

State of New Mexico

DISTRICT I

1225 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-34165	Pool Code 96627	Pool Name Wildcat Abo Gas
Property Code	Property Name BRAZOS STATE	Well Number 1
OGRID No. 013837	Operator Name MACK ENERGY CORPORATION	Elevation 3855'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	18	18-S	24-E		660	NORTH	660	WEST	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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
319.28			

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 the the information contained herein is true and complete to the best of my knowledge and belief. Signature Jerry W. Sherrell Printed Name Production Clerk Title 6/17/2005 Date
	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. JUNE 6, 2005 Date Surveyed Signature & Seal of Professional Surveyor Certificate No. GARY EDSON 12641

Scientific Drilling Planning Report

Company: Mack Energy
Field: Section 1B Brazos
Site: Eddy County, NM
Well: Brazos State #1
Wellpath: Lateral

Date: 2005-06-16 Time: 11:43:15 Page: 1
Co-ordinate(NE) Reference: Well: Brazos State #1, Grid North
Vertical (TYD) Reference: GL 3855+16 3871.0
Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)
Plan: Plan #1

Field: Section 1B Brazos
Section 1B T18S R24E
United States of America

Map System:US State Plane Coordinate System 1927

Geo Datum: NAD27 (Clarke 1866)

Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone

Coordinate System: Well Centre

Geomagnetic Model:

Site: Eddy County, NM

Site Position:	Northing:	637953.36 ft	Latitude:	32 45 12.480 N
From: Geographic	Easting:	407554.71 ft	Longitude:	104 38 2.520 W
Position Uncertainty:	0.00 ft		North Reference:	Grid
Ground Level:	0.00 ft		Grid Convergence:	-0.16 deg

Well: Brazos State #1

Slot Name:

Well Position:	+N/-S	0.00 ft	Northing:	637953.36 ft	Latitude:	32	45	12.480 N
	+E/-W	0.00 ft	Easting :	407554.71 ft	Longitude:	104	38	2.520 W
Position Uncertainty:		0.00 ft						

Wellpath: Lateral

Drilled From: Surface

Current Datum:	GL 3855+16	Height	3871.00 ft	Above System Datum:	Mean Sea Level
Magnetic Data:	2005-06-16			Declination:	8.81 deg
Field Strength:	49448 nT			Mag Dip Angle:	60.63 deg
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	ft	ft		deg	

0.00 0.00 0.00 180.00

Plan: Plan #1

Date Composed: 2005-06-16

Principal: Yes

Version: 1
Tied-to: From Surface

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4730.00	0.00	0.00	4730.00	0.00	0.00	0.00	0.00	0.00	0.00	
5036.31	90.00	180.00	4925.00	-195.00	0.00	29.38	29.38	0.00	180.00	
5054.52	92.91	180.00	4924.54	-213.20	0.00	16.00	16.00	0.00	0.00	
5832.32	92.91	180.00	4885.00	-990.00	0.00	0.00	0.00	0.00	0.00	TGT1
5871.16	86.70	180.00	4885.13	-1028.83	0.00	16.00	-16.00	0.00	180.00	
6823.92	86.70	180.00	4940.00	-1980.00	0.00	0.00	0.00	0.00	0.00	TGT2
6859.66	92.42	180.00	4940.28	-2015.72	0.00	16.00	16.00	0.00	0.00	
7814.78	92.42	180.00	4900.00	-2970.00	0.00	0.00	0.00	0.00	0.00	TGT3
7852.27	86.42	180.00	4900.38	-3007.47	0.00	16.00	-16.00	0.00	180.00	
8806.67	86.42	180.00	4960.00	-3960.00	0.00	0.00	0.00	0.00	0.00	BHL

Section 1 : Start Hold

[illegible]



Scientific Drilling Planning Report

Company: Mack Energy
Field: Section 1B Brazos
Site: Eddy County, NM
Well: Brazos State #1
Wellpath: Lateral

Date: 2005-06-16 Time: 11:43:15 Page: 2
Co-ordinate(NE) Reference: Well: Brazos State #1, Grid North
Vertical (TVD) Reference: GL 3855+16 3871.0
Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)
Plan: Plan #1

Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4730.00	0.00	0.00	4730.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Section 2 : Start Build 29.38

