

sperry-sun
DRILLING SERVICES



End of Well Report

Rosa Unit #351-A

Williams Production Company

30-039-29365

10/31/2005

| | | | |
|------------------------|-----------------|--------|--------|
| MO 3958, TW 3607 TO | Surface | 1310/N | 215/W |
| | BHL 1 (start) | 1403/N | 797/W |
| | BHL 2 (end lat) | 1559/N | 1287/W |

HALLIBURTON

9800 W RENO • OKLA CITY, OK 73127
PHONE 405.324.2222 • FAX 405.324.1009

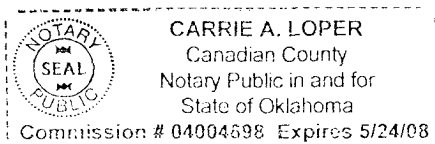
November 14, 2005

Re: Williams Production Co.
Rosa Unit #351-A
Sec. 11-T31N-R05W
Rio Arriba County, New Mexico

Enclosed please find the original and one copy of the surveys performed on the referenced well by Halliburton/Sperry Drilling Services.

| <u>Name & Title of Supervisor</u> | <u>Drainhole Number</u> | <u>Surveyed Depths</u> | <u>Dates Performed</u> | <u>Type of Survey</u> |
|---------------------------------------|-------------------------|------------------------|------------------------|-----------------------|
| Dennis Cook Directional Supervisor | Original | 550' – 4,372' | 10/17/05 – 10/24/05 | MWD |
| Dennis Cook Directional Supervisor | Projection to TD | 4,372' – 4,452' | | MWD |

If any other information is required, please contact the undersigned at the letterhead address and phone number.

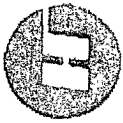


Dennis Cook
Directional Supervisor

My Commission Expires:

5/24/08

Carrie A. Loper
Notary Public



Williams Production Company
New Mexico
Rio Arriba County
Sec. 11-T31N-R05W
Rosa Unit #351A - MWD Survey

Halliburton Sperry-Drilling Survey Report

31 October, 2005

Surface Coordinates: 2153778.68 N, 644275.04 E (36° 55' 04.6862" N, 107° 20' 23.2724" W)
Grid Coordinate System: NAD27 New Mexico State Planes, Western Zone

Surface Coordinates relative to Global Coordinates: 648787.56 N, 346594.28 E (Grid)
Surface Coordinates relative to Structure: 1310.00 S, 215.00 E (True)
Kelly Bushing Elevation: 6840.00ft above Mean Sea Level
Kelly Bushing Elevation: 73.00ft above Structure

