

State of New Mexico

DISTRICT I
1025 N. FRENCH DR., HOBBES, 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 30-015-34620		Pool Code	Pool Name Wolfcamp
Property Code	Property Name RED RIVER FEE		Well Number 1
OGRID No. 013837	Operator Name MACK ENERGY CORPORATION		Elevation 3788'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	18-S	24-E		660	SOUTH	660	EAST	EDDY

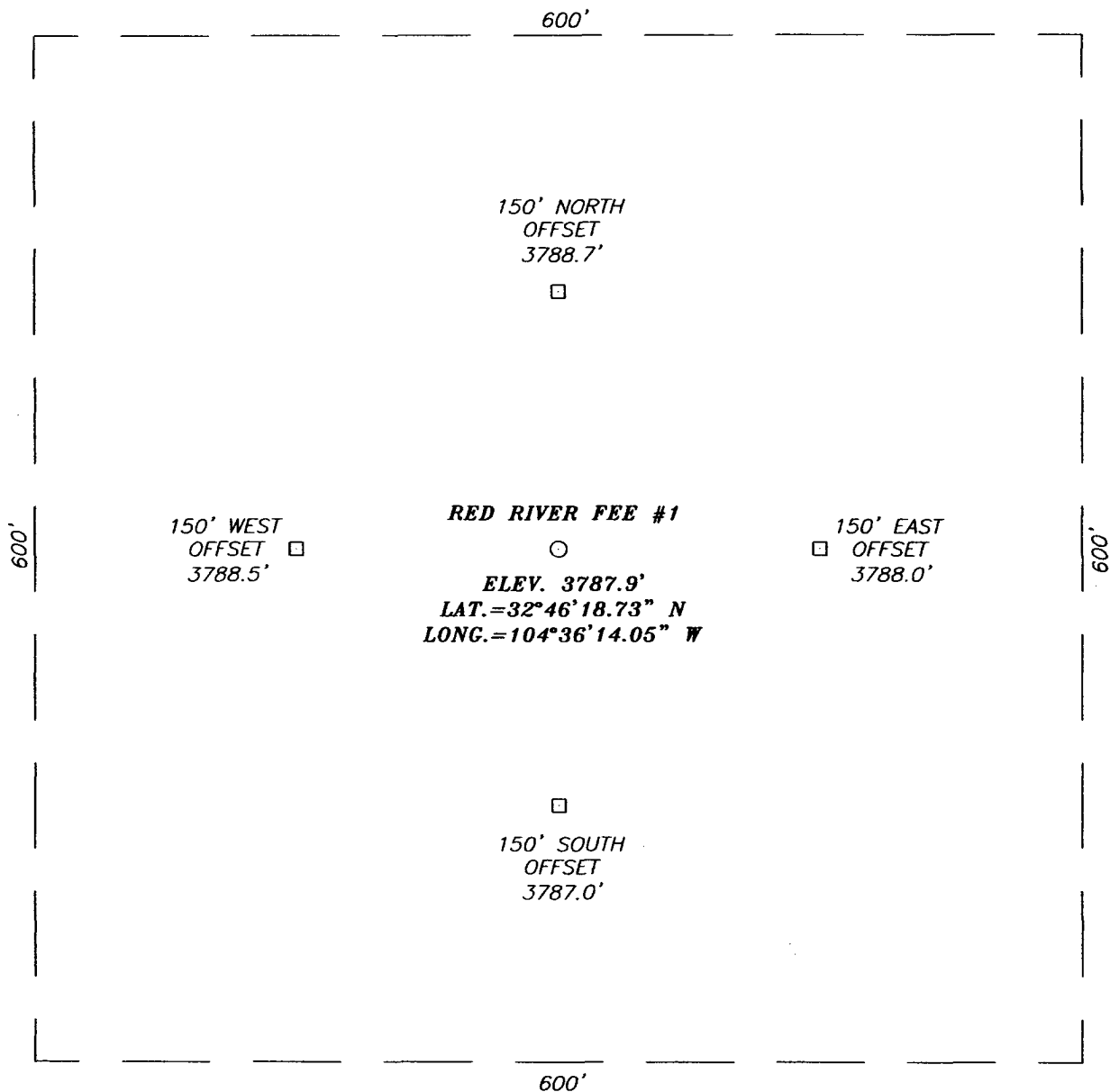
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	5	18S	24E		660	North	660	East	Eddy
Dedicated Acres 319.69	Joint or Infill	Consolidation Code	Order No.						

