

State of New Mexico

DISTRICT I

1625 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 October 12, 2005
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 30-015-35317	Pool Code 97394	Pool Name WILDCAT ; Wolfcamp
Property Code	Property Name PEBBLE BEACH STATE COM	Well Number 1
OGRID No. 013837	Operator Name MACK ENERGY CORPORATION	Elevation 3990'

Surface Location

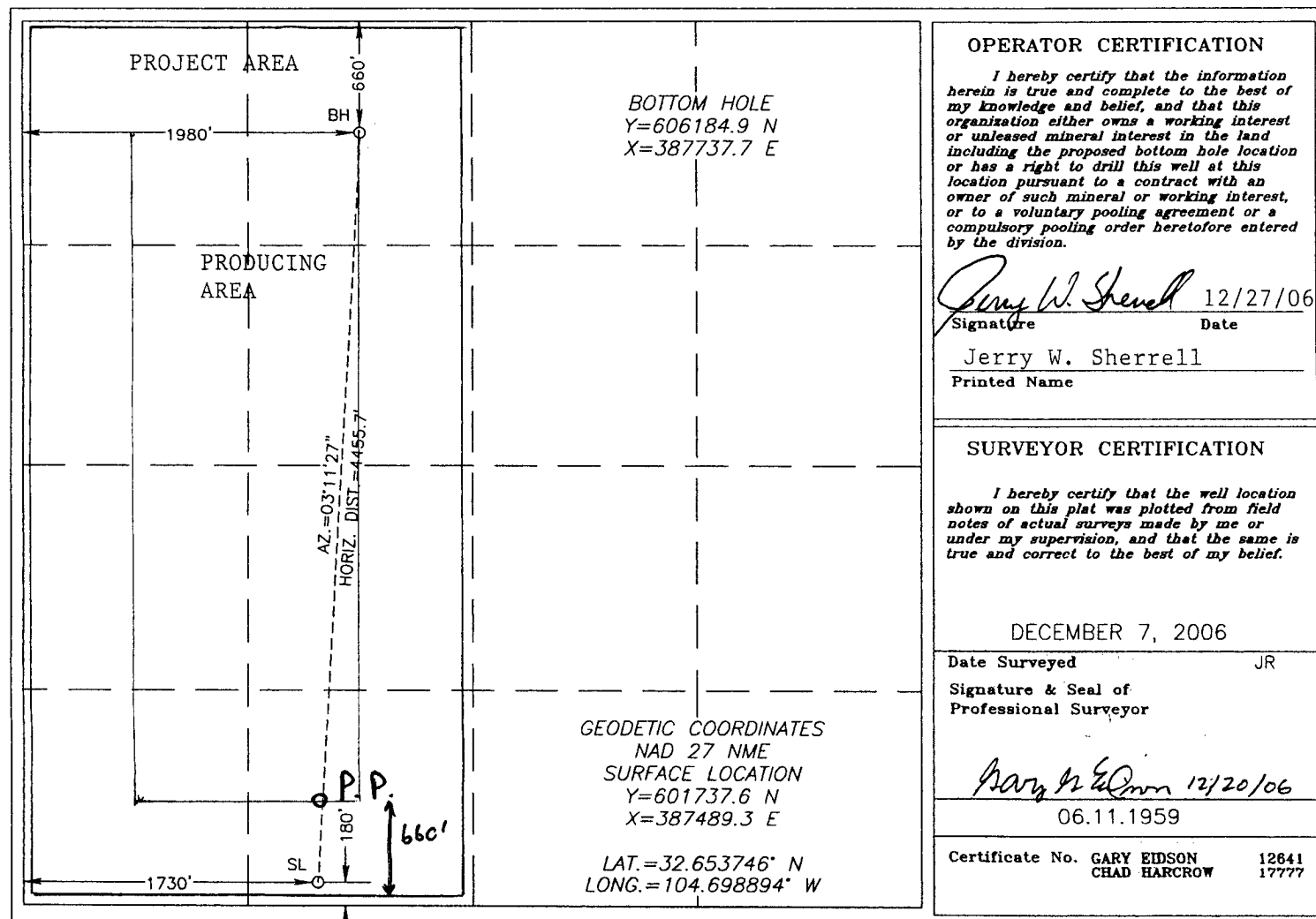
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	16	19-S	23-E		180	SOUTH	1730	WEST	EDDY

