

Submit 3 Copies To Appropriate District
Office
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

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. 20-005-63880
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: JOHN TOWN 1525-29
8. Well Number 1
9. OGRID Number 230387
10. Pool name or Wildcat WALNUT CREEK WOLF CAMP GAS POOL

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
GR: 3481

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 _____

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 79701

4. Well Location
Unit Letter **I** : **1880** feet from the **SOUTH** line and **255** feet from the **EAST** line
Section **29** Township **15S** Range **25E** NMPM County **CHAVES**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
GR: 3481

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 ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
MULTIPLE COMPLETION ☐	PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☒	
OTHER: ☐	OTHER: TD, SURVEYS, MUD LOG ATTACHED ☒

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.

05-18-08: TD'D @ 9022 @ 3:45 PM
05-20-08: RUN 5.5" CSG, 7.875" HOLE, 17# SET @ 9017'
CMT LEAD: 550 SX INTERFILL-C + 1/4# POLY-E-FLAKE, 11.9 PPG, 2.47 YLD
TAIL: 450 SX ACID SOLUBLE + 10# SILICALITE 50/50 POZ MIX + 0.7% HALAD + 0.25#
D-AIR 3000 + 0.7 HR-601, 15.02 PPG, 2.62 YLD, 110 CENTRALIZERS
TOC: CIRCULATED 120 SX TO SURFACE
WOC: 8 HOURS, TEST CSG TO 1500 PSI FOR 30 MINUTES
GYRODATA GYRO SURVEY, PATHFINDER MWD SURVEY, MUD LOG ATTACHED. NO OPEN-HOLE LOGS RUN.

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 Kaye McCormick TITLE SR PROD & REG TECH DATE 05-22-2008
E-mail address: kmccormick@plll.com
Type or print name KAYE MC CORMICK Telephone No. 432-685-6563

For State Use Only
APPROVED BY _____ TITLE _____ DATE _____
Conditions of Approval, if any:

Accepted for record - NMOCD



Job Number: 101007408WTWT
 Company: Parallel Petroleum
 Lease/Well: John Town 1525-29 # 1
 Location: Chaves Co.
 Rig Name: John Town 1525-29 #1
 RKB:
 G.L. or M.S.L.:

State/Country: New Mexico
 Declination: 8.48
 Grid:
 File name: C:\WINSERVE\7408.SVY
 Date/Time: 18-May-08 / 17:01
 Curve Name: John Town 1525-29#1

Pathfinder Energy Services

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 268.97
 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		Dogleg Severity Deg/100
Distance FT	Direction Deg								
Gyro tie in									
4168.60	.60	106.32	4168.33	-.38	-15.83	15.83	15.83	268.62	.00
4275.00	.35	84.88	4274.73	-.51	-14.97	14.98	14.98	268.06	.28
4339.00	.53	82.03	4338.72	-.45	-14.48	14.49	14.49	268.22	.28
4371.00	.70	79.90	4370.72	-.39	-14.14	14.15	14.15	268.40	.54
4402.00	.62	74.57	4401.72	-.32	-13.80	13.80	13.80	268.69	.33
4434.00	1.58	266.95	4433.72	-.29	-14.07	14.07	14.07	268.80	6.84
4466.00	6.33	270.78	4465.63	-.29	-16.28	16.28	16.28	268.97	14.86
4498.00	10.73	275.27	4497.27	.00	-21.01	21.01	21.01	270.01	13.90
4530.00	15.30	273.54	4528.44	.54	-28.19	28.18	28.20	271.10	14.33
4561.00	19.70	273.93	4558.00	1.15	-37.49	37.47	37.51	271.76	14.20
4593.00	23.65	272.02	4587.73	1.75	-49.29	49.25	49.32	272.03	12.54
4625.00	26.82	268.69	4616.67	1.81	-62.93	62.89	62.95	271.65	10.85
4657.00	29.11	265.21	4644.94	.99	-77.90	77.87	77.91	270.73	8.78
4689.00	32.18	264.18	4672.47	-.52	-94.14	94.14	94.14	269.68	9.73
4720.00	36.05	264.77	4698.13	-2.19	-111.45	111.47	111.47	268.87	12.53
4752.00	40.27	266.37	4723.28	-3.71	-131.15	131.20	131.21	268.38	13.54
4784.00	44.85	267.04	4746.85	-4.94	-152.76	152.82	152.84	268.15	14.38
4816.00	49.24	267.86	4768.65	-5.98	-176.15	176.23	176.25	268.06	13.85
4848.00	53.38	268.13	4788.65	-6.85	-201.10	201.19	201.22	268.05	12.95
4879.00	57.16	268.51	4806.30	-7.60	-226.56	226.66	226.69	268.08	12.24

