

District I
1625 N. French Dr., Hobbs, NM 87240
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

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.

30-005-63882

5. Indicate Type of Lease

STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name:
RIVA RIDGE 1426-36

8. Well Number

1

9. OGRID Number

10. Pool name or Wildcat
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

2. Name of Operator

PARALLEL PETROLEUM CORPORATION

3. Address of Operator

1004 N BIG SPRING, SUITE 400, MIDLAND, TX 79702

4. Well Location

Unit Letter M : 760 feet from the SOUTH line and 225 feet from the WEST lineSection 16 Township 14S Range 26E NMPM County CHAVES

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

GR: 3463

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 COMPLETION ☐OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐CASING TEST AND CEMENT JOB ☒OTHER: ☐

13. 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.

03-07-2007: RUN 5.5" CSG, 7.875 HOLE, 17# SET @ 9086.

LEAD: 650 SX LIGHT PP + SEM 14241 CACL HI-TEST PELLET, 11.9 PPG, 2.45 CF/SX YLD

TAIL: 375 SX PP ACID SOLUBLE + CACL HI-TEST PELLET, 15 PPG, 2.61 CF/SX YLD

124 CENTRALIZERS

TOC: SURFACE, CIRCULATED 92 SX TO SURFACE

WOC: 9 HRS, TEST CSG TO 1500 PSI FOR 30 MIN

NO OPEN-HOLE LOGS WERE OBTAINED DUE TO HOLE PROBLEMS. MUD LOG FOR THE HORIZONTAL WELL IS ATTACHED.

MULTI-SHOT GYRO SURVEY, SCHLUMBERGER MWD SURVEY ALSO ATTACHED.

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 on closed according to NMOCD guidelines ☐ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Kaye McCormick TITLE SR PROD & REG TECH DATE 05-02-2007Type or print name KAYE MC CORMICKE-mail address: kmccormick@pl11.comTelephone No. 432-685-6563

For State Use Only

FOR RECORDS ONLY

APPROVED BY _____ TITLE _____ DATE _____

Conditions of Approval, if any:

MAY 04 2007



Schlumberger

Riva Ridge 1426-36 Gyro + MWD to 9086' Final Survey Report

Report Date: March 7, 2007	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Parallel Petroleum Corp.	Vertical Section Azimuth: 89.260°
Field: NM, Chaves County	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Parallel Pet. Riva Ridge 1426-36 / Riva Ridge 1426-36	TVD Reference Datum: RKB
Well: Riva Ridge 1426-36	TVD Reference Elevation: 3478.5 ft relative to MSL
Borehole: Horizontal	Sea Bed / Ground Level Elevation: 3463.000 ft relative to MSL
UWI/API#:	Magnetic Declination: 8.562°
Survey Name / Date: Riva Ridge 1426-36 Gyro + MWD to 9086' Final / February 23, 2007	Total Field Strength: 49531.801 nT
Tort / AHD / DDI / ERD ratio: 132.675° / 4231.55 ft / 5.994 / 0.817	Magnetic Dip: 60.988°
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Feet	Declination Date: February 23, 2007
Location Lat/Long: N 33 5 51.644, W 104 21 7.654	Magnetic Declination Model: BGM 2005
Location Grid N/E Y/X: N 763050.600 ftUS, E 494244.800 ftUS	North Reference: Grid North
Grid Convergence Angle: -0.01026214°	Total Corr Mag North -> Grid North: +8.572°
Grid Scale Factor: 0.99990913	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Sub-Sea TVD (ft)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Mag / Grav Tool Face (deg)
