

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

WELL API NO.

30-015-35856

5. Indicate Type of Lease

STATE ☒FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name:

PARIS DRAW STATE OOM 1624-21

8. Well Number

7

9. OGRID Number

230387

10. Pool name or Wildcat

COTTONWOOD CREEK, WOLF CAMP WEST

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

APR - 3 2008

2. Name of Operator

PARALLEL PETROLEUM CORPORATION

OCD-ARTESIA

3. Address of Operator

1004 N BIG SPRING, SUITE 400, MIDLAND, TX 79701

4. Well Location

Unit Letter A : 760 feet from the NORTH line and 195 feet from the EAST lineSection 20 Township 16S Range 24E NMPM County EDDY

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

GR: 3638

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: PATHFINDER MWD&GYRO SURVEYS, OPEN-HOLE LOG ☒

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.

03-30-2008: REACHED CASING POINT @ 8745 MD

04-01-2008: SET 5.5 CSG, 7.875 HOLE, 17# SET @ 8745

LEAD W: 500 SX HALLIBURTON LIGHT PREMIUM + 1/8# POLY E FLAKE, 11.7 PPG, 2.47 YLD

TAIL W: 530 SX HALLIBURTON ACID SOLUBLE + 0.7% HALAD-344 + 0.7% HR-601 + 1/4# D-AIR

+ 10# SILICALITE 50/50 POZ, 15.2 PPG, 2.62 YLD

98 CENTRALIZERS; TOC: CIRCULATED 106 SX TO SURFACE; WOC: 8 HRS TEST CSG TO 1500 PSI, 30 MIN

ATTACHED: PATHFINDER MWD SURVEY, GYRODATA GYRO SURVEY & OPEN-HOLE LOG

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 04-02-2008Type or print name KAYE MC CORMICK

E-mail address:

kmcormick@plll.com

Telephone No. 432-685-6563

For State Use Only

APPROVED BY _____ TITLE _____ DATE _____

Conditions of Approval, if any:

Accepted for record - NMOCD

Parallel Petroleum Corp.

Paris Draw State Com 1624-21 #7

S20 T16S R24E

Paris Draw State Com 1624-21

Original Hole

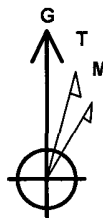
Survey: MWD

Pathfinder Standard X & Y Report

31 March, 2008

PARALLEL

PETROLEUM CORPORATION



Azimuths to Grid North
True North: 0.15°
Magnetic North: 8.63°

Magnetic Field
Strength: 49259.2snT
Dip Angle: 60.73°
Date: 3/16/2008
Model: IGRF200510

PATHFINDER

ENERGY SERVICES

WELL DETAILS Paris Draw State Com 1624-21						
Ground Elevation		3638.00				
RKB Elevation		EST RKB @ 3638.00ft				
Rig Name						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0 00	0 00	696097 800	458496.700	32° 54' 47.868 N	104° 36' 11.814 W	

