

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. 30-007-20390
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.

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.)		7. Lease Name or Unit Agreement Name VPR D
1. Type of Well: Oil Well ☐ Gas Well ☒ Other COALBED METHANE		8. Well Number 103
2. Name of Operator EL PASO ENERGY RATON, L.L.C.		9. OGRID Number 180514
3. Address of Operator PO BOX 190, RATON, NM 87740		10. Pool name or Wildcat
4. Well Location Unit Letter F : 1611 feet from the North line and 1458 feet from the West line Section 11 Township 30N Range 17E NMPM Colfax County Bottom Hole Location: Unit D, Sec 11, T 30N, R 17E, 50' FNL, 2590' FWL, Colfax		
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 8,456' (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 ☒	

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.

04/19/05 MIRU Key Rig. LD rods, tubing, and pump. Made a scraper run.
Set whipstock at 1,851' to 1,864'. Mill window from 1,851' to 1,857'.
04/23/05 MIRU CAZA Rig. Drill 4 3/4" horizontal lateral to 3,802' TMD, 1,942' TVD.
To 04/30/05 (See attachment for surveys.)
04/30/05 Circulate and clean hole. Run 3 1/2" perforated liner. Top of liner at 1,877'. Bottom of liner at 3,789'.
05/21/05 Fish out whip stock. Clean out well bore with air unit to PBTD at 2,178'.
TIH with 2 7/8" production tubing, rods, and insert pump.
05/13/05 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 06/20/05
Type or print name William M. Ordemann E-mail address: bill.ordemann@elpaso.com Telephone No. (505) 445-6724

For State Use Only

APPROVED BY: [Signature] TITLE DISTRICT SUPERVISOR DATE 7/6/05
Conditions of Approval (if any):



Scientific Drilling Houston

Final Survey Report

el paso Production

Company: EL PASO PRODUCTION Date: 5/6/2005 Time: 09:32:27 Page: 1
Field: VERMEJO FIELD, NEW MEXICO Co-ordinate(NE) Reference: Well: WELL D-103, Grid North
Site: RATON (D103) Vertical (TVD) Reference: SITE 0.0
Well: WELL D-103 Section (VS) Reference: Well (0.00N,0.00E,35.95Azi)
Wellpath: 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 (D103)

Site Position: Northing: 2130292.9326 ft Latitude: 36 51 7.140 N
From: Map Easting: 272520.5352 ft Longitude: 105 6 38.976 W
Position Uncertainty: 0.0 ft North Reference: Grid
Ground Level: 8456.0 ft Grid Convergence: -0.47 deg

Well: WELL D-103

Slot Name:

Well Position: +N/-S 0.0 ft Northing: 2130292.9326 ft Latitude: 36 51 7.140 N
+E/-W 0.0 ft Easting: 272520.5352 ft Longitude: 105 6 38.976 W
Position Uncertainty: 0.0 ft

Wellpath: LATERAL

Current Datum: SITE Height 0.0 ft Drilled From: Surface
Magnetic Data: 4/18/2005 Tie-on Depth: 0.0 ft
Field Strength: 51831 nT Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 9.47 deg
ft ft ft deg
0.0 0.0 0.0 35.95