Tie-In	4600.00	1.50	88.95	1120.94	4599.44	19.80	-12.36	19.96	23.48	121.77	0.52	91.65M
	4681.00	2.96	91.65	1201.87	4680.37	22.95	-12.40	23.11	26.23	118.22	1.81	89.16M
	4712.00	6.27	89.16	1232.77	4711.27	25.44	-12.40	25.61	28.45	115.84	10.69	1.88L
	4743.00	10.48	88.40	1263.43	4741.93	29.96	-12.30	30.12	32.53	112.21	13.59	1.61L
	4774.00	15.01	87.91	1293.66	4772.16	36.79	-12.07	36.95	38.88	108.09	14.62	1.95L
	4806.00	19.78	87.43	1324.19	4802.69	46.35	-11.68	46.51	47.95	104.10	14.91	1.57L
	4837.00	24.28	87.13	1352.92	4831.42	57.97	-11.13	58.12	59.18	100.84	14.52	3.46R
	4868.00	28.55	87.67	1380.67	4859.17	71.75	-10.50	71.89	72.66	98.31	13.80	4.71R
	4899.00	32.54	88.28	1407.37	4885.87	87.50	-9.95	87.64	88.20	96.48	12.91	7.64L
	4930.00	36.99	87.29	1432.83	4911.33	105.17	-9.26	105.29	105.70	95.03	14.47	6.89L
	4961.00	41.43	86.48	1456.84	4935.34	124.74	-8.19	124.86	125.12	93.75	14.42	4.43R
	4991.00	44.51	86.82	1478.79	4957.29	145.16	-7.00	145.27	145.44	92.76	10.30	1.62L
	5022.00	47.92	86.69	1500.24	4978.74	167.52	-5.73	167.61	167.71	91.96	11.00	1.94R
	5053.00	51.63	86.85	1520.25	4998.75	191.16	-4.40	191.24	191.29	91.32	11.97	7.07R
	5084.00	55.07	87.37	1538.75	5017.25	216.01	-3.15	216.07	216.09	90.83	11.18	9.14R
	5115.00	58.08	87.94	1555.83	5034.33	241.87	-2.09	241.92	241.93	90.49	9.83	5.66L
	5146.00	61.27	87.58	1571.48	5049.98	268.62	-1.04	268.65	268.66	90.22	10.34	6.23L
	5178.00	64.75	87.16	1586.00	5064.50	297.11	0.27	297.13	297.13	89.95	10.94	12.98R
	5211.00	67.93	87.95	1599.24	5077.74	327.32	1.55	327.33	327.33	89.73	9.88	3.19L
	5242.00	71.85	87.72	1609.90	5088.40	356.42	2.65	356.41	356.42	89.57	12.66	3.01R
	5273.00	75.54	87.92	1618.60	5097.10	386.16	3.79	386.14	386.16	89.44	11.92	8.79R
	5305.00	78.97	88.46	1625.66	5104.16	417.36	4.77	417.33	417.36	89.35	10.84	38.84L
	5337.00	81.16	86.68	1631.18	5109.68	448.86	6.11	448.82	448.86	89.22	8.77	16.96R
	5369.00	83.77	87.48	1635.37	5113.87	480.56	7.72	480.50	480.56	89.08	8.52	9.25R
	5401.00	86.59	87.94	1638.06	5116.56	512.43	9.00	512.36	512.43	88.99	8.93	9.65R
	5433.00	88.59	88.28	1639.41	5117.91	544.39	10.05	544.31	544.40	88.94	6.34	23.53R
	5464.00	89.21	88.55	1640.00	5118.50	575.38	10.91	575.29	575.39	88.91	2.18	50.80R
	5528.00	90.14	89.69	1640.37	5118.87	639.38	11.89	639.28	639.39	88.93	2.30	163.86L
	5592.00	89.76	89.58	1640.42	5118.92	703.38	12.30	703.28	703.39	89.00	0.62	128.96R
	5656.00	89.38	90.05	1640.90	5119.40	767.37	12.51	767.28	767.38	89.07	0.94	143.68R
	5719.00	89.04	90.30	1641.77	5120.27	830.36	12.31	830.27	830.36	89.15	0.67	168.08L
	5782.00	87.62	90.00	1643.61	5122.11	893.32	12.15	893.24	893.32	89.22	2.30	1.79R
	5844.00	87.94	90.01	1646.01	5124.51	955.27	12.14	955.19	955.27	89.27	0.52	96.02R
	5908.00	87.90	90.39	1648.33	5126.83	1019.22	11.92	1019.15	1019.22	89.33	0.60	16.38L
	5971.00	88.07	90.34	1650.55	5129.05	1082.17	11.52	1082.11	1082.17	89.39	0.28	148.02L
	6034.00	87.59	90.04	1652.93	5131.43	1145.12	11.31	1145.07	1145.12	89.43	0.90	34.55L
	6097.00	88.04	89.73	1655.33	5133.83	1208.07	11.44	1208.02	1208.07	89.46	0.87	11.92R
	6160.00	88.94	89.92	1656.99	5135.49	1271.04	11.63	1271.00	1271.05	89.48	1.46	69.68R

