

Submit 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. 30-007-20497	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name 2005 VPR D	
8. Well Number 150	9. GRID Number 180514
10. Pool name or Wildcat	

RECEIVED
SEP 19 2005

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 **COALBED METHANE**

2. Name of Operator
EL PASO ENERGY RATON, L.L.C.

3. Address of Operator
PO BOX 190, RATON, NM 87740

4. Well Location
Unit Letter **M** : **710** feet from the **South** line and **497** feet from the **West** line
Section **24** Township **31N** Range **17E** NMPM **Colfax** County
Bottom Hole Location: Unit K, Sec 24, T 31N, R 17E, 2590' FSL, 2590' FWL, Colfax County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
8,145' (GR)

Pit or Below-grade Tank Application ☐ or Closure ☐

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

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

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
OTHER: ☐		OTHER: Horizontal Lateral Lower Vermejo ☒	

1. 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. Work proposed is as follows.

08/01/05 MIRU Key Rig. LD rods, tubing, and pump.
Set lower lateral whipstock at 48° azimuth. Start milling window from 1,051' - 1,057'.
08/04/05 Drill 4 3/4" horizontal lateral to 3,123' TMD, 1,187' TVD.
To 08/14/05 (See attachment for surveys.)
08/14/05 Circulate and clean hole. Run 3 1/2" perforated liner. Top of liner at 1,091'. Bottom of liner at 2,914'.
POOH with whip stock. LDDP.
08/15/05 Set upper lateral whipstock.

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 William M. Ordemann TITLE Production Engineer DATE 09/16/05
Type or print name William M. Ordemann E-mail address: william.ordemann@elpaso.com Telephone No. (505) 445-6724

For State Use Only

APPROVED BY: R. E. Johnson TITLE DISTRICT SUPERVISOR DATE 9/19/05
Conditions of Approval (if any):



Scientific Drilling Houston

Final Survey Report



Company: EL PASO PRODUCTION Date: 9/9/2005 Time: 09:43:26 Page: 1
Field: VERMEJO FIELD, NEW MEXICO Co-ordinate(NE) Reference: Well: WELL D-150, Grid North
Site: RATON (D150) Vertical (TVD) Reference: SITE 0.0
Well: WELL D-150 Section (VS) Reference: Well (0.00N,0.00E,48.00Azi)
Wellpath: LOWER LATERAL Survey Calculation Method: Minimum Curvature Db: Sybase

Field: VERMEJO FIELD, NEW MEXICO

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: igrf2005

Site: RATON (D150)

SECTION 24,T31N-R17E

Site Position: Northing: 2148414.82 ft Latitude: 36 54 6.683 N
From: Geographic Easting: 276987.73 ft Longitude: 105 5 45.796 W
Position Uncertainty: 0.0 ft North Reference: Grid
Ground Level: 7197.0 ft Grid Convergence: -0.46 deg

Well: WELL D-150

Slot Name:

Well Position: +N/-S 0.0 ft Northing: 2148414.82 ft Latitude: 36 54 6.683 N
+E/-W 0.0 ft Easting: 276987.73 ft Longitude: 105 5 45.796 W
Position Uncertainty: 0.0 ft

Wellpath: LOWER LATERAL

Drilled From: Surface
Tie-on Depth: 0.0 ft
Above System Datum: Mean Sea Level
Declination: 9.43 deg
Mag Dip Angle: 64.26 deg
+E/-W Direction
ft deg

Current Datum: SITE Height 0.0 ft
Magnetic Data: 8/1/2005
Field Strength: 51833 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.0 0.0

