

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. 30-007-20192
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name VPR D
8. Well Number 5
9. OGRID Number 180514
10. Pool name or Wildcat 97046

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 **H** : **1478** feet from the **North** line and **1305** feet from the **East** line
Section **7** Township **30N** Range **18E** NMPM **Colfax** County
Bottom Hole Location: **Unit B, Sec 7, T 30N, R 18E, 50' FSL, 2590' FEL, Colfax County**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
8,471' (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:

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: **Horizontal Lateral** ☒

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.

07/23/05 MIRU Key Rig. LD rods, tubing, and pump.
Set whipstock at 1,664', 319.5° azimuth. Start milling window from 1,665' - 1,671'.
07/30/05 MIRU CAZA Rig. Drill 4 3/4" horizontal lateral to 3,590' TMD, 1,747' TVD.
To 08/03/05 (See attachment for surveys.)
08/02/05 Circulate and clean hole. Run 3 1/2" perforated liner. Top of liner at 1,706'. Bottom of liner at 3,590'.
08/05/05 POOH with whip stock. LDDP.
Clean out with Air Unit. Clean to PBTD at 2,148'.
08/10/05 TIH with 2 7/8" production tubing, insert pump and 3/4" rods.
08/14/05 Put well back on production.

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 NMOC guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE William M. Ordemann TITLE Production Engineer DATE 08/18/05
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: [Signature] TITLE DISTRICT SUPERVISOR DATE 8/26/05
Conditions of Approval (if any): _____



Scientific Drilling Houston

Final Survey Report

el paso Production

Company: EL PASO PRODUCTION
Field: VERMEJO FIELD, NEW MEXICO
Site: RATON (D5)
Well: WELL D-5
Wellpath: LATERAL

Date: 8/9/2005 Time: 08:26:21 Page: 1
Co-ordinate(NE) Reference: Well: WELL D-5, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,318.00Azi)
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 (D5)

SECTION 7, T30N-R18E

Site Position: Northing: 2130317.0935 ft Latitude: 36 51 8.400 N
From: Geographic Easting: 285583.4939 ft Longitude: 105 3 58.260 W
Position Uncertainty: 0.0 ft North Reference: Grid
Ground Level: 6665.0 ft Grid Convergence: -0.44 deg

Well: WELL D-5

Slot Name:

Well Position: +N/-S 0.0 ft Northing: 2130317.0935 ft Latitude: 36 51 8.400 N
+E/-W 0.0 ft Easting: 285583.4939 ft Longitude: 105 3 58.260 W
Position Uncertainty: 0.0 ft

Wellpath: LATERAL

Drilled From: Surface
Tie-on Depth: 0.0 ft
Above System Datum: Mean Sea Level
Declination: 9.41 deg
Mag Dip Angle: 64.22 deg
+E/-W Direction
ft deg

Current Datum: SITE Height 0.0 ft
Magnetic Data: 7/27/2005
Field Strength: 51809 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft

