

Substit 3 Copies To Appropriate District
Office
District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W Grand Ave., 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

Form C-103
May 27, 2004

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

WELL API NO. 30-025-38808	
5. Indicate Type of Lease STATE ☒ FEE ☐	
6. State Oil & Gas Lease No. E-6002	
7. Lease Name or Unit Agreement Name B Lee State	
8. Well Number g	
9. OGRID Number 013837	
10. Pool name or Wildcat Vacuum;Blinebry	

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Mack Energy Corporation

3. Address of Operator
P. O. Box 960 Artesia, NM 88211-0960

4. Well Location
Unit Letter E 1350 feet from the North line and 330 feet from the West line
Section 7 Township 18S Range 35E NMPM County Lea

I 1. Elevation (Show whether DR, RKB, RT, GR, etc.)
3971' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: Completion ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

7/22/2008 Perforated 5,835.5-6,169' 63 holes.

7/23/2008 Acidize w/ 2,000 gals 15% HCL.

7/24/2008 Frac 14,000# Liteprop, 156,000# White sand, 15,000# Siberprob, 99,372 gals 40# gel, 53,718 gals 30# gel.

7/25/2008 RIH w/ 191 jts 2 7/8 tubing, SN @ 6191', 2 1/2x2x24" pump.

RECEIVED

SFP - 2 2008

HOBBS OCD

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Jerry W. Sherrell TITLE Production Clerk DATE 8/28/2008

Type or print name Jerry W. Sherrell E-mail address: jerrys@mackenergycorp.com Telephone No. (505)748-1288
For State Use Only

APPROVED BY: [Signature] TITLE PETROLEUM ENGINEER DATE OCT 01 2008
Conditions of Approval (if any):

Results of Directional Survey

API number:	30-025-38808		
OGRID:		Operator:	MACK ENERGY CORP
		Property:	B LEE STATE # 8

surface	ULSTR:	E	07	T	18S	R	35E
			1350	FNL	330	FWL	

BH Loc	ULSTR:	E	07	T	18S	R	35E
			1656	FNL	351	FWL	

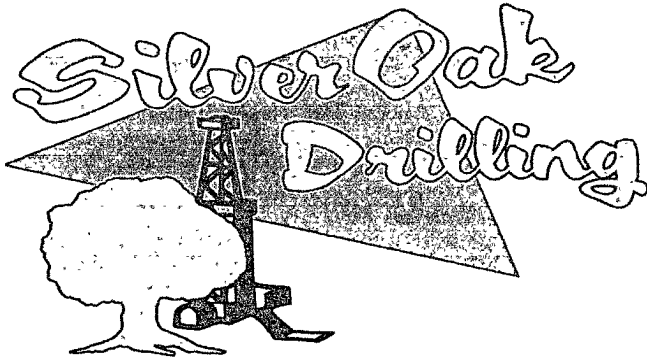
	MD	N/S	E/W	VD
	5783	-303.22	18.06	5757.53
TOP PERFS/OH	5835	-301.94	17.66	5809.51
	5846	-301.67	17.57	5820.50
	6163	-289.90	9.48	6137.12
BOT PERFS/OH	6169	-289.97	9.58	6143.12
	6227	-290.61	10.50	6201.11

NEXT TO LAST	6799	-302.89	18.51	6772.85
LAST READING	6875	-304.40	19.98	6848.81
TD	6931	-305.51	21.06	6904.78

Surface Location	1350	FN	330	FW
Projected BHL	1656	FN	351	FW
Location of				
Top Perfs/OH	1652	FN	348	FW
Bottom Perfs/OH	1640	FN	340	FW

SUMMARY of Subsurface Locations

Surface Location	E-07-18S-35E	1350	FN	330	FW	Vert. Depth
Top Perfs/OH	E-07-18S-35E	1652	FN	348	FW	5809.51
Bottom Perfs/OH	E-07-18S-35E	1640	FN	340	FW	6143.12
Projected TD	E-07-18S-35E	1656	FN	351	FW	6904.78