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

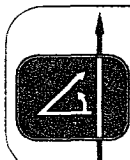
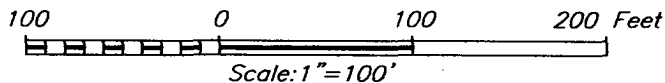
	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Jerry W. Sherrell</i> Signature Jerry W. Sherrell Printed Name Production Clerk Title 2/14/2006 Date SURVEYOR CERTIFICATION I hereby certify that the well location 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. JANUARY 16, 2006 Date Surveyed JR Signature & Seal of Professional Surveyor <i>Gary Edson</i> GARY EDSON 06.11.0101 Certificate No. GARY EDSON 12641
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SECTION 5, TOWNSHIP 18 SOUTH, RANGE 24 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #285 AND CO. RD. #39 (FOUR DINKUS RD.-APPROX. 5.0 MILES SOUTH OF ARTESIA) GO WEST ON CO. RD. #39 FOR APPROX. 12.9 MILES. TURN RIGHT (NORTH) ON TRAIL ROAD AND GO APPROX. 1.7 MILES TO AN INTERSECTION. TURN RIGHT (EAST) AND GO APPROX. 1.2 MILES. THIS LOCATION IS APPROX. 995' SOUTH OF TRAIL ROAD.



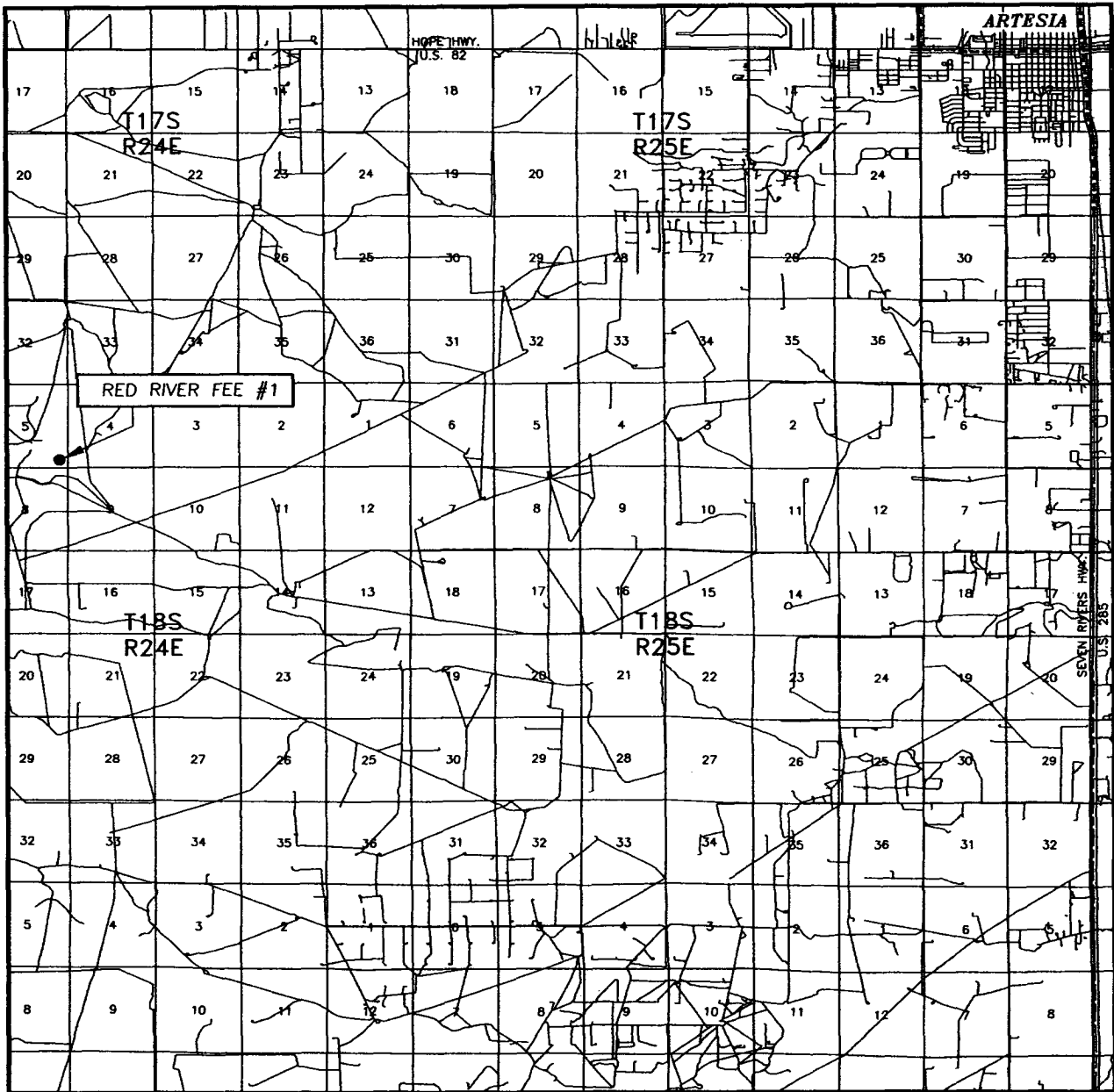
PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 393-3117