0.0 0.0 0.0 318.00

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	0.44	0.0	0.0	0.0	0.0	0.00	0.0	0.00	TIE LINE
100.0	0.54	291.01	100.0	0.2	-0.4	0.4	0.54	0.5	291.01	SDI Keeper
200.0	1.77	317.62	200.0	1.5	-1.9	2.4	1.31	2.4	307.59	SDI Keeper
300.0	1.82	317.84	299.9	3.8	-4.0	5.5	0.05	5.5	313.31	SDI Keeper
400.0	1.71	332.09	399.9	6.3	-5.8	8.6	0.45	8.6	317.37	SDI Keeper
500.0	1.40	346.29	499.8	8.8	-6.8	11.1	0.49	11.1	322.38	SDI Keeper
600.0	1.48	339.95	599.8	11.2	-7.5	13.3	0.18	13.5	326.14	SDI Keeper
700.0	1.48	0.77	699.8	13.7	-7.9	15.5	0.53	15.8	329.92	SDI Keeper
800.0	1.26	357.98	799.8	16.1	-8.0	17.3	0.23	18.0	333.68	SDI Keeper
900.0	1.22	355.55	899.7	18.3	-8.1	19.0	0.07	20.0	336.12	SDI Keeper
1000.0	0.98	10.13	999.7	20.2	-8.0	20.3	0.37	21.7	338.32	SDI Keeper
1100.0	0.98	351.91	1099.7	21.8	-8.0	21.6	0.31	23.3	339.93	SDI Keeper
1200.0	1.23	4.52	1199.7	23.8	-8.0	23.0	0.35	25.1	341.35	SDI Keeper
1300.0	0.95	16.55	1299.7	25.6	-7.7	24.2	0.36	26.8	343.28	SDI Keeper
1400.0	0.68	26.02	1399.6	27.0	-7.2	24.8	0.30	27.9	345.04	SDI Keeper
1500.0	1.17	21.72	1499.6	28.4	-6.6	25.5	0.49	29.2	347.00	SDI Keeper
1600.0	0.99	356.39	1599.6	30.2	-6.2	26.7	0.51	30.9	348.34	SDI Keeper
1645.0	1.19	2.98	1644.6	31.1	-6.2	27.3	0.52	31.7	348.66	SDI Keeper
1681.0	7.15	318.00	1680.5	33.1	-7.7	29.8	17.68	34.0	346.89	SDI E-FIELD
1711.0	21.53	318.85	1709.5	38.7	-12.6	37.2	47.94	40.7	341.94	SDI E-FIELD
1740.0	33.48	311.28	1735.2	48.0	-22.2	50.5	42.86	52.9	335.22	SDI E-FIELD
1771.0	43.51	304.91	1759.4	59.8	-37.4	69.5	34.76	70.5	327.99	SDI E-FIELD
1801.0	54.63	312.58	1779.1	74.0	-54.9	91.8	41.75	92.2	323.43	SDI E-FIELD
1831.0	67.62	310.78	1793.5	91.5	-74.5	117.8	43.61	118.0	320.82	SDI E-FIELD
1859.0	79.91	310.67	1801.3	109.0	-94.9	144.5	43.89	144.5	318.96	SDI E-FIELD
1891.0	92.79	312.68	1803.4	130.2	-118.7	176.1	40.73	176.1	317.64	SDI E-FIELD
1922.0	92.02	310.47	1802.1	150.7	-141.8	206.9	7.54	207.0	316.74	SDI E-FIELD
1952.0	91.01	310.68	1801.3	170.2	-164.6	236.6	3.44	236.8	315.96	SDI E-FIELD



Scientific Drilling Houston

Final Survey Report



Company: EL PASO PRODUCTION
Field: VERMEJO FIELD, NEW MEXICO
Site: RATON (D5)
Well: WELL D-5
Wellpath: LATERAL