	6224.00	89.04	90.19	1658.12	5136.62	1335.02	11.57	1334.99	1335.04	89.50	0.45	109.99L
	6287.00	88.80	89.53	1659.31	5137.81	1398.01	11.72	1397.98	1398.02	89.52	1.11	75.43R
	6350.00	88.93	90.03	1660.56	5139.06	1460.99	11.96	1460.96	1461.01	89.53	0.82	24.44L
	6414.00	89.04	89.98	1661.69	5140.19	1524.98	11.96	1524.95	1525.00	89.55	0.19	57.99R
	6510.00	89.14	90.14	1663.22	5141.72	1620.96	11.86	1620.94	1620.98	89.58	0.20	1.85L
	6606.00	89.45	90.13	1664.40	5142.90	1716.94	11.63	1716.93	1716.97	89.61	0.32	166.76R
	6702.00	89.11	90.21	1665.60	5144.10	1812.92	11.35	1812.92	1812.96	89.64	0.36	150.26L
	6798.00	88.62	89.93	1667.51	5146.01	1908.89	11.23	1908.90	1908.94	89.66	0.59	142.44R
	6894.00	88.49	90.03	1669.93	5148.43	2004.85	11.26	2004.87	2004.91	89.68	0.17	78.24L
	6990.00	88.69	89.07	1672.29	5150.79	2100.82	12.02	2100.84	2100.88	89.67	1.02	95.72L
	7085.00	88.62	88.37	1674.52	5153.02	2195.79	14.14	2195.79	2195.84	89.63	0.74	HS
	7181.00	88.86	88.37	1676.63	5155.13	2291.76	16.87	2291.73	2291.79	89.58	0.25	43.51L
	7277.00	89.45	87.81	1678.05	5156.55	2387.72	20.07	2387.66	2387.75	89.52	0.85	144.08R
	7373.00	88.76	88.31	1679.55	5158.05	2483.69	23.32	2483.60	2483.71	89.46	0.89	78.69L
	7469.00	88.83	87.96	1681.56	5160.06	2579.65	26.44	2579.52	2579.66	89.41	0.37	48.54R
	7565.00	89.97	89.25	1682.57	5161.07	2675.64	28.78	2675.49	2675.64	89.38	1.79	97.52R
	7660.00	89.90	89.78	1682.68	5161.18	2770.63	29.58	2770.48	2770.64	89.39	0.56	162.90R
	7756.00	89.38	89.94	1683.28	5161.78	2866.63	29.82	2866.48	2866.64	89.40	0.57	155.84L
	7852.00	88.11	89.37	1685.38	5163.88	2962.60	30.39	2962.45	2962.61	89.41	1.45	59.44R
	7947.00	88.73	90.42	1688.00	5166.50	3057.55	30.57	3057.42	3057.57	89.43	1.28	29.36L
	8043.00	89.69	89.88	1689.33	5167.83	3153.53	30.32	3153.40	3153.55	89.45	1.15	113.20L
	8139.00	89.66	89.81	1689.87	5168.37	3249.53	30.58	3249.40	3249.55	89.46	0.08	51.52L
	8214.00	89.97	89.42	1690.11	5168.61	3324.52	31.08	3324.40	3324.55	89.46	0.66	165.23R
	8309.00	88.87	89.71	1691.07	5169.57	3419.52	31.80	3419.39	3419.54	89.47	1.20	176.94R
	8404.00	87.56	89.78	1694.03	5172.53	3514.46	32.22	3514.34	3514.49	89.47	1.38	16.91L
	8500.00	89.04	89.33	1696.88	5175.38	3610.42	32.97	3610.29	3610.44	89.48	1.61	7.59L
	8596.00	89.79	89.23	1697.86	5176.36	3706.41	34.17	3706.28	3706.44	89.47	0.79	122.32L
	8692.00	89.48	88.74	1698.47	5176.97	3802.41	35.88	3802.26	3802.43	89.46	0.60	34.54R
	8788.00	90.41	89.38	1698.57	5177.07	3898.41	37.45	3898.25	3898.43	89.45	1.18	137.94R
	8885.00	90.00	89.75	1698.22	5176.72	3995.40	38.19	3995.24	3995.43	89.45	0.57	56.72R
	8981.00	90.21	90.07	1698.04	5176.54	4091.40	38.34	4091.24	4091.42	89.46	0.40	1.55L
Last MWD Survey	9013.00	90.58	90.06	1697.82	5176.32	4123.39	38.30	4123.24	4123.42	89.47	1.16	---
Projection to Bit	9086.00	90.58	90.06	1697.08	5175.58	4196.38	38.22	4196.24	4196.41	89.48	0.00	---