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
C	16	19-S	23-E		660	NORTH	1980	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information 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 or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jerry W. Sherrell 12/27/06
Signature Date

Jerry W. Sherrell
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

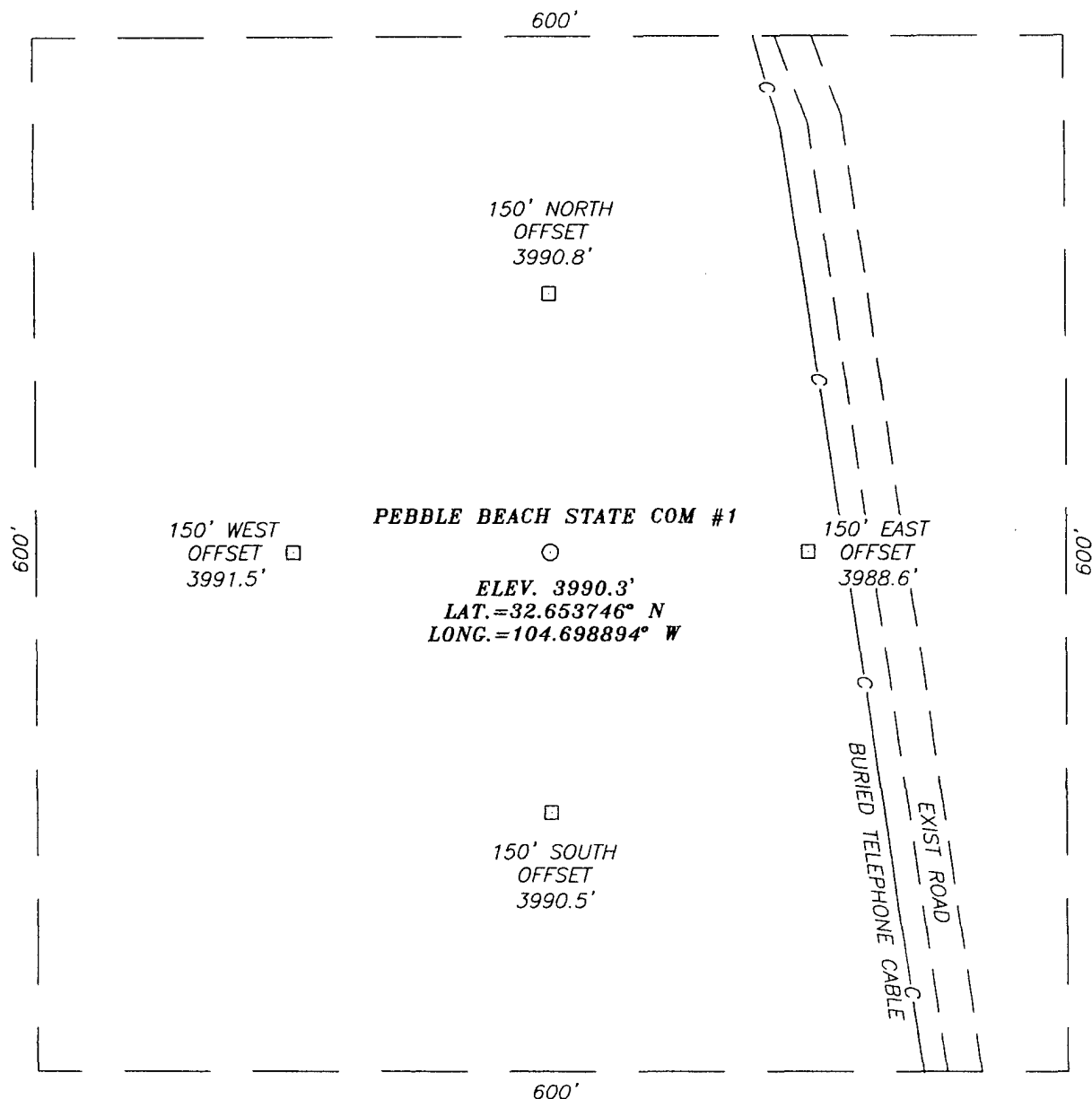
DECEMBER 7, 2006

Date Surveyed JR
Signature & Seal of Professional Surveyor

Gary H. Eidsen 12/20/06