Date: 8/9/2005 Time: 08:26:21 Page: 2
Co-ordinate(NE) Reference: Well: WELL D-5, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,318.00Azi)
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
1984.0	90.30	317.82	1800.9	192.5	-187.5	268.5	22.42	268.8	315.76	SDI E-FIELD
2014.0	90.87	318.03	1800.6	214.8	-207.6	298.5	2.02	298.7	315.97	SDI E-FIELD
2044.0	92.39	315.06	1799.7	236.6	-228.2	328.5	11.12	328.7	316.03	SDI E-FIELD
2075.0	92.99	316.89	1798.3	258.8	-249.8	359.5	6.21	359.7	316.02	SDI E-FIELD
2104.0	90.40	319.61	1797.4	280.4	-269.1	388.4	12.95	388.6	316.19	SDI E-FIELD
2134.0	89.29	317.97	1797.5	303.0	-288.8	418.4	6.60	418.6	316.37	SDI E-FIELD
2166.0	96.78	319.05	1795.8	326.9	-310.0	450.4	23.65	450.5	316.53	SDI E-FIELD
2198.0	93.57	319.63	1792.9	351.1	-330.7	482.2	10.19	482.4	316.71	SDI E-FIELD
2227.0	89.19	320.01	1792.2	373.3	-349.4	511.2	15.16	511.3	316.89	SDI E-FIELD
2259.0	94.98	324.86	1791.1	398.6	-368.9	543.1	23.59	543.1	317.21	SDI E-FIELD
2289.0	92.82	324.85	1789.0	423.1	-386.2	572.8	7.20	572.8	317.61	SDI E-FIELD
2320.0	91.98	325.63	1787.7	448.5	-403.8	603.5	3.70	603.5	318.00	SDI E-FIELD
2350.0	88.18	323.71	1787.7	473.0	-421.2	633.3	14.19	633.3	318.32	SDI E-FIELD
2380.0	89.60	320.65	1788.3	496.7	-439.5	663.2	11.24	663.2	318.49	SDI E-FIELD
2409.0	92.69	321.68	1787.7	519.2	-457.7	692.1	11.23	692.2	318.60	SDI E-FIELD
2439.0	92.05	320.27	1786.4	542.5	-476.6	722.1	5.16	722.1	318.70	SDI E-FIELD
2471.0	88.79	316.84	1786.2	566.5	-497.8	754.1	14.79	754.1	318.70	SDI E-FIELD
2502.0	88.32	318.32	1787.0	589.4	-518.7	785.1	5.01	785.1	318.65	SDI E-FIELD
2533.0	90.61	319.31	1787.3	612.7	-539.1	816.1	8.05	816.1	318.66	SDI E-FIELD
2563.0	91.35	319.66	1786.8	635.5	-558.6	846.0	2.73	846.1	318.69	SDI E-FIELD
2594.0	91.85	321.17	1785.9	659.4	-578.3	877.0	5.13	877.1	318.75	SDI E-FIELD
2624.0	92.02	318.79	1784.9	682.4	-597.6	907.0	7.95	907.0	318.79	SDI E-FIELD
2656.0	91.28	320.82	1784.0	706.8	-618.2	938.9	6.75	939.0	318.82	SDI E-FIELD
2685.0	91.82	318.78	1783.2	728.9	-637.0	967.9	7.27	968.0	318.85	SDI E-FIELD
2715.0	94.98	319.06	1781.4	751.5	-656.6	997.8	10.57	998.0	318.85	SDI E-FIELD