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	
4911.00	61.11	268.73	4822.72	-8.26	-254.02	254.13	254.15	268.14	12.36
4943.00	65.33	268.66	4837.13	-8.91	-282.57	282.69	282.71	268.19	13.19
4975.00	69.03	268.93	4849.54	-9.53	-312.06	312.18	312.20	268.25	11.59
5007.00	72.55	269.50	4860.07	-9.94	-342.27	342.39	342.41	268.34	11.13
5038.00	76.59	270.10	4868.31	-10.04	-372.14	372.26	372.28	268.45	13.17
5070.00	80.46	270.30	4874.68	-9.93	-403.50	403.61	403.62	268.59	12.11
5101.00	83.98	270.23	4878.87	-9.79	-434.21	434.31	434.32	268.71	11.36
5132.00	86.88	270.56	4881.34	-9.58	-465.10	465.20	465.20	268.82	9.41
5163.00	89.60	270.70	4882.30	-9.24	-496.09	496.17	496.17	268.93	8.79
End Of Curve									
5194.00	92.07	271.32	4881.84	-8.69	-527.07	527.15	527.15	269.06	8.21
5286.00	92.68	271.12	4878.03	-6.73	-618.97	619.00	619.01	269.38	.70
5379.00	91.01	270.71	4875.04	-5.25	-711.91	711.89	711.93	269.58	1.85
5472.00	90.84	270.51	4873.54	-4.26	-804.89	804.84	804.90	269.70	.28
5564.00	89.25	269.24	4873.46	-4.46	-896.89	896.82	896.90	269.72	2.21
5657.00	91.36	270.41	4872.97	-4.74	-989.88	989.80	989.89	269.73	2.59
5750.00	90.75	270.88	4871.26	-3.70	-1082.86	1082.75	1082.86	269.80	.83
5843.00	90.48	270.36	4870.26	-2.69	-1175.85	1175.70	1175.85	269.87	.63
5935.00	90.40	269.67	4869.55	-2.67	-1267.84	1267.69	1267.85	269.88	.75
6028.00	89.52	268.28	4869.62	-4.33	-1360.82	1360.68	1360.83	269.82	1.77
6123.00	89.87	268.33	4870.12	-7.14	-1455.78	1455.67	1455.80	269.72	.37
6219.00	91.28	268.54	4869.16	-9.76	-1551.74	1551.66	1551.77	269.64	1.48
6314.00	89.08	266.78	4868.86	-13.64	-1646.65	1646.63	1646.71	269.53	2.97
6409.00	89.08	266.39	4870.39	-19.30	-1741.47	1741.53	1741.57	269.37	.41
6505.00	89.78	266.77	4871.34	-25.02	-1837.29	1837.44	1837.46	269.22	.83
6600.00	88.99	265.58	4872.36	-31.36	-1932.07	1932.32	1932.33	269.07	1.50
6696.00	91.19	267.23	4872.21	-37.38	-2027.87	2028.22	2028.22	268.94	2.86
6790.00	89.69	266.01	4871.49	-42.92	-2121.70	2122.13	2122.14	268.84	2.06
6886.00	90.84	266.77	4871.04	-48.97	-2217.51	2218.03	2218.05	268.74	1.44
6981.00	91.28	266.94	4869.29	-54.18	-2312.35	2312.95	2312.98	268.66	.50
7076.00	93.12	267.53	4865.64	-58.76	-2407.16	2407.83	2407.88	268.60	2.03
7172.00	92.59	266.65	4860.86	-63.62	-2502.92	2503.66	2503.73	268.54	1.07
7267.00	92.77	266.56	4856.42	-69.24	-2597.65	2598.47	2598.57	268.47	.21
7363.00	92.95	266.39	4851.63	-75.14	-2693.35	2694.26	2694.40	268.40	.26
7458.00	92.51	267.53	4847.10	-80.17	-2788.11	2789.10	2789.26	268.35	1.29
7553.00	89.96	268.26	4845.05	-83.66	-2883.01	2884.05	2884.22	268.34	2.79
7649.00	90.04	267.84	4845.05	-86.93	-2978.96	2980.04	2980.22	268.33	.45
7744.00	90.13	268.34	4844.91	-90.09	-3073.90	3075.02	3075.22	268.32	.53
7839.00	90.13	267.85	4844.70	-93.25	-3168.85	3170.01	3170.22	268.31	.52
7935.00	90.57	269.00	4844.11	-95.89	-3264.81	3266.01	3266.22	268.32	1.28
8030.00	90.48	269.17	4843.24	-97.41	-3359.79	3361.00	3361.20	268.34	.20
8126.00	93.56	271.19	4839.86	-97.11	-3455.72	3456.90	3457.08	268.39	3.84