06.11.1959

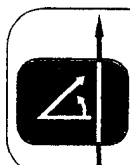
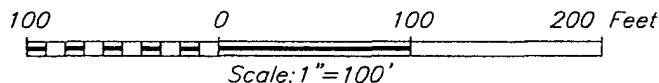
Certificate No. GARY EIDSON 12641
CHAD HARCROW 17777

SECTION 16, TOWNSHIP 19 SOUTH, RANGE 23 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CO. RD. #12
 (ARMSTRONG RD.) AND CO. RD. #21 (ROCKIN R
 RED RD.), GO SOUTH ON CO. RD. #12 APPROX.
 2.5 MILES. THIS LOCATION IS APPROX. 200 FEET
 WEST.



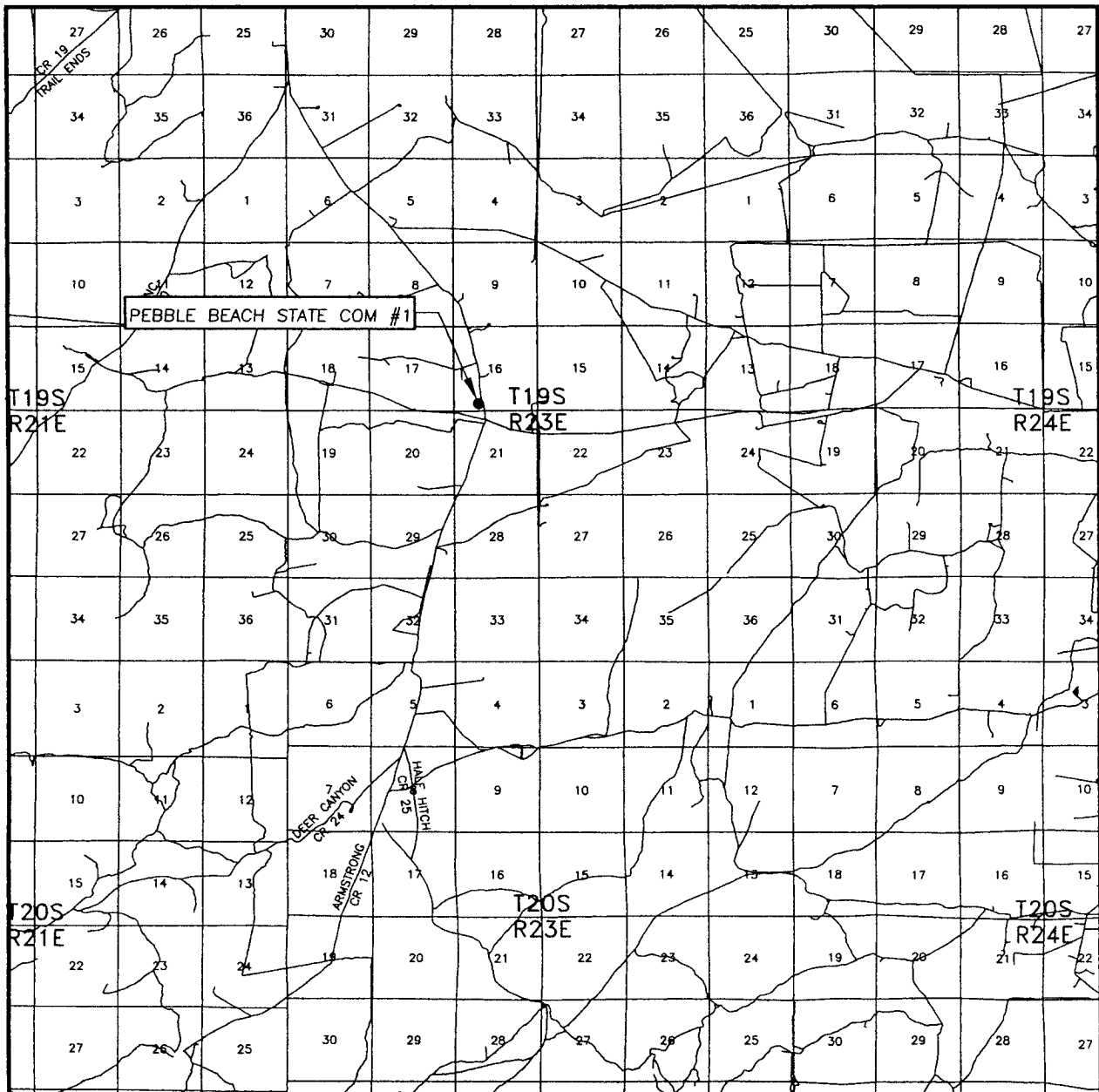
PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 393-3117