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	ClsD ft	ClsA deg	Tool
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.00	TIE LINE
100.0	0.31	287.38	100.0	0.1	-0.3	-0.1	0.31	0.3	287.38	SDI GYRO
200.0	0.25	308.45	200.0	0.3	-0.7	-0.3	0.12	0.7	293.39	SDI GYRO
300.0	0.85	13.84	300.0	1.2	-0.7	0.3	0.78	1.3	329.45	SDI GYRO
400.0	2.24	15.21	400.0	3.8	0.0	2.5	1.39	3.8	0.15	SDI GYRO
500.0	2.53	17.54	499.9	7.7	1.2	6.1	0.31	7.8	8.71	SDI GYRO
600.0	2.35	18.62	599.8	11.8	2.5	9.8	0.19	12.1	12.00	SDI GYRO
700.0	2.24	14.79	699.7	15.6	3.7	13.2	0.19	16.1	13.18	SDI GYRO
800.0	1.84	14.41	799.6	19.1	4.6	16.2	0.40	19.6	13.44	SDI GYRO
900.0	1.78	8.40	899.6	22.2	5.2	18.7	0.20	22.8	13.17	SDI GYRO
1000.0	1.82	5.91	999.5	25.3	5.6	21.1	0.09	25.9	12.44	SDI GYRO
1029.0	1.78	5.68	1028.5	26.2	5.7	21.7	0.14	26.8	12.21	SDI GYRO
1079.0	11.68	54.54	1078.1	29.9	9.9	27.4	21.19	31.5	18.28	SDI E-FIELD
1109.0	22.12	54.54	1106.8	35.0	17.0	36.0	34.80	38.9	25.90	SDI E-FIELD
1139.0	32.68	53.49	1133.4	43.1	28.1	49.7	35.24	51.4	33.13	SDI E-FIELD
1168.0	43.18	44.97	1156.3	54.8	41.5	67.5	40.39	68.7	37.12	SDI E-FIELD
1198.0	54.51	47.42	1176.0	70.4	57.8	90.0	38.26	91.0	39.38	SDI E-FIELD
1228.0	66.10	50.02	1190.8	87.5	77.3	116.0	39.36	116.8	41.47	SDI E-FIELD
1255.0	76.11	49.94	1199.5	103.9	96.9	141.5	37.08	142.1	42.99	SDI E-FIELD
1285.0	84.68	42.57	1204.5	124.4	118.2	171.0	37.44	171.6	43.55	SDI E-FIELD
1315.0	90.27	46.42	1205.9	145.7	139.2	200.9	22.62	201.5	43.69	SDI E-FIELD
1345.0	93.06	49.74	1205.0	165.7	161.5	230.9	14.45	231.4	44.26	SDI E-FIELD
1375.0	94.98	52.47	1202.9	184.5	184.8	260.8	11.11	261.1	45.04	SDI E-FIELD
1406.0	94.78	51.72	1200.3	203.5	209.2	291.6	2.50	291.8	45.78	SDI E-FIELD
1438.0	90.57	53.06	1198.8	223.0	234.5	323.5	13.80	323.6	46.43	SDI E-FIELD
1468.0	88.15	55.90	1199.1	240.4	258.9	353.3	12.44	353.3	47.12	SDI E-FIELD
1498.0	89.66	57.32	1199.7	256.9	283.9	382.9	6.91	382.9	47.86	SDI E-FIELD
1527.0	92.02	54.18	1199.2	273.3	307.9	411.7	13.54	411.7	48.41	SDI E-FIELD



Scientific Drilling Houston

Final Survey Report



Company: EL PASO PRODUCTION
Field: VERMEJO FIELD, NEW MEXICO
Site: RATON (D150)
Well: WELL D-150
Wellpath: LOWER LATERAL