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	
8221.00	92.15	269.93	4835.13	-96.18	-3550.59	3551.74	3551.89	268.45	1.99
8317.00	91.98	270.11	4831.67	-96.15	-3646.53	3647.67	3647.79	268.49	.26
8412.00	92.24	269.65	4828.17	-96.34	-3741.46	3742.59	3742.70	268.52	.56
8507.00	91.10	270.04	4825.40	-96.60	-3836.42	3837.54	3837.64	268.56	1.27
8602.00	89.52	270.20	4824.89	-96.40	-3931.42	3932.51	3932.60	268.60	1.67
8698.00	89.60	269.96	4825.62	-96.27	-4027.41	4028.49	4028.56	268.63	.26
8793.00	90.22	270.33	4825.77	-96.03	-4122.41	4123.47	4123.53	268.67	.76
8888.00	90.31	269.82	4825.33	-95.90	-4217.41	4218.45	4218.50	268.70	.55
8952.00	90.22	269.74	4825.04	-96.15	-4281.41	4282.45	4282.49	268.71	.19
Projection To Bit									
9022.00	90.22	269.74	4824.77	-96.47	-4351.41	4352.44	4352.48	268.73	.00

A Gyrodata Directional Survey

Field Copy Only, not definitive

for

PARALLEL PETROLEUM

Location: PATRIOT RIG # 1, CHAVES COUNTY, NEW MEXICO

Lease: JOHN TOWN 1529-29 Well: # 1, 4-1/2 DRILLPIPE

Job Number: MD0508GW223

Run Date: 5/13/2008 5:03:43 AM

Surveyor: JAMES KING

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.984097 deg. N Longitude: 104.456706 deg. W

Azimuth Correction:

Gyro: 0.07000 deg East to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

A Gyrodata Directional Survey

PARALLEL PETROLEUM

Location: PATRIOT RIG # 1, CHAVES COUNTY, NEW MEXICO

Lease: JOHN TOWN 1529-29 Well: # 1, 4-1/2 DRILLPIPE

Job Number: MD0508GW223

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.0	0.00	0.00	0.0 0.0	0.00 N 0.00 E

0 - 4168 FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2 DRILLPIPE							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATRIOT RIG 1 RKB (+13)							

