

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. 30-007-20687 SD-06-01
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 309
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 **Horizontal Multi Lateral**

2. Name of Operator

EL Paso E & P Company, L.P.

3. Address of Operator

PO BOX 190, RATON, NM 87740

4. Well Location

Unit Letter **O** : **1192** feet from the **South** line and **1686** feet from the **East** line
Section **3** Township **30N** Range **17E** NMPM Colfax County

1st Lateral Bottom Hole Location: Unit H, Sec 3, T 30N, R 17E, 2311', FNL, 544' FEL, Colfax County

2nd Lateral Bottom Hole Location: Unit I, Sec 3, T 30N, R 17E, 2416' FSL, 246' FEL, Colfax County

3rd Lateral Bottom Hole Location: Unit L Sec 2, T 30N, R 17E, 2265 FSL, 435 FWL, Colfax County

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

8,337' (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 Multi Lateral - Recompletion** ☒

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.

06/03/06 Drill 12 1/4" hole to 304'. LD 11 jts 9 5/8", 36# casing. Landed Casing at 303'. Mixed and pumped 125 sks cement down casing.
Circulated 7 bbls to pit.

7/15/06 MIRU Layne Western Rig.

7/29/06 TD 8 3/4" hole @ 2195' MD with 400' radius curve beginning at 1330' md and reaching 90 degrees at TD.

7/30/06 Run 7", 23#, J-55, set at 2195'. Mix and pump 255 sks cement down casing. Circulated 18 bbls to pit.

8/2/06 Drill 6 1/8" hole out the end of 7" casing from 2182'-3524'. Total lat 1329'. Coal 1142'.

8/3/06 Run 4 1/2" J-55, 10.5# casing from 2180'-3348'

8/7/06 Set whip stock @ 2130' GL (top). Mill window 2130'-38' GL.

8/12/06 Drill 6 1/8" hole out of window from 2138'-3840'. Total lat 1710'; coal 1663'

8/15/06 Run 4 1/2" J-55, 10.5# casing from 2134'-3700'. Set BP @ 2119' GL. Set whip stock at 2083' GL.

8/16/06 Mill from 2083 to 2098'. Work tight hole from 2083-2079'. Pull to 2079' and pipe stuck. Worked free. POOH.

8/17/06 PU directional tools and TIH. Tagged at 2078' and could not get thru. POOH. LD directional tools and TIH with bit & collars.
Was able to work thru to 2085'. Try to break circ. No success. (float in up side down) POOH.

8/18/07 Lay down float. RIH. Pump through string. Ream 2070'-2095 up and down. Tight at 2078' & 2082'.

Little torque going in, tight coming out. Pull 30,000 over. Work stuck pipe down at 2082' & 2078'.

8/19/07 Tag @ 2065'. Ream from 2065'-2080'. Pushed some junk from 2065'. Work stuck pipe @ 2080'. POOH. Tally 1 jt off. RIH.
Ream from 2078'-2094'. Work mills through slide twice rotating no problem. Can not pass without rotating. Tight at 2078'.
Pump sweeps and work stuck pipe @ 2078'. Knock pipe down to free.

8/20/07 Ream up from 2082' to 2076'-free. Ream down from 2078'-2082'. Ream tight spots @ 2078'-2082'. POOH. LD BHA. PU hook assembly. TIH. Tag @ 2076'. Work down to 2079'. Could not pass. POOH. LD tools. Shut down. Wait on administrative decision and Plan of Action. 1

4/18/08 Attempt to fish whip stock with grapple and bent sub with no success.
4/21/07 Ran 6" impression block tagging at 2078' and stacking out at 2084'.
4/25/07 Ran down hole camera to 2084' back to 2075' MD GL.
4/27/07 Rig down and release CU. Shut down. Wait on Administrative decision and Plan of Action to Recomplete - Drill the Right Lateral.

05/10/08 MIRU Pense Rig.
05/12/08 Mill Window in 7" casing at 2039' - 2051'.
05/13/08 TIH with 6 1/4" bit. Drill lateral from 2051' - 4009' at 63° azimuth.
05/17/08 TOO H for wiper trip to 7" casing.
05/18/08 TIH. Could not stay in original hole.
05/19/08 Side tracked at 2864' and drill new 6 1/4" hole to 4009' at 63° azimuth.
05/21/08 TIH with 52 jts, 4 1/2" perforated liner. Set liner top at 2012', liner bottom at 4009'. Clean out.
05/27/08 TIH with 2 7/8" tubing, insert pump and 3/4" rods. Well is ready for production.
06/08/08 Gas went down line to sales.

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 Shirley Mitchell TITLE Regulatory Analyst DATE 07/14/2008
Type or print name Shirley Mitchell E-mail address: shirley.mitchell@elpaso.com Telephone No. (505) 445-6785

For State Use Only

APPROVED BY: Ed Martin TITLE **DISTRICT SUPERVISOR** DATE 7/28/08
Conditions of Approval (if any):



Weatherford[®]

Drilling Services

Completion



EL PASO EXPLORATION & PRODUCTION

COLFAX COUNTY, NEW MEXICO

Prepared by: Bret Welford
Well: VPR D 309
Submitted: MAY 15, 2008

Weatherford International Ltd.
2000 Oil Drive
Casper, Wyoming 82604
+1.307.265.1413 Main
+1.307.235.3958 Fax
www.weatherford.com

SITE DETAILS

VPR D 309
 Site Centre Latitude: 36°51'34.812N
 Longitude: 105°07'17.508W
 Ground Level: 8337.00
 Positional Uncertainty: 0.00
 Convergence: -0.47

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	2020.00	88.02	54.29	1735.88	198.76	403.86	0.00	0.00	448.75	
2	2030.00	87.89	53.82	1736.24	204.63	411.95	4.87	254.52	458.44	
3	2130.00	87.92	63.83	1739.90	256.30	497.34	10.00	90.00	556.89	
4	2195.12	90.00	70.00	1741.08	281.81	557.21	10.00	71.47	621.95	
5	4030.00	90.00	70.00	1741.08	909.38	2281.43	0.00	0.00	2455.99	