MACK ENERGY CORPORATION

PEBBLE BEACH STATE COM #1
 LOCATED 180 FEET FROM THE SOUTH LINE
 AND 1730 FEET FROM THE WEST LINE OF SECTION 16,
 TOWNSHIP 19 SOUTH, RANGE 23 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

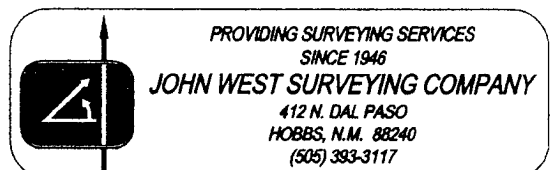
Survey Date: 12/07/06	Sheet 1 of 1 Sheets
W.O. Number: 06.11.1959	Dr By: J.R.
Date: 12/18/06	Rev 1: N/A
Disk: CD#6	06111959
	Scale: 1"=100'

VICINITY MAP

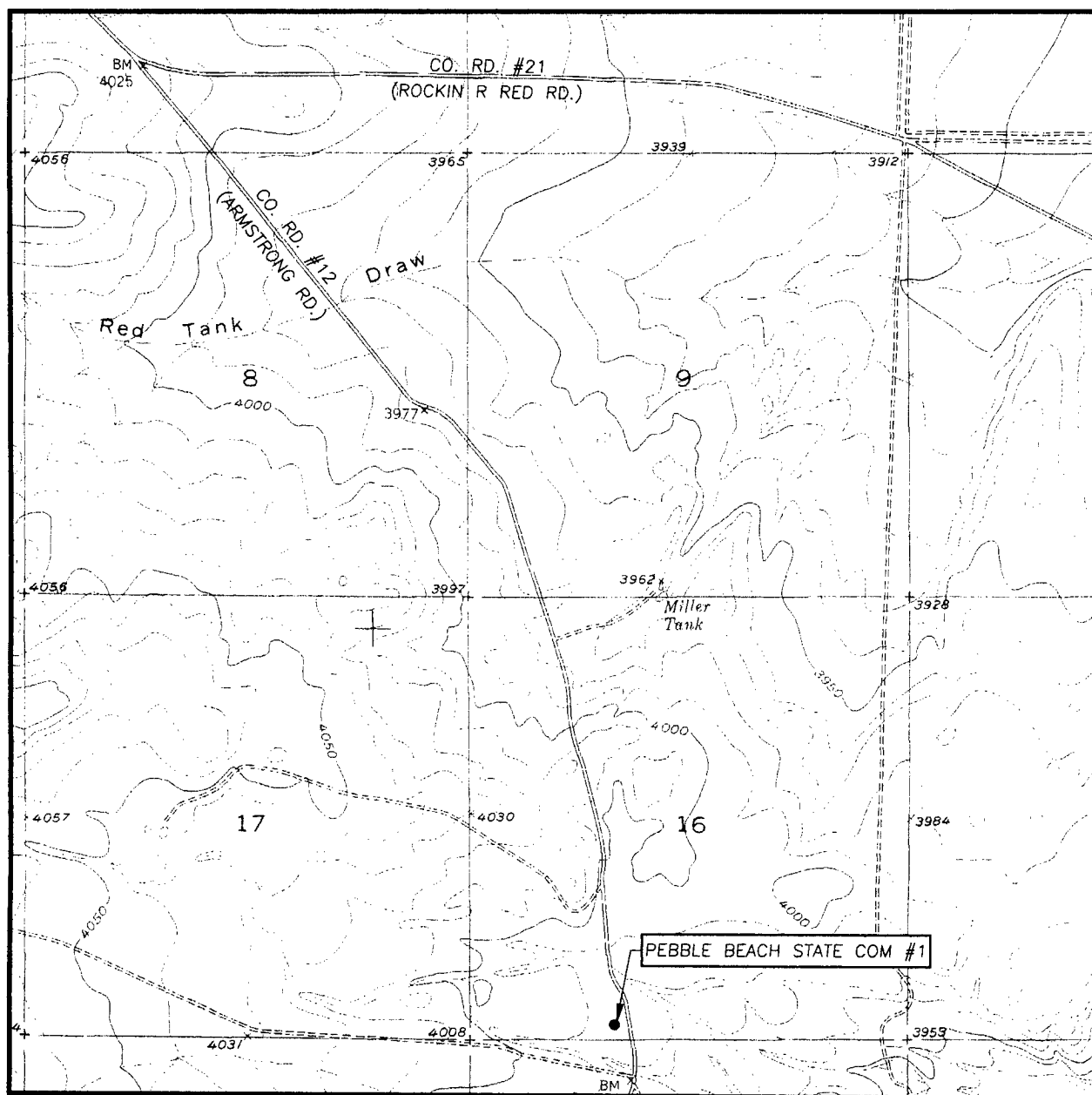


SCALE: 1" = 2 MILES

SEC. 16 TWP. 19-S RGE. 23-E
 SURVEY N.M.P.M.
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 180' FSL & 1730' FWL
 ELEVATION 3990'
 OPERATOR MACK ENERGY CORPORATION
 LEASE PEBBLE BEACH STATE COM



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
ANTELOPE SINK, N.M. - 10'

SEC. 16 TWP. 19-S RGE. 23-E

SURVEY _____ N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 180' FSL & 1730' FWL

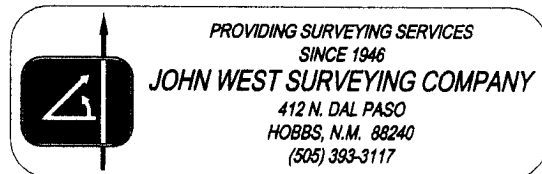
ELEVATION 3990'

OPERATOR MACK ENERGY CORPORATION

LEASE PEBBLE BEACH STATE COM

U.S.G.S. TOPOGRAPHIC MAP

ANTELOPE SINK, N.M.



Pathfinder Energy

Planning Report

Company: Mack Energy Corp.
 Field: Pebble Beach
 Site: Pebble Beach
 Well: Pebble Beach St Com #1
 Wellpath: 1

Date: 12/26/2006 Time: 11:16:18 Page: 2
 Co-ordinate(N/E) Reference: Pebble Beach, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,3.20Azi)
 Plan: Plan #1 12-19-06