Survey Ref: svy9426

HALLIBURTON
Sperry Drilling Services

Survey Report for Sec. 11-T31N-R05W - Rosa Unit #351A - MWD Survey

| Measure Depth (ft) | Incl. Angle (Deg) | Drift Direction (Deg) | True Vertical Depth | Vertical Section (ft) | Local Coordinates | | Dogleg Severit ("'/100ft) | Lease Calls | | Global Coordinates | |
|--------------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------|-------------|---------------------------------|-----------------|-----------------|--------------------|----------------|
| | | | | | N-S (ft) | E-W (ft) | | FNL-FSL (ft) | FEL-FWL (ft) | Grid Y (ft) | Grid X (ft) |
| 0.00 | 0.000 | 0.000 | 0.00 | 0.00 | 0.00 N | 0.00 E | | 1310.00 FNL | 215.00 FWL | 2153778.68 N | 644275.04 E |
| 550.00 | 0.280 | 110.140 | 550.00 | 1.32 | 0.46 S | 1.26 E | 0.05 | 1310.46 FNL | 216.26 FWL | 2153778.22 N | 644276.31 E |
| 1016.00 | 0.710 | 143.340 | 1015.98 | 4.49 | 3.17 S | 4.05 E | 0.11 | 1313.17 FNL | 219.05 FWL | 2153775.53 N | 644279.11 E |
| 1490.00 | 0.970 | 180.270 | 1489.93 | 7.19 | 9.54 S | 5.79 E | 0.12 | 1319.54 FNL | 220.79 FWL | 2153769.17 N | 644280.88 E |
| 1978.00 | 0.530 | 168.460 | 1977.89 | 8.59 | 15.88 S | 6.22 E | 0.10 | 1325.88 FNL | 221.22 FWL | 2153762.83 N | 644281.35 E |
| 2480.00 | 0.700 | 253.750 | 2479.87 | 6.62 | 19.01 S | 3.74 E | 0.17 | 1329.01 FNL | 218.74 FWL | 2153759.69 N | 644278.88 E |
| 2985.00 | 0.880 | 313.340 | 2984.83 | 0.63 | 17.22 S | 2.04 W | 0.16 | 1327.22 FNL | 212.96 FWL | 2153761.45 N | 644273.09 E |
| 3017.00 | 0.620 | 318.080 | 3016.83 | 0.29 | 16.92 S | 2.33 W | 0.83 | 1326.92 FNL | 212.67 FWL | 2153761.75 N | 644272.80 E |
| 3047.00 | 0.700 | 340.230 | 3046.82 | 0.08 | 16.62 S | 2.51 W | 0.88 | 1326.62 FNL | 212.49 FWL | 2153762.04 N | 644272.62 E |
| 3078.00 | 0.880 | 32.960 | 3077.82 | 0.08 | 16.25 S | 2.44 W | 2.32 | 1326.25 FNL | 212.56 FWL | 2153762.42 N | 644272.69 E |
| 3110.00 | 2.990 | 73.750 | 3109.80 | 0.94 | 15.81 S | 1.50 W | 7.48 | 1325.81 FNL | 213.50 FWL | 2153762.87 N | 644273.62 E |
| 3142.00 | 6.690 | 87.460 | 3141.68 | 3.52 | 15.49 S | 1.16 E | 12.00 | 1325.49 FNL | 216.16 FWL | 2153763.20 N | 644276.28 E |
| 3172.00 | 11.340 | 92.380 | 3171.31 | 8.17 | 15.54 S | 5.85 E | 15.73 | 1325.54 FNL | 220.85 FWL | 2153763.17 N | 644280.97 E |
| 3203.00 | 16.080 | 94.310 | 3201.41 | 15.48 | 15.99 S | 13.18 E | 15.36 | 1325.99 FNL | 228.18 FWL | 2153762.76 N | 644288.31 E |
| 3233.00 | 20.650 | 96.250 | 3229.88 | 24.91 | 16.87 S | 22.59 E | 15.37 | 1326.87 FNL | 237.59 FWL | 2153761.92 N | 644297.72 E |
| 3266.00 | 24.610 | 96.420 | 3260.33 | 37.59 | 18.28 S | 35.20 E | 12.00 | 1328.28 FNL | 250.20 FWL | 2153760.59 N | 644310.34 E |
| 3297.00 | 27.860 | 97.300 | 3288.14 | 51.29 | 19.92 S | 48.81 E | 10.56 | 1329.92 FNL | 263.81 FWL | 2153759.01 N | 644323.95 E |
| 3327.00 | 30.230 | 98.530 | 3314.36 | 65.85 | 21.93 S | 63.23 E | 8.15 | 1331.93 FNL | 278.23 FWL | 2153757.08 N | 644338.39 E |
| 3359.00 | 31.990 | 99.410 | 3341.76 | 82.38 | 24.51 S | 79.56 E | 5.68 | 1334.51 FNL | 294.56 FWL | 2153754.58 N | 644354.73 E |
| 3390.00 | 34.720 | 98.180 | 3367.65 | 99.42 | 27.11 S | 96.40 E | 9.07 | 1337.11 FNL | 311.40 FWL | 2153752.07 N | 644371.58 E |
| 3422.00 | 37.090 | 98.000 | 3393.57 | 118.19 | 29.75 S | 114.98 E | 7.41 | 1339.75 FNL | 329.98 FWL | 2153749.53 N | 644390.18 E |
| 3453.00 | 39.990 | 97.300 | 3417.81 | 137.49 | 32.32 S | 134.12 E | 9.46 | 1342.32 FNL | 349.12 FWL | 2153747.06 N | 644409.33 E |
| 3485.00 | 43.490 | 97.480 | 3441.69 | 158.79 | 35.06 S | 155.25 E | 10.94 | 1345.06 FNL | 370.25 FWL | 2153744.43 N | 644430.47 E |
| 3516.00 | 47.810 | 97.830 | 3463.35 | 180.95 | 38.01 S | 177.21 E | 13.96 | 1348.01 FNL | 392.21 FWL | 2153741.58 N | 644452.45 E |
| 3548.00 | 52.210 | 98.180 | 3483.91 | 205.45 | 41.43 S | 201.48 E | 13.78 | 1351.43 FNL | 416.48 FWL | 2153738.29 N | 644476.74 E |