Survey Type: Non-Def Survey

Survey Error Model: SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)

MD To (ft)

EQU Freq

Survey Tool Type

Borehole -> Survey

0.00

15.50

Act-Stns SLB_NSG+MSHOT-Depth Only

Pilot -> Riva Ridge 1426-16 Gyro Surveys 0' to 5266'

15.50

4600.00

Act-Stns SLB_NSG+MSHOT

Pilot -> Riva Ridge 1426-16 Gyro Surveys 0' to 5266'

4600.00

4681.00

Act-Stns SLB_NSG+MSHOT

Horizontal -> Riva Ridge 1426-36 Gyro + MWD 0' to 9086' Fir

4681.00

9086.00

Act-Stns SLB_MWD-STD

Horizontal -> Riva Ridge 1426-36 Gyro + MWD 0' to 9086' Fir



Schlumberger

Riva Ridge 1426-36 Gyro + MWD to 9086' Final Survey Report

Report Date: March 7, 2007	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Parallel Petroleum Corp.	Vertical Section Azimuth: 89.260°
Field: NM, Chaves County	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Parallel Pet. Riva Ridge 1426-36 / Riva Ridge 1426-36	TVD Reference Datum: RKB
Well: Riva Ridge 1426-36	TVD Reference Elevation: 3478.5 ft relative to MSL
Borehole: Horizontal	Sea Bed / Ground Level Elevation: 3463.000 ft relative to MSL
UWI/API#:	Magnetic Declination: 8.562°
Survey Name / Date: Riva Ridge 1426-36 Gyro + MWD to 9086' Final / February 23, 2007	Total Field Strength: 49531.801 nT
Tort / AHD / DDI / ERD ratio: 132.675° / 4231.55 ft / 5.994 / 0.817	Magnetic Dip: 60.988°
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Feet	Declination Date: February 23, 2007
Location Lat/Long: N 33 5 51.644, W 104 21 7.654	Magnetic Declination Model: BGGM 2005
Location Grid N/E Y/X: N 763050.600 ftUS, E 494244.800 ftUS	North Reference: Grid North
Grid Convergence Angle: -0.01026214°	Total Corr Mag North -> Grid North: +8.572°
Grid Scale Factor: 0.99990913	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Sub-Sea TVD (ft)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Mag / Grav Tool Face (deg)
Tie-In	4600.00	1.50	88.95	1120.94	4599.44	19.80	-12.36	19.96	23.48	121.77	0.52	91.65M
	4681.00	2.96	91.65	1201.87	4680.37	22.95	-12.40	23.11	26.23	118.22	1.81	89.16M
	4712.00	6.27	89.16	1232.77	4711.27	25.44	-12.40	25.61	28.45	115.84	10.69	1.88L
	4743.00	10.48	88.40	1263.43	4741.93	29.96	-12.30	30.12	32.53	112.21	13.59	1.61L
	4774.00	15.01	87.91	1293.66	4772.16	36.79	-12.07	36.95	38.88	108.09	14.62	1.95L
	4806.00	19.78	87.43	1324.19	4802.69	46.35	-11.68	46.51	47.95	104.10	14.91	1.57L
	4837.00	24.28	87.13	1352.92	4831.42	57.97	-11.13	58.12	59.18	100.84	14.52	3.46R
	4868.00	28.55	87.67	1380.67	4859.17	71.75	-10.50	71.89	72.66	98.31	13.80	4.71R
	4899.00	32.54	88.28	1407.37	4885.87	87.50	-9.95	87.64	88.20	96.48	12.91	7.64L
	4930.00	36.99	87.29	1432.83	4911.33	105.17	-9.26	105.29	105.70	95.03	14.47	6.89L
	4961.00	41.43	86.48	1456.84	4935.34	124.74	-8.19	124.86	125.12	93.75	14.42	4.43R
	4991.00	44.51	86.82	1478.79	4957.29	145.16	-7.00	145.27	145.44	92.76	10.30	1.62L
	5022.00	47.92	86.69	1500.24	4978.74	167.52	-5.73	167.61	167.71	91.96	11.00	1.94R
	5053.00	51.63	86.85	1520.25	4998.75	191.16	-4.40	191.24	191.29	91.32	11.97	7.07R
	5084.00	55.07	87.37	1538.75	5017.25	216.01	-3.15	216.07	216.09	90.83	11.18	9.14R
	5115.00	58.08	87.94	1555.83	5034.33	241.87	-2.09	241.92	241.93	90.49	9.83	5.66L
	5146.00	61.27	87.58	1571.48	5049.98	268.62	-1.04	268.65	268.66	90.22	10.34	6.23L
	5178.00	64.75	87.16	1586.00	5064.50	297.11	0.27	297.13	297.13	89.95	10.94	12.98R
	5211.00	67.93	87.95	1599.24	5077.74	327.32	1.55	327.33	327.33	89.73	9.88	3.19L
	5242.00	71.85	87.72	1609.90	5088.40	356.42	2.65	356.41	356.42	89.57	12.66	3.01R
	5273.00	75.54	87.92	1618.60	5097.10	386.16	3.79	386.14	386.16	89.44	11.92	8.79R
	5305.00	78.97	88.46	1625.66	5104.16	417.36	4.77	417.33	417.36	89.35	10.84	38.84L
	5337.00	81.16	86.68	1631.18	5109.68	448.86	6.11	448.82	448.86	89.22	8.77	16.96R
	5369.00	83.77	87.48	1635.37	5113.87	480.56	7.72	480.50	480.56	89.08	8.52	9.25R
	5401.00	86.59	87.94	1638.06	5116.56	512.43	9.00	512.36	512.43	88.99	8.93	9.65R
	5433.00	88.59	88.28	1639.41	5117.91	544.39	10.05	544.31	544.40	88.94	6.34	23.53R
	5464.00	89.21	88.55	1640.00	5118.50	575.38	10.91	575.29	575.39	88.91	2.18	50.80R
	5528.00	90.14	89.69	1640.37	5118.87	639.38	11.89	639.28	639.39	88.93	2.30	163.86L
	5592.00	89.76	89.58	1640.42	5118.92	703.38	12.30	703.28	703.39	89.00	0.62	128.96R
	5656.00	89.38	90.05	1640.90	5119.40	767.37	12.51	767.28	767.38	89.07	0.94	143.68R
	5719.00	89.04	90.30	1641.77	5120.27	830.36	12.31	830.27	830.36	89.15	0.67	168.08L
	5782.00	87.62	90.00	1643.61	5122.11	893.32	12.15	893.24	893.32	89.22	2.30	1.79R
	5844.00	87.94	90.01	1646.01	5124.51	955.27	12.14	955.19	955.27	89.27	0.52	96.02R
	5908.00	87.90	90.39	1648.33	5126.83	1019.22	11.92	1019.15	1019.22	89.33	0.60	16.38L
	5971.00	88.07	90.34	1650.55	5129.05	1082.17	11.52	1082.11	1082.17	89.39	0.28	148.02L
	6034.00	87.59	90.04	1652.93	5131.43	1145.12	11.31	1145.07	1145.12	89.43	0.90	34.55L
	6097.00	88.04	89.73	1655.33	5133.83	1208.07	11.44	1208.02	1208.07	89.46	0.87	11.92R
	6160.00	88.94	89.92	1656.99	5135.49	1271.04	11.63	1271.00	1271.05	89.48	1.46	69.68R