PO Box 1370
Artesia, NM 88211-1370
(505) 748-1288

July 18, 2008

Mack Energy Corporation
PO Box 960
Artesia, NM 88211-0960

SUR: E-07-18s-35e, 1350/N & 330/W
BHL: E-7-18s-35e, 1656/N & 351/W
API # 30-025-38808

RE: B Lee State #8
1350' FNL & 330' FWL
Sec. 7, T18S, R35E
Lea County, New Mexico

Dear Sir,

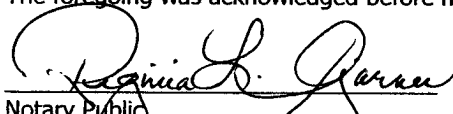
The attached is the Deviation Survey for the above captioned well.

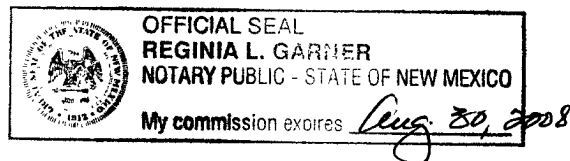
Very truly yours,


Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 18th day of July, 2008.


Notary Public



Date	Depth	Dev/Inc	Dir/AZ	TVD
06/25/2008	342.00		1.00 0.00	
06/26/2008	769.00		1.50 0.00	809.00
06/26/2008	1115.00		0.50 0.00	1155.00
06/27/2008	1403.00		0.50 0.00	1433.00
06/30/2008	1652.00		1.12 356.10	
06/30/2008	1717.00		6.51 310.0	
06/30/2008	1780.00		1.85 206.50	
06/30/2008	1844.00		3.60 186.70	
06/30/2008	1907.00		3.16 184.80	
06/30/2008	2161.00		10.45 161.20	
06/30/2008	2224.00		10.99 160.30	
06/30/2008	2288.00		11.26 164.90	
06/30/2008	2383.00		11.52 167.70	
06/30/2008	2447.00		11.32 166.70	
06/30/2008	2510.00		11.96 169.30	
06/30/2008	2574.00		12.43 178.60	
06/30/2008	2638.00		11.32 166.70	
06/30/2008	2701.00		11.84 19.30	2687.82
06/30/2008	2765.00		11.32 191.30	
06/30/2008	2860.00		10.77 191.90	
06/30/2008	2956.00		10.47 192.40	
07/01/2008	3019.00		9.51 188.40	
07/01/2008	3114.00		8.52 1.49	
07/01/2008	3209.00		8.10 184.60	
07/01/2008	3273.00		7.64 184.60	
07/01/2008	3336.00		7.35 182.50	
07/01/2008	3400.00		6.30 174.60	
07/01/2008	3495.00		5.71 167.10	
07/01/2008	3559.00		5.07 173.10	
07/02/2008	3654.00		4.37 172.90	
07/02/2008	3750.00		3.96 170.70	
07/02/2008	3813.00		3.64 183.60	
07/02/2008	3909.00		3.47 186.80	
07/02/2008	4004.00		3.31 184.70	
07/03/2008	4099.00		3.34 180.70	4155.00
07/03/2008	4163.00		3.26 181.60	4219.00
07/03/2008	4226.00		3.01 181.80	4282.00
07/03/2008	4290.00		3.18 180.50	
07/03/2008	4353.00		3.38 179.30	
07/03/2008	4417.00		3.28 181.40	
07/03/2008	4480.00		2.20 183.00	
07/04/2008	4544.00		1.17 188.90	4600.00
07/04/2008	4607.00		0.61 282.30	4663.00
07/04/2008	4702.00		1.01 317.70	4758.00
07/04/2008	4797.00		1.14 322.50	
07/04/2008	4988.00		1.33 333.00	
07/04/2008	5020.00		1.27 333.40	
07/04/2008	5084.00		0.38 267.60	
07/05/2008	5147.00		0.81 162.60	5203.00
07/05/2008	5243.00		1.41 131.10	5299.00
07/05/2008	5433.00		1.21 125.10	5489.00
07/05/2008	5624.00		1.29 121.10	
07/06/2008	5719.00		1.10 126.20	5775.00
07/06/2008	5783.00		0.69 10.80	5839.00
07/06/2008	5878.00		2.83 334.50	
07/06/2008	5939.00		3.39 324.70	
07/06/2008	6036.00		3.55 322.00	
07/06/2008	6100.00		1.91 332.90	
07/07/2008	6163.00		0.68 117.80	6219.00
07/07/2008	6227.00		1.55 128.30	6283.00
07/08/2008	6322.00		1.29 101.50	6378.00
07/08/2008	6418.00		1.49 95.01	
07/08/2008	6481.00		1.65 132.30	
07/08/2008	6548.00		1.75 173.50	
07/08/2008	6608.00		2.42 185.60	
07/09/2008	6672.00		1.77 177.30	6728.00
07/09/2008	6735.00		1.81 162.10	6791.00
07/09/2008	6799.00		2.45 146.00	
07/09/2008	6875.00		0.88 106.20	

