

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

FEB 07 2005

WELL API NO. 30-007-20384
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 96
9. OGRID Number 180514
10. Pool name or Wildcat

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 **N** : **480** feet from the **South** line and **1597** feet from the **West** line
Section **35** Township **31N** Range **17E** NMPM **Colfax** County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
8,205' (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.

12-01-04 MIRU Key – Rig 5. LD rods, tubing, and pump.
01-07-05 MIRU Encore Rig #232.
01-08-05 NU BOP and test. RU Gyro. Orientate whipstock to 25.2° azimuth.
Set whip stock bottom of window at 1,378' and top of window at 1,372'.
Drill 109'. Curve not building. Contact supervisor and wait on orders.
01-10-05 POOH Set wipstock. Cut 2nd window at 1,330' – 1,336'.
Drill 4 3/4" horizontal lateral to 3,660' TMD. (See attachment for surveys.)
01-19-05 Clean out hole. Run 3 1/2" perforated liner to 3,630'. Liner top at 1,374'.
POOH with whip stock. LDDP.
01-23-05 Acid work. Start clean out. Tag sand at 1,678'. Unload hole with air. Clean to PBTD 1,708'.
01-24-05 TIH with 2 7/8" production tubing with SN at 1,557'. TIH with 1 3/4" insert pump and 3/4" rods.
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 NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE William M. Ordemann TITLE Production Engineer DATE 02/02/05
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 2/8/05
Conditions of Approval (if any):



Scientific Drilling Houston

Final Survey Report



Company: EL PASO PRODUCTION
Field: VERMEJO FIELD, NEW MEXICO
Site: RATON (D96)
Well: WELL D-96
Wellpath: LATERAL

Date: 2/1/2005 Time: 15:08:23 Page: 1
Co-ordinate(NE) Reference: Well: WELL D-96, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,25.20Azi)
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: Wmm_2000

Site: RATON (D96)

Site Position: Northing: 2137648.7522 ft Latitude: 36 52 19.890 N
From: Geographic Easting: 272727.1699 ft Longitude: 105 6 37.170 W
Position Uncertainty: 0.0 ft North Reference: Grid
Ground Level: 8205.0 ft Grid Convergence: -0.47 deg

Well: WELL D-96

Slot Name:

Well Position: +N/-S 0.0 ft Northing: 2137648.7522 ft Latitude: 36 52 19.890 N
+E/-W 0.0 ft Easting: 272727.1699 ft Longitude: 105 6 37.170 W
Position Uncertainty: 0.0 ft

Wellpath: LATERAL

Current Datum: SITE Height 0.0 ft
Magnetic Data: 11/18/2004
Field Strength: 52019 nT
Vertical Section: Depth From (TVD) +N/-S ft
Drilled From: Surface
Tie-on Depth: 0.0 ft
Above System Datum: Mean Sea Level
Declination: 9.65 deg
Mag Dip Angle: 64.30 deg
+E/-W ft Direction deg
0.0 0.0 0.0 25.20