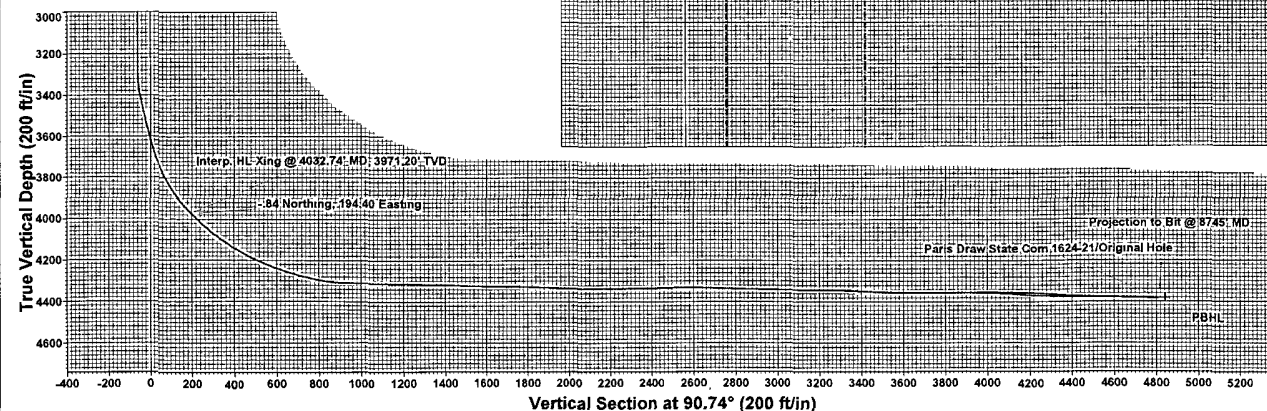
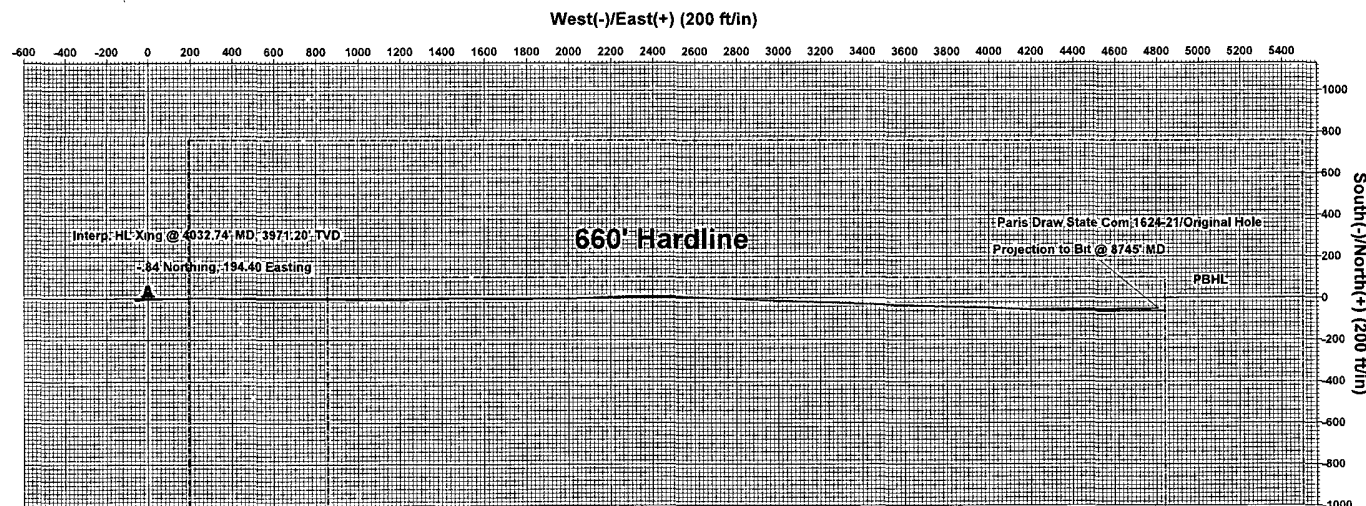
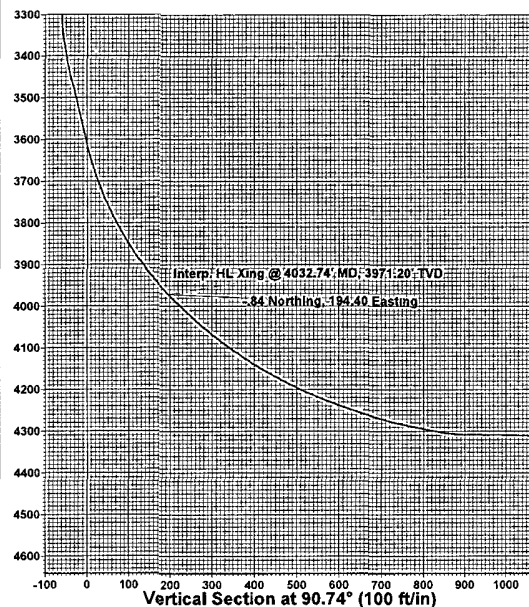
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	7839.00	90.22	92.11	4354.56	-44.43	3904.69	0.00	0.00	3904.94	
2	8007.80	86.00	92.11	4360.12	-50.64	4073.25	2.50	180.00	4073.56	
3	8107.80	86.00	92.11	4367.10	-54.31	4172.94	0.00	0.00	4173.29	
4	8257.80	89.00	92.11	4373.64	-59.83	4322.68	2.00	0.00	4323.09	
5	8358.28	89.00	90.10	4375.39	-61.76	4423.12	2.00	-90.02	4423.55	
6	8393.28	89.00	90.10	4376.00	-61.83	4458.12	0.00	0.00	4458.54	
7	8742.54	89.00	90.10	4382.10	-62.43	4807.32	0.00	0.00	4807.72	PBHL
8	8777.54	89.00	90.10	4382.71	-62.50	4842.31	0.00	0.00	4842.71	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL	4382.10	-4.20	4843.90	696093.600	463340.600
Shape Point					