| Measure Depth (ft) | Incl. Angle (Deg) | Drift Direction (Deg) | True Vertical Depth | Vertical Section (ft) | Local Coordinates N-S (ft) | E-W (ft) | Dogleg Severit (°/100ft) | FNL-FSL (ft) | FEL-FWL (ft) | Global Coordinates Grid Y (ft) | Grid X (ft) |
|-------------------------|-------------------|-----------------------|---------------------|-----------------------|----------------------------|-----------|--------------------------|--------------|--------------|--------------------------------|-------------|
| 3579.00 | 55.810 | 98.000 | 3502.12 | 230.53 | 44.96 S | 226.31 E | 11.62 | 1354.96 FNL | 441.31 FWL | 2153734.89 N | 644501.58 E |
| 3611.00 | 59.410 | 97.650 | 3519.26 | 257.54 | 48.63 S | 253.08 E | 11.29 | 1358.63 FNL | 468.08 FWL | 2153731.36 N | 644528.37 E |
| 3643.00 | 62.490 | 98.000 | 3534.80 | 285.51 | 52.44 S | 280.79 E | 9.67 | 1362.44 FNL | 495.79 FWL | 2153727.69 N | 644556.10 E |
| 3674.00 | 65.210 | 98.330 | 3548.46 | 313.33 | 56.39 S | 308.33 E | 8.83 | 1366.39 FNL | 523.33 FWL | 2153723.88 N | 644583.66 E |
| 3706.00 | 68.160 | 98.580 | 3561.12 | 342.72 | 60.71 S | 337.39 E | 9.25 | 1370.71 FNL | 552.39 FWL | 2153719.71 N | 644612.75 E |
| 3737.00 | 71.000 | 98.990 | 3571.94 | 371.76 | 65.15 S | 366.10 E | 9.24 | 1375.15 FNL | 581.10 FWL | 2153715.42 N | 644641.48 E |
| 3770.00 | 73.780 | 99.170 | 3581.92 | 403.21 | 70.12 S | 397.16 E | 8.44 | 1380.12 FNL | 612.16 FWL | 2153710.62 N | 644672.56 E |
| 3801.00 | 76.590 | 99.000 | 3589.85 | 433.18 | 74.85 S | 426.75 E | 9.08 | 1384.85 FNL | 641.75 FWL | 2153706.04 N | 644702.17 E |
| 3832.00 | 80.350 | 98.100 | 3596.04 | 463.55 | 79.36 S | 456.78 E | 12.46 | 1389.36 FNL | 671.78 FWL | 2153701.68 N | 644732.23 E |
| 3866.00 | 85.060 | 97.250 | 3600.36 | 497.26 | 83.86 S | 490.19 E | 14.07 | 1393.86 FNL | 705.19 FWL | 2153697.35 N | 644765.66 E |
| 3958.00 | 86.490 | 93.690 | 3607.14 | 588.83 | 92.60 S | 581.51 E | 4.16 | 1402.60 FNL | 796.51 FWL | 2153689.08 N | 644857.02 E |
| 3990.00 | 86.730 | 96.000 | 3609.03 | 620.70 | 95.30 S | 613.34 E | 7.25 | 1405.30 FNL | 828.34 FWL | 2153686.55 N | 644888.86 E |
| 4022.00 | 86.610 | 96.400 | 3610.89 | 652.61 | 98.75 S | 645.10 E | 1.30 | 1408.75 FNL | 860.10 FWL | 2153683.27 N | 644920.64 E |
| 4054.00 | 88.180 | 97.890 | 3612.35 | 684.56 | 102.73 S | 676.81 E | 6.76 | 1412.73 FNL | 891.81 FWL | 2153679.45 N | 644952.38 E |
| 4085.00 | 89.660 | 98.320 | 3612.93 | 715.55 | 107.10 S | 707.50 E | 4.97 | 1417.10 FNL | 922.50 FWL | 2153675.24 N | 644983.08 E |
| 4117.00 | 91.200 | 98.970 | 3612.69 | 747.55 | 111.90 S | 739.13 E | 5.22 | 1421.90 FNL | 954.13 FWL | 2153670.60 N | 645014.74 E |
| 4149.00 | 90.930 | 99.290 | 3612.09 | 779.54 | 116.98 S | 770.72 E | 1.31 | 1426.98 FNL | 985.72 FWL | 2153665.68 N | 645046.36 E |
| 4181.00 | 91.420 | 98.920 | 3611.44 | 811.53 | 122.04 S | 802.31 E | 1.92 | 1432.04 FNL | 1017.31 FWL | 2153660.78 N | 645077.97 E |
| 4213.00 | 89.260 | 97.210 | 3611.25 | 843.53 | 126.53 S | 833.99 E | 8.61 | 1436.53 FNL | 1048.99 FWL | 2153656.46 N | 645109.68 E |
| 4277.00 | 89.630 | 96.770 | 3611.87 | 907.49 | 134.32 S | 897.51 E | 0.90 | 1444.32 FNL | 1112.51 FWL | 2153649.00 N | 645173.24 E |
| 4340.00 | 87.720 | 94.610 | 3613.33 | 970.37 | 140.56 S | 960.18 E | 4.58 | 1450.56 FNL | 1175.18 FWL | 2153643.08 N | 645235.93 E |
| last MWD survey | | | | | | | | | | | |
| 4372.00 | 87.130 | 94.120 | 3614.76 | 1002.24 | 143.00 S | 992.05 E | 2.40 | 1453.00 FNL | 1207.05 FWL | 2153640.81 N | 645267.82 E |
| projection to TD | | | | | | | | | | | |
| 4452.00 | 89.400 | 94.120 | 3617.19 | 1081.93 | 148.74 S | 1071.80 E | 2.84 | 1458.74 FNL | 1286.80 FWL | 2153635.48 N | 645347.60 E |