2745.0	95.05	317.39	1778.8	773.8	-676.5	1027.7	5.55	1027.8	318.84	SDI E-FIELD
2774.0	94.68	318.84	1776.3	795.3	-695.8	1056.6	5.14	1056.7	318.82	SDI E-FIELD
2804.0	93.91	319.05	1774.1	817.9	-715.5	1086.5	2.66	1086.6	318.82	SDI E-FIELD
2836.0	92.66	316.88	1772.2	841.6	-736.9	1118.5	7.82	1118.6	318.80	SDI E-FIELD
2867.0	91.82	315.87	1771.0	864.0	-758.2	1149.4	4.24	1149.5	318.73	SDI E-FIELD
2897.0	91.48	316.44	1770.2	885.6	-779.0	1179.4	2.21	1179.5	318.66	SDI E-FIELD
2926.0	90.61	316.10	1769.6	906.6	-799.1	1208.4	3.22	1208.5	318.61	SDI E-FIELD
2956.0	91.61	318.97	1769.1	928.7	-819.3	1238.4	10.13	1238.4	318.58	SDI E-FIELD
2986.0	89.39	317.57	1768.8	951.1	-839.3	1268.4	8.75	1268.4	318.57	SDI E-FIELD
3016.0	88.49	316.48	1769.4	973.0	-859.7	1298.4	4.71	1298.4	318.54	SDI E-FIELD
3046.0	92.09	316.23	1769.2	994.7	-880.4	1328.3	12.03	1328.4	318.49	SDI E-FIELD
3075.0	93.84	316.38	1767.7	1015.7	-900.4	1357.3	6.06	1357.3	318.44	SDI E-FIELD
3105.0	93.20	316.36	1765.9	1037.4	-921.1	1387.2	2.13	1387.3	318.40	SDI E-FIELD
3135.0	88.55	316.22	1765.4	1059.0	-941.8	1417.2	15.51	1417.2	318.35	SDI E-FIELD
3164.0	89.73	315.77	1765.8	1079.9	-961.9	1446.2	4.35	1446.2	318.31	SDI E-FIELD
3194.0	92.15	316.23	1765.3	1101.5	-982.8	1476.2	8.21	1476.2	318.26	SDI E-FIELD
3224.0	91.31	316.00	1764.4	1123.1	-1003.6	1506.1	2.90	1506.1	318.22	SDI E-FIELD
3254.0	92.72	316.12	1763.4	1144.7	-1024.4	1536.1	4.72	1536.1	318.17	SDI E-FIELD
3284.0	94.98	317.50	1761.4	1166.5	-1044.9	1566.0	8.82	1566.0	318.15	SDI E-FIELD
3313.0	94.01	317.39	1759.1	1187.8	-1064.4	1594.9	3.37	1594.9	318.14	SDI E-FIELD
3343.0	89.87	316.62	1758.1	1209.7	-1084.9	1624.9	14.04	1624.9	318.11	SDI E-FIELD
3375.0	90.44	317.50	1758.0	1233.1	-1106.7	1656.9	3.28	1656.9	318.09	SDI E-FIELD
3407.0	91.41	315.73	1757.5	1256.4	-1128.6	1688.9	6.31	1688.9	318.07	SDI E-FIELD
3436.0	93.30	314.18	1756.3	1276.9	-1149.1	1717.8	8.43	1717.8	318.01	SDI E-FIELD
3466.0	94.24	315.93	1754.3	1298.0	-1170.3	1747.7	6.61	1747.7	317.96	SDI E-FIELD
3497.0	93.67	318.09	1752.2	1320.7	-1191.4	1778.6	7.19	1778.6	317.95	SDI E-FIELD
3529.0	93.40	319.45	1750.2	1344.7	-1212.4	1810.6	4.33	1810.6	317.96	SDI E-FIELD