Date: 9/9/2005 Time: 09:43:26 Page: 2
Co-ordinate(NE) Reference: Well: WELL D-150, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,48.00Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	ClsD ft	ClsA deg	Tool
1557.0	89.16	50.19	1198.9	291.6	331.6	441.6	16.36	441.6	48.67	SDI E-FIELD
1587.0	89.09	47.83	1199.4	311.3	354.2	471.6	7.87	471.6	48.69	SDI E-FIELD
1617.0	90.91	44.29	1199.4	332.1	375.8	501.5	13.27	501.6	48.53	SDI E-FIELD
1647.0	91.65	39.65	1198.7	354.4	395.9	531.3	15.66	531.3	48.16	SDI E-FIELD
1677.0	91.68	39.91	1197.8	377.5	415.1	561.0	0.87	561.0	47.71	SDI E-FIELD
1706.0	88.99	43.46	1197.7	399.1	434.3	589.8	15.36	589.9	47.42	SDI E-FIELD
1736.0	90.10	46.95	1197.9	420.3	455.6	619.8	12.21	619.8	47.31	SDI E-FIELD
1767.0	91.21	51.29	1197.6	440.5	479.1	650.8	14.45	650.8	47.40	SDI E-FIELD
1799.0	92.79	53.50	1196.4	460.1	504.4	682.7	8.49	682.7	47.63	SDI E-FIELD
1830.0	90.98	49.60	1195.4	479.3	528.6	713.6	13.86	713.6	47.80	SDI E-FIELD
1861.0	89.19	46.35	1195.4	500.1	551.7	744.6	11.97	744.6	47.81	SDI E-FIELD
1891.0	89.16	43.08	1195.8	521.4	572.8	774.5	10.90	774.5	47.69	SDI E-FIELD
1921.0	88.69	47.90	1196.4	542.4	594.2	804.5	16.14	804.5	47.61	SDI E-FIELD
1950.0	88.72	51.88	1197.0	561.1	616.3	833.5	13.72	833.5	47.69	SDI E-FIELD
1980.0	89.46	56.23	1197.5	578.7	640.6	863.3	14.71	863.3	47.91	SDI E-FIELD
2010.0	91.51	58.07	1197.3	595.0	665.8	892.9	9.18	892.9	48.22	SDI E-FIELD
2040.0	91.04	53.36	1196.6	611.8	690.6	922.6	15.77	922.6	48.46	SDI E-FIELD
2069.0	89.06	51.04	1196.6	629.6	713.5	951.5	10.52	951.6	48.57	SDI E-FIELD
2099.0	89.06	47.60	1197.1	649.2	736.2	981.5	11.47	981.6	48.60	SDI E-FIELD
2131.0	89.43	42.89	1197.5	671.7	758.9	1013.5	14.76	1013.5	48.49	SDI E-FIELD
2161.0	91.08	39.71	1197.3	694.2	778.7	1043.2	11.94	1043.3	48.28	SDI E-FIELD
2191.0	91.68	43.91	1196.6	716.6	798.7	1073.1	14.14	1073.1	48.10	SDI E-FIELD
2220.0	91.01	47.75	1195.9	736.8	819.5	1102.0	13.44	1102.0	48.04	SDI E-FIELD
2250.0	88.76	49.06	1196.0	756.7	842.0	1132.0	8.68	1132.0	48.05	SDI E-FIELD
2281.0	89.73	47.24	1196.4	777.4	865.0	1163.0	6.65	1163.0	48.06	SDI E-FIELD
2311.0	90.20	47.12	1196.4	797.7	887.1	1193.0	1.62	1193.0	48.03	SDI E-FIELD
2340.0	89.43	46.12	1196.5	817.7	908.1	1222.0	4.35	1222.0	48.00	SDI E-FIELD
2370.0	89.43	47.26	1196.8	838.2	930.0	1252.0	3.80	1252.0	47.97	SDI E-FIELD
2400.0	91.45	50.13	1196.6	858.0	952.5	1282.0	11.70	1282.0	47.99	SDI E-FIELD
2432.0	91.62	52.72	1195.7	878.0	977.5	1313.9	8.11	1313.9	48.07	SDI E-FIELD
2462.0	89.50	48.00	1195.4	897.1	1000.6	1343.9	17.25	1343.9	48.12	SDI E-FIELD
2491.0	87.88	44.25	1196.1	917.2	1021.5	1372.8	14.08	1372.8	48.08	SDI E-FIELD
2521.0	89.93	42.25	1196.7	939.1	1042.0	1402.7	9.55	1402.7	47.98	SDI E-FIELD
2551.0	92.73	44.31	1196.0	960.9	1062.6	1432.6	11.59	1432.6	47.88	SDI E-FIELD
2581.0	92.56	45.11	1194.6	982.2	1083.7	1462.5	2.72	1462.5	47.81	SDI E-FIELD
2611.0	87.71	46.78	1194.5	1003.0	1105.2	1492.5	17.10	1492.5	47.78	SDI E-FIELD
2641.0	88.45	49.30	1195.5	1023.1	1127.5	1522.5	8.75	1522.5	47.78	SDI E-FIELD
2672.0	91.85	49.82	1195.4	1043.2	1151.1	1553.5	11.10	1553.5	47.82	SDI E-FIELD
2702.0	91.24	49.59	1194.6	1062.6	1174.0	1583.4	2.17	1583.5	47.85	SDI E-FIELD
2733.0	90.84	50.74	1194.1	1082.4	1197.8	1614.4	3.93	1614.4	47.90	SDI E-FIELD
2765.0	91.28	49.26	1193.5	1103.0	1222.3	1646.4	4.82	1646.4	47.94	SDI E-FIELD
2795.0	90.44	48.25	1193.0	1122.8	1244.8	1676.4	4.38	1676.4	47.95	SDI E-FIELD
2826.0	89.36	46.82	1193.1	1143.7	1267.7	1707.4	5.78	1707.4	47.94	SDI E-FIELD
2856.0	89.29	46.26	1193.4	1164.3	1289.5	1737.4	1.88	1737.4	47.92	SDI E-FIELD
2886.0	92.25	48.75	1193.0	1184.6	1311.6	1767.4	12.89	1767.4	47.91	SDI E-FIELD
2916.0	94.01	50.98	1191.4	1203.9	1334.5	1797.3	9.46	1797.3	47.95	SDI E-FIELD
2946.0	94.17	52.17	1189.3	1222.5	1357.9	1827.2	3.99	1827.2	48.00	SDI E-FIELD
2976.0	94.24	50.82	1187.1	1241.1	1381.4	1857.0	4.49	1857.0	48.06	SDI E-FIELD
3006.0	91.34	48.92	1185.6	1260.4	1404.3	1887.0	11.55	1887.0	48.09	SDI E-FIELD
3035.0	87.21	48.44	1186.0	1279.6	1426.0	1916.0	14.34	1916.0	48.10	SDI E-FIELD
3065.0	88.89	50.35	1187.0	1299.1	1448.8	1945.9	8.48	1945.9	48.12	SDI E-FIELD
3095.0	90.94	50.47	1187.0	1318.2	1471.9	1975.9	6.85	1975.9	48.15	SDI E-FIELD