FIELD DETAILS

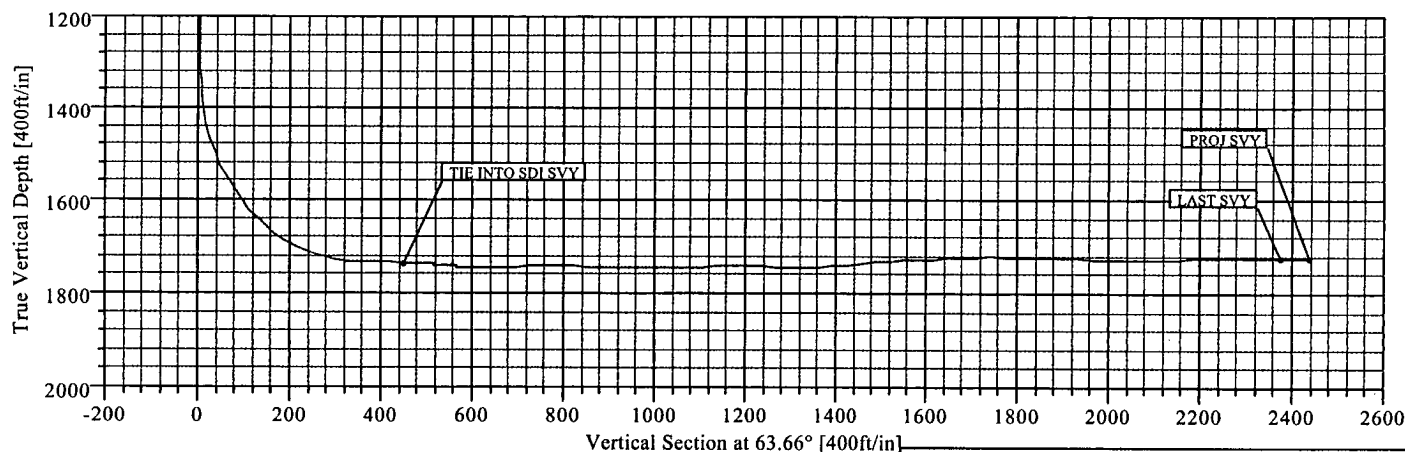
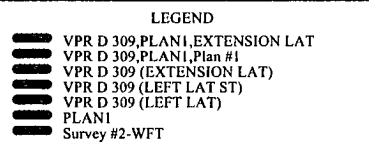
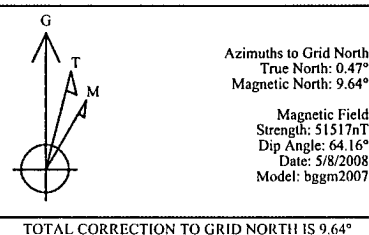
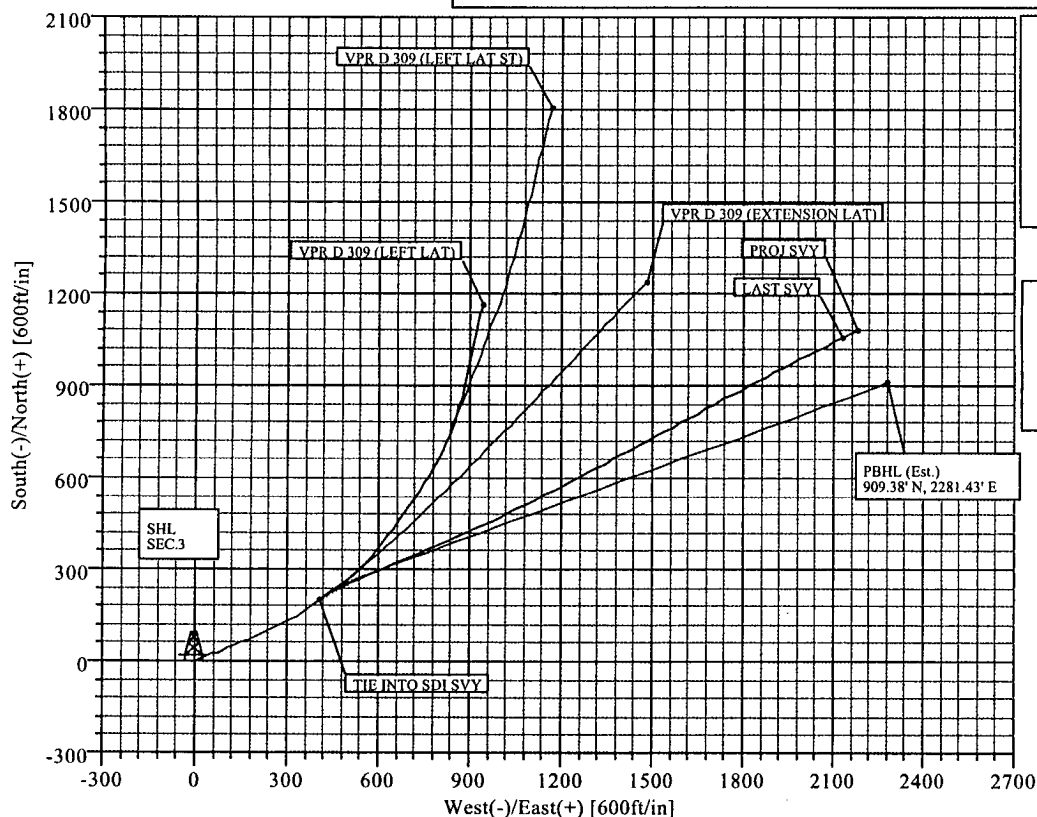
Colfax County, NM (NAD 27)
 Geodetic System: US State Plane Coordinate System 1927
 Ellipsoid: NAD27 (Clarke 1866)
 Zone: New Mexico, Eastern Zone
 Magnetic Model: bggm2007
 System Datum: Mean Sea Level
 Local North: Grid North

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
VPR D 309	0.00	0.00	2133116.99	269411.98	36°51'34.812N	105°07'17.508W	N/A

Survey: Survey #2-WFT (VPR D 309/PLAN1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
60	4009.00	89.91	63.93	1723.59	1080.84	2182.99	0.00	0.00	2435.92



Survey: Survey #2-WFT (VPR D 309/PLAN1)
 Created By: Bret Wolford
 Date: 5/15/2008

Company: EL PASO PRODUCTION CO. Field: Colfax County, NM (NAD 27) Site: VPR D 309 Well: VPR D 309 Wellpath: PLAN1	Date: 5/15/2008 Time: 10:44:49 Page: 1 Co-ordinate(NE) Reference: Well: VPR D 309, Grid North Vertical (TVD) Reference: SITE 8337.0 Section (VS) Reference: Well (0.00N,0.00E,63.66Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: Survey #2-WFT Company: Weatherford International Ltd. Tool: MWD;MWD - Standard	Start Date: 5/15/2008 Engineer: Bret Wolford Tied-to: From: EXTENSION LAT
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Field: Colfax County, NM (NAD 27) 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: bggm2007
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Site: VPR D 309 Site Position: From: Geographic Position Uncertainty: 0.00 ft Ground Level: 8337.00 ft	Northing: 2133116.99 ft Easting: 269411.98 ft Latitude: 36 51 34.812 N Longitude: 105 7 17.508 W North Reference: Grid Grid Convergence: -0.47 deg
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Well: VPR D 309 Well Position: +N/-S 0.00 ft +E/-W 0.00 ft Position Uncertainty: 0.00 ft	Slot Name: Northing: 2133116.99 ft Easting: 269411.98 ft Latitude: 36 51 34.812 N Longitude: 105 7 17.508 W
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Wellpath: PLAN1 Current Datum: SITE Magnetic Data: 5/8/2008 Field Strength: 51517 nT Vertical Section: Depth From (TVD) ft 0.00	Height: 8337.00 ft +N/-S ft 0.00	Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 9.16 deg Mag Dip Angle: 64.16 deg +E/-W ft 0.00	Direction deg 63.66
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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	Comment
2020.00	88.02	54.29	1735.88	198.76	403.86	450.12	0.00	0.00	0.00	TIE INTO SDI SVY
2138.00	84.23	68.60	1743.90	254.91	506.96	567.43	12.52	-3.21	12.13	
2169.00	87.33	67.26	1746.18	266.52	535.61	598.26	10.89	10.00	-4.32	
2201.00	90.72	66.72	1746.72	279.03	565.05	630.19	10.73	10.59	-1.69	
2233.00	92.04	66.42	1745.95	291.75	594.41	662.14	4.23	4.12	-0.94	
2265.00	93.47	67.11	1744.41	304.36	623.78	694.06	4.96	4.47	2.16	
2296.00	92.78	67.59	1742.72	316.28	652.34	724.95	2.71	-2.23	1.55	
2328.00	91.06	67.44	1741.65	328.51	681.89	756.85	5.40	-5.37	-0.47	
2360.00	88.54	67.29	1741.76	340.82	711.42	788.79	7.89	-7.87	-0.47	
2392.00	87.73	66.94	1742.80	353.26	740.89	820.71	2.76	-2.53	-1.09	
2424.00	88.02	66.50	1743.99	365.90	770.26	852.64	1.65	0.91	-1.37	
2456.00	88.88	65.70	1744.86	378.86	799.51	884.60	3.67	2.69	-2.50	
2488.00	89.68	64.89	1745.26	392.23	828.58	916.58	3.56	2.50	-2.53	
2519.00	89.34	65.06	1745.52	405.35	856.67	947.58	1.23	-1.10	0.55	
2551.00	87.96	65.52	1746.28	418.72	885.73	979.55	4.55	-4.31	1.44	
2583.00	88.88	65.43	1747.16	432.00	914.83	1011.52	2.89	2.87	-0.28	
2615.00	90.54	65.15	1747.32	445.37	943.90	1043.51	5.26	5.19	-0.87	
2647.00	93.81	65.02	1746.11	458.84	972.89	1075.47	10.23	10.22	-0.41	
2678.00	94.62	65.12	1743.83	471.87	1000.93	1106.38	2.63	2.61	0.32	
2709.00	93.13	64.59	1741.73	485.01	1028.93	1137.30	5.10	-4.81	-1.71	
2741.00	90.54	64.30	1740.71	498.81	1057.78	1169.28	8.14	-8.09	-0.91	
2773.00	88.14	64.27	1741.08	512.69	1086.61	1201.27	7.50	-7.50	-0.09	
2805.00	87.05	63.07	1742.42	526.87	1115.26	1233.24	5.06	-3.41	-3.75	
2837.00	86.99	62.56	1744.08	541.47	1143.69	1265.20	1.60	-0.19	-1.59	