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Final Survey Report



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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
3559.0	93.23	320.15	1748.5	1367.6	-1231.7	1840.5	2.40	1840.5	317.99	SDI E-FIELD
3590.0	93.23	320.15	1746.7	1391.3	-1251.6	1871.4	0.00	1871.4	318.03	PROJECTED DEPTH

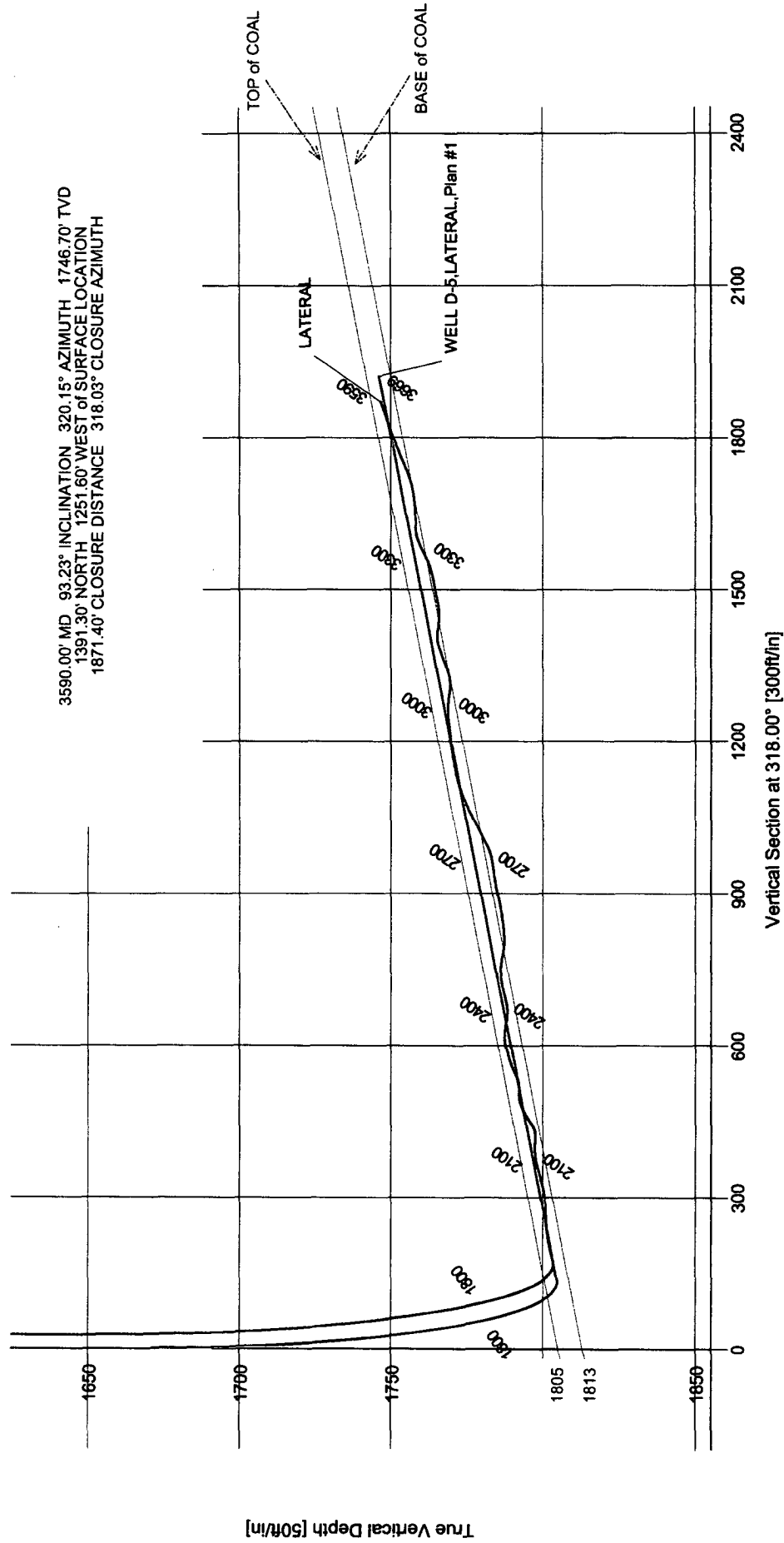
EL PASO PRODUCTION

RATON WELL D-5
LATERAL
VERMEJO FIELD, NEW MEXICO



ALL DEPTHS SHOWN ARE
MEASURED DEPTHS

3590.00' MD 93.23° INCLINATION 320.15° AZIMUTH 1746.70' TVD
1391.30' NORTH 1251.60' WEST of SURFACE LOCATION
1871.40' CLOSURE DISTANCE 318.03° CLOSURE AZIMUTH