B/L 1

All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to True North. Vertical depths are relative to RKB(6825' ±15' KB). Northings and Eastings are relative to Wellhead.

Based upon Minimum Curvature type calculations, at a Measured Depth of 4452.00ft., The Bottom Hole Displacement is 1082.08ft., in the Direction of 97.901° (True).

Survey Report for Sec. 11-T31N-R05W - Rosa Unit #351A - MWD Survey

Comments

| Measured Depth (ft) | Station Coordinates | | | Comment |
|---------------------------|---------------------|-------------------|------------------|-------------------------------------|
| | TVD (ft) | Northings (ft) | Eastings (ft) | |
| 4372.00 | 3614.76 | 143.00 S | 992.05 E | last MWD survey projection to TD |
| 4452.00 | 3617.19 | 148.74 S | 1071.80 E | |

North Reference Sheet for Sec. 11-T31N-R05W - Rosa Unit #351A

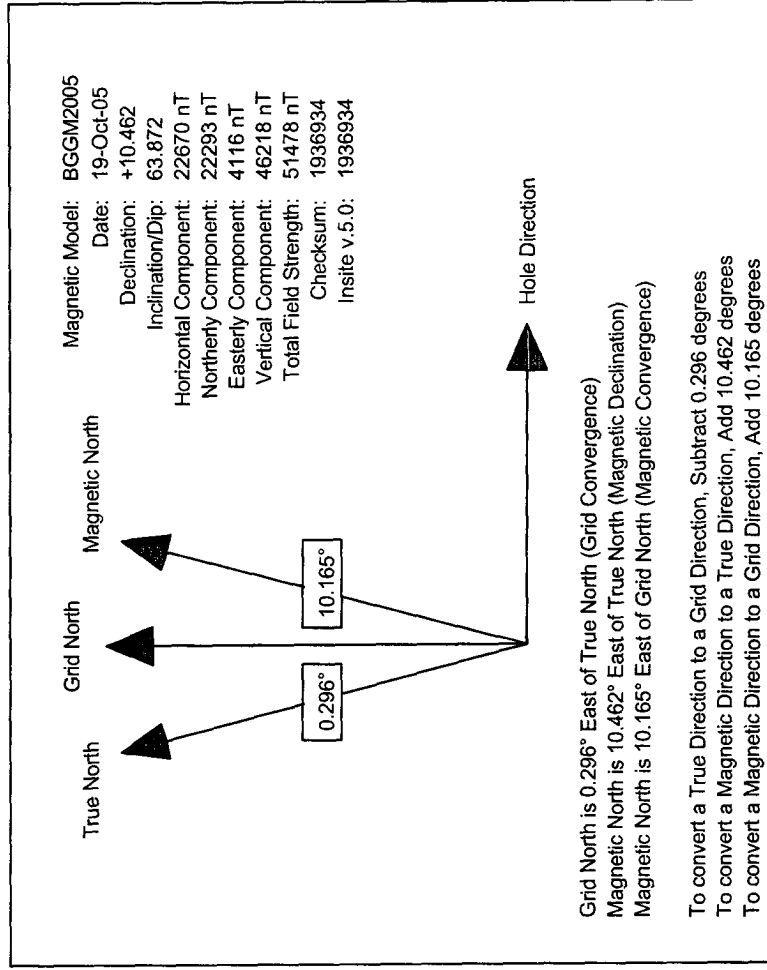
Coordinate System is NAD27 New Mexico State Planes, Western Zone, US Foot
 Source: Snyder, J.P., 1987, Map Projections - A Working Manual

Datum is North American Datum of 1927 (US48, AK, HI, and Canada)