Survey

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	Tool/Comment
1300.00	0.00	0.00	1300.00	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	
1500.00	0.00	0.00	1500.00	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	
1700.00	0.00	0.00	1700.00	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	
1900.00	0.00	0.00	1900.00	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	
2100.00	0.00	0.00	2100.00	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	
2300.00	0.00	0.00	2300.00	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	
2500.00	0.00	0.00	2500.00	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	
2700.00	0.00	0.00	2700.00	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	
2900.00	0.00	0.00	2900.00	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	
3100.00	0.00	0.00	3100.00	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	
3300.00	0.00	0.00	3300.00	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	
3500.00	0.00	0.00	3500.00	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	
3700.00	0.00	0.00	3700.00	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	
3900.00	0.00	0.00	3900.00	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	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4103.00	0.00	0.00	4103.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP @ 4103' TVD/MD
4200.00	10.67	3.19	4199.44	8.99	0.50	9.01	11.00	11.00	0.00	
4300.00	21.67	3.19	4295.34	36.75	2.05	36.81	11.00	11.00	0.00	
4400.00	32.67	3.19	4384.17	82.28	4.59	82.41	11.00	11.00	0.00	
4500.00	43.67	3.19	4462.66	143.89	8.03	144.11	11.00	11.00	0.00	
4600.00	54.67	3.19	4527.94	219.32	12.24	219.66	11.00	11.00	0.00	
4700.00	65.67	3.19	4577.61	305.80	17.07	306.28	11.00	11.00	0.00	
4703.76	66.08	3.19	4579.15	309.23	17.26	309.71	11.00	11.00	0.00	EOB/ Begin Hold @ 66° INC
4800.00	66.08	3.19	4618.16	397.07	22.16	397.68	0.00	0.00	0.00	
4890.86	66.08	3.19	4655.00	480.00	26.79	480.75	0.00	0.00	0.00	Standard Setback Location
4900.00	67.06	3.19	4658.63	488.37	27.26	489.13	10.69	10.69	0.00	
5000.00	77.76	3.20	4688.81	583.41	32.56	584.31	10.69	10.69	0.00	
5100.00	88.45	3.20	4700.80	682.38	38.10	683.45	10.69	10.69	0.00	
5114.49	90.00	3.20	4701.00	696.85	38.90	697.94	10.69	10.69	0.00	EOC @ 5114.40' MD\ 4701
5128.30	90.41	3.19	4700.95	710.64	39.67	711.75	3.00	3.00	-0.07	EOB @ 90.41° INC
5200.00	90.41	3.19	4700.43	782.23	43.66	783.44	0.00	0.00	0.00	
5300.00	90.41	3.19	4699.71	882.07	49.23	883.44	0.00	0.00	0.00	
5400.00	90.41	3.19	4698.99	981.91	54.79	983.44	0.00	0.00	0.00	
5500.00	90.41	3.19	4698.26	1081.75	60.36	1083.44	0.00	0.00	0.00	
5600.00	90.41	3.19	4697.54	1181.60	65.92	1183.43	0.00	0.00	0.00	
5700.00	90.41	3.19	4696.82	1281.44	71.49	1283.43	0.00	0.00	0.00	
5800.00	90.41	3.19	4696.10	1381.28	77.05	1383.43	0.00	0.00	0.00	
5900.00	90.41	3.19	4695.37	1481.12	82.62	1483.42	0.00	0.00	0.00	
6000.00	90.41	3.19	4694.65	1580.96	88.18	1583.42	0.00	0.00	0.00	

Pathfinder Energy

Planning Report

Company: Mack Energy Corp.
Field: Pebble Beach
Site: Pebble Beach
Well: Pebble Beach St Com #1
Wellpath: 1

Date: 12/26/2006 **Time:** 11:16:18 **Page:** 3
Co-ordinate(NE) Reference: Pebble Beach, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,3.20Azi)
Plan: Plan #1 12-19-06