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4740.00	2.94	180.00	4740.00	-0.26	0.00	0.26	29.38	29.38	0.00	0.00
4750.00	5.88	180.00	4749.96	-1.02	0.00	1.02	29.38	29.38	0.00	0.00
4760.00	8.81	180.00	4759.88	-2.30	0.00	2.30	29.38	29.38	0.00	0.00
4770.00	11.75	180.00	4769.72	-4.09	0.00	4.09	29.38	29.38	0.00	0.00
4780.00	14.69	180.00	4779.45	-6.38	0.00	6.38	29.38	29.38	0.00	0.00
4790.00	17.63	180.00	4789.06	-9.16	0.00	9.16	29.38	29.38	0.00	0.00
4800.00	20.57	180.00	4798.51	-12.43	0.00	12.43	29.38	29.38	0.00	0.00
4810.00	23.51	180.00	4807.77	-16.18	0.00	16.18	29.38	29.38	0.00	0.00
4820.00	26.44	180.00	4816.84	-20.40	0.00	20.40	29.38	29.38	0.00	0.00
4830.00	29.38	180.00	4825.67	-25.08	0.00	25.08	29.38	29.38	0.00	0.00
4840.00	32.32	180.00	4834.26	-30.21	0.00	30.21	29.38	29.38	0.00	0.00
4850.00	35.26	180.00	4842.57	-35.77	0.00	35.77	29.38	29.38	0.00	0.00
4860.00	38.20	180.00	4850.58	-41.75	0.00	41.75	29.38	29.38	0.00	0.00
4870.00	41.14	180.00	4858.28	-48.13	0.00	48.13	29.38	29.38	0.00	0.00
4880.00	44.07	180.00	4865.64	-54.90	0.00	54.90	29.38	29.38	0.00	0.00
4890.00	47.01	180.00	4872.64	-62.04	0.00	62.04	29.38	29.38	0.00	0.00
4900.00	49.95	180.00	4879.27	-69.53	0.00	69.53	29.38	29.38	0.00	0.00
4910.00	52.89	180.00	4885.51	-77.34	0.00	77.34	29.38	29.38	0.00	0.00
4920.00	55.83	180.00	4891.33	-85.47	0.00	85.47	29.38	29.38	0.00	0.00
4930.00	58.76	180.00	4896.73	-93.88	0.00	93.88	29.38	29.38	0.00	0.00
4940.00	61.70	180.00	4901.70	-102.56	0.00	102.56	29.38	29.38	0.00	0.00
4950.00	64.64	180.00	4906.21	-111.48	0.00	111.48	29.38	29.38	0.00	0.00
4960.00	67.58	180.00	4910.26	-120.63	0.00	120.63	29.38	29.38	0.00	0.00



Scientific Drilling Planning Report

Company: Mack Energy
Field: Section 1B Brazos
Site: Eddy County, NM
Well: Brazos State #1
Wellpath: Lateral

Date: 2005-06-16 Time: 11:43:15 Page: 3
Co-ordinate(NE) Reference: Well: Brazos State #1, Grid North
Vertical (TVD) Reference: GL 3855+16 3871.0
Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)
Plan: Plan #1

Section 2 : Start Build 29.38

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4970.00	70.52	180.00	4913.84	-129.97	0.00	129.97	29.38	29.38	0.00	0.00
4980.00	73.46	180.00	4916.93	-139.47	0.00	139.47	29.38	29.38	0.00	0.00
4990.00	76.39	180.00	4919.53	-149.13	0.00	149.13	29.38	29.38	0.00	0.00
5000.00	79.33	180.00	4921.63	-158.90	0.00	158.90	29.38	29.38	0.00	0.00
5010.00	82.27	180.00	4923.23	-168.77	0.00	168.77	29.38	29.38	0.00	0.00
5020.00	85.21	180.00	4924.32	-178.71	0.00	178.71	29.38	29.38	0.00	0.00
5030.00	88.15	180.00	4924.90	-188.70	0.00	188.70	29.38	29.38	0.00	0.00
5036.31	90.00	180.00	4925.00	-195.00	0.00	195.00	29.38	29.38	0.00	0.00

Section 3 : Start DLS 16.00 TFO 0.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5050.00	92.19	180.00	4924.74	-208.69	0.00	208.69	16.00	16.00	0.00	0.00
5054.52	92.91	180.00	4924.54	-213.20	0.00	213.20	16.00	16.00	0.00	0.00

Section 4 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5100.00	92.91	180.00	4922.23	-258.63	0.00	258.63	0.00	0.00	0.00	0.00
5200.00	92.91	180.00	4917.14	-358.50	0.00	358.50	0.00	0.00	0.00	0.00
5300.00	92.91	180.00	4912.06	-458.37	0.00	458.37	0.00	0.00	0.00	0.00
5400.00	92.91	180.00	4906.98	-558.24	0.00	558.24	0.00	0.00	0.00	0.00
5500.00	92.91	180.00	4901.89	-658.11	0.00	658.11	0.00	0.00	0.00	0.00
5600.00	92.91	180.00	4896.81	-757.98	0.00	757.98	0.00	0.00	0.00	0.00
5700.00	92.91	180.00	4891.73	-857.85	0.00	857.85	0.00	0.00	0.00	0.00
5800.00	92.91	180.00	4886.64	-957.72	0.00	957.72	0.00	0.00	0.00	0.00
5832.32	92.91	180.00	4885.00	-990.00	0.00	990.00	0.00	0.00	0.00	0.00

Section 5 : Start DLS 16.00 TFO 180.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5850.00	90.08	180.00	4884.54	-1007.67	0.00	1007.67	16.00	-16.00	0.00	180.00
5871.16	86.70	180.00	4885.13	-1028.83	0.00	1028.83	16.00	-16.00	0.00	180.00