Scientific Drilling Houston

Final Survey Report



Company: EL PASO PRODUCTION
Field: VERMEJO FIELD, NEW MEXICO
Site: RATON (D150)
Well: WELL D-150
Wellpath: LOWER LATERAL

Date: 9/9/2005 Time: 09:43:26 Page: 3
Co-ordinate(NE) Reference: Well: WELL D-150, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,48.00Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

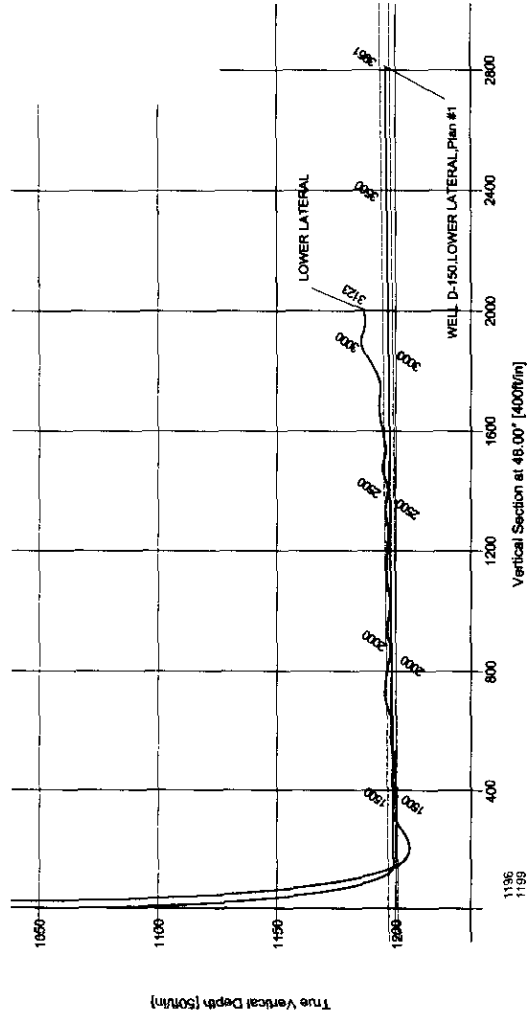
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	ClsD ft	ClsA deg	Tool
3123.0	90.94	50.47	1186.6	1336.0	1493.5	2003.9	0.00	2003.9	48.19	PROJECTED DEPTH