Company: EL PASO PRODUCTION CO.
Field: Colfax County, NM (NAD 27)
Site: VPR D 309
Well: VPR D 309
Wellpath: PLAN1

Date: 5/15/2008 **Time:** 10:44:49 **Page:** 2
Co-ordinate(NE) Reference: Well: VPR D 309, Grid North
Vertical (TVD) Reference: SITE 8337.0
Section (VS) Reference: Well (0.00N,0.00E,63.66Azi)
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	Build deg/100ft	Turn deg/100ft	Comment
2869.00	88.25	62.20	1745.41	556.30	1172.01	1297.16	4.09	3.94	-1.12	
2901.00	91.46	61.78	1745.49	571.32	1200.26	1329.14	10.12	10.03	-1.31	
2933.00	92.73	61.76	1744.32	586.45	1228.44	1361.10	3.97	3.97	-0.06	
2965.00	93.93	61.42	1742.46	601.65	1256.54	1393.03	3.90	3.75	-1.06	
2997.00	94.33	61.81	1740.16	616.82	1284.61	1424.92	1.74	1.25	1.22	
3029.00	95.19	62.43	1737.50	631.73	1312.80	1456.80	3.31	2.69	1.94	
3061.00	96.11	62.41	1734.35	646.47	1341.03	1488.64	2.88	2.87	-0.06	
3092.00	95.08	62.11	1731.33	660.84	1368.33	1519.48	3.46	-3.32	-0.97	
3124.00	91.35	62.59	1729.54	675.66	1396.63	1551.42	11.75	-11.66	1.50	
3156.00	90.89	62.44	1728.91	690.42	1425.01	1583.40	1.51	-1.44	-0.47	
3188.00	92.49	62.51	1727.97	705.21	1453.38	1615.38	5.00	5.00	0.22	
3220.00	93.70	62.71	1726.24	719.91	1481.75	1647.33	3.83	3.78	0.62	
3252.00	93.12	62.87	1724.34	734.51	1510.16	1679.27	1.88	-1.81	0.50	
3284.00	91.58	62.32	1723.03	749.23	1538.54	1711.23	5.11	-4.81	-1.72	
3316.00	89.51	62.21	1722.72	764.12	1566.86	1743.22	6.48	-6.47	-0.34	
3347.00	88.48	61.91	1723.26	778.64	1594.24	1774.20	3.46	-3.32	-0.97	
3397.00	88.83	61.98	1724.44	802.15	1638.36	1824.17	0.71	0.70	0.14	
3411.00	89.40	62.02	1724.65	808.72	1650.72	1838.16	4.08	4.07	0.29	
3442.00	89.17	61.26	1725.04	823.45	1677.99	1869.14	2.56	-0.74	-2.45	
3474.00	88.82	61.68	1725.60	838.73	1706.10	1901.11	1.71	-1.09	1.31	
3506.00	87.79	61.95	1726.55	853.84	1734.29	1933.08	3.33	-3.22	0.84	
3538.00	88.02	61.66	1727.72	868.94	1762.48	1965.04	1.16	0.72	-0.91	
3570.00	88.77	62.04	1728.62	884.04	1790.68	1997.01	2.63	2.34	1.19	
3602.00	89.51	62.25	1729.10	898.99	1818.97	2029.00	2.40	2.31	0.66	
3633.00	90.60	62.52	1729.07	913.35	1846.44	2059.99	3.62	3.52	0.87	
3664.00	90.72	62.86	1728.71	927.58	1873.98	2090.98	1.16	0.39	1.10	
3696.00	91.81	63.22	1728.00	942.08	1902.50	2122.97	3.59	3.41	1.12	
3728.00	90.72	63.58	1727.30	956.40	1931.10	2154.96	3.59	-3.41	1.12	
3759.00	90.49	63.67	1726.97	970.18	1958.87	2185.96	0.80	-0.74	0.29	
3791.00	91.18	63.60	1726.50	984.38	1987.54	2217.96	2.17	2.16	-0.22	
3823.00	92.60	63.76	1725.45	998.57	2016.21	2249.94	4.47	4.44	0.50	
3855.00	90.83	63.60	1724.49	1012.75	2044.88	2281.92	5.55	-5.53	-0.50	
3887.00	90.37	63.49	1724.15	1027.00	2073.52	2313.92	1.48	-1.44	-0.34	
3918.00	91.06	63.68	1723.77	1040.79	2101.29	2344.92	2.31	2.23	0.61	
3950.00	89.91	63.93	1723.50	1054.92	2130.00	2376.92	3.68	-3.59	0.78	LAST SVY
4009.00	89.91	63.93	1723.59	1080.84	2182.99	2435.92	0.00	0.00	0.00	PROJ SVY

Annotation

MD ft	TVD ft	
2020.00	1735.88	TIE INTO SDI SVY
3950.00	1723.50	LAST SVY
4009.00	1723.59	PROJ SVY



Scientific Drilling Houston

Final Survey Report



Company: EL PASO PRODUCTION Date: 8/18/2006 Time: 08:54:44 Page: 1
Field: VERMEJO FIELD, NEW MEXICO Co-ordinate(NE) Reference: Well: WELL D-309, Grid North
Site: RATON (D309) Vertical (TVD) Reference: SITE 0.0
Well: WELL D-309 Section (VS) Reference: Well (0.00N,0.00E,17.33Azi)
Wellpath: LEFT LATERAL SIDETRACK 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: igr2005

Site: RATON (D309)

Site Position: Northing: 2133115.77 ft Latitude: 36 51 34.800 N
From: Geographic Easting: 269412.62 ft Longitude: 105 7 17.500 W
Position Uncertainty: 0.0 ft North Reference: Grid
Ground Level: 8337.0 ft Grid Convergence: -0.47 deg

Well: WELL D-309

Slot Name:

Well Position: +N/-S 0.0 ft Northing: 2133115.77 ft Latitude: 36 51 34.800 N
+E/-W 0.0 ft Easting: 269412.62 ft Longitude: 105 7 17.500 W
Position Uncertainty: 0.0 ft

Wellpath: LEFT LATERAL SIDETRACK

Drilled From: LEFT LATERAL
Tie-on Depth: 2696.0 ft
Above System Datum: Mean Sea Level
Declination: 9.31 deg
Mag Dip Angle: 64.19 deg
+E/-W Direction
ft deg

Current Datum: SITE Height 0.0 ft
Magnetic Data: 8/18/2006
Field Strength: 51701 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft

1644.6 0.0 0.0 17.33

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
336.0	0.38	60.49	336.0	0.5	1.0	0.8	0.11	1.1	60.49	SDI E-FIELD
619.0	0.35	75.99	619.0	1.2	2.6	1.9	0.04	2.9	65.07	SDI E-FIELD
904.0	0.31	59.93	904.0	1.8	4.1	3.0	0.04	4.5	66.28	SDI E-FIELD
1187.0	0.17	90.01	1187.0	2.2	5.2	3.7	0.06	5.7	67.14	SDI E-FIELD
1300.0	0.34	95.70	1300.0	2.2	5.7	3.8	0.15	6.1	69.25	SDI E-FIELD
1318.0	0.38	122.99	1318.0	2.1	5.8	3.8	0.97	6.2	69.91	SDI E-FIELD
1347.0	1.28	67.89	1347.0	2.2	6.2	3.9	3.82	6.6	70.48	SDI E-FIELD
1377.0	4.70	67.00	1376.9	2.8	7.6	5.0	11.40	8.1	69.85	SDI E-FIELD
1408.0	8.99	64.13	1407.7	4.4	11.0	7.4	13.88	11.8	68.37	SDI E-FIELD
1438.0	13.26	65.09	1437.1	6.8	16.2	11.4	14.25	17.6	67.17	SDI E-FIELD
1468.0	17.12	68.17	1466.1	9.9	23.5	16.5	13.14	25.5	67.06	SDI E-FIELD
1499.0	20.96	71.00	1495.4	13.4	32.9	22.6	12.74	35.6	67.82	SDI E-FIELD
1529.0	25.09	70.35	1523.0	17.3	44.0	29.6	13.79	47.3	68.52	SDI E-FIELD
1560.0	29.10	70.07	1550.6	22.1	57.3	38.2	12.94	61.4	68.91	SDI E-FIELD
1591.0	33.83	69.04	1577.0	27.8	72.4	48.1	15.36	77.6	69.03	SDI E-FIELD
1621.0	38.01	68.39	1601.3	34.1	88.8	59.1	13.99	95.2	68.97	SDI E-FIELD
1651.0	42.48	67.73	1624.2	41.4	106.8	71.3	14.97	114.5	68.81	SDI E-FIELD
1683.0	46.76	66.94	1647.0	50.1	127.5	85.8	13.49	137.0	68.57	SDI E-FIELD
1717.0	52.64	67.52	1668.9	60.1	151.4	102.5	17.34	162.9	68.36	SDI E-FIELD
1748.0	58.63	67.45	1686.4	69.9	175.1	118.9	19.32	188.5	68.24	SDI E-FIELD
1778.0	64.11	66.19	1700.8	80.2	199.3	136.0	18.63	214.8	68.06	SDI E-FIELD
1808.0	69.24	65.04	1712.7	91.6	224.3	154.3	17.46	242.3	67.78	SDI E-FIELD
1838.0	74.65	63.73	1722.0	104.0	250.0	173.7	18.50	270.8	67.43	SDI E-FIELD
1868.0	80.84	63.56	1728.3	117.0	276.3	194.0	20.64	300.0	67.06	SDI E-FIELD
1898.0	86.55	60.42	1731.6	131.0	302.6	215.2	21.69	329.7	66.60	SDI E-FIELD
1928.0	89.06	57.82	1732.8	146.3	328.3	237.5	12.04	359.5	65.98	SDI E-FIELD
1959.0	87.92	55.32	1733.6	163.4	354.2	261.5	8.86	390.1	65.23	SDI E-FIELD



Scientific Drilling Houston

Final Survey Report



Company: EL PASO PRODUCTION
Field: VERMEJO FIELD, NEW MEXICO
Site: RATON (D309)
Well: WELL D-309
Wellpath: LEFT LATERAL SIDETRACK

Date: 8/18/2006 Time: 08:54:44 Page: 2
Co-ordinate(NE) Reference: Well: WELL D-309, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,17.33Azi)
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
1989.0	87.75	54.33	1734.7	180.7	378.7	285.3	3.35	419.6	64.49	SDI E-FIELD
2034.0	87.93	54.33	1736.4	206.9	415.2	321.2	0.40	463.9	63.51	SDI E-FIELD
2109.0	87.93	54.33	1739.1	250.6	476.1	381.1	0.00	538.0	62.24	SDI E-FIELD
2139.0	85.17	51.00	1740.9	268.8	499.9	405.5	14.40	567.6	61.74	SDI E-FIELD
2161.0	86.81	49.00	1742.5	282.9	516.7	424.0	11.74	589.1	61.30	SDI E-FIELD
2206.0	90.64	46.00	1743.5	313.3	549.9	462.8	10.81	632.9	60.33	SDI E-FIELD
2238.0	91.24	42.06	1743.0	336.3	572.1	491.4	12.45	663.6	59.56	SDI E-FIELD
2269.0	91.34	40.26	1742.3	359.6	592.5	519.8	5.81	693.1	58.75	SDI E-FIELD
2301.0	92.48	37.65	1741.2	384.5	612.6	549.5	8.90	723.3	57.89	SDI E-FIELD
2333.0	92.68	36.00	1739.8	410.0	631.8	579.6	5.19	753.2	57.02	SDI E-FIELD
2363.0	92.95	36.25	1738.3	434.2	649.5	608.0	1.23	781.3	56.23	SDI E-FIELD
2395.0	92.72	35.42	1736.7	460.2	668.2	638.3	2.69	811.3	55.45	SDI E-FIELD
2425.0	90.91	35.80	1735.8	484.5	685.6	666.8	6.16	839.6	54.75	SDI E-FIELD
2455.0	91.17	35.37	1735.2	508.9	703.1	695.3	1.67	867.9	54.10	SDI E-FIELD
2484.0	91.84	34.52	1734.4	532.7	719.7	722.9	3.73	895.4	53.49	SDI E-FIELD
2514.0	91.11	33.67	1733.7	557.5	736.5	751.6	3.73	923.7	52.87	SDI E-FIELD
2544.0	91.61	33.34	1733.0	582.5	753.1	780.4	2.00	952.1	52.28	SDI E-FIELD
2574.0	91.88	31.19	1732.0	607.9	769.1	809.4	7.22	980.3	51.68	SDI E-FIELD
2604.0	92.21	30.18	1731.0	633.7	784.4	838.5	3.54	1008.3	51.07	SDI E-FIELD
2635.0	91.68	27.29	1729.9	660.8	799.2	868.9	9.47	1037.1	50.42	SDI E-FIELD
2665.0	92.62	24.92	1728.8	687.8	812.4	898.5	8.49	1064.5	49.75	SDI E-FIELD
2696.0	92.51	23.04	1727.4	716.0	825.0	929.3	6.07	1092.4	49.04	SDI E-FIELD
2726.0	90.94	20.90	1726.5	743.9	836.2	959.2	8.84	1119.2	48.35	SDI E-FIELD
2756.0	90.13	20.90	1726.2	771.9	846.9	989.1	2.70	1145.9	47.65	SDI E-FIELD
2787.0	90.67	22.33	1726.0	800.7	858.4	1020.0	4.93	1173.8	46.99	SDI E-FIELD
2817.0	90.77	21.55	1725.6	828.5	869.6	1049.9	2.62	1201.1	46.38	SDI E-FIELD
2847.0	88.46	21.26	1725.8	856.5	880.5	1079.9	7.76	1228.3	45.79	SDI E-FIELD
2878.0	89.09	20.82	1726.5	885.4	891.6	1110.8	2.48	1256.6	45.20	SDI E-FIELD
2908.0	90.23	20.81	1726.7	913.4	902.3	1140.7	3.80	1283.9	44.65	SDI E-FIELD
2938.0	90.47	20.72	1726.5	941.5	912.9	1170.7	0.85	1311.4	44.12	SDI E-FIELD
2969.0	90.13	20.57	1726.3	970.5	923.9	1201.6	1.20	1339.9	43.59	SDI E-FIELD
2999.0	91.44	20.50	1725.9	998.6	934.4	1231.6	4.37	1367.6	43.10	SDI E-FIELD
3028.0	92.15	20.20	1725.0	1025.7	944.5	1260.5	2.66	1394.3	42.64	SDI E-FIELD
3059.0	92.65	19.93	1723.7	1054.8	955.1	1291.5	1.83	1423.0	42.16	SDI E-FIELD
3089.0	93.05	20.27	1722.2	1083.0	965.4	1321.4	1.75	1450.8	41.71	SDI E-FIELD
3119.0	92.15	20.52	1720.9	1111.1	975.8	1351.3	3.11	1478.8	41.29	SDI E-FIELD
3150.0	92.88	20.86	1719.5	1140.0	986.8	1382.2	2.60	1507.8	40.88	SDI E-FIELD
3180.0	92.95	20.23	1718.0	1168.1	997.3	1412.1	2.11	1535.9	40.49	SDI E-FIELD
3210.0	91.31	19.14	1716.9	1196.3	1007.4	1442.1	6.56	1564.0	40.10	SDI E-FIELD
3240.0	91.44	18.15	1716.1	1224.7	1017.0	1472.1	3.33	1591.9	39.71	SDI E-FIELD
3270.0	90.44	16.22	1715.6	1253.4	1025.8	1502.1	7.24	1619.7	39.30	SDI E-FIELD
3300.0	91.44	16.07	1715.2	1282.2	1034.2	1532.1	3.37	1647.3	38.89	SDI E-FIELD
3330.0	92.38	14.95	1714.2	1311.1	1042.2	1562.0	4.87	1674.9	38.48	SDI E-FIELD
3360.0	94.03	14.62	1712.5	1340.1	1049.8	1591.9	5.61	1702.3	38.08	SDI E-FIELD
3391.0	91.54	15.24	1711.0	1370.0	1057.8	1622.9	8.28	1730.8	37.67	SDI E-FIELD
3421.0	92.28	15.11	1710.0	1398.9	1065.7	1652.8	2.50	1758.6	37.30	SDI E-FIELD
3451.0	92.52	14.85	1708.7	1427.9	1073.4	1682.8	1.18	1786.3	36.93	SDI E-FIELD
3483.0	89.97	14.33	1708.0	1458.8	1081.5	1714.7	8.13	1816.0	36.55	SDI E-FIELD
3515.0	89.83	14.34	1708.1	1489.8	1089.4	1746.7	0.44	1845.6	36.18	SDI E-FIELD
3546.0	88.83	14.59	1708.4	1519.8	1097.1	1777.7	3.33	1874.5	35.82	SDI E-FIELD
3578.0	88.73	14.03	1709.1	1550.8	1105.1	1809.6	1.78	1904.3	35.47	SDI E-FIELD
3610.0	90.20	14.07	1709.4	1581.9	1112.8	1841.6	4.60	1934.1	35.13	SDI E-FIELD