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HOBBS OCD

Mack Energy

Lea County, NM (NAD27 NME)

B Lee State #8

B Lee State #8

OH

SUR: E-07-18s-35e, 1350/N & 330/W
BHL: E-7-18s-35e, 1656/N & 351/W
API # 30-025-38808

Design: Actual

Standard Survey Report

14 July, 2008



Scientific Drilling
Directional Drilling Operations

Scientific Drilling

Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well B Lee State #8
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	KB Elev @ 3988.00ft (Rig Silver Oak #3)
Site:	B Lee State #8	MD Reference:	KB Elev @ 3988.00ft (Rig Silver Oak #3)
Well:	B Lee State #8	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003.16 Single User Db

Project	Lea County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		B Lee State #8			
Site Position:		Northing:	643,336.200 ft	Latitude:	32° 45' 57.158 N
From:	Map	Easting:	755,003.700 ft	Longitude:	103° 30' 13.570 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.45 °

Well	B Lee State #8					
Well Position	+N/-S	0.00 ft	Northing:	643,336.200 ft	Latitude:	32° 45' 57.158 N
	+E/-W	0.00 ft	Easting:	755,003.700 ft	Longitude:	103° 30' 13.570 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	3,988.00 ft	Ground Level:	3,971.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	7/14/2008	7.93	60.79	49,264

Design	Actual			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	177.48

Survey Program	Date	7/14/2008			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	1,590.00	Keeper gyro (OH)	Keeper	Standard Wireline Keeper ver 1.0.2	
1,652.00	6,931.00	MWD (OH)	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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.70	18.23	100.00	0.58	0.19	-0.57	0.70	0.70	0.00	
200.00	0.68	21.48	199.99	1.71	0.60	-1.68	0.04	-0.02	3.25	
300.00	0.76	27.10	299.98	2.86	1.12	-2.80	0.11	0.08	5.62	
400.00	0.74	30.13	399.97	4.00	1.75	-3.92	0.04	-0.02	3.03	
500.00	0.66	26.25	499.97	5.08	2.32	-4.97	0.09	-0.08	-3.88	
600.00	0.65	19.94	599.96	6.13	2.77	-6.00	0.07	-0.01	-6.31	
700.00	0.74	22.06	699.95	7.26	3.21	-7.11	0.09	0.09	2.12	
800.00	0.74	16.60	799.94	8.48	3.64	-8.31	0.07	0.00	-5.46	
900.00	0.87	16.86	899.93	9.82	4.04	-9.64	0.13	0.13	0.26	
1,000.00	0.67	9.91	999.93	11.13	4.36	-10.92	0.22	-0.20	-6.95	
1,100.00	0.87	8.27	1,099.92	12.45	4.57	-12.24	0.20	0.20	-1.64	