MACK ENERGY CORPORATION

RED RIVER FEE #1 WELL
 LOCATED 660 FEET FROM THE SOUTH LINE
 AND 660 FEET FROM THE EAST LINE OF SECTION 5,
 TOWNSHIP 18 SOUTH, RANGE 24 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 1/16/06	Sheet 1 of 1 Sheets
W.O. Number: 06.11.0101	Dr By: J.R. Rev 1:N/A
Date: 1/19/06	Disk: CD#6 06110101 Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 5 TWP. 18-S RGE. 24-E

SURVEY N.M.P.M.

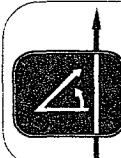
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 660' FSL & 660' FEL

ELEVATION 3788'

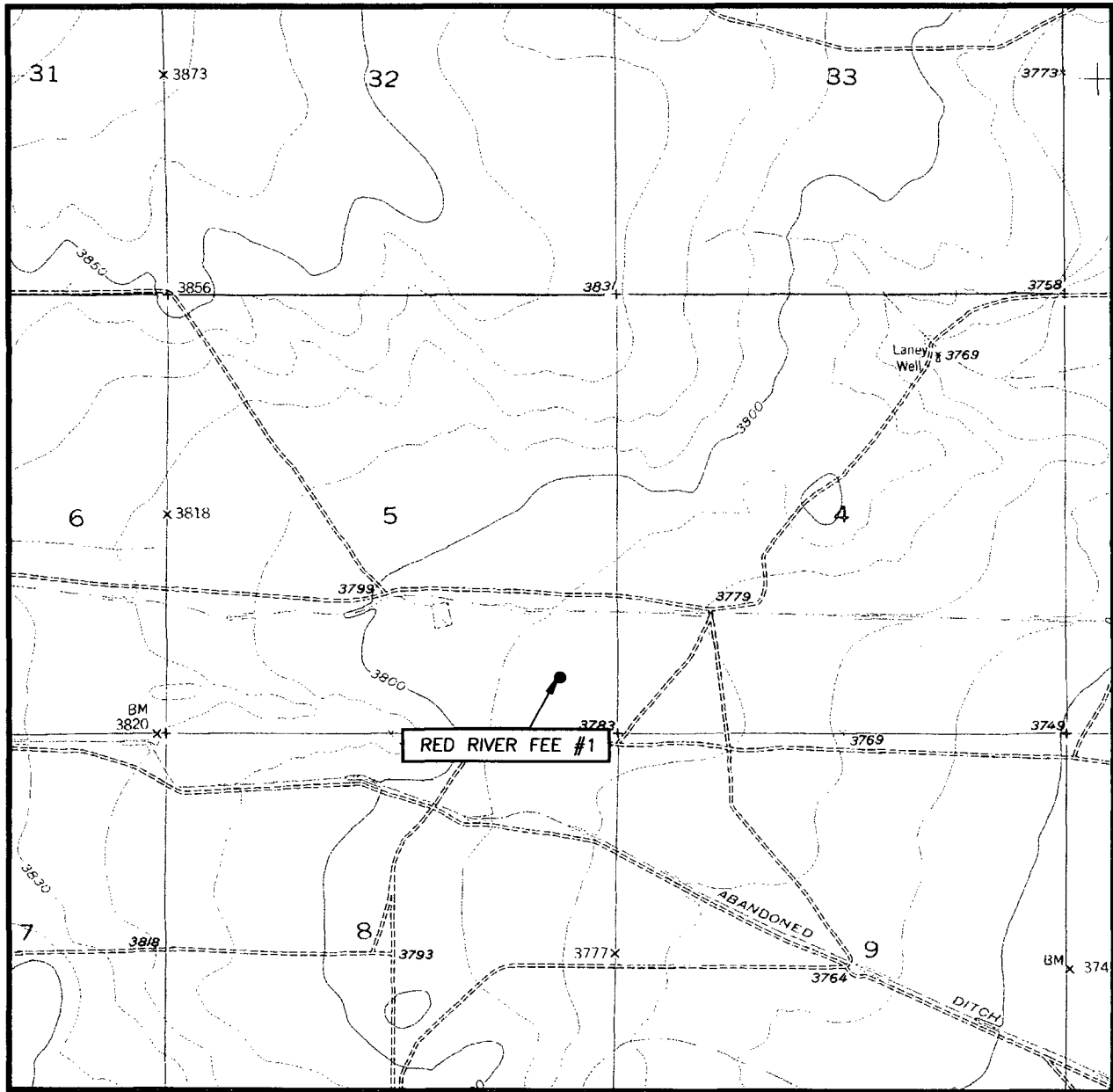
OPERATOR MACK ENERGY CORPORATION

LEASE RED RIVER FEE



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
HOPE SE, N.M. - 10'

SEC. 5 TWP. 18-S RGE. 24-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 660' FSL & 660' FEL

ELEVATION 3788'

OPERATOR MACK ENERGY CORPORATION

LEASE RED RIVER FEE

U.S.G.S. TOPOGRAPHIC MAP
HOPE SE, N.M.



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBBS, N.M. 88240
(505) 393-3117



Field: Sec. 5, T18S-R24E (Red River Fee #1)
Site: Eddy County, NM
Well: Red River Fee #1
Wellpath: OH
Plan: Plan #2

Mack Energy, Corp.

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	
2	4418.00	0.00	0.00	4418.00	0.00	0.00	0.00	0.00	0.00	
3	5179.63	90.63	0.00	4899.45	486.81	0.00	11.90	0.00	486.81	
4	8653.04	90.63	0.00	4861.00	3960.00	0.00	0.00	0.00	3960.00	PBHL #1

WELL DETAILS

Name	+N-S	+E-W	Latitude	Longitude	Slot
Red River Fee #1	0.00	0.00	30°59'24.512N	105°55'44.137W	N/A