Section 6 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5900.00	86.70	180.00	4886.79	-1057.61	0.00	1057.61	0.00	0.00	0.00	0.00
6000.00	86.70	180.00	4892.55	-1157.45	0.00	1157.45	0.00	0.00	0.00	0.00
6100.00	86.70	180.00	4898.31	-1257.28	0.00	1257.28	0.00	0.00	0.00	0.00
6200.00	86.70	180.00	4904.07	-1357.12	0.00	1357.12	0.00	0.00	0.00	0.00
6300.00	86.70	180.00	4909.83	-1456.95	0.00	1456.95	0.00	0.00	0.00	0.00
6400.00	86.70	180.00	4915.59	-1556.78	0.00	1556.78	0.00	0.00	0.00	0.00
6500.00	86.70	180.00	4921.35	-1656.62	0.00	1656.62	0.00	0.00	0.00	0.00
6600.00	86.70	180.00	4927.10	-1756.45	0.00	1756.45	0.00	0.00	0.00	0.00
6700.00	86.70	180.00	4932.86	-1856.29	0.00	1856.29	0.00	0.00	0.00	0.00
6800.00	86.70	180.00	4938.62	-1956.12	0.00	1956.12	0.00	0.00	0.00	0.00
6823.92	86.70	180.00	4940.00	-1980.00	0.00	1980.00	0.00	0.00	0.00	0.00

Section 7 : Start DLS 16.00 TFO 0.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
6825.00	86.87	180.00	4940.06	-1981.08	0.00	1981.08	16.00	16.00	0.00	0.00
6850.00	90.87	180.00	4940.55	-2006.07	0.00	2006.07	16.00	16.00	0.00	0.00
6859.66	92.42	180.00	4940.28	-2015.72	0.00	2015.72	16.00	16.00	0.00	0.00



Scientific Drilling Planning Report

Company: Mack Energy
Field: Section 1B Brazos
Site: Eddy County, NM
Well: Brazos State #1
Wellpath: Lateral

Date: 2005-06-16 Time: 11:43:15 Page: 4
Co-ordinate(NE) Reference: Well: Brazos State #1, Grid North
Vertical (TVD) Reference: GL 3855+16 3871.0
Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)
Plan: Plan #1

Section 8 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
6900.00	92.42	180.00	4938.57	-2056.03	0.00	2056.03	0.00	0.00	0.00	0.00
7000.00	92.42	180.00	4934.36	-2155.94	0.00	2155.94	0.00	0.00	0.00	0.00
7100.00	92.42	180.00	4930.14	-2255.85	0.00	2255.85	0.00	0.00	0.00	0.00
7200.00	92.42	180.00	4925.92	-2355.76	0.00	2355.76	0.00	0.00	0.00	0.00
7300.00	92.42	180.00	4921.71	-2455.67	0.00	2455.67	0.00	0.00	0.00	0.00
7400.00	92.42	180.00	4917.49	-2555.58	0.00	2555.58	0.00	0.00	0.00	0.00
7500.00	92.42	180.00	4913.27	-2655.50	0.00	2655.50	0.00	0.00	0.00	0.00
7600.00	92.42	180.00	4909.06	-2755.41	0.00	2755.41	0.00	0.00	0.00	0.00
7700.00	92.42	180.00	4904.84	-2855.32	0.00	2855.32	0.00	0.00	0.00	0.00
7800.00	92.42	180.00	4900.62	-2955.23	0.00	2955.23	0.00	0.00	0.00	0.00
7814.78	92.42	180.00	4900.00	-2970.00	0.00	2970.00	0.00	0.00	0.00	0.00

Section 9 : Start DLS 16.00 TFO 180.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
7825.00	90.78	180.00	4899.71	-2980.21	0.00	2980.21	16.00	-16.00	0.00	180.00
7852.27	86.42	180.00	4900.38	-3007.47	0.00	3007.47	16.00	-16.00	0.00	180.00

Section 10 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
7900.00	86.42	180.00	4903.36	-3055.10	0.00	3055.10	0.00	0.00	0.00	0.00
8000.00	86.42	180.00	4909.61	-3154.91	0.00	3154.91	0.00	0.00	0.00	0.00
8100.00	86.42	180.00	4915.86	-3254.71	0.00	3254.71	0.00	0.00	0.00	0.00
8200.00	86.42	180.00	4922.10	-3354.52	0.00	3354.52	0.00	0.00	0.00	0.00
8300.00	86.42	180.00	4928.35	-3454.32	0.00	3454.32	0.00	0.00	0.00	0.00
8400.00	86.42	180.00	4934.60	-3554.13	0.00	3554.13	0.00	0.00	0.00	0.00
8500.00	86.42	180.00	4940.84	-3653.93	0.00	3653.93	0.00	0.00	0.00	0.00
8600.00	86.42	180.00	4947.09	-3753.74	0.00	3753.74	0.00	0.00	0.00	0.00
8700.00	86.42	180.00	4953.34	-3853.54	0.00	3853.54	0.00	0.00	0.00	0.00
8806.67	86.42	180.00	4960.00	-3960.00	0.00	3960.00	0.00	0.00	0.00	0.00