Scientific Drilling

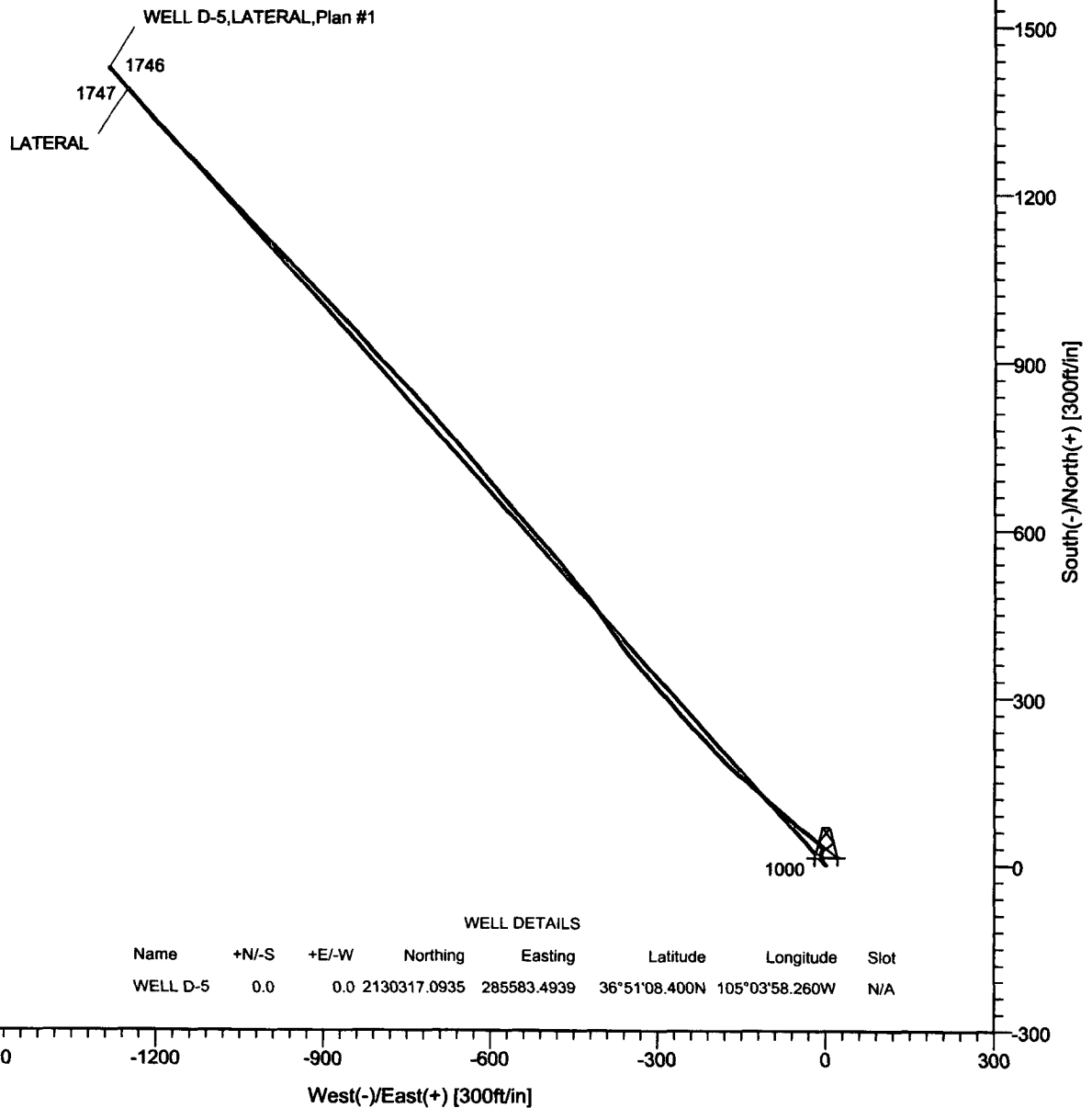
EL PASO PRODUCTION

RATON WELL D-5
LATERAL
VERMEJO FIELD, NEW MEXICO



3590.00' MD 93.23° INCLINATION 320.15° AZIMUTH 1746.70' TVD
1391.30' NORTH 1251.60' WEST of SURFACE LOCATION
1871.40' CLOSURE DISTANCE 318.03° CLOSURE AZIMUTH

ALL DEPTHS SHOWN ARE
TRUE VERTICAL DEPTHS



Azimuths to Grid North
True North: 0.44°
Magnetic North: 9.85°

Magnetic Field
Strength: 51809nT
Dip Angle: 64.22°
Date: 7/27/2005
Model: igr2005

August 8, 2005
Scientific Drilling
281.443.4600