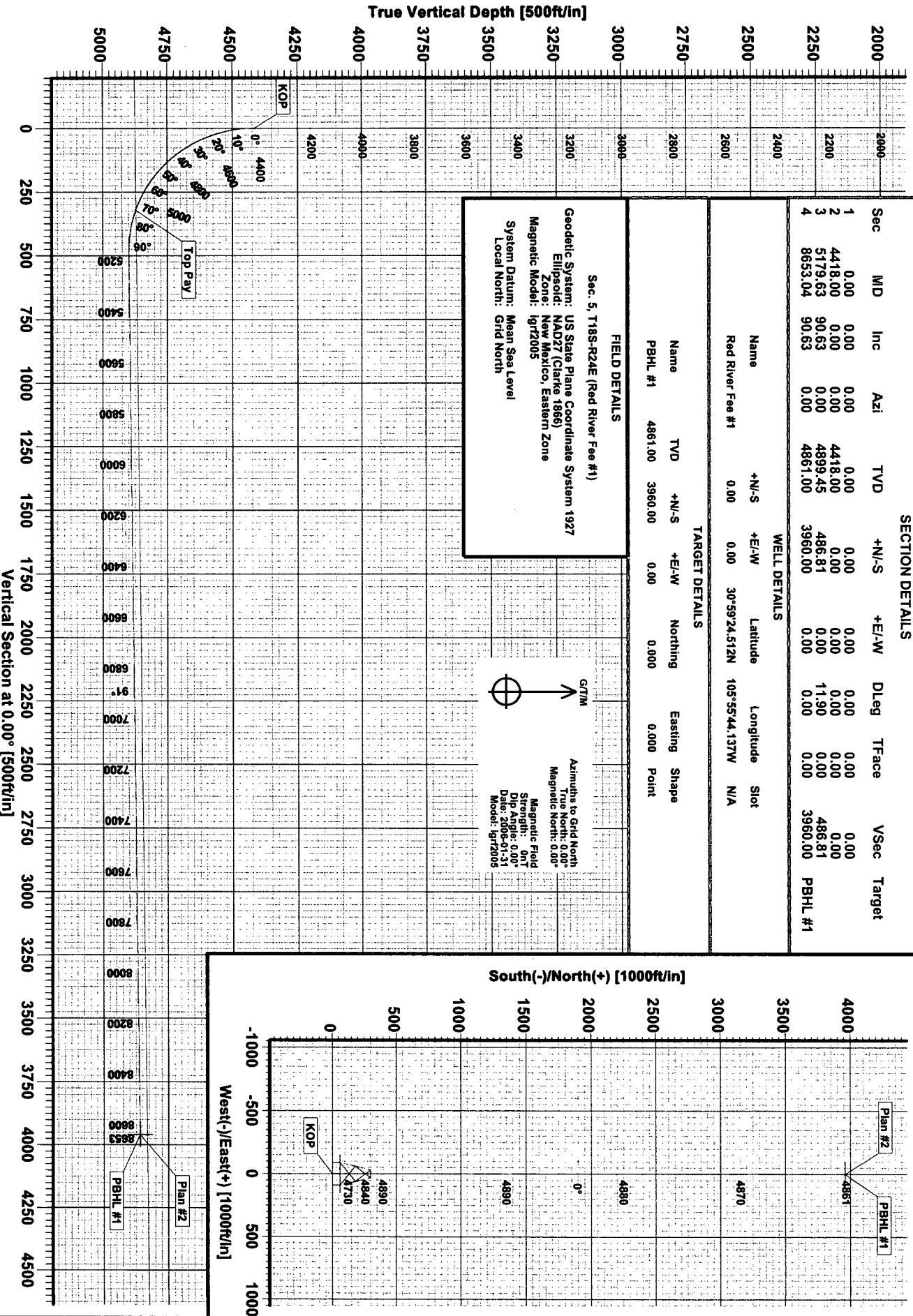
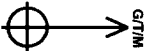
TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
PBHL #1	4861.00	3960.00	0.00	0.000	0.000	Point

FIELD DETAILS

Sec. 5, T18S-R24E (Red River Fee #1)
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: Igrt2005
System Datum: Mean Sea Level
Local North: Grid North

GTM
Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field Strength: 0.00°
Date: 2008-01-31
Model: Igrt2005





Page: 1

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: igrf2005

[illegible]



Scientific Drilling Planning Report

Company: Mack Energy Corp.
Field: Sec. 5, T18S-R24E (Red River Fee #1)
Site: Eddy County, NM
Well: Red River Fee #1
Wellpath: OH

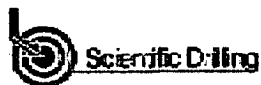
Date: 2006-02-09 Time: 09:19:06 Page: 2
Co-ordinate(NE) Reference: Well: Red River Fee #1, Grid North
Vertical (TVD) Reference: GL=3787, KB=3803 3803.0
Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)
Plan: Plan #2

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
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
4418.00	0.00	0.00	4418.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Section 2 : Start Build 11.90