100.00	0.07	32.55	0.1	0.07	100.00	0.1 32.5	0.05 N 0.03 E
125.00	0.23	332.90	0.1	0.82	125.00	0.1 10.1	0.11 N 0.02 E
150.00	0.30	325.87	0.2	0.32	150.00	0.2 349.2	0.21 N 0.04 W
175.00	0.44	314.09	0.3	0.62	175.00	0.4 336.3	0.33 N 0.15 W
200.00	0.57	284.92	0.4	1.13	200.00	0.5 322.2	0.43 N 0.34 W
225.00	0.56	269.86	0.5	0.59	225.00	0.7 308.7	0.46 N 0.58 W
250.00	0.59	274.80	0.5	0.24	250.00	1.0 299.8	0.48 N 0.83 W
275.00	0.62	266.60	0.5	0.37	274.99	1.2 293.6	0.48 N 1.10 W
300.00	0.60	255.75	0.4	0.47	299.99	1.4 287.8	0.44 N 1.36 W
325.00	0.57	251.93	0.4	0.22	324.99	1.6 282.9	0.37 N 1.60 W
350.00	0.64	242.33	0.3	0.50	349.99	1.9 278.1	0.26 N 1.85 W
375.00	0.47	240.61	0.1	0.68	374.99	2.1 274.1	0.15 N 2.06 W
400.00	0.44	242.39	0.1	0.14	399.99	2.2 271.3	0.05 N 2.24 W
425.00	0.41	231.56	-0.1	0.35	424.99	2.4 268.9	0.05 S 2.39 W
450.00	0.45	235.52	-0.2	0.19	449.99	2.5 266.4	0.16 S 2.54 W
475.00	0.58	247.79	-0.3	0.68	474.99	2.7 264.6	0.26 S 2.74 W
500.00	0.60	253.97	-0.3	0.27	499.98	3.0 263.4	0.34 S 2.98 W
525.00	0.57	254.97	-0.4	0.13	524.98	3.3 262.7	0.41 S 3.23 W
550.00	0.58	254.72	-0.5	0.04	549.98	3.5 262.1	0.48 S 3.47 W
575.00	0.59	243.90	-0.6	0.45	574.98	3.7 261.3	0.57 S 3.71 W

A Gyrodata Directional Survey

PARALLEL PETROLEUM

Location: PATRIOT RIG # 1, CHAVES COUNTY, NEW MEXICO

Lease: JOHN TOWN 1529-29 Well: # 1, 4-1/2 DRILLPIPE

Job Number: MD0508GW223

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
600.00	0.35	226.94	-0.7	1.12	599.98	3.9 260.1	0.68 S 3.88 W
625.00	0.06	133.08	-0.7	1.42	624.98	4.0 259.4	0.74 S 3.92 W
650.00	0.23	182.71	-0.8	0.80	649.98	4.0 258.5	0.80 S 3.92 W
675.00	0.41	205.67	-0.9	0.85	674.98	4.1 256.8	0.93 S 3.96 W
700.00	0.50	222.27	-1.1	0.63	699.98	4.2 255.0	1.09 S 4.07 W
725.00	0.52	227.39	-1.2	0.20	724.98	4.4 253.6	1.24 S 4.23 W
750.00	0.51	230.81	-1.4	0.13	749.98	4.6 252.5	1.39 S 4.39 W
775.00	0.54	228.67	-1.5	0.17	774.98	4.8 251.4	1.54 S 4.57 W
800.00	0.57	230.12	-1.7	0.12	799.97	5.0 250.4	1.70 S 4.75 W
825.00	0.67	228.78	-1.9	0.40	824.97	5.3 249.3	1.87 S 4.96 W
850.00	0.98	214.36	-2.1	1.49	849.97	5.6 247.5	2.15 S 5.19 W
875.00	1.40	199.47	-2.6	2.06	874.96	6.0 244.3	2.61 S 5.41 W
900.00	1.47	203.15	-3.2	0.47	899.96	6.5 240.5	3.19 S 5.64 W
925.00	1.38	203.67	-3.8	0.39	924.95	7.0 237.4	3.77 S 5.89 W
950.00	1.23	202.82	-4.3	0.60	949.94	7.5 235.0	4.29 S 6.11 W
975.00	1.16	196.72	-4.8	0.57	974.94	7.9 232.8	4.78 S 6.29 W
1000.00	1.14	196.69	-5.3	0.10	999.93	8.3 230.7	5.26 S 6.44 W
1025.00	1.18	197.77	-5.7	0.18	1024.93	8.7 228.9	5.74 S 6.59 W
1050.00	1.22	197.58	-6.2	0.15	1049.92	9.2 227.2	6.24 S 6.74 W
1075.00	1.20	196.49	-6.8	0.11	1074.92	9.6 225.6	6.75 S 6.90 W
1100.00	1.13	196.89	-7.2	0.31	1099.91	10.1 224.2	7.23 S 7.04 W
1125.00	1.05	191.10	-7.7	0.53	1124.91	10.5 222.9	7.69 S 7.16 W
1150.00	1.05	174.43	-8.1	1.22	1149.90	10.9 221.4	8.14 S 7.18 W
1175.00	1.21	173.25	-8.6	0.66	1174.90	11.2 219.5	8.63 S 7.13 W
1200.00	1.28	173.51	-9.2	0.30	1199.89	11.6 217.6	9.17 S 7.07 W