Scientific Drilling Houston

Final Survey Report

el paso Production

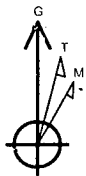
Company: EL PASO PRODUCTION
Field: VERMEJO FIELD, NEW MEXICO
Site: RATON (D309)
Well: WELL D-309
Wellpath: LEFT LATERAL SIDETRACK

Date: 8/18/2006
Co-ordinate(NE) Reference: Well: WELL D-309, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,17.33Azi)
Survey Calculation Method: Minimum Curvature
Db: Sybase

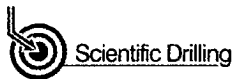
Page: 3

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
3641.0	90.37	13.34	1709.3	1612.0	1120.2	1872.5	2.42	1963.0	34.80	SDI E-FIELD
3673.0	91.04	13.24	1708.9	1643.1	1127.5	1904.4	2.12	1992.8	34.46	SDI E-FIELD
3705.0	91.44	13.38	1708.2	1674.3	1134.9	1936.3	1.32	2022.7	34.13	SDI E-FIELD
3736.0	91.61	13.05	1707.4	1704.4	1142.0	1967.2	1.20	2051.6	33.82	SDI E-FIELD
3768.0	91.98	13.18	1706.4	1735.6	1149.2	1999.1	1.23	2081.6	33.51	SDI E-FIELD
3800.0	92.72	13.78	1705.0	1766.7	1156.7	2031.0	2.98	2111.7	33.21	SDI E-FIELD
3840.0	92.72	13.78	1703.1	1805.5	1166.2	2070.9	0.00	2149.4	32.86	PROJECTED DEPTH



Azimuths to Grid North
 True North: 0.47°
 Magnetic North: 9.78°
 Magnetic Field
 Strength: 51705nT
 Dip Angle: 64.19°
 Date: 8/4/2006
 Model: igr2005

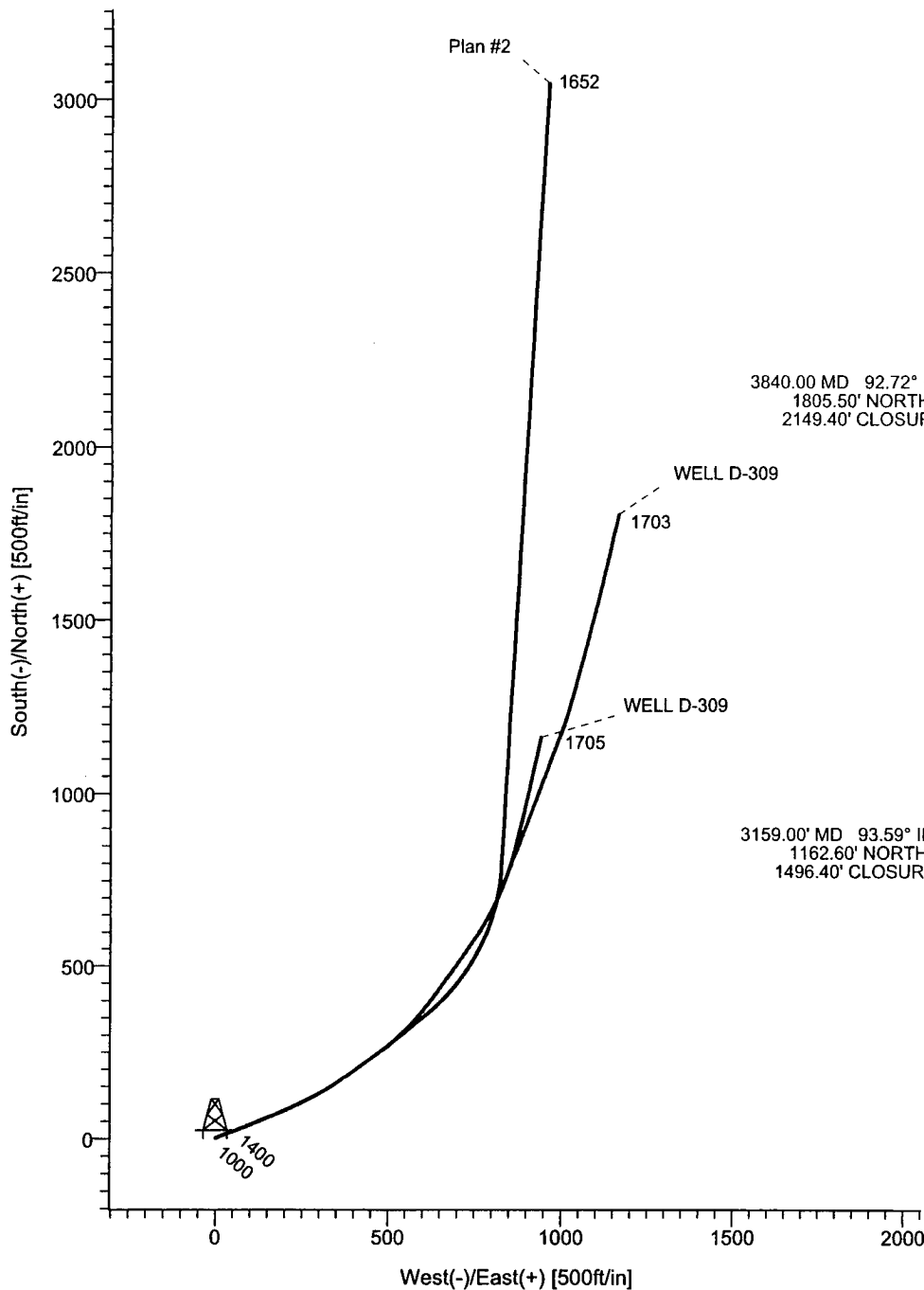


EL PASO PRODUCTION

RATON WELL D-309
VERMEJO FIELD, NEW MEXICO
LEFT LATERAL ORIGINAL / SIDETRACK
ST00BP00 / ST00BP01



ALL DEPTHS SHOWN ARE
 TRUE VERTICAL DEPTHS



SIDETRACK HOLE
 3840.00' MD 92.72° INCLINATION 13.78° AZIMUTH 1703.10' TVD
 1805.50' NORTH 1166.20' EAST of SURFACE LOCATION
 2149.40' CLOSURE DISTANCE 32.86° CLOSURE AZIMUTH

ORIGINAL HOLE
 3159.00' MD 93.59° INCLINATION 11.92° AZIMUTH 1704.60' TVD
 1162.60' NORTH 942.00' EAST of SURFACE LOCATION
 1496.40' CLOSURE DISTANCE 39.01° CLOSURE AZIMUTH