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	0.39	250.87	100.0	-0.1	-0.3	-0.2	0.39	0.3	250.87	GEO GYRO ORIENTATION
200.0	0.46	227.02	200.0	-0.5	-0.9	-0.8	0.19	1.1	242.06	GEO GYRO ORIENTATION
300.0	0.98	246.79	300.0	-1.1	-2.0	-1.9	0.57	2.3	241.22	GEO GYRO ORIENTATION
400.0	1.03	246.61	400.0	-1.8	-3.6	-3.2	0.05	4.0	243.59	GEO GYRO ORIENTATION
500.0	0.73	255.20	500.0	-2.3	-5.1	-4.3	0.33	5.6	245.40	GEO GYRO ORIENTATION
600.0	0.76	262.67	600.0	-2.6	-6.3	-5.0	0.10	6.8	247.95	GEO GYRO ORIENTATION
700.0	0.91	266.95	699.9	-2.7	-7.8	-5.8	0.16	8.2	250.92	GEO GYRO ORIENTATION
800.0	1.17	278.05	799.9	-2.6	-9.6	-6.4	0.33	9.9	254.87	GEO GYRO ORIENTATION
900.0	1.33	281.56	899.9	-2.2	-11.7	-7.0	0.18	12.0	259.30	GEO GYRO ORIENTATION
1000.0	1.42	280.81	999.9	-1.8	-14.1	-7.6	0.09	14.2	262.91	GEO GYRO ORIENTATION
1100.0	1.37	275.43	1099.8	-1.4	-16.5	-8.3	0.14	16.6	265.12	GEO GYRO ORIENTATION
1200.0	1.29	271.15	1199.8	-1.3	-18.8	-9.2	0.13	18.9	266.13	GEO GYRO ORIENTATION
1300.0	1.12	288.10	1299.8	-0.9	-20.9	-9.7	0.39	20.9	267.40	GEO GYRO ORIENTATION
1336.0	1.42	285.17	1335.8	-0.7	-21.6	-9.9	0.85	21.7	268.09	GEO GYRO ORIENTATION
1340.0	1.52	285.00	1339.8	-0.7	-21.7	-9.9	2.50	21.8	268.17	SDI E-FIELD
1369.0	10.56	333.91	1368.6	1.8	-23.3	-8.3	33.20	23.4	274.42	SDI E-FIELD
1385.0	17.65	336.61	1384.1	5.3	-24.9	-5.8	44.49	25.5	282.12	SDI E-FIELD
1400.0	24.06	334.30	1398.1	10.2	-27.1	-2.3	43.08	29.0	290.60	SDI E-FIELD
1418.0	31.76	343.50	1414.0	18.1	-30.1	3.5	48.90	35.1	300.99	SDI E-FIELD
1431.0	35.60	349.75	1424.8	25.1	-31.7	9.2	39.76	40.4	308.32	SDI E-FIELD
1445.0	40.51	359.54	1435.9	33.6	-32.5	16.6	55.48	46.8	316.01	SDI E-FIELD
1462.0	42.54	7.46	1448.6	44.9	-31.8	27.1	33.09	55.0	324.69	SDI E-FIELD
1477.0	46.23	16.37	1459.3	55.1	-29.6	37.3	48.24	62.5	331.77	SDI E-FIELD
1494.0	47.59	25.78	1471.0	66.7	-25.1	49.6	41.18	71.2	339.35	SDI E-FIELD
1509.0	53.06	30.83	1480.5	76.8	-19.6	61.1	44.72	79.3	345.66	SDI E-FIELD
1525.0	59.05	31.72	1489.5	88.1	-12.7	74.3	37.72	89.1	351.77	SDI E-FIELD
1567.0	78.25	27.61	1504.7	122.0	6.4	113.1	46.60	122.2	3.02	SDI E-FIELD



Scientific Drilling Houston

Final Survey Report



Company: EL PASO PRODUCTION
Field: VERMEJO FIELD, NEW MEXICO
Site: RATON (D96)
Well: WELL D-96
Wellpath: LATERAL