A Gyrodata Directional Survey

PARALLEL PETROLEUM

Location: PATRIOT RIG # 1, CHAVES COUNTY, NEW MEXICO

Lease: JOHN TOWN 1529-29 Well: # 1, 4-1/2 DRILLPIPE

Job Number: MD0508GW223

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
1225.00	1.38	188.10	-9.8	1.40	1224.88	12.0 216.0	9.75 S 7.08 W
1250.00	1.40	191.69	-10.4	0.36	1249.88	12.6 214.8	10.35 S 7.18 W
1275.00	1.28	198.23	-10.9	0.78	1274.87	13.1 213.9	10.91 S 7.33 W
1300.00	1.17	203.32	-11.4	0.62	1299.86	13.7 213.4	11.41 S 7.52 W
1325.00	0.96	212.34	-11.8	1.06	1324.86	14.1 213.2	11.82 S 7.73 W
1350.00	0.84	218.96	-12.1	0.63	1349.86	14.5 213.2	12.14 S 7.96 W
1375.00	0.67	229.34	-12.4	0.90	1374.86	14.8 213.5	12.38 S 8.18 W
1400.00	0.46	219.38	-12.6	0.91	1399.85	15.1 213.7	12.55 S 8.36 W
1425.00	0.57	174.82	-12.8	1.62	1424.85	15.3 213.4	12.75 S 8.41 W
1450.00	0.93	195.14	-13.1	1.76	1449.85	15.6 212.9	13.07 S 8.45 W
1475.00	0.78	216.78	-13.4	1.42	1474.85	15.9 212.7	13.41 S 8.61 W
1500.00	0.56	228.36	-13.6	1.01	1499.85	16.2 212.9	13.62 S 8.80 W
1525.00	0.37	247.61	-13.7	0.97	1524.85	16.4 213.1	13.73 S 8.97 W
1550.00	0.33	254.16	-13.8	0.23	1549.85	16.5 213.5	13.79 S 9.11 W
1575.00	0.29	280.13	-13.8	0.58	1574.84	16.6 213.8	13.79 S 9.24 W
1600.00	0.29	267.32	-13.8	0.26	1599.84	16.7 214.2	13.79 S 9.37 W
1625.00	0.27	265.81	-13.8	0.08	1624.84	16.7 214.5	13.79 S 9.49 W
1650.00	0.31	289.30	-13.8	0.50	1649.84	16.8 214.9	13.77 S 9.62 W
1675.00	0.40	351.40	-13.7	1.49	1674.84	16.8 215.4	13.67 S 9.70 W
1700.00	0.46	352.03	-13.5	0.25	1699.84	16.6 215.8	13.48 S 9.72 W
1725.00	0.38	348.76	-13.3	0.35	1724.84	16.5 216.2	13.30 S 9.75 W
1750.00	0.60	3.46	-13.1	1.00	1749.84	16.3 216.7	13.09 S 9.76 W
1775.00	0.62	17.95	-12.8	0.62	1774.84	16.1 217.1	12.83 S 9.71 W
1800.00	0.63	37.79	-12.6	0.86	1799.84	15.8 217.3	12.60 S 9.58 W
1825.00	0.64	41.42	-12.4	0.16	1824.84	15.6 217.2	12.38 S 9.41 W

