a

Bit Grade: 4/2/WT/A/0/4/ER/PR