	6224.00	89.04	90.19	1658.12	5136.62	1335.02	11.57	1334.99	1335.04	89.50	0.45	109.99L
	6287.00	88.80	89.53	1659.31	5137.81	1398.01	11.72	1397.98	1398.02	89.52	1.11	75.43R
	6350.00	88.93	90.03	1660.56	5139.06	1460.99	11.96	1460.96	1461.01	89.53	0.82	24.44L
	6414.00	89.04	89.98	1661.69	5140.19	1524.98	11.96	1524.95	1525.00	89.55	0.19	57.99R
	6510.00	89.14	90.14	1663.22	5141.72	1620.96	11.86	1620.94	1620.98	89.58	0.20	1.85L
	6606.00	89.45	90.13	1664.40	5142.90	1716.94	11.63	1716.93	1716.97	89.61	0.32	166.76R
	6702.00	89.11	90.21	1665.60	5144.10	1812.92	11.35	1812.92	1812.96	89.64	0.36	150.26L
	6798.00	88.62	89.93	1667.51	5146.01	1908.89	11.23	1908.90	1908.94	89.66	0.59	142.44R
	6894.00	88.49	90.03	1669.93	5148.43	2004.85	11.26	2004.87	2004.91	89.68	0.17	78.24L
	6990.00	88.69	89.07	1672.29	5150.79	2100.82	12.02	2100.84	2100.88	89.67	1.02	95.72L
	7085.00	88.62	88.37	1674.52	5153.02	2195.79	14.14	2195.79	2195.84	89.63	0.74	HS
	7181.00	88.86	88.37	1676.63	5155.13	2291.76	16.87	2291.73	2291.79	89.58	0.25	43.51L
	7277.00	89.45	87.81	1678.05	5156.55	2387.72	20.07	2387.66	2387.75	89.52	0.85	144.08R
	7373.00	88.76	88.31	1679.55	5158.05	2483.69	23.32	2483.60	2483.71	89.46	0.89	78.69L
	7469.00	88.83	87.96	1681.56	5160.06	2579.65	26.44	2579.52	2579.66	89.41	0.37	48.54R
	7565.00	89.97	89.25	1682.57	5161.07	2675.64	28.78	2675.49	2675.64	89.38	1.79	97.52R
	7660.00	89.90	89.78	1682.68	5161.18	2770.63	29.58	2770.48	2770.64	89.39	0.56	162.90R
	7756.00	89.38	89.94	1683.28	5161.78	2866.63	29.82	2866.48	2866.64	89.40	0.57	155.84L
	7852.00	88.11	89.37	1685.38	5163.88	2962.60	30.39	2962.45	2962.61	89.41	1.45	59.44R
	7947.00	88.73	90.42	1688.00	5166.50	3057.55	30.57	3057.42	3057.57	89.43	1.28	29.36L
	8043.00	89.69	89.88	1689.33	5167.83	3153.53	30.32	3153.40	3153.55	89.45	1.15	113.20L
	8139.00	89.66	89.81	1689.87	5168.37	3249.53	30.58	3249.40	3249.55	89.46	0.08	51.52L
	8214.00	89.97	89.42	1690.11	5168.61	3324.52	31.08	3324.40	3324.55	89.46	0.66	165.23R
	8309.00	88.87	89.71	1691.07	5169.57	3419.52	31.80	3419.39	3419.54	89.47	1.20	176.94R
	8404.00	87.56	89.78	1694.03	5172.53	3514.46	32.22	3514.34	3514.49	89.47	1.38	16.91L
	8500.00	89.04	89.33	1696.88	5175.38	3610.42	32.97	3610.29	3610.44	89.48	1.61	7.59L
	8596.00	89.79	89.23	1697.86	5176.36	3706.41	34.17	3706.28	3706.44	89.47	0.79	122.32L
	8692.00	89.48	88.74	1698.47	5176.97	3802.41	35.88	3802.26	3802.43	89.46	0.60	34.54R
	8788.00	90.41	89.38	1698.57	5177.07	3898.41	37.45	3898.25	3898.43	89.45	1.18	137.94R
	8885.00	90.00	89.75	1698.22	5176.72	3995.40	38.19	3995.24	3995.43	89.45	0.57	56.72R
	8981.00	90.21	90.07	1698.04	5176.54	4091.40	38.34	4091.24	4091.42	89.46	0.40	1.55L
Last MWD Survey	9013.00	90.58	90.06	1697.82	5176.32	4123.39	38.30	4123.24	4123.42	89.47	1.16	---
Projection to Bit	9086.00	90.58	90.06	1697.08	5175.58	4196.38	38.22	4196.24	4196.41	89.48	0.00	---

Survey Type: Non-Def Survey

Survey Error Model: SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)

0.00

15.50

4600.00

4681.00

4681.00

MD To (ft)

15.50

4600.00

4681.00

9086.00

EOU Freq

Act-Stns

SLB_NSG+MSHOT

SLB_NSG+MSHOT

SLB_MWD-STD

Survey Tool Type

Depth Only

MSHOT

MSHOT

STD

Borehole -> Survey

Pilot -> Riva Ridge 1426-16 Gyro Surveys 0' to 5266'

Pilot -> Riva Ridge 1426-16 Gyro Surveys 0' to 5266'