A Gyrodata Directional Survey

PARALLEL PETROLEUM

Location: PATRIOT RIG # 1, CHAVES COUNTY, NEW MEXICO

Lease: JOHN TOWN 1529-29 Well: # 1, 4-1/2 DRILLPIPE

Job Number: MD0508GW223

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
1850.00	0.61	47.80	-12.2	0.30	1849.84	15.3 217.1	12.19 S 9.22 W
1875.00	0.40	53.37	-12.1	0.83	1874.83	15.1 216.9	12.05 S 9.05 W
1900.00	0.19	21.10	-12.0	1.05	1899.83	14.9 216.9	11.96 S 8.96 W
1925.00	0.21	349.01	-11.9	0.45	1924.83	14.9 217.0	11.87 S 8.96 W
1950.00	0.25	315.39	-11.8	0.55	1949.83	14.8 217.4	11.79 S 9.00 W
1975.00	0.40	315.19	-11.7	0.61	1974.83	14.8 217.9	11.69 S 9.10 W
2000.00	0.34	323.30	-11.6	0.32	1999.83	14.8 218.5	11.57 S 9.21 W
2025.00	0.34	323.71	-11.4	0.03	2024.83	14.7 219.1	11.45 S 9.30 W
2050.00	0.47	329.95	-11.3	0.52	2049.83	14.7 219.7	11.30 S 9.39 W
2075.00	0.44	339.87	-11.1	0.33	2074.83	14.6 220.4	11.12 S 9.48 W
2100.00	0.36	329.96	-11.0	0.42	2099.83	14.5 221.1	10.96 S 9.55 W
2125.00	0.53	337.44	-10.8	0.72	2124.83	14.5 221.8	10.78 S 9.63 W
2150.00	0.47	347.15	-10.6	0.43	2149.83	14.4 222.5	10.58 S 9.70 W
2175.00	0.48	338.44	-10.4	0.29	2174.83	14.3 223.2	10.38 S 9.76 W
2200.00	0.52	328.45	-10.2	0.39	2199.83	14.2 224.1	10.19 S 9.86 W
2225.00	0.41	324.26	-10.0	0.47	2224.83	14.1 224.9	10.02 S 9.97 W
2250.00	0.44	336.08	-9.9	0.36	2249.83	14.1 225.6	9.86 S 10.06 W
2275.00	0.40	330.88	-9.7	0.20	2274.82	14.0 226.3	9.69 S 10.14 W
2300.00	0.37	323.70	-9.6	0.23	2299.82	14.0 227.0	9.55 S 10.24 W
2325.00	0.41	320.31	-9.4	0.19	2324.82	14.0 227.7	9.42 S 10.34 W
2350.00	0.47	324.65	-9.3	0.24	2349.82	14.0 228.5	9.27 S 10.46 W
2375.00	0.46	322.07	-9.1	0.09	2374.82	14.0 229.3	9.10 S 10.58 W
2400.00	0.48	320.97	-8.9	0.11	2399.82	13.9 230.1	8.94 S 10.70 W
2425.00	0.41	323.71	-8.8	0.30	2424.82	13.9 230.9	8.79 S 10.82 W