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
WELL D-309	0.0	0.0	2133115.77	269412.62	36°51'34.800N	105°07'17.500W	N/A

August 18, 2006
 Scientific Drilling
 281.443.4600

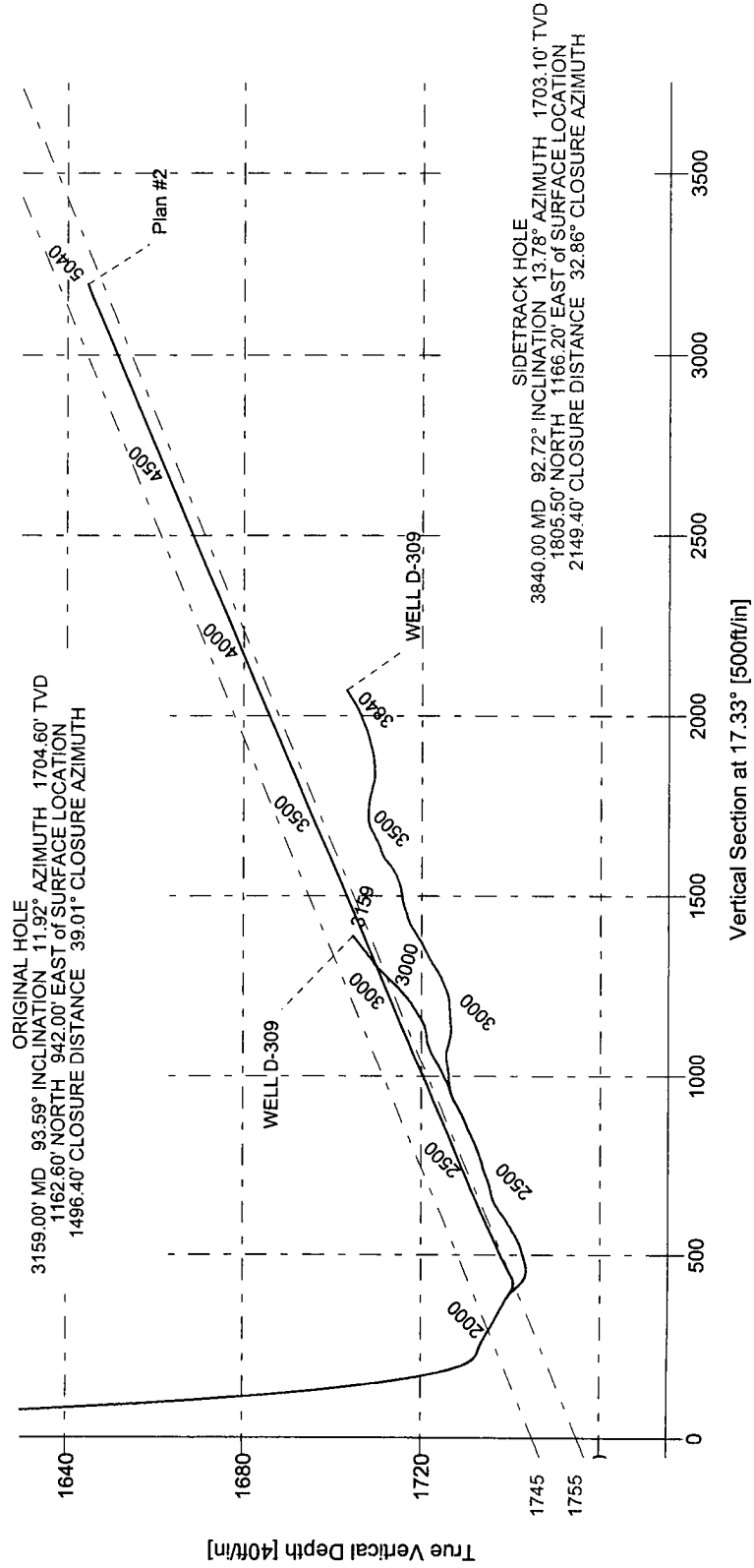


EL PASO PRODUCTION

RATON WELL D-309
VERMEJO FIELD, NEW MEXICO
LEFT LATERAL ORIGINAL / SIDETRACK
ST00BP00 / ST00BP01



ALL DEPTHS SHOWN ARE
MEASURED DEPTHS





Scientific Drilling Houston

Final Survey Report



Company:	EL PASO PRODUCTION	Date:	8/29/2006	Time:	09:19:38	Page:	1
Field:	VERMEJO FIELD, NEW MEXICO	Co-ordinate(NE) Reference:	Well: WELL D-309, Grid North				
Site:	RATON (D309)	Vertical (TVD) Reference:	SITE 0.0				
Well:	WELL D-309	Section (VS) Reference:	Well (0.00N,0.00E,46.64Azi)				
Wellpath:	EXTENSION 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 (D309)

Site Position:		Northing:	2133115.77 ft	Latitude:	36 51 34.800 N
From: Geographic		Easting:	269412.62 ft	Longitude:	105 7 17.500 W
Position Uncertainty:	0.0 ft			North Reference:	Grid
Ground Level:	8337.0 ft			Grid Convergence:	-0.47 deg

Well: WELL D-309

Slot Name:

Well Position:	+N/-S	0.0 ft	Northing:	2133115.77 ft	Latitude:	36 51 34.800 N
	+E/-W	0.0 ft	Easting:	269412.62 ft	Longitude:	105 7 17.500 W
Position Uncertainty:		0.0 ft				

Wellpath: EXTENSION LATERAL

Drilled From:	Surface
Tie-on Depth:	0.0 ft
Above System Datum:	Mean Sea Level
Declination:	9.32 deg
Mag Dip Angle:	64.19 deg
+E/-W	ft
Direction	deg

Current Datum:	SITE	Height	0.0 ft
Magnetic Data:	7/12/2006		
Field Strength:	51711 nT		
Vertical Section:	Depth From (TVD)	+N/-S	ft
	ft		
	0.0	0.0	0.0

46.64

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
336.0	0.38	60.49	336.0	0.5	1.0	1.1	0.11	1.1	60.49	SDI E-FIELD
619.0	0.35	75.99	619.0	1.2	2.6	2.7	0.04	2.9	65.07	SDI E-FIELD
904.0	0.31	59.93	904.0	1.8	4.1	4.3	0.04	4.5	66.28	SDI E-FIELD
1187.0	0.17	90.01	1187.0	2.2	5.2	5.3	0.06	5.7	67.14	SDI E-FIELD
1300.0	0.34	95.70	1300.0	2.2	5.7	5.6	0.15	6.1	69.25	SDI E-FIELD
1318.0	0.38	122.99	1318.0	2.1	5.8	5.7	0.97	6.2	69.91	SDI E-FIELD
1347.0	1.28	67.89	1347.0	2.2	6.2	6.0	3.82	6.6	70.48	SDI E-FIELD
1377.0	4.70	67.00	1376.9	2.8	7.6	7.5	11.40	8.1	69.85	SDI E-FIELD
1408.0	8.99	64.13	1407.7	4.4	11.0	11.0	13.88	11.8	68.37	SDI E-FIELD
1438.0	13.26	65.09	1437.1	6.8	16.2	16.5	14.25	17.6	67.17	SDI E-FIELD
1468.0	17.12	68.17	1466.1	9.9	23.5	23.9	13.14	25.5	67.06	SDI E-FIELD
1499.0	20.96	71.00	1495.4	13.4	32.9	33.2	12.74	35.6	67.82	SDI E-FIELD
1529.0	25.09	70.35	1523.0	17.3	44.0	43.9	13.79	47.3	68.52	SDI E-FIELD
1560.0	29.10	70.07	1550.6	22.1	57.3	56.8	12.94	61.4	68.91	SDI E-FIELD
1591.0	33.83	69.04	1577.0	27.8	72.4	71.7	15.36	77.6	69.03	SDI E-FIELD
1621.0	38.01	68.39	1601.3	34.1	88.8	88.0	13.99	95.2	68.97	SDI E-FIELD
1651.0	42.48	67.73	1624.2	41.4	106.8	106.1	14.97	114.5	68.81	SDI E-FIELD
1683.0	46.76	66.94	1647.0	50.1	127.5	127.1	13.49	137.0	68.57	SDI E-FIELD
1717.0	52.64	67.52	1668.9	60.1	151.4	151.4	17.34	162.9	68.36	SDI E-FIELD
1748.0	58.63	67.45	1686.4	69.9	175.1	175.3	19.32	188.5	68.24	SDI E-FIELD
1778.0	64.11	66.19	1700.8	80.2	199.3	200.0	18.63	214.8	68.06	SDI E-FIELD
1808.0	69.24	65.04	1712.7	91.6	224.3	226.0	17.46	242.3	67.78	SDI E-FIELD
1838.0	74.65	63.73	1722.0	104.0	250.0	253.2	18.50	270.8	67.43	SDI E-FIELD
1868.0	80.84	63.56	1728.3	117.0	276.3	281.2	20.64	300.0	67.06	SDI E-FIELD
1898.0	86.55	60.42	1731.6	131.0	302.6	309.9	21.69	329.7	66.60	SDI E-FIELD
1928.0	89.06	57.82	1732.8	146.3	328.3	339.2	12.04	359.5	65.98	SDI E-FIELD
1959.0	87.92	55.32	1733.6	163.4	354.2	369.7	8.86	390.1	65.23	SDI E-FIELD