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	0.47	0.0	0.0	0.0	0.0	0.00	0.0	0.00	TIE LINE
100.0	0.99	101.13	100.0	-0.2	0.8	0.4	0.99	0.9	101.13	SDI GYRO
200.0	2.02	41.31	200.0	1.0	2.9	2.5	1.75	3.0	70.89	SDI GYRO
300.0	2.76	22.33	299.9	4.5	4.9	6.6	1.07	6.7	47.39	SDI GYRO
400.0	3.02	23.24	399.8	9.2	6.9	11.5	0.26	11.5	36.87	SDI GYRO
500.0	2.41	23.54	499.6	13.5	8.8	16.1	0.61	16.1	32.94	SDI GYRO
600.0	2.51	22.92	599.5	17.5	10.5	20.3	0.10	20.4	30.90	SDI GYRO
700.0	2.05	23.12	699.5	21.1	12.0	24.2	0.46	24.3	29.61	SDI GYRO
800.0	1.95	11.81	799.4	24.5	13.1	27.5	0.41	27.7	28.12	SDI GYRO
900.0	1.51	6.41	899.4	27.4	13.6	30.2	0.47	30.6	26.31	SDI GYRO
1000.0	1.54	21.21	999.3	30.0	14.2	32.6	0.39	33.2	25.33	SDI GYRO
1100.0	1.57	14.01	1099.3	32.6	15.0	35.2	0.20	35.9	24.75	SDI GYRO
1200.0	1.73	17.86	1199.2	35.3	15.8	37.9	0.19	38.7	24.10	SDI GYRO
1300.0	1.74	11.07	1299.2	38.3	16.6	40.7	0.21	41.7	23.41	SDI GYRO
1400.0	1.70	9.73	1399.2	41.2	17.1	43.4	0.06	44.6	22.54	SDI GYRO
1500.0	1.53	1.44	1499.1	44.0	17.4	45.8	0.29	47.3	21.56	SDI GYRO
1600.0	1.48	3.51	1599.1	46.6	17.5	48.0	0.07	49.8	20.57	SDI GYRO
1700.0	1.17	8.01	1699.1	48.9	17.7	50.0	0.33	52.0	19.91	SDI GYRO
1800.0	1.30	5.00	1799.0	51.1	18.0	51.9	0.15	54.1	19.38	SDI GYRO
1831.0	1.25	354.10	1830.0	51.8	18.0	52.5	0.80	54.8	19.14	SDI GYRO
1861.0	5.63	36.00	1860.0	53.3	18.8	54.2	15.91	56.5	19.43	SDI E-FIELD
1874.0	11.55	31.17	1872.8	54.9	19.8	56.1	45.84	58.4	19.87	SDI E-FIELD
1905.0	29.48	36.90	1901.7	63.7	26.1	66.9	58.13	68.9	22.25	SDI E-FIELD
1937.0	43.19	46.56	1927.5	77.6	38.8	85.7	46.31	86.8	26.57	SDI E-FIELD
1969.0	55.10	41.21	1948.4	95.1	55.5	109.6	39.28	110.1	30.26	SDI E-FIELD
2000.0	60.10	40.33	1965.0	114.9	72.6	135.7	16.31	135.9	32.27	SDI E-FIELD
2032.0	60.20	40.99	1980.9	136.0	90.7	163.3	1.82	163.4	33.69	SDI E-FIELD
2064.0	76.35	38.52	1992.7	158.8	109.6	192.9	50.97	192.9	34.61	SDI E-FIELD



Scientific Drilling Houston

Final Survey Report

el paso Production

Company: EL PASO PRODUCTION
Field: VERMEJO FIELD, NEW MEXICO
Site: RATON (D103)
Well: WELL D-103
Wellpath: LATERAL