Scientific Drilling

Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well B Lee State #8
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	KB Elev @ 3988.00ft (Rig Silver Oak #3)
Site:	B Lee State #8	MD Reference:	KB Elev @ 3988.00ft (Rig Silver Oak #3)
Well:	B Lee State #8	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003.16 Single User 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)
1,200.00	0.74	13.82	1,199.91	13.83	4.83	-13.61	0.15	-0.13	5.55
1,300.00	0.80	23.15	1,299.90	15.10	5.26	-14.85	0.14	0.06	9.33
1,400.00	1.17	2.76	1,399.88	16.76	5.59	-16.50	0.50	0.37	-20.39
1,500.00	1.36	355.66	1,499.86	18.97	5.55	-18.70	0.25	0.19	-7.10
1,590.00	1.38	357.03	1,589.83	21.11	5.41	-20.85	0.04	0.02	1.52
Last gyro survey									
1,652.00	1.12	356.10	1,651.82	22.46	5.33	-22.21	0.42	-0.42	-1.50
1,717.00	0.51	310.00	1,716.81	23.28	5.06	-23.04	1.31	-0.94	-70.92
1,780.00	1.85	206.50	1,779.80	22.55	4.40	-22.34	3.22	2.13	-164.29
1,844.00	3.60	186.70	1,843.73	19.63	3.70	-19.45	3.07	2.73	-30.94
1,907.00	3.16	184.80	1,906.62	15.94	3.32	-15.78	0.72	-0.70	-3.02
1,971.00	3.03	163.70	1,970.53	12.56	3.65	-12.38	1.78	-0.20	-32.97
2,034.00	5.73	164.30	2,033.34	7.93	4.97	-7.70	4.29	4.29	0.95
2,098.00	9.26	159.80	2,096.78	0.02	7.61	0.32	5.59	5.52	-7.03
2,161.00	10.45	161.20	2,158.85	-10.15	11.20	10.63	1.93	1.89	2.22
2,224.00	10.99	160.30	2,220.75	-21.21	15.07	21.85	0.90	0.86	-1.43
2,288.00	11.26	164.90	2,283.55	-32.99	18.75	33.78	1.45	0.42	7.19
2,383.00	11.52	167.70	2,376.68	-51.21	23.19	52.18	0.64	0.27	2.95
2,447.00	11.32	166.70	2,439.41	-63.57	26.00	64.65	0.44	-0.31	-1.56
2,510.00	11.96	169.30	2,501.11	-76.00	28.63	77.18	1.31	1.02	4.13
2,574.00	12.43	178.40	2,563.68	-89.40	30.06	90.64	3.09	0.73	14.22
2,637.00	12.23	188.70	2,625.23	-102.78	29.24	103.96	3.50	-0.32	16.35
2,701.00	11.84	193.00	2,687.83	-115.87	26.73	116.94	1.53	-0.61	6.72
2,765.00	11.32	191.30	2,750.52	-128.43	24.03	129.36	0.97	-0.81	-2.66
2,860.00	10.77	191.90	2,843.76	-146.26	20.37	147.01	0.59	-0.58	0.63
2,956.00	10.47	192.40	2,938.12	-163.56	16.65	164.13	0.33	-0.31	0.52
3,019.00	9.51	188.40	3,000.16	-174.30	14.66	174.77	1.88	-1.52	-6.35
3,114.00	8.52	184.90	3,093.99	-189.07	12.91	189.46	1.19	-1.04	-3.68
3,209.00	8.10	184.60	3,187.99	-202.75	11.77	203.08	0.44	-0.44	-0.32
3,273.00	7.67	184.60	3,251.39	-211.51	11.07	211.79	0.67	-0.67	0.00
3,336.00	7.35	182.50	3,313.85	-219.72	10.55	219.97	0.67	-0.51	-3.33
3,400.00	6.30	174.60	3,377.39	-227.31	10.71	227.56	2.20	-1.64	-12.34
3,495.00	5.71	167.10	3,471.87	-237.11	12.25	237.41	1.03	-0.62	-7.89
3,559.00	5.07	173.10	3,535.59	-243.02	13.30	243.37	1.33	-1.00	9.37
3,654.00	4.37	172.90	3,630.27	-250.78	14.25	251.16	0.74	-0.74	-0.21
3,750.00	3.96	170.70	3,726.01	-257.68	15.24	258.10	0.46	-0.43	-2.29
3,813.00	3.64	183.60	3,788.88	-261.82	15.47	262.25	1.45	-0.51	20.48
3,909.00	3.47	186.80	3,884.69	-267.74	14.93	268.14	0.27	-0.18	3.33
4,004.00	3.31	184.70	3,979.52	-273.33	14.37	273.70	0.21	-0.17	-2.21
4,099.00	3.34	180.70	4,074.37	-278.83	14.11	279.18	0.25	0.03	-4.21
4,163.00	3.26	181.60	4,138.26	-282.52	14.03	282.86	0.15	-0.12	1.41
4,226.00	3.01	181.80	4,201.16	-285.96	13.93	286.30	0.40	-0.40	0.32
4,290.00	3.18	180.50	4,265.07	-289.42	13.86	289.74	0.29	0.27	-2.03
4,353.00	3.38	179.30	4,327.97	-293.02	13.87	293.35	0.34	0.32	-1.90
4,417.00	3.28	181.40	4,391.86	-296.74	13.85	297.06	0.25	-0.16	3.28
4,480.00	2.20	183.00	4,454.79	-299.75	13.74	300.06	1.72	-1.71	2.54
4,544.00	1.17	188.90	4,518.76	-301.62	13.58	301.92	1.63	-1.61	9.22
4,607.00	0.61	282.30	4,581.75	-302.18	13.15	302.47	2.14	-0.89	148.25
4,702.00	1.01	317.70	4,676.74	-301.46	12.09	301.70	0.66	0.42	37.26
4,797.00	1.14	322.50	4,771.73	-300.09	10.95	300.28	0.17	0.14	5.05
4,988.00	1.33	333.00	4,962.68	-296.60	8.79	296.70	0.15	0.10	5.50
5,020.00	1.27	333.40	4,994.67	-295.96	8.46	296.04	0.19	-0.19	1.25
5,084.00	0.38	267.60	5,058.67	-295.33	7.93	295.39	1.82	-1.39	-102.81
5,147.00	0.81	162.60	5,121.67	-295.76	7.86	295.82	1.56	0.68	-166.67