Horizontal -> Riva Ridge 1426-36 Gyro + MWD 0' to 9086' Fir

Horizontal -> Riva Ridge 1426-36 Gyro + MWD 0' to 9086' Fir



Schlumberger

Riva Ridge 1426-36 Gyro + MWD to 9086' Final Survey Report

Report Date: March 7, 2007	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Parallel Petroleum Corp.	Vertical Section Azimuth: 89.260°
Field: NM, Chaves County	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Parallel Pet. Riva Ridge 1426-36 / Riva Ridge 1426-36	TVD Reference Datum: RKB
Well: Riva Ridge 1426-36	TVD Reference Elevation: 3478.5 ft relative to MSL
Borehole: Horizontal	Sea Bed / Ground Level Elevation: 3463.000 ft relative to MSL
UW/API#:	Magnetic Declination: 8.562°
Survey Name / Date: Riva Ridge 1426-36 Gyro + MWD to 9086' Final / February 23, 2007	Total Field Strength: 49531.801 nT
Tort / AHD / DDI / ERD ratio: 132.675° / 4231.55 ft / 5.994 / 0.817	Magnetic Dip: 60.988°
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Feet	Declination Date: February 23, 2007
Location Lat/Long: N 33 5 51.644, W 104 21 7.654	Magnetic Declination Model: BGGM 2005
Location Grid N/E Y/X: N 763050.600 ftUS, E 494244.800 ftUS	North Reference: Grid North
Grid Convergence Angle: -0.01026214°	Total Corr Mag North -> Grid North: +8.572°
Grid Scale Factor: 0.99990913	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Sub-Sea TVD (ft)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Mag / Grav Tool Face (deg)
Tie-In	4600.00	1.50	88.95	1120.94	4599.44	19.80	-12.36	19.96	23.48	121.77	0.52	91.65M
	4681.00	2.96	91.65	1201.87	4680.37	22.95	-12.40	23.11	26.23	118.22	1.81	89.16M
	4712.00	6.27	89.16	1232.77	4711.27	25.44	-12.40	25.61	28.45	115.84	10.69	1.88L
	4743.00	10.48	88.40	1263.43	4741.93	29.96	-12.30	30.12	32.53	112.21	13.59	1.61L
	4774.00	15.01	87.91	1293.66	4772.16	36.79	-12.07	36.95	38.88	108.09	14.62	1.95L
	4806.00	19.78	87.43	1324.19	4802.69	46.35	-11.68	46.51	47.95	104.10	14.91	1.57L
	4837.00	24.28	87.13	1352.92	4831.42	57.97	-11.13	58.12	59.18	100.84	14.52	3.46R
	4868.00	28.55	87.67	1380.67	4859.17	71.75	-10.50	71.89	72.66	98.31	13.80	4.71R
	4899.00	32.54	88.28	1407.37	4885.87	87.50	-9.95	87.64	88.20	96.48	12.91	7.64L
	4930.00	36.99	87.29	1432.83	4911.33	105.17	-9.26	105.29	105.70	95.03	14.47	6.89L
	4961.00	41.43	86.48	1456.84	4935.34	124.74	-8.19	124.86	125.12	93.75	14.42	4.43R
	4991.00	44.51	86.82	1478.79	4957.29	145.16	-7.00	145.27	145.44	92.76	10.30	1.62L
	5022.00	47.92	86.69	1500.24	4978.74	167.52	-5.73	167.61	167.71	91.96	11.00	1.94R
	5053.00	51.63	86.85	1520.25	4998.75	191.16	-4.40	191.24	191.29	91.32	11.97	7.07R
	5084.00	55.07	87.37	1538.75	5017.25	216.01	-3.15	216.07	216.09	90.83	11.18	9.14R
	5115.00	58.08	87.94	1555.83	5034.33	241.87	-2.09	241.92	241.93	90.49	9.83	5.66L
	5146.00	61.27	87.58	1571.48	5049.98	268.62	-1.04	268.65	268.66	90.22	10.34	6.23L
	5178.00	64.75	87.16	1586.00	5064.50	297.11	0.27	297.13	297.13	89.95	10.94	12.98R
	5211.00	67.93	87.95	1599.24	5077.74	327.32	1.55	327.33	327.33	89.73	9.88	3.19L
	5242.00	71.85	87.72	1609.90	5088.40	356.42	2.65	356.41	356.42	89.57	12.66	3.01R
	5273.00	75.54	87.92	1618.60	5097.10	386.16	3.79	386.14	386.16	89.44	11.92	8.79R
	5305.00	78.97	88.46	1625.66	5104.16	417.36	4.77	417.33	417.36	89.35	10.84	38.84L
	5337.00	81.16	86.68	1631.18	5109.68	448.86	6.11	448.82	448.86	89.22	8.77	16.96R
	5369.00	83.77	87.48	1635.37	5113.87	480.56	7.72	480.50	480.56	89.08	8.52	9.25R
	5401.00	86.59	87.94	1638.06	5116.56	512.43	9.00	512.36	512.43	88.99	8.93	9.65R
	5433.00	88.59	88.28	1639.41	5117.91	544.39	10.05	544.31	544.40	88.94	6.34	23.53R
	5464.00	89.21	88.55	1640.00	5118.50	575.38	10.91	575.29	575.39	88.91	2.18	50.80R
	5528.00	90.14	89.69	1640.37	5118.87	639.38	11.89	639.28	639.39	88.93	2.30	163.86L
	5592.00	89.76	89.58	1640.42	5118.92	703.38	12.30	703.28	703.39	89.00	0.62	128.96R
	5656.00	89.38	90.05	1640.90	5119.40	767.37	12.51	767.28	767.38	89.07	0.94	143.68R
	5719.00	89.04	90.30	1641.77	5120.27	830.36	12.31	830.27	830.36	89.15	0.67	168.08L
	5782.00	87.62	90.00	1643.61	5122.11	893.32	12.15	893.24	893.32	89.22	2.30	1.79R
	5844.00	87.94	90.01	1646.01	5124.51	955.27	12.14	955.19	955.27	89.27	0.52	96.02R
	5908.00	87.90	90.39	1648.33	5126.83	1019.22	11.92	1019.15	1019.22	89.33	0.60	16.38L
	5971.00	88.07	90.34	1650.55	5129.05	1082.17	11.52	1082.11	1082.17	89.39	0.28	148.02L
	6034.00	87.59	90.04	1652.93	5131.43	1145.12	11.31	1145.07	1145.12	89.43	0.90	34.55L
	6097.00	88.04	89.73	1655.33	5133.83	1208.07	11.44	1208.02	1208.07	89.46	0.87	11.92R
	6160.00	88.94	89.92	1656.99	5135.49	1271.04	11.63	1271.00	1271.05	89.48	1.46	69.68R