Date: 5/6/2005 Time: 09:32:27 Page: 2
Co-ordinate(NE) Reference: Well: WELL D-103, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,35.95Azi)
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
2092.0	90.64	37.45	1995.9	180.7	126.7	220.6	51.18	220.6	35.03	SDI E-FIELD
2123.0	92.02	40.06	1995.2	204.8	146.1	251.6	9.52	251.6	35.49	SDI E-FIELD
2154.0	92.72	42.71	1993.9	228.1	166.5	282.4	8.83	282.4	36.14	SDI E-FIELD
2186.0	94.31	39.03	1991.9	252.2	187.4	314.2	12.51	314.2	36.62	SDI E-FIELD
2217.0	94.58	38.86	1989.5	276.2	206.8	345.1	1.03	345.1	36.83	SDI E-FIELD
2249.0	93.76	38.68	1987.2	301.1	226.8	376.9	2.62	377.0	36.99	SDI E-FIELD
2280.0	92.86	34.76	1985.4	325.9	245.3	407.9	12.95	407.9	36.97	SDI E-FIELD
2311.0	91.24	33.55	1984.3	351.6	262.7	438.8	6.52	438.9	36.77	SDI E-FIELD
2340.0	91.61	32.33	1983.6	375.9	278.5	467.8	4.39	467.8	36.53	SDI E-FIELD
2371.0	91.11	31.22	1982.8	402.2	294.8	498.7	3.93	498.7	36.24	SDI E-FIELD
2402.0	90.64	30.65	1982.4	428.8	310.7	529.6	2.38	529.6	35.93	SDI E-FIELD
2433.0	89.16	29.67	1982.4	455.6	326.3	560.4	5.73	560.4	35.61	SDI E-FIELD
2464.0	89.57	29.34	1982.8	482.6	341.6	591.2	1.70	591.3	35.29	SDI E-FIELD
2494.0	90.10	28.38	1982.8	508.9	356.1	621.0	3.66	621.1	34.98	SDI E-FIELD
2526.0	90.24	28.77	1982.7	537.0	371.4	652.7	1.29	652.9	34.67	SDI E-FIELD
2557.0	91.04	29.33	1982.4	564.1	386.4	683.5	3.15	683.8	34.41	SDI E-FIELD
2588.0	91.18	29.33	1981.8	591.1	401.6	714.3	0.45	714.6	34.19	SDI E-FIELD
2619.0	91.21	30.01	1981.2	618.0	416.9	745.1	2.20	745.5	34.00	SDI E-FIELD
2651.0	90.77	31.73	1980.6	645.5	433.4	777.0	5.55	777.5	33.88	SDI E-FIELD
2682.0	92.25	36.00	1979.8	671.2	450.6	807.9	14.57	808.5	33.88	SDI E-FIELD
2714.0	93.57	38.72	1978.2	696.6	470.0	839.9	9.44	840.4	34.01	SDI E-FIELD
2745.0	93.23	39.88	1976.3	720.6	489.6	870.8	3.89	871.2	34.20	SDI E-FIELD
2776.0	93.60	39.34	1974.5	744.4	509.3	901.6	2.11	902.0	34.38	SDI E-FIELD
2807.0	93.84	40.46	1972.5	768.1	529.2	932.5	3.69	932.8	34.56	SDI E-FIELD
2838.0	92.99	39.05	1970.6	791.9	549.0	963.4	5.30	963.6	34.73	SDI E-FIELD