EL PASO PRODUCTION
PATON WELL D-150
LOWER LATERAL
VERMILION FIELD, NEW MEXICO



ALL DEPTHS SHOWN ARE
MEASURED DEPTHS



3960.00' MD - 90.94° INCLINATION - 50.47° AZIMUTH - 1173.00' TVD
1862.96' NORTH - 2132.00' EAST of SURFACE LOCATION
2831.20' CLOSURE DISTANCE - 48.65' CLOSURE AZIMUTH

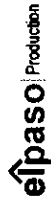
TOP of COAL

BOTTOM of COAL

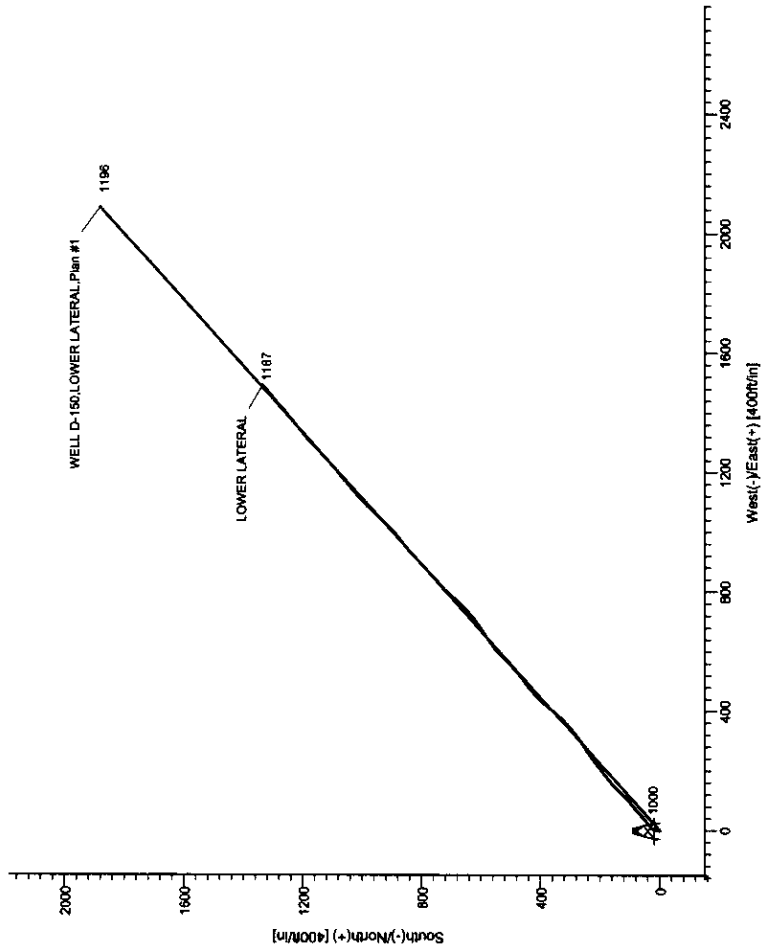
September 9, 2005
281.443
281.443 4800'



EL PASO PRODUCTION
RATON WELL D-150
LOWER LATERAL
VERMILION FIELD, NEW MEXICO



ALL DEPTHS SHOWN ARE
TRUE VERTICAL DEPTHS



3950.00 MD 90.94° INCLINATION 50.47° AZIMUTH 1173.00 TVD
1852.00 NORTH 112.00 EAST 173.00 DEPTH
2831.20 CLOSURE DISTANCE 48.85 CLOSURE AZIMUTH

WELL DETAILS					Latitude	Longitude	Spot
Name	+N/-S	+E/-W	Northing	Easting			
WELL D-150	0.0	0.0	21484.14 82	276987.73	36°54'06.683N	105°05'45.796W	N/A

North Arrow to Grid North
True North 0 deg
Magnetic North 0 deg
Surveyed North 0 deg
Grid North 0 deg
Datum NAD 83
Datum 8.12003
Datum 8.12003
Datum 8.12003

September 9, 2005
Scientific Drilling
201 426 5600