Survey

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	Tool/Comment
6100.00	90.41	3.19	4693.93	1680.81	93.75	1683.42	0.00	0.00	0.00	
6200.00	90.41	3.19	4693.21	1780.65	99.31	1783.42	0.00	0.00	0.00	
6300.00	90.41	3.19	4692.48	1880.49	104.88	1883.41	0.00	0.00	0.00	
6400.00	90.41	3.19	4691.76	1980.33	110.44	1983.41	0.00	0.00	0.00	
6500.00	90.41	3.19	4691.04	2080.18	116.01	2083.41	0.00	0.00	0.00	
6600.00	90.41	3.19	4690.31	2180.02	121.57	2183.41	0.00	0.00	0.00	
6643.58	90.41	3.19	4690.00	2223.53	124.00	2226.98	0.00	0.00	0.00	Midpoint Target
6644.59	90.39	3.20	4689.99	2224.53	124.06	2227.99	3.00	-2.80	1.07	
6700.00	90.39	3.20	4689.62	2279.86	127.15	2283.40	0.00	0.00	0.00	
6800.00	90.39	3.20	4688.95	2379.70	132.73	2383.40	0.00	0.00	0.00	
6900.00	90.39	3.20	4688.27	2479.54	138.32	2483.40	0.00	0.00	0.00	
7000.00	90.39	3.20	4687.60	2579.39	143.90	2583.40	0.00	0.00	0.00	
7100.00	90.39	3.20	4686.93	2679.23	149.49	2683.40	0.00	0.00	0.00	
7200.00	90.39	3.20	4686.25	2779.07	155.07	2783.39	0.00	0.00	0.00	
7300.00	90.39	3.20	4685.58	2878.91	160.65	2883.39	0.00	0.00	0.00	
7400.00	90.39	3.20	4684.91	2978.75	166.24	2983.39	0.00	0.00	0.00	
7500.00	90.39	3.20	4684.23	3078.59	171.82	3083.39	0.00	0.00	0.00	
7600.00	90.39	3.20	4683.56	3178.44	177.41	3183.38	0.00	0.00	0.00	
7700.00	90.39	3.20	4682.89	3278.28	182.99	3283.38	0.00	0.00	0.00	
7800.00	90.39	3.20	4682.21	3378.12	188.57	3383.38	0.00	0.00	0.00	
7900.00	90.39	3.20	4681.54	3477.96	194.16	3483.38	0.00	0.00	0.00	
8000.00	90.39	3.20	4680.86	3577.80	199.74	3583.37	0.00	0.00	0.00	
8100.00	90.39	3.20	4680.19	3677.65	205.32	3683.37	0.00	0.00	0.00	
8200.00	90.39	3.20	4679.52	3777.49	210.91	3783.37	0.00	0.00	0.00	
8300.00	90.39	3.20	4678.84	3877.33	216.49	3883.37	0.00	0.00	0.00	
8400.00	90.39	3.20	4678.17	3977.17	222.08	3983.37	0.00	0.00	0.00	
8500.00	90.39	3.20	4677.50	4077.01	227.66	4083.36	0.00	0.00	0.00	
8600.00	90.39	3.20	4676.82	4176.85	233.24	4183.36	0.00	0.00	0.00	
8700.00	90.39	3.20	4676.15	4276.70	238.83	4283.36	0.00	0.00	0.00	
8800.00	90.39	3.20	4675.48	4376.54	244.41	4383.36	0.00	0.00	0.00	
8870.89	90.39	3.20	4675.00	4447.31	248.37	4454.24	0.00	0.00	0.00	PBHL

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ----><--- Longitude --->		
Standard Setback Location		4655.00	480.00	26.79	602217.57	387516.09	32	39	18.235 N
PBHL		4675.00	4447.31	248.37	606184.88	387737.67	32	39	57.501 N
Midpoint Target		4690.00	2223.53	124.00	603961.10	387613.30	32	39	35.492 N

Annotation

MD ft	TVD ft	
4103.00	4103.00	KOP @ 4103' TVD/MD
4703.76	4579.15	EOB/ Begin Hold @ 66° INC
4890.86	4655.00	End Hold/ Begin Build
5114.49	4701.00	EOC @ 5114.40' MD\ 4701' TVD
5128.30	4700.95	EOB @ 90.41° INC

Mack Energy Corp.