2870.0	91.51	38.86	1969.4	816.8	569.1	995.3	4.66	995.5	34.87	SDI E-FIELD
2901.0	91.28	39.43	1968.6	840.8	588.6	1026.3	1.98	1026.4	34.99	SDI E-FIELD
2933.0	90.24	40.90	1968.2	865.3	609.3	1058.2	5.63	1058.3	35.15	SDI E-FIELD
2965.0	90.37	42.68	1968.0	889.1	630.6	1090.0	5.58	1090.1	35.35	SDI E-FIELD
2996.0	91.85	42.10	1967.4	912.0	651.5	1120.8	5.13	1120.8	35.54	SDI E-FIELD
3027.0	90.84	42.36	1966.7	935.0	672.3	1151.6	3.36	1151.6	35.72	SDI E-FIELD
3058.0	91.65	41.61	1966.0	958.0	693.1	1182.4	3.56	1182.4	35.88	SDI E-FIELD
3089.0	92.39	41.41	1964.9	981.2	713.6	1213.3	2.47	1213.3	36.03	SDI E-FIELD
3121.0	92.59	41.15	1963.5	1005.2	734.7	1245.1	1.02	1245.1	36.16	SDI E-FIELD
3153.0	92.18	40.39	1962.2	1029.5	755.6	1276.9	2.70	1277.0	36.28	SDI E-FIELD
3184.0	89.83	38.40	1961.6	1053.4	775.2	1307.9	9.93	1307.9	36.35	SDI E-FIELD
3215.0	90.74	37.87	1961.5	1077.8	794.4	1338.9	3.40	1338.9	36.39	SDI E-FIELD
3247.0	92.12	36.05	1960.7	1103.3	813.6	1370.8	7.14	1370.9	36.41	SDI E-FIELD
3278.0	91.71	35.28	1959.7	1128.5	831.7	1401.8	2.81	1401.9	36.39	SDI E-FIELD
3309.0	92.82	36.29	1958.4	1153.6	849.8	1432.8	4.84	1432.8	36.38	SDI E-FIELD
3340.0	94.10	36.75	1956.6	1178.5	868.2	1463.7	4.39	1463.8	36.38	SDI E-FIELD
3372.0	93.46	36.32	1954.5	1204.2	887.2	1495.7	2.41	1495.7	36.38	SDI E-FIELD
3404.0	91.75	35.83	1953.0	1230.0	906.0	1527.6	5.56	1527.7	36.38	SDI E-FIELD
3435.0	91.65	35.87	1952.1	1255.1	924.2	1558.6	0.35	1558.7	36.37	SDI E-FIELD
3466.0	92.32	35.12	1951.0	1280.3	942.2	1589.6	3.24	1589.6	36.35	SDI E-FIELD
3498.0	92.32	34.20	1949.7	1306.6	960.3	1621.6	2.87	1621.6	36.31	SDI E-FIELD
3528.0	92.29	33.97	1948.5	1331.5	977.1	1651.5	0.77	1651.6	36.27	SDI E-FIELD
3559.0	90.20	33.08	1947.8	1357.3	994.3	1682.5	7.33	1682.5	36.22	SDI E-FIELD
3591.0	88.72	32.87	1948.1	1384.1	1011.7	1714.4	4.67	1714.5	36.16	SDI E-FIELD
3622.0	90.20	33.50	1948.4	1410.1	1028.6	1745.4	5.19	1745.4	36.11	SDI E-FIELD
3653.0	92.76	34.05	1947.6	1435.8	1045.9	1776.4	8.45	1776.4	36.07	SDI E-FIELD
3685.0	93.50	34.16	1945.9	1462.3	1063.8	1808.3	2.34	1808.3	36.03	SDI E-FIELD