Date: 2/1/2005 Time: 15:08:23 Page: 2
Co-ordinate(NE) Reference: Well: WELL D-96, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,25.20Azi)
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
1586.0	86.00	25.33	1507.3	138.8	14.8	131.9	42.48	139.6	6.09	SDI E-FIELD
1616.0	89.63	26.48	1508.4	165.8	27.9	161.9	12.69	168.1	9.56	SDI E-FIELD
1647.0	91.65	28.33	1508.1	193.3	42.2	192.9	8.84	197.9	12.31	SDI E-FIELD
1678.0	93.80	30.53	1506.6	220.3	57.4	223.8	9.92	227.6	14.60	SDI E-FIELD
1710.0	91.61	33.38	1505.1	247.4	74.3	255.5	11.22	258.3	16.72	SDI E-FIELD
1742.0	89.73	34.70	1504.7	273.9	92.2	287.1	7.18	289.0	18.61	SDI E-FIELD
1772.0	89.76	36.41	1504.9	298.3	109.7	316.6	5.70	317.8	20.18	SDI E-FIELD
1803.0	91.01	38.55	1504.7	322.9	128.5	346.9	7.99	347.6	21.70	SDI E-FIELD
1834.0	90.87	38.44	1504.2	347.2	147.8	377.1	0.57	377.3	23.06	SDI E-FIELD
1866.0	91.91	40.19	1503.4	371.9	168.1	408.1	6.36	408.1	24.32	SDI E-FIELD
1896.0	93.03	43.29	1502.1	394.3	188.0	436.8	10.98	436.8	25.50	SDI E-FIELD
1927.0	93.06	41.91	1500.4	417.1	209.0	466.4	4.45	466.5	26.61	SDI E-FIELD
1959.0	90.67	39.66	1499.4	441.3	229.9	497.2	10.25	497.6	27.52	SDI E-FIELD
1990.0	91.28	38.67	1498.9	465.3	249.5	527.2	3.75	528.0	28.20	SDI E-FIELD
2021.0	92.32	37.94	1497.9	489.6	268.7	557.4	4.10	558.5	28.75	SDI E-FIELD
2052.0	92.62	36.32	1496.6	514.3	287.4	587.7	5.31	589.2	29.19	SDI E-FIELD
2083.0	91.01	33.68	1495.6	539.7	305.1	618.3	9.97	620.0	29.48	SDI E-FIELD
2115.0	89.70	33.09	1495.4	566.4	322.7	649.9	4.49	651.9	29.67	SDI E-FIELD
2146.0	89.66	31.91	1495.5	592.6	339.4	680.7	3.81	682.9	29.80	SDI E-FIELD
2178.0	89.33	29.01	1495.8	620.1	355.6	712.5	9.12	714.9	29.83	SDI E-FIELD
2209.0	89.76	26.71	1496.1	647.6	370.1	743.5	7.55	745.8	29.75	SDI E-FIELD
2241.0	86.73	25.71	1497.1	676.2	384.2	775.5	9.97	777.8	29.60	SDI E-FIELD
2272.0	88.22	23.13	1498.4	704.4	397.0	806.4	9.60	808.6	29.41	SDI E-FIELD
2303.0	92.02	21.79	1498.4	733.1	408.9	837.4	13.00	839.4	29.15	SDI E-FIELD
2334.0	94.61	19.69	1496.6	762.0	419.8	868.2	10.75	870.0	28.85	SDI E-FIELD
2366.0	94.61	15.86	1494.0	792.4	429.6	899.9	11.93	901.3	28.46	SDI E-FIELD
2397.0	91.51	14.60	1492.3	822.3	437.7	930.4	10.79	931.5	28.03	SDI E-FIELD
2429.0	89.40	13.32	1492.1	853.3	445.4	961.7	7.71	962.6	27.56	SDI E-FIELD
2461.0	88.28	15.12	1492.7	884.3	453.3	993.1	6.62	993.7	27.14	SDI E-FIELD
2492.0	90.27	16.29	1493.1	914.2	461.6	1023.7	7.45	1024.1	26.79	SDI E-FIELD
2523.0	93.30	17.67	1492.2	943.8	470.7	1054.4	10.74	1054.6	26.51	SDI E-FIELD
2554.0	91.41	18.59	1490.9	973.2	480.3	1085.1	6.78	1085.3	26.27	SDI E-FIELD
2586.0	92.82	21.04	1489.7	1003.3	491.2	1116.9	8.83	1117.1	26.08	SDI E-FIELD
2618.0	90.74	23.53	1488.7	1032.9	503.3	1148.9	10.14	1149.0	25.98	SDI E-FIELD
2649.0	89.87	24.87	1488.5	1061.2	516.0	1179.9	5.15	1180.0	25.93	SDI E-FIELD
2680.0	93.10	23.31	1487.7	1089.5	528.7	1210.9	11.57	1210.9	25.88	SDI E-FIELD
2711.0	93.56	21.51	1485.9	1118.1	540.5	1241.8	5.98	1241.8	25.80	SDI E-FIELD
2742.0	90.27	22.17	1484.9	1146.8	552.0	1272.7	10.82	1272.7	25.70	SDI E-FIELD
2773.0	89.13	24.02	1485.1	1175.3	564.1	1303.7	7.01	1303.7	25.64	SDI E-FIELD
2804.0	89.46	27.01	1485.4	1203.3	577.5	1334.7	9.70	1334.7	25.64	SDI E-FIELD
2835.0	92.25	28.72	1485.0	1230.7	592.0	1365.6	10.56	1365.7	25.69	SDI E-FIELD
2867.0	95.32	28.72	1482.9	1258.7	607.3	1397.5	9.59	1397.6	25.76	SDI E-FIELD
2898.0	96.36	25.11	1479.7	1286.2	621.3	1428.3	12.06	1428.4	25.78	SDI E-FIELD
2929.0	93.12	22.92	1477.2	1314.4	633.8	1459.2	12.60	1459.3	25.74	SDI E-FIELD
2960.0	90.10	21.99	1476.3	1343.0	645.7	1490.1	10.19	1490.2	25.68	SDI E-FIELD
2991.0	92.02	21.66	1475.7	1371.8	657.2	1521.1	6.28	1521.1	25.60	SDI E-FIELD
3022.0	88.35	24.08	1475.6	1400.4	669.2	1552.0	14.18	1552.1	25.54	SDI E-FIELD
3053.0	86.53	26.00	1477.0	1428.4	682.4	1583.0	8.53	1583.0	25.53	SDI E-FIELD
3085.0	89.70	28.05	1478.0	1456.9	696.9	1615.0	11.79	1615.0	25.56	SDI E-FIELD
3116.0	92.93	30.06	1477.3	1484.0	711.9	1645.9	12.27	1645.9	25.63	SDI E-FIELD
3147.0	94.45	27.68	1475.3	1511.1	726.9	1676.8	9.10	1676.8	25.69	SDI E-FIELD
3178.0	95.39	24.35	1472.7	1538.8	740.4	1707.6	11.12	1707.7	25.69	SDI E-FIELD