Project: Paris Draw State Com 1624-21 #7
Site: S20 T16S R24E
Well: Paris Draw State Com 1624-21
Wellbore: Original Hole

Plan: Plan #3 (Paris Draw State Com 1624-21/Original Hole)

EOW



PROJECT DETAILS: Paris Draw State Com 1624-21 #7
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grd

Plan: Plan #3 (Paris Draw State Com 1624-21/Original Hole)

Created By: Mark Freeman Date: 6/35, March 31 2008

Checked: _____ Date: _____

WHS

Pathfinder Standard X & Y Report

Company: Parallel Petroleum Corp. Project: Paris Draw State Com 1624-21 #7 Site: S20 T16S R24E Well: Paris Draw State Com 1624-21 Wellbore: Original Hole Design: Original Hole	<table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> Local Co-ordinate Reference: Well Paris Draw State Com 1624-21 TVD Reference: EST RKB @ 3638.00ft MD Reference: EST RKB @ 3638.00ft North Reference: Grd Survey Calculation Method: Minimum Curvature Database: EDM 2003.16 Single User Db </td> <td style="width: 50%;"></td> </tr> </table>	Local Co-ordinate Reference: Well Paris Draw State Com 1624-21 TVD Reference: EST RKB @ 3638.00ft MD Reference: EST RKB @ 3638.00ft North Reference: Grd Survey Calculation Method: Minimum Curvature Database: EDM 2003.16 Single User Db	
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Project	Paris Draw State Com 1624-21 #7
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Map System: US State Plane 1983 Geo Datum: North American Datum 1983 Map Zone: New Mexico Eastern Zone	System Datum: Mean Sea Level
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Site	S20 T16S R24E
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Site Position:	Northing: 696,097.800 ft	Latitude: 32° 54' 47.868 N
From: Map	Easting: 458,496.700 ft	Longitude: 104° 36' 11.814 W
Position Uncertainty: 0.00 ft	Slot Radius: "	Grid Convergence: -0.15 °

Well	Paris Draw State Com 1624-21
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Well Position	Northing: 696,097.800 ft	Latitude: 32° 54' 47.868 N
+N/-S 0.00 ft	Easting: 458,496.700 ft	Longitude: 104° 36' 11.814 W
+E/-W 0.00 ft	Wellhead Elevation: ft	Ground Level: 3,638.00 ft
Position Uncertainty 0.00 ft		

Wellbore	Original Hole
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	3/16/2008	8.48	60.73	49,259

Design	Original Hole
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Audit Notes:				
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.00		

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	90.05

WHS

Pathfinder Standard X & Y Report

Company:	Parallel Petroleum Corp.	Local Co-ordinate Reference:	Well Paris Draw State Com 1624-21
Project:	Paris Draw State Com 1624-21 #7	TVD Reference:	EST RKB @ 3638.00ft
Site:	S20 T16S R24E	MD Reference:	EST RKB @ 3638.00ft
Well:	Paris Draw State Com 1624-21	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 2003.16 Single User Db