Company: EL PASO PRODUCTION
Field: VERMEJO FIELD, NEW MEXICO
Site: RATON (D309)
Well: WELL D-309
Wellpath: EXTENSION LATERAL

Date: 8/29/2006 **Time:** 09:19:38 **Page:** 2
Co-ordinate(NE) Reference: Well: WELL D-309, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,46.64Azi)
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
1989.0	87.75	54.33	1734.7	180.7	378.7	399.4	3.35	419.6	64.49	SDI E-FIELD
2020.0	88.02	54.29	1735.9	198.8	403.9	430.1	0.88	450.1	63.80	SDI E-FIELD
2048.0	87.65	52.98	1736.9	215.3	426.4	457.9	4.86	477.7	63.20	SDI E-FIELD
2079.0	85.47	52.50	1738.8	234.1	451.0	488.6	7.20	508.1	62.57	SDI E-FIELD
2109.0	85.66	51.66	1741.1	252.5	474.6	518.4	2.86	537.6	61.99	SDI E-FIELD
2140.0	88.46	51.50	1742.7	271.7	498.9	549.2	9.05	568.1	61.43	SDI E-FIELD
2237.0	92.08	51.45	1742.3	332.1	574.7	645.9	3.73	663.8	59.98	SDI E-FIELD
2269.0	91.28	51.16	1741.3	352.1	599.7	677.8	2.66	695.4	59.58	SDI E-FIELD
2301.0	90.17	50.49	1740.9	372.3	624.5	709.7	4.05	727.1	59.20	SDI E-FIELD
2331.0	89.70	48.81	1740.9	391.7	647.4	739.6	5.82	756.7	58.82	SDI E-FIELD
2362.0	89.87	47.99	1741.1	412.3	670.6	770.6	2.70	787.2	58.41	SDI E-FIELD
2392.0	89.50	46.71	1741.2	432.6	692.6	800.6	4.44	816.6	58.01	SDI E-FIELD
2421.0	89.40	46.33	1741.5	452.6	713.7	829.6	1.35	845.1	57.62	SDI E-FIELD
2452.0	90.60	46.26	1741.5	474.0	736.1	860.6	3.88	875.5	57.22	SDI E-FIELD
2482.0	90.97	46.43	1741.1	494.7	757.8	890.6	1.36	905.0	56.86	SDI E-FIELD
2513.0	91.75	45.75	1740.4	516.2	780.1	921.6	3.34	935.4	56.51	SDI E-FIELD
2542.0	91.91	45.62	1739.4	536.5	800.8	950.6	0.71	963.9	56.18	SDI E-FIELD
2572.0	92.22	45.74	1738.3	557.4	822.3	980.6	1.11	993.4	55.87	SDI E-FIELD
2602.0	90.74	45.41	1737.6	578.4	843.7	1010.5	5.05	1022.9	55.57	SDI E-FIELD
2633.0	90.87	45.34	1737.1	600.2	865.8	1041.5	0.48	1053.5	55.27	SDI E-FIELD
2663.0	91.21	45.11	1736.6	621.3	887.1	1071.5	1.37	1083.0	54.99	SDI E-FIELD
2693.0	91.14	44.84	1736.0	642.5	908.3	1101.5	0.93	1112.5	54.72	SDI E-FIELD
2722.0	91.01	44.37	1735.4	663.2	928.6	1130.5	1.68	1141.1	54.47	SDI E-FIELD
2753.0	91.85	44.62	1734.7	685.3	950.3	1161.4	2.83	1171.6	54.21	SDI E-FIELD
2783.0	92.02	44.31	1733.6	706.7	971.3	1191.4	1.18	1201.2	53.96	SDI E-FIELD
2813.0	91.89	44.04	1732.6	728.2	992.2	1221.4	1.00	1230.8	53.73	SDI E-FIELD
2844.0	91.88	43.99	1731.6	750.5	1013.8	1252.3	0.16	1261.3	53.49	SDI E-FIELD
2874.0	91.08	44.88	1730.8	771.9	1034.8	1282.3	3.99	1290.9	53.28	SDI E-FIELD
2905.0	90.84	44.68	1730.3	793.9	1056.6	1313.2	1.01	1321.6	53.08	SDI E-FIELD
2935.0	89.70	44.02	1730.2	815.3	1077.6	1343.2	4.39	1351.3	52.89	SDI E-FIELD
2965.0	89.63	43.63	1730.3	837.0	1098.3	1373.2	1.32	1380.9	52.69	SDI E-FIELD
2995.0	90.10	43.82	1730.4	858.6	1119.1	1403.1	1.69	1410.5	52.50	SDI E-FIELD
3025.0	88.93	44.06	1730.7	880.2	1139.9	1433.1	3.98	1440.2	52.32	SDI E-FIELD
3055.0	89.93	43.59	1731.0	901.9	1160.7	1463.1	3.68	1469.9	52.15	SDI E-FIELD
3085.0	89.93	43.16	1731.0	923.7	1181.3	1493.0	1.43	1499.5	51.98	SDI E-FIELD
3115.0	90.60	43.10	1730.9	945.6	1201.8	1523.0	2.24	1529.2	51.80	SDI E-FIELD
3145.0	91.68	42.65	1730.3	967.6	1222.2	1552.9	3.90	1558.8	51.63	SDI E-FIELD
3176.0	92.22	42.97	1729.2	990.3	1243.2	1583.8	2.02	1589.4	51.46	SDI E-FIELD
3205.0	90.84	43.16	1728.4	1011.5	1263.0	1612.7	4.80	1618.1	51.31	SDI E-FIELD
3236.0	91.16	43.73	1727.9	1034.0	1284.3	1643.7	2.11	1648.8	51.16	SDI E-FIELD
3266.0	89.46	44.10	1727.7	1055.6	1305.1	1673.7	5.80	1678.6	51.03	SDI E-FIELD
3296.0	89.53	44.02	1728.0	1077.1	1326.0	1703.6	0.35	1708.4	50.91	SDI E-FIELD
3326.0	89.83	43.49	1728.2	1098.8	1346.8	1733.6	2.03	1738.1	50.79	SDI E-FIELD
3357.0	90.17	43.56	1728.2	1121.3	1368.1	1764.5	1.12	1768.9	50.66	SDI E-FIELD
3389.0	87.75	44.13	1728.7	1144.4	1390.3	1796.5	7.77	1800.7	50.54	SDI E-FIELD
3420.0	86.14	43.85	1730.4	1166.6	1411.8	1827.4	5.27	1831.4	50.43	SDI E-FIELD
3452.0	87.82	44.63	1732.1	1189.5	1434.1	1859.3	5.79	1863.2	50.32	SDI E-FIELD
3483.0	89.33	44.50	1732.9	1211.6	1455.8	1890.3	4.89	1894.0	50.23	SDI E-FIELD
3523.0	89.33	44.50	1733.3	1240.1	1483.8	1930.3	0.00	1933.8	50.11	PROJECTED DEPTH