A Gyrodata Directional Survey

PARALLEL PETROLEUM

Location: PATRIOT RIG # 1, CHAVES COUNTY, NEW MEXICO

Lease: JOHN TOWN 1529-29 Well: # 1, 4-1/2 DRILLPIPE

Job Number: MD0508GW223

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
2450.00	0.50	318.02	-8.6	0.40	2449.82	13.9 231.7	8.64 S 10.95 W
2475.00	0.43	316.07	-8.5	0.30	2474.82	14.0 232.6	8.49 S 11.09 W
2500.00	0.44	327.20	-8.3	0.34	2499.82	14.0 233.3	8.34 S 11.20 W
2525.00	0.43	314.45	-8.2	0.39	2524.82	14.0 234.1	8.19 S 11.32 W
2550.00	0.48	319.26	-8.1	0.25	2549.82	14.0 234.9	8.05 S 11.46 W
2575.00	0.53	302.77	-7.9	0.61	2574.82	14.1 235.8	7.90 S 11.63 W
2600.00	0.40	303.48	-7.8	0.51	2599.81	14.1 236.5	7.79 S 11.80 W
2625.00	0.51	287.76	-7.7	0.67	2624.81	14.2 237.2	7.71 S 11.98 W
2650.00	0.47	293.40	-7.6	0.26	2649.81	14.4 237.9	7.64 S 12.18 W
2675.00	0.53	296.29	-7.5	0.27	2674.81	14.5 238.6	7.54 S 12.38 W
2700.00	0.53	284.88	-7.5	0.42	2699.81	14.6 239.3	7.46 S 12.59 W
2725.00	0.78	284.31	-7.4	1.00	2724.81	14.8 240.1	7.39 S 12.87 W
2750.00	0.72	285.60	-7.3	0.23	2749.81	15.1 241.0	7.31 S 13.18 W
2775.00	0.92	284.58	-7.2	0.81	2774.80	15.3 241.9	7.21 S 13.53 W
2800.00	0.94	297.47	-7.1	0.84	2799.80	15.6 243.1	7.07 S 13.91 W
2825.00	0.93	309.85	-6.8	0.81	2824.80	15.8 244.3	6.85 S 14.24 W
2850.00	0.91	321.42	-6.6	0.74	2849.79	15.9 245.7	6.56 S 14.52 W
2875.00	0.76	326.02	-6.3	0.66	2874.79	16.0 247.0	6.27 S 14.74 W
2900.00	0.90	322.43	-6.0	0.60	2899.79	16.1 248.2	5.98 S 14.95 W
2925.00	0.89	326.27	-5.7	0.24	2924.79	16.2 249.5	5.66 S 15.18 W
2950.00	0.93	320.78	-5.3	0.39	2949.78	16.3 250.9	5.34 S 15.41 W
2975.00	0.85	314.97	-5.0	0.50	2974.78	16.5 252.1	5.05 S 15.67 W
3000.00	0.97	310.79	-4.8	0.54	2999.78	16.7 253.3	4.78 S 15.96 W
3025.00	0.86	290.58	-4.6	1.35	3024.77	16.9 254.3	4.58 S 16.30 W

A Gyrodata Directional Survey

PARALLEL PETROLEUM

Location: PATRIOT RIG # 1, CHAVES COUNTY, NEW MEXICO

Lease: JOHN TOWN 1529-29 Well: # 1, 4-1/2 DRILLPIPE

Job Number: MD0508GW223

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
3050.00	0.52	274.71	-4.5	1.53	3049.77	17.2 254.8	4.51 S 16.59 W
3075.00	0.31	285.41	-4.5	0.87	3074.77	17.4 255.0	4.48 S 16.76 W
3100.00	0.42	352.25	-4.4	1.65	3099.77	17.4 255.5	4.37 S 16.84 W
3125.00	0.78	334.25	-4.1	1.63	3124.77	17.4 256.3	4.13 S 16.93 W
3150.00	0.88	327.41	-3.8	0.56	3149.77	17.5 257.4	3.81 S 17.11 W
3175.00	0.86	324.51	-3.5	0.19	3174.76	17.7 258.6	3.49 S 17.32 W
3200.00	0.82	320.50	-3.2	0.30	3199.76	17.8 259.7	3.20 S 17.54 W
3225.00	0.81	321.10	-2.9	0.05	3224.76	18.0 260.6	2.93 S 17.77 W
3250.00	0.84	327.35	-2.6	0.37	3249.76	18.2 261.7	2.64 S 17.98 W
3275.00	0.77	340.24	-2.3	0.77	3274.75	18.3 262.7	2.32 S 18.13 W
3300.00	0.64	359.06	-2.0	1.05	3299.75	18.3 263.6	2.03 S 18.19 W
3325.00	0.46	10.36	-1.8	0.85	3324.75	18.3 264.4	1.79 S 18.18 W
3350.00	0.18	349.59	-1.6	1.19	3349.75	18.2 264.8	1.65 S 18.17 W
3375.00	0.09	308.12	-1.6	0.51	3374.75	18.3 265.0	1.60 S 18.19 W
3400.00	0.29	277.94	-1.6	0.86	3399.75	18.3 265.1	1.58 S 18.27 W
3425.00	0.43	295.05	-1.5	0.72	3424.75	18.5 265.3	1.53 S 18.42 W
3450.00	0.62	318.48	-1.4	1.12	3449.75	18.6 265.7	1.39 S 18.59 W
3475.00	0.72	313.91	-1.2	0.47	3474.75	18.8 266.4	1.18 S 18.79 W
3500.00	0.60	299.84	-1.0	0.82	3499.75	19.0 267.0	1.00 S 19.02 W
3525.00	0.18	256.93	-0.9	1.92	3524.74	19.2 267.2	0.95 S 19.17 W
3550.00	0.07	80.77	-0.9	0.99	3549.74	19.2 267.2	0.95 S 19.19 W
3575.00	0.12	76.58	-0.9	0.21	3574.74	19.2 267.2	0.94 S 19.15 W
3600.00	0.22	85.42	-0.9	0.41	3599.74	19.1 267.2	0.93 S 19.08 W
3625.00	0.45	58.48	-0.9	1.08	3624.74	19.0 267.3	0.88 S 18.95 W