	6224.00	89.04	90.19	1658.12	5136.62	1335.02	11.57	1334.99	1335.04	89.50	0.45	109.99L
	6287.00	88.80	89.53	1659.31	5137.81	1398.01	11.72	1397.98	1398.02	89.52	1.11	75.43R
	6350.00	88.93	90.03	1660.56	5139.06	1460.99	11.96	1460.96	1461.01	89.53	0.82	24.44L
	6414.00	89.04	89.98	1661.69	5140.19	1524.98	11.96	1524.95	1525.00	89.55	0.19	57.99R
	6510.00	89.14	90.14	1663.22	5141.72	1620.96	11.86	1620.94	1620.98	89.58	0.20	1.85L
	6606.00	89.45	90.13	1664.40	5142.90	1716.94	11.63	1716.93	1716.97	89.61	0.32	166.76R
	6702.00	89.11	90.21	1665.60	5144.10	1812.92	11.35	1812.92	1812.96	89.64	0.36	150.26L
	6798.00	88.62	89.93	1667.51	5146.01	1908.89	11.23	1908.90	1908.94	89.66	0.59	142.44R
	6894.00	88.49	90.03	1669.93	5148.43	2004.85	11.26	2004.87	2004.91	89.68	0.17	78.24L
	6990.00	88.69	89.07	1672.29	5150.79	2100.82	12.02	2100.84	2100.88	89.67	1.02	95.72L
	7085.00	88.62	88.37	1674.52	5153.02	2195.79	14.14	2195.79	2195.84	89.63	0.74	HS
	7181.00	88.86	88.37	1676.63	5155.13	2291.76	16.87	2291.73	2291.79	89.58	0.25	43.51L
	7277.00	89.45	87.81	1678.05	5156.55	2387.72	20.07	2387.66	2387.75	89.52	0.85	144.08R
	7373.00	88.76	88.31	1679.55	5158.05	2483.69	23.32	2483.60	2483.71	89.46	0.89	78.69L
	7469.00	88.83	87.96	1681.56	5160.06	2579.65	26.44	2579.52	2579.66	89.41	0.37	48.54R
	7565.00	89.97	89.25	1682.57	5161.07	2675.64	28.78	2675.49	2675.64	89.38	1.79	97.52R
	7660.00	89.90	89.78	1682.68	5161.18	2770.63	29.58	2770.48	2770.64	89.39	0.56	162.90R
	7756.00	89.38	89.94	1683.28	5161.78	2866.63	29.82	2866.48	2866.64	89.40	0.57	155.84L
	7852.00	88.11	89.37	1685.38	5163.88	2962.60	30.39	2962.45	2962.61	89.41	1.45	59.44R
	7947.00	88.73	90.42	1688.00	5166.50	3057.55	30.57	3057.42	3057.57	89.43	1.28	29.36L
	8043.00	89.69	89.88	1689.33	5167.83	3153.53	30.32	3153.40	3153.55	89.45	1.15	113.20L
	8139.00	89.66	89.81	1689.87	5168.37	3249.53	30.58	3249.40	3249.55	89.46	0.08	51.52L
	8214.00	89.97	89.42	1690.11	5168.61	3324.52	31.08	3324.40	3324.55	89.46	0.66	165.23R
	8309.00	88.87	89.71	1691.07	5169.57	3419.52	31.80	3419.39	3419.54	89.47	1.20	176.94R
	8404.00	87.56	89.78	1694.03	5172.53	3514.46	32.22	3514.34	3514.49	89.47	1.38	16.91L
	8500.00	89.04	89.33	1696.88	5175.38	3610.42	32.97	3610.29	3610.44	89.48	1.61	7.59L
	8596.00	89.79	89.23	1697.86	5176.36	3706.41	34.17	3706.28	3706.44	89.47	0.79	122.32L
	8692.00	89.48	88.74	1698.47	5176.97	3802.41	35.88	3802.26	3802.43	89.46	0.60	34.54R
	8788.00	90.41	89.38	1698.57	5177.07	3898.41	37.45	3898.25	3898.43	89.45	1.18	137.94R
	8885.00	90.00	89.75	1698.22	5176.72	3995.40	38.19	3995.24	3995.43	89.45	0.57	56.72R
	8981.00	90.21	90.07	1698.04	5176.54	4091.40	38.34	4091.24	4091.42	89.46	0.40	1.55L
Last MWD Survey	9013.00	90.58	90.06	1697.82	5176.32	4123.39	38.30	4123.24	4123.42	89.47	1.16	---
Projection to Bit	9086.00	90.58	90.06	1697.08	5175.58	4196.38	38.22	4196.24	4196.41	89.48	0.00	---

Survey Type: Non-Def Survey

Survey Error Model: SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)

0.00

15.50

4600.00

4681.00

MD To (ft)

15.50

4600.00

4681.00

9086.00

EOU Freq

Act-Stns

Act-Stns

Act-Stns

Act-Stns

Survey Tool Type

SLB_NSG+MSHOT-Depth Only

SLB_NSG+MSHOT

SLB_NSG+MSHOT

SLB_MWD-STD

Borehole -> Survey

Pilot -> Riva Ridge 1426-16 Gyro Surveys 0' to 5266'

Pilot -> Riva Ridge 1426-16 Gyro Surveys 0' to 5266'

Horizontal -> Riva Ridge 1426-36 Gyro + MWD 0' to 9086' Fir

Horizontal -> Riva Ridge 1426-36 Gyro + MWD 0' to 9086' Fir



Directional Services

Job Number: 07117505220
Company: Parallel Petroleum
Lease/Well: Riva Ridge 1426-16, Well #1
Location: Chaves County, New Mexico
Rig Name: JW #4
RKB: 16'
G.L. or M.S.L.: GL

State/Country: New Mexico/USA
Declination: 8.53°
Grid: East To Grid
File name: F:\SURVEY\2007SU-1\PARALLEL\RIVARID1.SVY
Date/Time: 20-Feb-07 / 09:10
Curve Name: Surface - 5266' M.D.

We hereby certify that our survey data from
Surface MD to 5,266 MD is, to the best of
our knowledge a true and accurate account of
the well bore.