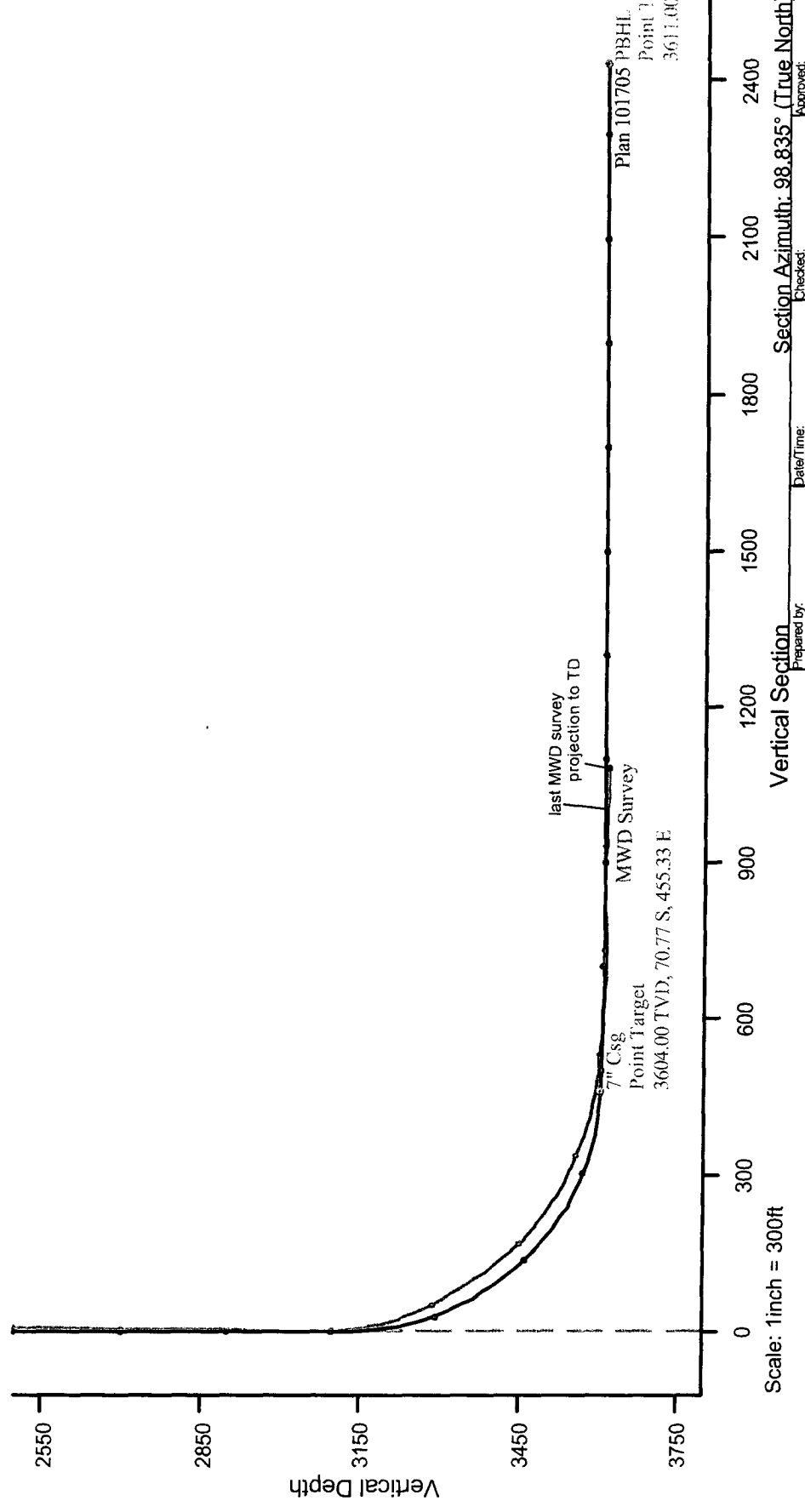
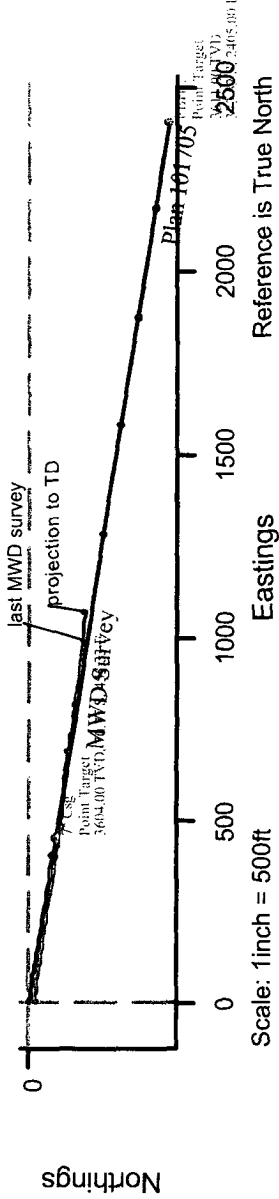
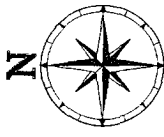
Spheroid is Clarke - 1866
 Equatorial Radius: 6378206.400m.
 Polar Radius: 6356583.800m.
 Inverse Flattening: 294.978698213901

Projection method is Transverse Mercator or Gauss Kruger Projection
 Central Meridian is -107.833°
 Longitude Origin: 0.000°
 Latitude Origin: 31.000°
 False Easting: 152400.00m
 False Northing: 0.00m
 Scale Reduction: 0.99991667

Grid Coordinates of Well: 2153778.68 N, 644275.04 E
 Geographical Coordinates of Well: 36° 55' 04.6862" N, 107° 20' 23.2724" W
 Surface Elevation of Well: 6840.00ft
 Grid Convergence at Surface is +0.296°
 Magnetic Declination at Surface is +10.462° (19 October, 2005)



New Mexico
Rio Arriba County
Sec. 11-T31N-R05W
Rosa Unit #351A



Prepared by: Dennis Cook
Checked: Peter Jims
31 October, 2005 - 13:25
Approved:

District I
 PO Box 1950, Hobbs, NM 88241-1980

District II
 PO Drawer 00, Artesia, NM 88211-0719

District III
 1000 Rio Brazos Rd., Aztec, NM 87410

District IV
 PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
 Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
 PO Box 2088
 Santa Fe, NM 87504-2088

Form C-10
 Revised February 21, 199
 Instructions on back
 Submit to Appropriate District Office
 State Lease - 4 Copies
 Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | |
|-------------------------|---|---------------------|------------------------------------|
| *API Number | | *Pool Code 71629 | *Pool Name BASIN FRUITLAND COAL |
| *Property Code 17033 | *Property Name ROSA UNIT | | *Well Number 351A |
| *OGAID No. 120782 | *Operator Name WILLIAMS PRODUCTION COMPANY | | *Elevation 6925 |