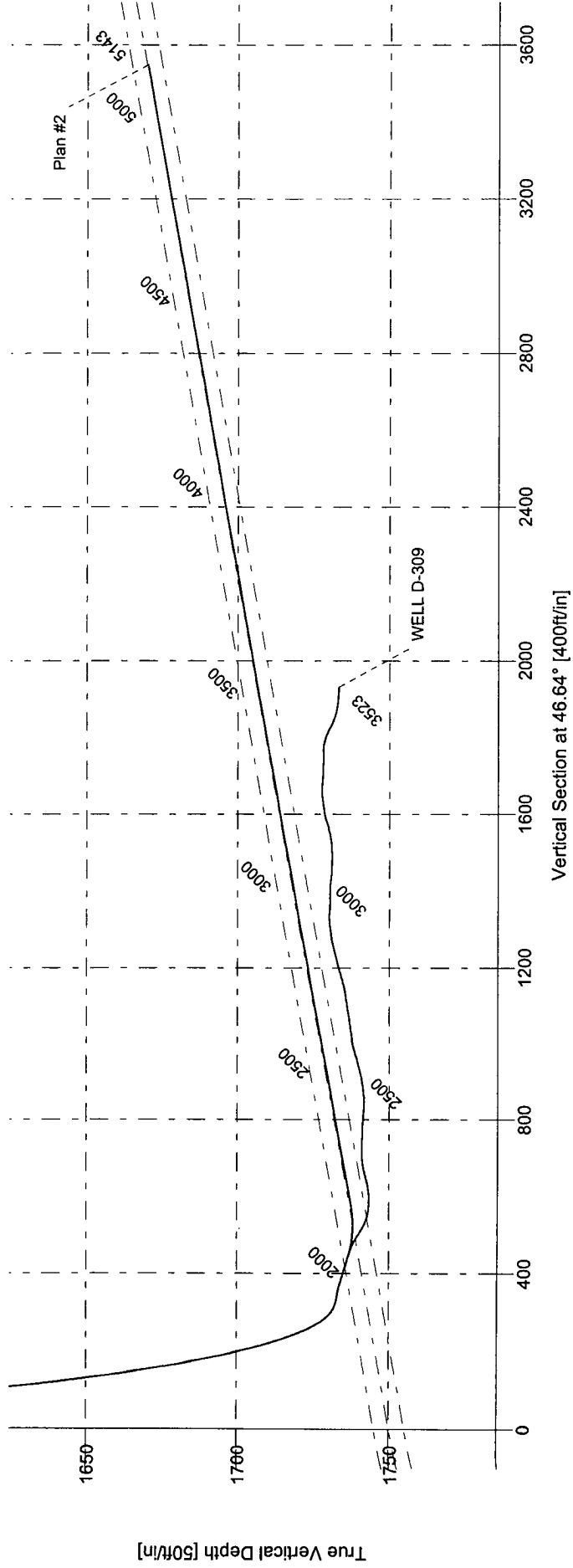
EL PASO PRODUCTION



RATON WELL D-309
VERMEJO FIELD, NEW MEXICO
ST00BP00 / EXTENSION LATERAL

ALL DEPTHS SHOWN ARE
MEASURED DEPTHS

3523.00' MD 89.33° INCLINATION 44.50° AZIMUTH 1733.30' TVD
1240.10' NORTH 1483.80' EAST OF SURFACE LOCATION
1933.80' CLOSURE DISTANCE 50.11° CLOSURE AZIMUTH



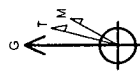


EL PASO PRODUCTION

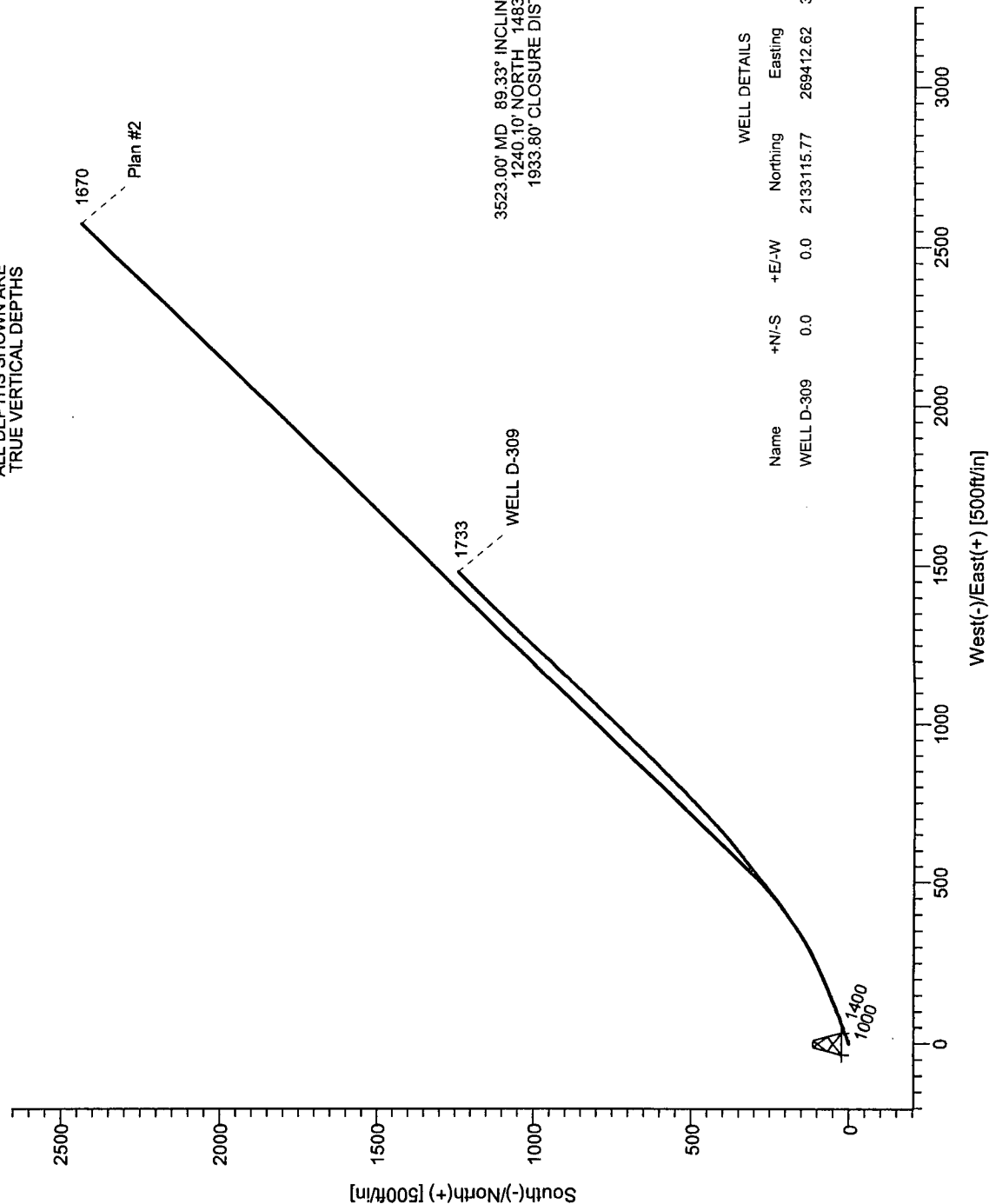
RATON WELL D-309
VERMEJO FIELD, NEW MEXICO
ST00BP00 / EXTENSION LATERAL



ALL DEPTHS SHOWN ARE
TRUE VERTICAL DEPTHS



Azimuths to Grid North
True North: 0.47°
Magnetic North: 9.79°
Magnetic Field
Strength: 5711 nT
Dip Angle: 64.19°
Date: 7/12/2006
Model: Igr2005



WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
WELL D-309	0.0	0.0	2133115.77	269412.62	36°51'34.800N	105°07'17.500W	N/A