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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
3209.0	92.92	22.15	1470.4	1567.2	752.6	1738.5	10.66	1738.6	25.65	SDI E-FIELD
3240.0	92.42	19.53	1469.0	1596.2	763.6	1769.4	8.60	1769.4	25.57	SDI E-FIELD
3271.0	89.29	20.01	1468.5	1625.3	774.1	1800.3	10.21	1800.3	25.47	SDI E-FIELD
3302.0	87.95	22.13	1469.3	1654.3	785.3	1831.2	8.09	1831.2	25.39	SDI E-FIELD
3333.0	88.42	24.25	1470.3	1682.7	797.5	1862.1	7.00	1862.1	25.36	SDI E-FIELD
3365.0	89.13	25.32	1470.9	1711.8	810.9	1894.1	4.01	1894.1	25.35	SDI E-FIELD
3396.0	90.94	25.80	1470.9	1739.7	824.2	1925.1	6.04	1925.1	25.35	SDI E-FIELD
3427.0	90.20	26.58	1470.6	1767.6	837.9	1956.1	3.47	1956.1	25.36	SDI E-FIELD
3459.0	89.29	28.48	1470.8	1795.9	852.7	1988.1	6.58	1988.1	25.40	SDI E-FIELD
3491.0	93.06	28.91	1470.1	1824.0	868.1	2020.0	11.86	2020.0	25.45	SDI E-FIELD
3522.0	92.92	28.08	1468.5	1851.2	882.8	2050.9	2.71	2050.9	25.50	SDI E-FIELD
3553.0	90.40	29.36	1467.6	1878.4	897.7	2081.8	9.12	2081.9	25.54	SDI E-FIELD
3584.0	90.71	29.26	1467.3	1905.4	912.9	2112.8	1.05	2112.8	25.60	SDI E-FIELD
3616.0	93.26	29.49	1466.2	1933.3	928.6	2144.7	8.00	2144.7	25.66	SDI E-FIELD
3630.0	93.23	29.94	1465.4	1945.4	935.5	2158.6	3.22	2158.7	25.68	SDI E-FIELD
3660.0	93.23	29.94	1463.7	1971.4	950.5	2188.4	0.00	2188.5	25.74	PROJECTED DEPTH