¹⁰ Surface Location

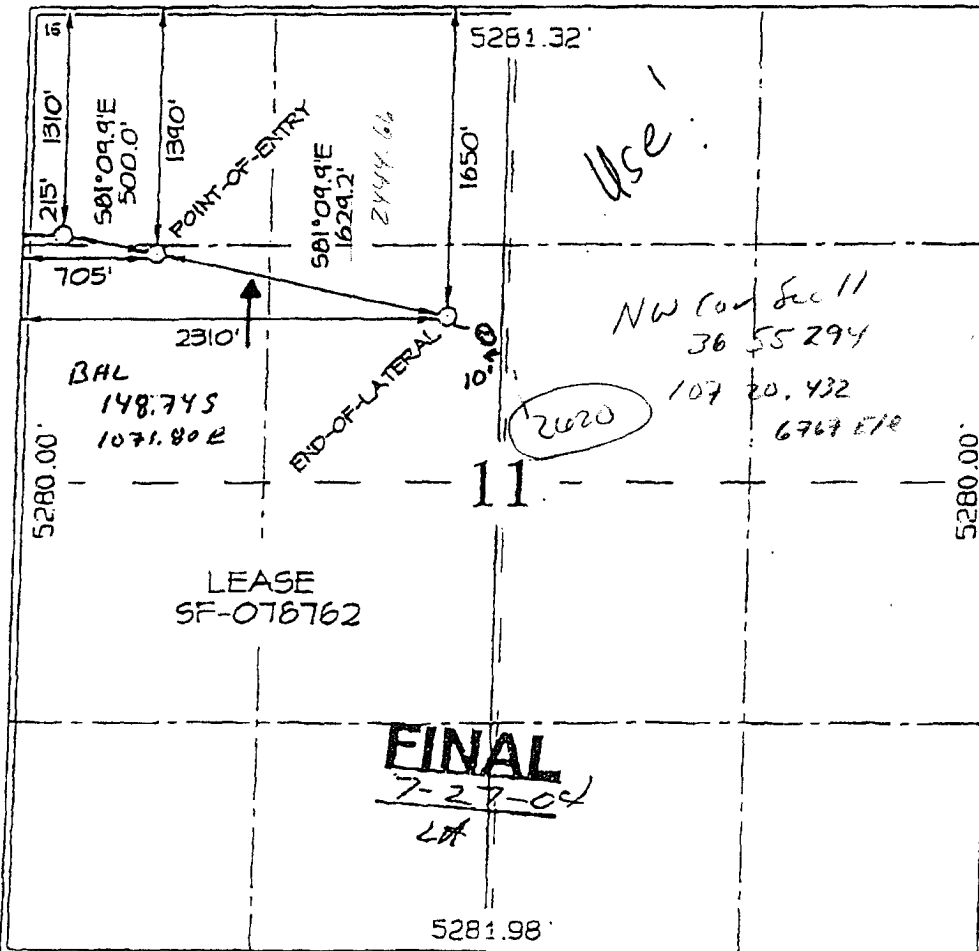
| U. of Loc No. | Section | Township | Range | Loc. Ion. | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---------------|---------|----------|-------|-----------|---------------|------------------|---------------|----------------|------------|
| D | 11 | 31N | 5W | | 1310 | NORTH | 215 | WEST | RIO ARriba |

¹¹ Bottom Hole Location If Different From Surface

| U. of Loc No. | Section | Township | Range | Loc. Ion. | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---------------|---------|----------|-------|-----------|---------------|------------------|---------------|----------------|------------|
| F | 11 | 31N | 5W | | 1650 | NORTH | 2310 | WEST | RIO ARriba |

| | | | |
|---|------------------|---------------------|------------|
| *Dedicated Acreage 320.0 Acres - (W/2) | *Joint or Infill | *Consolidation Code | *Order No. |
|---|------------------|---------------------|------------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



¹² OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature _____

Printed Name _____

Title _____

Date _____

¹³ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: JUNE 8, 2004

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
 Certificate Number 15269

NE Co - Sec 11 =