Scientific Drilling Houston

Final Survey Report



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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
3716.0	94.74	33.41	1943.6	1488.0	1081.0	1839.2	4.67	1839.2	36.00	SDI E-FIELD
3747.0	91.98	32.38	1941.8	1514.0	1097.8	1870.1	9.50	1870.1	35.95	SDI E-FIELD
3769.0	89.19	32.02	1941.6	1532.6	1109.5	1892.0	12.79	1892.1	35.90	SDI E-FIELD
3802.0	89.19	32.02	1942.1	1560.6	1127.0	1925.0	0.00	1925.0	35.84	PROJECTED DEPTH

EL PASO PRODUCTION

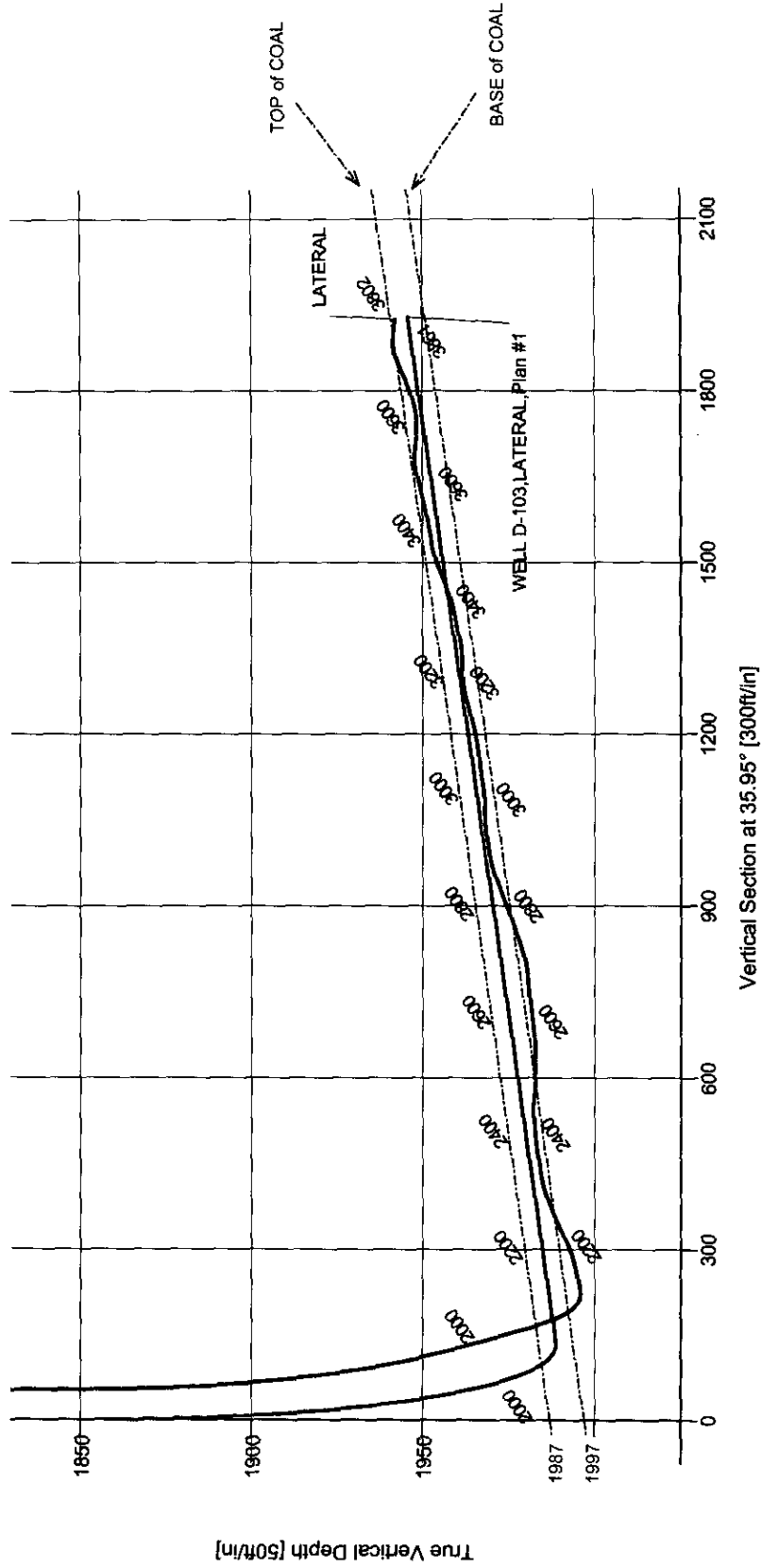
RATON WELL D-103
LATERAL
VERMEJO FIELD, NEW MEXICO

el paso Production



3802.00' MD 89.19° INCLINATION 32.02° AZIMUTH 1942.10' TVD
1560.60' NORTH 1127.00' EAST of SURFACE LOCATION
1925.00' CLOSURE DISTANCE 35.84° CLOSURE AZIMUTH