Scientific Drilling

Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well B Lee State #8
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	KB Elev @ 3988.00ft (Rig Silver Oak #3)
Site:	B Lee State #8	MD Reference:	KB Elev @ 3988.00ft (Rig Silver Oak #3)
Well:	B Lee State #8	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003.16 Single User 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)	
5,243.00	1.41	131.10	5,217.65	-297.19	8.95	297.29	0.87	0.62	-32.81	
5,433.00	1.21	125.10	5,407.60	-299.88	12.35	300.13	0.13	-0.11	-3.16	
5,624.00	1.29	121.10	5,598.55	-302.15	15.84	302.55	0.06	0.04	-2.09	
5,719.00	1.10	126.20	5,693.53	-303.24	17.50	303.72	0.23	-0.20	5.37	
5,783.00	0.69	10.80	5,757.53	-303.22	18.06	303.72	2.39	-0.64	-180.31	
5,846.00	2.38	334.50	5,820.50	-301.67	17.57	302.15	2.97	2.68	-57.62	
5,939.00	3.39	324.70	5,913.39	-297.68	15.15	298.06	1.20	1.09	-10.54	
6,036.00	3.55	322.00	6,010.21	-292.98	11.65	293.20	0.24	0.16	-2.78	
6,100.00	1.91	322.90	6,074.13	-290.56	9.78	290.71	2.56	-2.56	1.41	
6,163.00	0.68	117.80	6,137.12	-289.90	9.48	290.04	4.04	-1.95	245.87	
6,227.00	1.55	128.30	6,201.11	-290.61	10.50	290.79	1.39	1.36	16.41	
6,322.00	1.29	101.50	6,296.08	-291.62	12.55	291.89	0.74	-0.27	-28.21	
6,418.00	1.49	95.01	6,392.05	-291.95	14.85	292.32	0.26	0.21	-6.76	
6,481.00	1.65	132.50	6,455.03	-292.63	16.34	293.07	1.62	0.25	59.51	
6,548.00	1.75	173.50	6,522.01	-294.30	17.17	294.77	1.78	0.15	61.19	
6,608.00	2.42	185.60	6,581.97	-296.47	17.15	296.94	1.33	1.12	20.17	
6,672.00	1.77	177.30	6,645.92	-298.80	17.06	299.26	1.12	-1.02	-12.97	
6,735.00	1.88	162.10	6,708.89	-300.76	17.42	301.23	0.79	0.17	-24.13	
6,799.00	2.45	146.00	6,772.85	-302.89	18.51	303.41	1.29	0.89	-25.16	
6,875.00	0.88	106.00	6,848.81	-304.40	19.98	304.98	2.45	-2.07	-52.63	
MWD Survey										
6,931.00	0.88	106.00	6,904.81	-304.64	20.81	305.26	0.00	0.00	0.00	
Projection to bit										

Scientific Drilling

Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well B Lee State #8
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	KB Elev @ 3988.00ft (Rig Silver Oak #3)
Site:	B Lee State #8	MD Reference:	KB Elev @ 3988.00ft (Rig Silver Oak #3)
Well:	B Lee State #8	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003.16 Single User Db