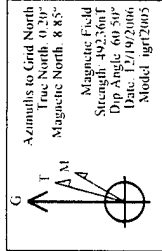
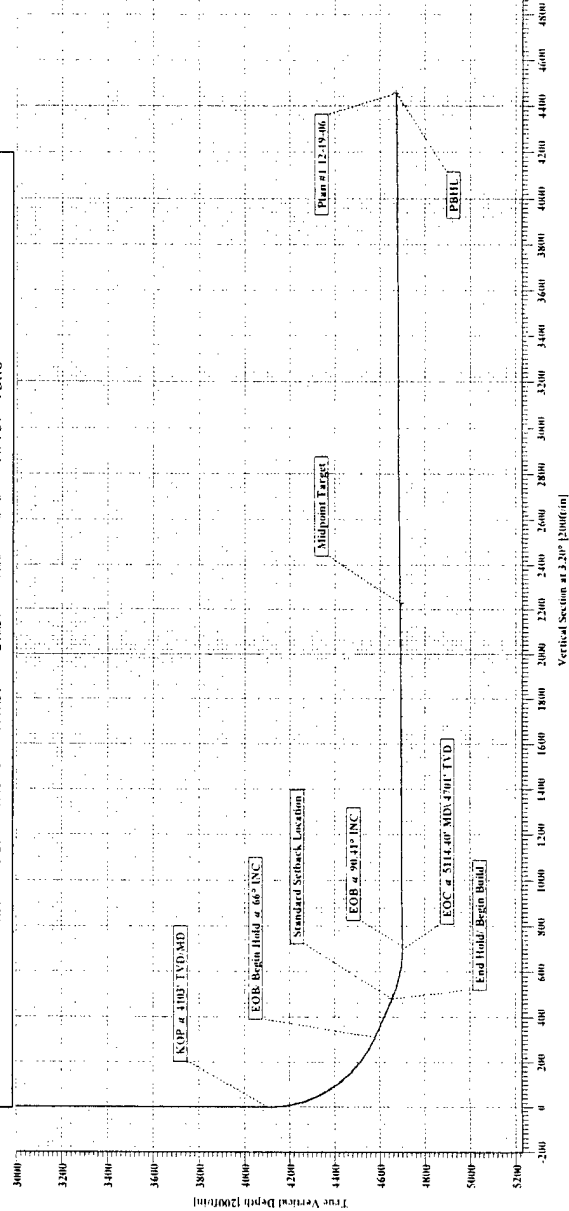
Field: Pebble Beach
 Site: Pebble Beach
 Well: Pebble Beach St Com #1
 Wellpath: 1
 Plan: Plan #1 12-19-06

Name	TVD	+N/S	+E/W	Shape
Standard Suback Location	4655.00	-480.00	26.79	Point
PBHL	4675.00	4447.31	248.37	Point
Midpoint Target	4690.00	2223.53	124.00	Point

Pebble Beach	
Eddo County, NM NAD27	
Ground Level	3086.40
Positional Uncertainty	0.00
Convergence	-0.20

WELLPATH DETAILS				
Ref. Datum	Rig	SITE	Origin	Starting
V Section	Angle	+N/S	+E/W	From TVD
3.20°	0.00	0.00	0.00	0.00

SECTION DETAILS										Target
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dlog	TFace	V-See	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4103.00	0.00	0.00	4103.00	0.00	0.00	0.00	0.00	0.00	
3	4703.76	66.08	3.19	4579.13	309.23	17.26	11.00	3.19	309.71	Standard Suback Location
4	4890.86	66.08	3.19	4655.00	480.00	26.79	0.00	0.00	480.75	
5	5114.40	90.00	3.20	4701.00	696.85	38.90	10.69	0.01	697.44	
6	5128.30	90.41	3.19	4700.95	710.64	39.67	3.00	-1.34	711.75	Midpoint Target
7	5225.33	90.41	3.19	4690.00	2223.53	124.00	0.00	0.00	2224.98	
8	6643.88	90.39	3.20	4675.00	4447.31	248.37	0.00	0.00	4448.00	PBHL
9	8870.89	90.39	3.20	4675.00	4447.31	248.37	0.00	0.00	4448.00	



PATHFINDER