EL PASO PRODUCTION

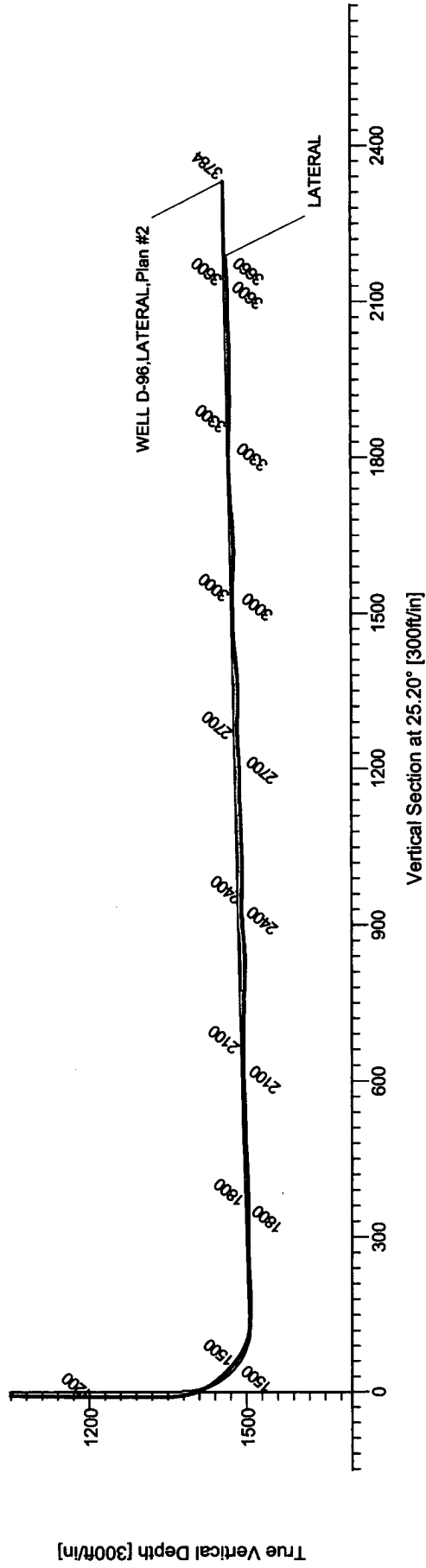


RATON WELL D-96
LATERAL
VERMEJO FIELD, NEW MEXICO



ALL DEPTHS SHOWN ARE
MEASURED DEPTHS

3660.00' MD 93.23° INCLINATION 29.94° AZIMUTH 1463.70' TVD
1971.40' NORTH 950.50' EAST OF SURFACE LOCATION
2188.40' CLOSURE DISTANCE 2574° CLOSURE AZIMUTH