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
4425.00	0.83	0.00	4425.00	0.05	0.00	0.05	11.90	11.90	0.00	0.00
4450.00	3.81	0.00	4449.98	1.06	0.00	1.06	11.90	11.90	0.00	0.00
4475.00	6.78	0.00	4474.87	3.37	0.00	3.37	11.90	11.90	0.00	0.00
4500.00	9.76	0.00	4499.60	6.97	0.00	6.97	11.90	11.90	0.00	0.00
4525.00	12.73	0.00	4524.12	11.84	0.00	11.84	11.90	11.90	0.00	0.00
4550.00	15.71	0.00	4548.35	17.98	0.00	17.98	11.90	11.90	0.00	0.00
4575.00	18.68	0.00	4572.23	25.37	0.00	25.37	11.90	11.90	0.00	0.00
4600.00	21.66	0.00	4595.70	33.99	0.00	33.99	11.90	11.90	0.00	0.00
4625.00	24.63	0.00	4618.68	43.82	0.00	43.82	11.90	11.90	0.00	0.00
4650.00	27.61	0.00	4641.13	54.82	0.00	54.82	11.90	11.90	0.00	0.00
4675.00	30.58	0.00	4662.97	66.98	0.00	66.98	11.90	11.90	0.00	0.00
4700.00	33.56	0.00	4684.15	80.25	0.00	80.25	11.90	11.90	0.00	0.00
4725.00	36.53	0.00	4704.62	94.60	0.00	94.60	11.90	11.90	0.00	0.00
4750.00	39.51	0.00	4724.31	110.00	0.00	110.00	11.90	11.90	0.00	0.00
4775.00	42.48	0.00	4743.18	126.40	0.00	126.40	11.90	11.90	0.00	0.00
4800.00	45.46	0.00	4761.17	143.75	0.00	143.75	11.90	11.90	0.00	0.00
4825.00	48.43	0.00	4778.23	162.02	0.00	162.02	11.90	11.90	0.00	0.00
4850.00	51.41	0.00	4794.33	181.15	0.00	181.15	11.90	11.90	0.00	0.00
4875.00	54.38	0.00	4809.41	201.08	0.00	201.08	11.90	11.90	0.00	0.00
4900.00	57.36	0.00	4823.43	221.77	0.00	221.77	11.90	11.90	0.00	0.00
4925.00	60.33	0.00	4836.36	243.17	0.00	243.17	11.90	11.90	0.00	0.00
4950.00	63.31	0.00	4848.17	265.20	0.00	265.20	11.90	11.90	0.00	0.00
4975.00	66.28	0.00	4858.81	287.82	0.00	287.82	11.90	11.90	0.00	0.00
5000.00	69.26	0.00	4868.27	310.96	0.00	310.96	11.90	11.90	0.00	0.00
5012.39	70.73	0.00	4872.51	322.60	0.00	322.60	11.90	11.90	0.00	0.00
5025.00	72.23	0.00	4876.51	334.56	0.00	334.56	11.90	11.90	0.00	0.00
5050.00	75.21	0.00	4883.52	358.55	0.00	358.55	11.90	11.90	0.00	0.00
5075.00	78.18	0.00	4889.27	382.88	0.00	382.88	11.90	11.90	0.00	0.00
5100.00	81.16	0.00	4893.76	407.47	0.00	407.47	11.90	11.90	0.00	0.00
5125.00	84.13	0.00	4896.96	432.26	0.00	432.26	11.90	11.90	0.00	0.00
5150.00	87.11	0.00	4898.86	457.18	0.00	457.18	11.90	11.90	0.00	0.00
5175.00	90.08	0.00	4899.48	482.17	0.00	482.17	11.90	11.90	0.00	0.00
5179.63	90.63	0.00	4899.45	486.81	0.00	486.81	11.90	11.90	0.00	0.00



Scientific Drilling Planning Report

Company: Mack Energy Corp.
Field: Sec. 5, T18S-R24E (Red River Fee #1)
Site: Eddy County, NM
Well: Red River Fee #1
Wellpath: OH

Date: 2006-02-09
Co-ordinate(NE) Reference: Well: Red River Fee #1, Grid North
Vertical (TVD) Reference: GL=3787, KB=3803 3803.0
Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)
Plan: Plan #2

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Section 2 : Start Build 11.90

MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	TFO
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Section 3 : 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
5200.00	90.63	0.00	4899.22	507.17	0.00	507.17	0.00	0.00	0.00	0.00
5300.00	90.63	0.00	4898.12	607.17	0.00	607.17	0.00	0.00	0.00	0.00
5400.00	90.63	0.00	4897.01	707.16	0.00	707.16	0.00	0.00	0.00	0.00
5500.00	90.63	0.00	4895.90	807.15	0.00	807.15	0.00	0.00	0.00	0.00
5600.00	90.63	0.00	4894.79	907.15	0.00	907.15	0.00	0.00	0.00	0.00
5700.00	90.63	0.00	4893.69	1007.14	0.00	1007.14	0.00	0.00	0.00	0.00
5800.00	90.63	0.00	4892.58	1107.14	0.00	1107.14	0.00	0.00	0.00	0.00
5900.00	90.63	0.00	4891.47	1207.13	0.00	1207.13	0.00	0.00	0.00	0.00
6000.00	90.63	0.00	4890.37	1307.12	0.00	1307.12	0.00	0.00	0.00	0.00
6100.00	90.63	0.00	4889.26	1407.12	0.00	1407.12	0.00	0.00	0.00	0.00
6200.00	90.63	0.00	4888.15	1507.11	0.00	1507.11	0.00	0.00	0.00	0.00
6300.00	90.63	0.00	4887.05	1607.11	0.00	1607.11	0.00	0.00	0.00	0.00
6400.00	90.63	0.00	4885.94	1707.10	0.00	1707.10	0.00	0.00	0.00	0.00
6500.00	90.63	0.00	4884.83	1807.09	0.00	1807.09	0.00	0.00	0.00	0.00
6600.00	90.63	0.00	4883.73	1907.09	0.00	1907.09	0.00	0.00	0.00	0.00
6700.00	90.63	0.00	4882.62	2007.08	0.00	2007.08	0.00	0.00	0.00	0.00
6800.00	90.63	0.00	4881.51	2107.08	0.00	2107.08	0.00	0.00	0.00	0.00
6900.00	90.63	0.00	4880.40	2207.07	0.00	2207.07	0.00	0.00	0.00	0.00
7000.00	90.63	0.00	4879.30	2307.06	0.00	2307.06	0.00	0.00	0.00	0.00
7100.00	90.63	0.00	4878.19	2407.06	0.00	2407.06	0.00	0.00	0.00	0.00
7200.00	90.63	0.00	4877.08	2507.05	0.00	2507.05	0.00	0.00	0.00	0.00
7300.00	90.63	0.00	4875.98	2607.04	0.00	2607.04	0.00	0.00	0.00	0.00
7400.00	90.63	0.00	4874.87	2707.04	0.00	2707.04	0.00	0.00	0.00	0.00
7500.00	90.63	0.00	4873.76	2807.03	0.00	2807.03	0.00	0.00	0.00	0.00
7600.00	90.63	0.00	4872.66	2907.03	0.00	2907.03	0.00	0.00	0.00	0.00
7700.00	90.63	0.00	4871.55	3007.02	0.00	3007.02	0.00	0.00	0.00	0.00
7800.00	90.63	0.00	4870.44	3107.01	0.00	3107.01	0.00	0.00	0.00	0.00
7900.00	90.63	0.00	4869.34	3207.01	0.00	3207.01	0.00	0.00	0.00	0.00
8000.00	90.63	0.00	4868.23	3307.00	0.00	3307.00	0.00	0.00	0.00	0.00
8100.00	90.63	0.00	4867.12	3407.00	0.00	3407.00	0.00	0.00	0.00	0.00
8200.00	90.63	0.00	4866.01	3506.99	0.00	3506.99	0.00	0.00	0.00	0.00
8300.00	90.63	0.00	4864.91	3606.98	0.00	3606.98	0.00	0.00	0.00	0.00
8400.00	90.63	0.00	4863.80	3706.98	0.00	3706.98	0.00	0.00	0.00	0.00
8500.00	90.63	0.00	4862.69	3806.97	0.00	3806.97	0.00	0.00	0.00	0.00
8600.00	90.63	0.00	4861.59	3906.96	0.00	3906.96	0.00	0.00	0.00	0.00
8653.04	90.63	0.00	4861.00	3960.00	0.00	3960.00	0.00	0.00	0.00	0.00

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec		← Longitude → Deg Min Sec	
PBHL #1			4861.00	3960.00	0.00			30	59	25.071	N 105 54 58.658 W

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
5012.39	4872.51	Top Pay		-0.62	0.00
	0.00	Base Pay		-0.62	0.00



Scientific Drilling Planning Report

Company: Mack Energy Corp.
Field: Sec. 5, T18S-R24E (Red River Fee #1)
Site: Eddy County, NM
Well: Red River Fee #1
Wellpath: OH

Date: 2006-02-09
Co-ordinate(NE) Reference: Well: Red River Fee #1, Grid North
Vertical (TVD) Reference: GL=3787, KB=3803 3803.0
Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)
Plan: Plan #2

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Annotation

MD ft	TVD ft	
4418.00	4418.00	KOP