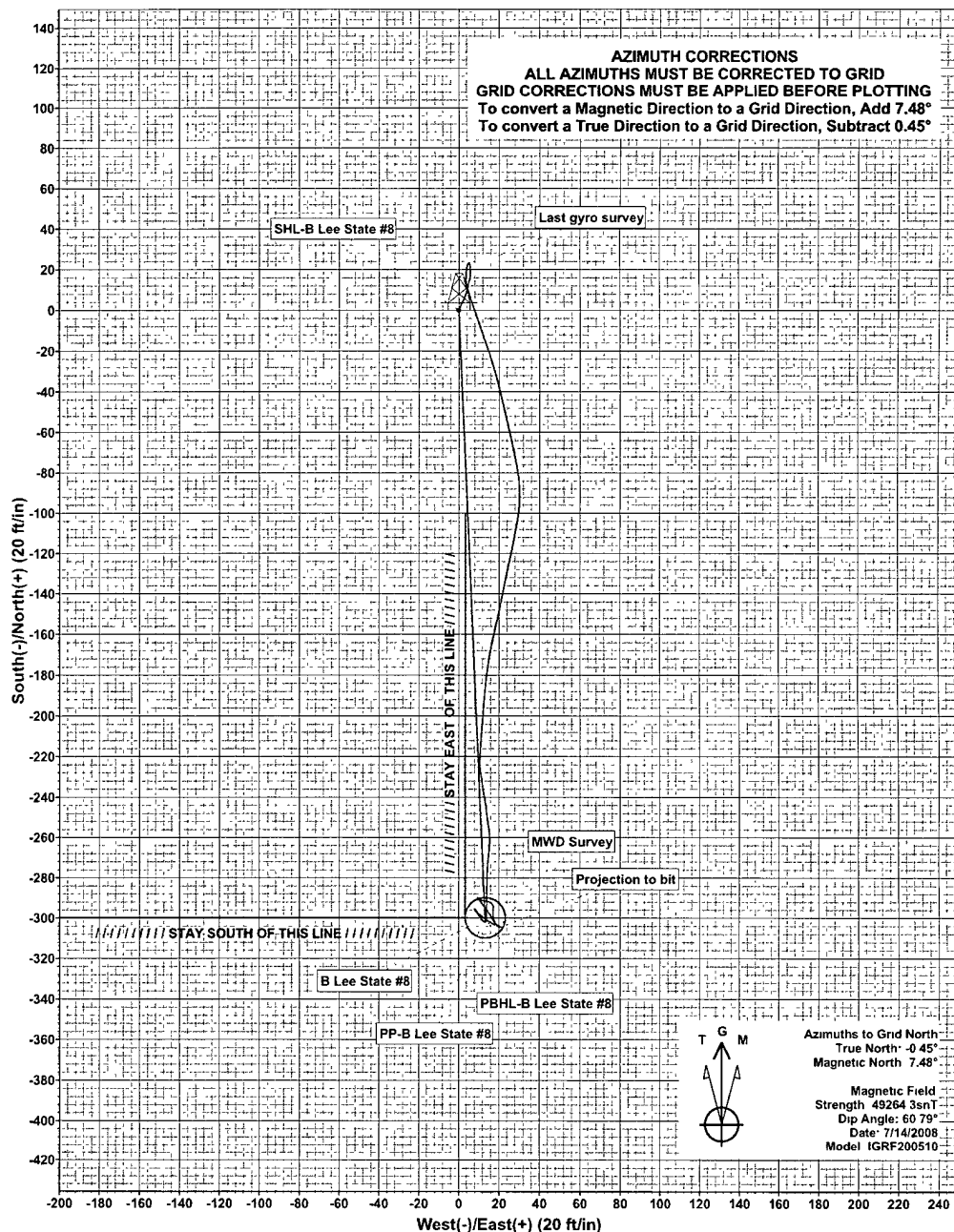
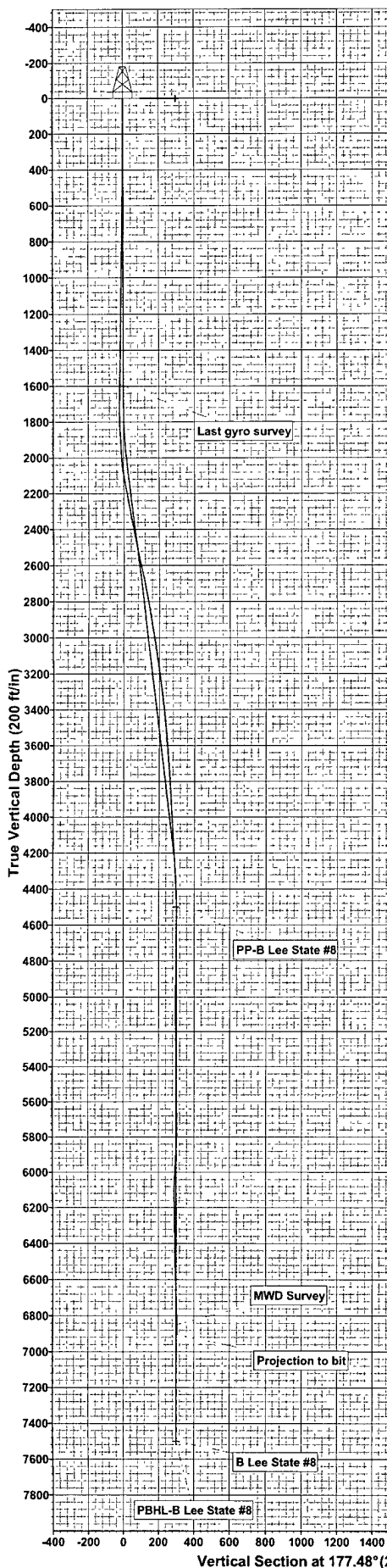
Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
PBHL-B Lee State #8	0.00	0.00	7,500.00	-299.90	13.20	643,036.300	755,016.900	32° 45' 54.189 N	103° 30' 13.443 W
- actual wellpath misses by 595.26ft at 6931.00ft MD (6904.81 TVD, -304.64 N, 20.81 E)									
- Circle (radius 10.00)									
HLN-B Lee State #8	0.00	0.00	0.00	-299.90	3.20	643,036.300	755,006.900	32° 45' 54.190 N	103° 30' 13.560 W
- actual wellpath misses by 299.92ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Rectangle (sides W0.00 H500.00 D0.00)									
HLW-B Lee State #8	0.00	0.00	0.00	-299.90	3.20	643,036.300	755,006.900	32° 45' 54.190 N	103° 30' 13.560 W
- actual wellpath misses by 299.92ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Rectangle (sides W200.00 H0.00 D0.00)									
PP-B Lee State #8	0.00	0.00	4,500.00	-299.90	13.20	643,036.300	755,016.900	32° 45' 54.189 N	103° 30' 13.443 W
- actual wellpath misses by 1.36ft at 4525.20ft MD (4499.96 TVD, -301.19 N, 13.63 E)									
- Point									