Scientific Drilling

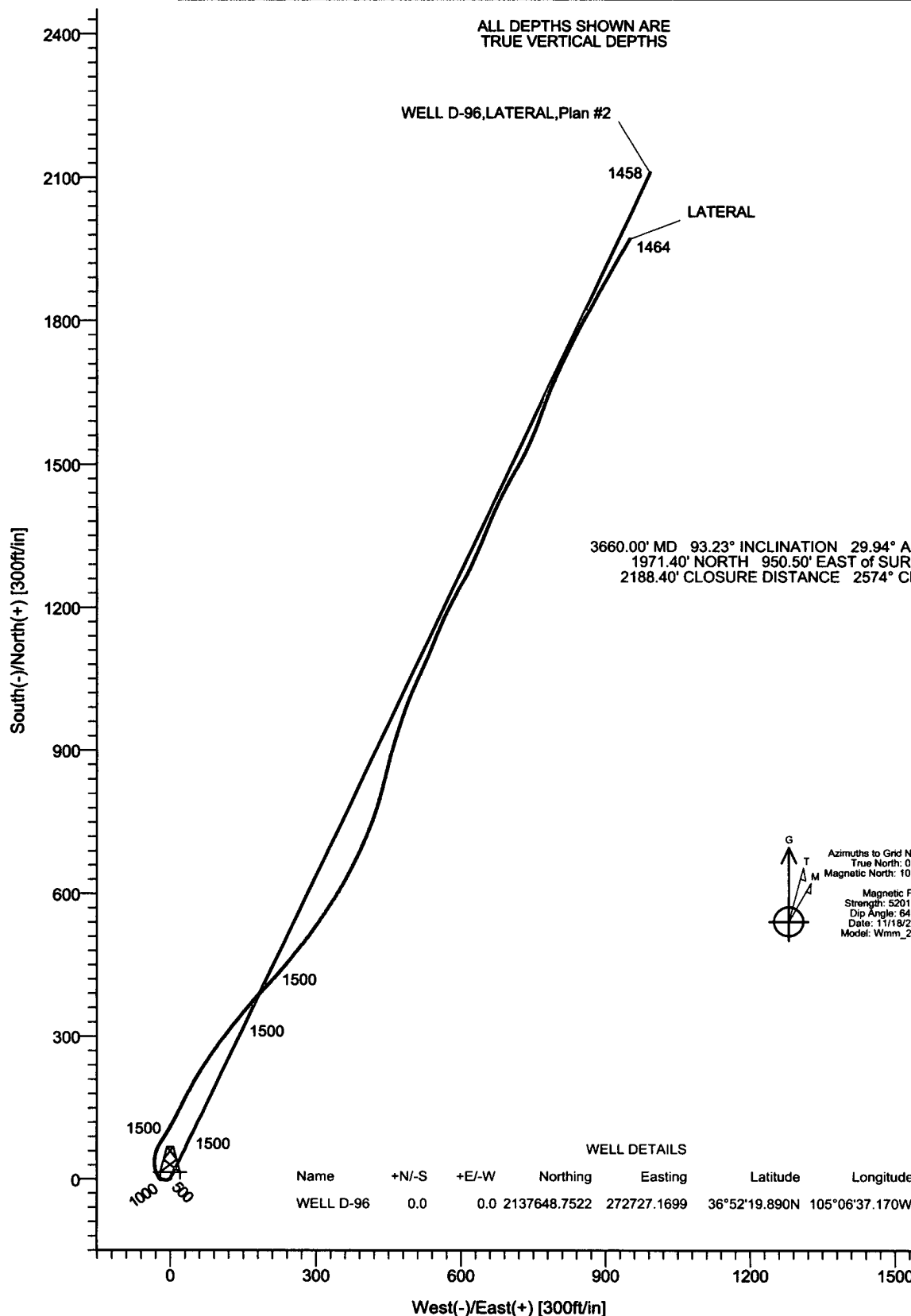
EL PASO PRODUCTION

RATON WELL D-96
LATERAL
VERMEJO FIELD, NEW MEXICO

el paso Production

ALL DEPTHS SHOWN ARE
TRUE VERTICAL DEPTHS

WELL D-96,LATERAL,Plan #2



February 1, 2005
Scientific Drilling
281.443.4600