A Gyrodata Directional Survey

PARALLEL PETROLEUM

Location: PATRIOT RIG # 1, CHAVES COUNTY, NEW MEXICO

Lease: JOHN TOWN 1529-29 Well: # 1, 4-1/2 DRILLPIPE

Job Number: MD0508GW223

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
3650.00	0.38	86.75	-0.8	0.85	3649.74	18.8 267.5	0.82 S 18.78 W
3675.00	0.38	59.88	-0.8	0.71	3674.74	18.6 267.6	0.78 S 18.63 W
3700.00	0.40	82.82	-0.7	0.62	3699.74	18.5 267.8	0.72 S 18.47 W
3725.00	0.44	69.26	-0.7	0.42	3724.74	18.3 267.9	0.68 S 18.29 W
3750.00	0.53	74.97	-0.6	0.44	3749.74	18.1 268.1	0.61 S 18.09 W
3775.00	0.30	102.68	-0.6	1.20	3774.74	17.9 268.1	0.60 S 17.91 W
3800.00	0.07	150.79	-0.6	1.05	3799.74	17.9 268.0	0.63 S 17.84 W
3825.00	0.11	12.87	-0.6	0.67	3824.74	17.8 268.0	0.62 S 17.83 W
3850.00	0.12	156.64	-0.6	0.88	3849.74	17.8 268.0	0.62 S 17.81 W
3875.00	0.12	96.11	-0.7	0.49	3874.74	17.8 267.9	0.65 S 17.78 W
3900.00	0.22	38.18	-0.6	0.75	3899.74	17.7 268.0	0.61 S 17.72 W
3925.00	0.27	63.48	-0.6	0.48	3924.74	17.6 268.2	0.55 S 17.64 W
3950.00	0.32	73.44	-0.5	0.29	3949.74	17.5 268.4	0.50 S 17.52 W
3975.00	0.23	89.51	-0.5	0.48	3974.74	17.4 268.4	0.48 S 17.40 W
4000.00	0.23	297.40	-0.5	1.80	3999.74	17.4 268.5	0.46 S 17.39 W
4025.00	0.47	62.77	-0.4	2.53	4024.74	17.4 268.7	0.39 S 17.35 W
4050.00	0.64	69.91	-0.3	0.72	4049.74	17.1 269.0	0.29 S 17.13 W
4075.00	0.65	88.05	-0.2	0.81	4074.74	16.9 269.2	0.24 S 16.85 W
4100.00	0.65	106.37	-0.3	0.82	4099.73	16.6 269.1	0.27 S 16.58 W
4125.00	0.59	90.97	-0.3	0.70	4124.73	16.3 268.9	0.32 S 16.31 W
4150.00	0.65	95.39	-0.3	0.30	4149.73	16.0 268.8	0.33 S 16.04 W
4168.59	0.60	106.32	-0.4	0.70	4168.32	15.8 268.7	0.37 S 15.85 W

Final Station Closure: Distance: 15.85 ft Az: 268.67 deg.