Design Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
1,590.00	1,589.83	21.11	5.41	Last gyro survey
6,875.00	6,848.81	-304.40	19.98	MWD Survey
6,931.00	6,904.81	-304.64	20.81	Projection to bit

Checked By: _____ Approved By: _____ Date: _____

Mack Energy

Scientific Drilling for Mack Energy
Site: Lea County, NM (NAD27 NME)
Well: B Lee State #8
Wellbore: OH
Design: Plan #1 vs Actual - 7 7/8" Hole



WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	North	Easting	Latitude	Longitude	Shape
HLN-B Lee State #8	0.00	-299.90	3.20	643036.300	755006.900	32°45' 54.190 N	103°30' 13.560 W	Rectangle (Sides : L0.00 W500.00)
HLW-B Lee State #8	0.00	-299.90	3.20	643036.300	755006.900	32°45' 54.190 N	103°30' 13.560 W	Rectangle (Sides : L200.00 W0.00)
PP-B Lee State #8	4500.00	-299.90	13.20	643036.300	755016.900	32°45' 54.189 N	103°30' 13.443 W	Point
PBHL-B Lee State #8	7500.00	-299.90	13.20	643036.300	755016.900	32°45' 54.189 N	103°30' 13.443 W	Circle (Radius 10.00)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Target
2	1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	
3	2049.22	6.98	177.48	2048.36	-21.24	0.93	2.00	177.48	21.26	
4	4168.23	6.98	177.48	4151.64	-278.66	12.27	0.00	0.00	278.93	
5	4517.45	0.00	0.00	4500.00	-299.90	13.20	2.00	180.00	300.19	PP-B Lee State #8
6	7517.45	0.00	0.00	7500.00	-299.90	13.20	0.00	0.00	300.19	PBHL-B Lee State #8

WELL DETAILS: B Lee State #8

+N/-S	+E/-W	North	Ground Level:	Latitude	Longitude	Slot
0.00	0.00	643336.200	3971.00	32°45' 57.158 N	103°30' 13.570 W	

PROJECT DETAILS: Lea County, NM (NAD27 NME)

Plan. Plan #1 - 7 7/8" Hole (B Lee State #8/OH)

Geodetic System.	US State Plane 1927 (Exact solution)	Created By:	Julio Pina	Date:	14-Jul-08
Datum	NAD 1927 (NADCON CONUS)	Checked:		Date:	
Ellipsoid.	Clarke 1866	Reviewed:		Date:	
Zone	New Mexico East 3001	Approved:		Date:	
System Datum.	Mean Sea Level				