Dana Oluthe 2/20/07
Multi-Shot Date

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.50	52.74	100.00	.26	.35	.26	.44	52.74	.50
200.00	.25	357.69	200.00	.75	.69	.75	1.01	42.58	.41
300.00	.25	243.63	300.00	.87	.48	.87	.99	29.03	.42
400.00	.25	218.30	400.00	.60	.15	.60	.62	14.13	.11
500.00	.50	276.24	499.99	.48	-.42	.48	.63	318.67	.42
600.00	.75	273.19	599.99	.56	-1.51	.56	1.61	290.38	.25
700.00	1.25	269.13	699.97	.58	-3.25	.58	3.30	280.11	.50
800.00	1.25	276.07	799.95	.68	-5.42	.68	5.47	277.12	.15
900.00	.75	266.02	899.93	.75	-7.16	.75	7.20	275.96	.53
1000.00	1.00	203.96	999.92	-.09	-8.17	-.09	8.17	269.33	.93

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1100.00	1.00	206.90	1099.91	-1.67	-8.92	-1.67	9.07	259.39	.05
1200.00	.75	184.82	1199.90	-3.10	-9.37	-3.10	9.87	251.69	.42
1300.00	.50	198.72	1299.89	-4.17	-9.56	-4.17	10.43	246.46	.29
1400.00	.25	220.61	1399.89	-4.75	-9.85	-4.75	10.93	244.27	.28
1500.00	.50	236.51	1499.89	-5.15	-10.35	-5.15	11.56	243.54	.27
1600.00	.25	264.40	1599.88	-5.41	-10.93	-5.41	12.20	243.66	.30
1700.00	.25	226.29	1699.88	-5.59	-11.31	-5.59	12.61	243.71	.16
1800.00	.25	243.19	1799.88	-5.83	-11.66	-5.83	13.04	243.42	.07
1900.00	.25	251.08	1899.88	-6.00	-12.06	-6.00	13.47	243.54	.03
2000.00	.25	311.98	1999.88	-5.93	-12.43	-5.93	13.77	244.50	.25
2100.00	.25	156.34	2099.88	-5.98	-12.50	-5.98	13.86	244.43	.49
2200.00	.25	120.23	2199.88	-6.29	-12.23	-6.29	13.75	242.77	.15
2300.00	.75	118.13	2299.87	-6.71	-11.46	-6.71	13.28	239.65	.50
2400.00	.75	103.02	2399.87	-7.17	-10.25	-7.17	12.50	235.03	.20
2500.00	1.00	99.92	2499.85	-7.46	-8.75	-7.46	11.50	229.53	.25
2600.00	.50	94.81	2599.85	-7.65	-7.46	-7.65	10.68	224.26	.50
2700.00	.25	91.70	2699.84	-7.69	-6.80	-7.69	10.27	221.48	.25
2800.00	.50	68.60	2799.84	-7.54	-6.18	-7.54	9.75	219.33	.29
2900.00	.50	94.49	2899.84	-7.42	-5.34	-7.42	9.14	215.74	.22
3000.00	.50	118.39	2999.83	-7.66	-4.52	-7.66	8.89	210.54	.21
3100.00	.25	105.28	3099.83	-7.92	-3.92	-7.92	8.84	206.35	.26
3200.00	.25	140.17	3199.83	-8.15	-3.57	-8.15	8.90	203.68	.15
3300.00	.50	153.07	3299.83	-8.70	-3.24	-8.70	9.29	200.40	.26
3400.00	.25	161.96	3399.83	-9.30	-2.97	-9.30	9.76	197.72	.26
3500.00	.25	169.86	3499.83	-9.72	-2.87	-9.72	10.14	196.42	.03
3600.00	.25	172.75	3599.82	-10.15	-2.80	-10.15	10.53	195.41	.01
3700.00	.25	155.64	3699.82	-10.57	-2.68	-10.57	10.90	194.24	.07
3800.00	.50	167.01	3799.82	-11.19	-2.49	-11.19	11.47	192.56	.26
3900.00	.50	133.90	3899.82	-11.92	-2.08	-11.92	12.10	189.90	.28
4000.00	1.25	102.80	3999.81	-12.47	-.70	-12.47	12.49	183.23	.86
4100.00	1.50	86.69	4099.78	-12.63	1.67	-12.63	12.74	172.48	.46
4200.00	2.50	85.58	4199.72	-12.39	5.15	-12.39	13.42	157.43	1.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
4300.00	2.25	88.48	4299.63	-12.17	9.28	-12.17	15.31	142.65	.28
4400.00	2.25	90.27	4399.55	-12.13	13.21	-12.13	17.93	132.55	.07
4500.00	2.00	94.16	4499.48	-12.26	16.91	-12.26	20.89	125.94	.29
4600.00	1.50	88.95	4599.44	-12.36	19.96	-12.36	23.48	121.77	.52
4700.00	1.75	96.75	4699.40	-12.52	22.79	-12.52	26.00	118.78	.33
4800.00	2.00	87.54	4799.34	-12.62	26.05	-12.62	28.94	115.86	.39
4900.00	1.75	84.34	4899.29	-12.40	29.31	-12.40	31.82	112.93	.27
5000.00	1.75	75.12	4999.24	-11.86	32.31	-11.86	34.41	110.15	.28
5100.00	1.50	74.92	5099.20	-11.12	35.04	-11.12	36.77	107.61	.25
5200.00	1.25	94.72	5199.17	-10.87	37.40	-10.87	38.94	106.21	.53
Last Survey Depth Recorded									
5266.00	1.50	88.31	5265.16	-10.91	38.98	-10.91	40.47	105.63	.44