ALL DEPTHS SHOWN ARE
MEASURED DEPTHS





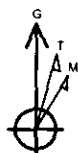
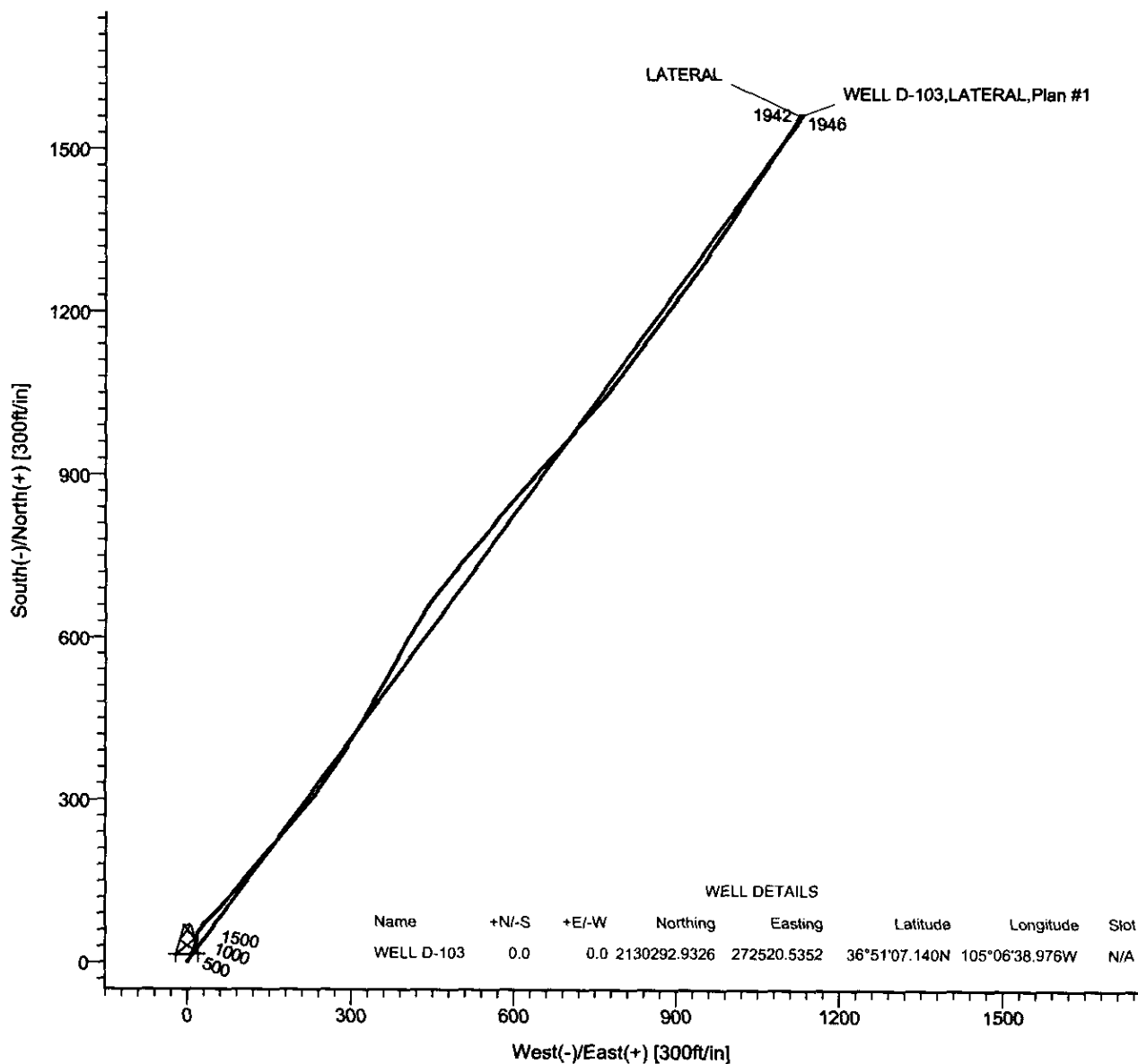
EL PASO PRODUCTION

RATON WELL D-103
LATERAL
VERMEJO FIELD, NEW MEXICO



ALL DEPTHS SHOWN ARE
TRUE VERTICAL DEPTHS

3802.00' MD 89.19° INCLINATION 32.02° AZIMUTH 1942.10' TVD
1560.60' NORTH 1127.00' EAST of SURFACE LOCATION
1925.00' CLOSURE DISTANCE 35.84° CLOSURE AZIMUTH



Azimuths to Grid North
True North: 0.47°
Magnetic North: 9.93°
Magnetic Field
Strength: 51831nT
Dip Angle: 64.22°
Date: 4/19/2005
Model: igr2005

May 6, 2005
Scientific Drilling
281.443.4600