Survey Program	Date 3/31/2008			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	3,300.00	Gyro Survey (Original Hole)	NS-GYRO-MS	North sensing gyrocompassing m
3,324.00	8,745.00	MWD (Original Hole)	MWD	MWD - Standard

Survey									
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	TFace (°)
3,300.00	0.75	36.97	3,299.16	-338.84	-7.36	-59.74	-59.74	0.00	0.00
3,324.00	3.52	67.10	3,323.14	-314.86	-6.95	-58.97	-58.97	12.08	37.55
3,356.00	6.60	72.65	3,355.02	-282.98	-6.02	-56.31	-56.30	9.73	11.80
3,388.00	9.67	77.21	3,386.69	-251.31	-4.88	-51.93	-51.93	9.80	14.14
3,419.00	12.75	81.64	3,417.10	-220.90	-3.80	-46.01	-46.00	10.31	17.80
3,451.00	13.89	89.32	3,448.24	-189.76	-3.24	-38.67	-38.67	6.57	60.98
3,483.00	13.98	91.74	3,479.30	-158.70	-3.31	-30.97	-30.97	1.84	82.40
3,515.00	13.45	90.74	3,510.38	-127.62	-3.48	-23.38	-23.38	1.81	-156.38
3,547.00	12.84	89.89	3,541.54	-96.46	-3.52	-16.11	-16.10	2.00	-162.83
3,578.00	12.57	90.21	3,571.79	-66.21	-3.53	-9.29	-9.29	0.90	165.55
3,610.00	12.75	90.21	3,603.01	-34.99	-3.55	-2.28	-2.27	0.56	0.00
3,642.00	15.56	92.44	3,634.03	-3.97	-3.75	5.55	5.55	8.94	12.07
3,674.00	17.32	93.11	3,664.72	26.72	-4.19	14.59	14.59	5.53	6.47
3,706.00	19.17	91.55	3,695.11	57.11	-4.59	24.60	24.60	5.98	-15.53
3,738.00	21.28	89.84	3,725.14	87.14	-4.72	35.66	35.66	6.85	-16.46
3,769.00	24.45	87.53	3,753.70	115.70	-4.42	47.70	47.70	10.63	-16.88
3,801.00	26.73	86.50	3,782.56	144.56	-3.70	61.50	61.50	7.26	-11.51
3,833.00	28.93	87.47	3,810.86	172.86	-2.92	76.42	76.42	7.02	12.06
3,865.00	30.34	89.39	3,838.67	200.67	-2.49	92.23	92.23	5.31	34.79
3,897.00	33.50	90.01	3,865.83	227.83	-2.41	109.15	109.15	9.93	6.19
3,929.00	36.14	89.43	3,892.10	254.10	-2.31	127.42	127.42	8.31	-7.39

WHS
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Company:	Parallel Petroleum Corp.	Local Co-ordinate Reference:	Well Paris Draw State Com 1624-21
Project:	Paris Draw State Com 1624-21 #7	TVD Reference:	EST RKB @ 3638.00ft
Site:	S20 T16S R24E	MD Reference:	EST RKB @ 3638.00ft
Well:	Paris Draw State Com 1624-21	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 2003.16 Single User Db

Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	TFace (°)	
3,960.00	38.95	88.71	3,916.67	278.67	-2.00	146.30	146.31	9.17	-9.16	
3,992.00	41.24	88.40	3,941.15	303.15	-1.48	166.91	166.91	7.18	-5.10	
4,023.00	43.09	88.82	3,964.13	326.13	-0.98	187.71	187.71	6.04	8.82	
4,055.00	45.20	88.72	3,987.09	349.09	-0.50	209.99	209.99	6.60	-1.93	
4,086.00	46.34	88.79	4,008.71	370.71	-0.02	232.20	232.20	3.68	2.54	
4,118.00	47.75	89.85	4,030.52	392.52	0.26	255.61	255.61	5.03	29.18	
4,150.00	49.42	91.07	4,051.69	413.69	0.06	279.61	279.61	5.95	29.12	
4,182.00	50.91	91.73	4,072.18	434.18	-0.54	304.17	304.17	4.92	19.00	
4,214.00	53.38	92.65	4,091.82	453.82	-1.51	329.42	329.42	8.05	16.67	
4,245.00	54.43	92.83	4,110.08	472.08	-2.71	354.44	354.44	3.42	7.94	
4,277.00	56.28	91.97	4,128.27	490.27	-3.81	380.74	380.74	6.19	-21.17	
4,309.00	58.12	90.93	4,145.61	507.61	-4.48	407.63	407.63	6.37	-25.70	
4,341.00	60.23	90.59	4,162.00	524.00	-4.85	435.10	435.11	6.66	-7.97	
4,373.00	62.08	89.76	4,177.44	539.44	-4.93	463.13	463.14	6.21	-21.66	
4,404.00	63.93	89.37	4,191.51	553.51	-4.72	490.75	490.76	6.07	-10.73	
4,436.00	65.60	89.31	4,205.16	567.16	-4.39	519.70	519.70	5.22	-1.87	
4,468.00	67.36	89.31	4,217.92	579.92	-4.03	549.03	549.04	5.50	0.00	
4,500.00	68.76	89.84	4,229.88	591.88	-3.82	578.72	578.72	4.64	19.45	
4,532.00	69.91	89.67	4,241.17	603.17	-3.69	608.66	608.66	3.63	-7.91	
4,564.00	71.05	90.03	4,251.87	613.87	-3.61	638.82	638.82	3.72	16.64	
4,596.00	72.37	90.68	4,261.91	623.91	-3.80	669.20	669.20	4.55	25.16	
4,627.00	73.78	90.53	4,270.93	632.93	-4.11	698.85	698.86	4.57	-5.83	
4,659.00	75.53	89.91	4,279.40	641.40	-4.23	729.71	729.71	5.78	-18.95	
4,691.00	77.73	89.67	4,286.80	648.80	-4.11	760.84	760.84	6.91	-6.09	
4,723.00	78.17	89.73	4,293.48	655.48	-3.95	792.13	792.14	1.39	7.60	
4,755.00	79.49	90.10	4,299.68	661.68	-3.90	823.53	823.53	4.28	15.41	
4,786.00	82.66	91.01	4,304.49	666.49	-4.20	854.15	854.15	10.63	15.91	

WHS

Pathfinder Standard X & Y Report

Company:	Parallel Petroleum Corp.	Local Co-ordinate Reference:	Well Paris Draw State Com 1624-21
Project:	Paris Draw State Com 1624-21 #7	TVD Reference:	EST RKB @ 3638.00ft
Site:	S20 T16S R24E	MD Reference:	EST RKB @ 3638.00ft
Well:	Paris Draw State Com 1624-21	North Reference:	Gnd
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 2003.16 Single User Db

Survey									
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	TFace (°)
4,818.00	86.44	91.70	4,307.53	669.53	-4.95	885.99	885.99	12.01	10.33
4,850.00	89.43	91.76	4,308.68	670.68	-5.92	917.95	917.95	9.35	1.15
4,945.00	88.90	91.02	4,310.06	672.06	-8.22	1,012.91	1,012.92	0.96	-125.62
5,008.00	88.64	90.74	4,311.42	673.42	-9.19	1,075.89	1,075.89	0.61	-132.89
5,103.00	89.25	89.57	4,313.17	675.17	-9.45	1,170.87	1,170.88	1.39	-62.47
5,198.00	88.72	88.33	4,314.85	676.85	-7.71	1,265.84	1,265.84	1.42	-113.16
5,294.00	89.78	87.67	4,316.11	678.11	-4.36	1,361.77	1,361.77	1.30	-31.91
5,389.00	86.97	89.47	4,318.80	680.80	-1.99	1,456.69	1,456.69	3.51	147.39
5,484.00	88.72	91.15	4,322.37	684.37	-2.50	1,551.61	1,551.61	2.55	43.85
5,577.00	88.46	90.77	4,324.66	686.66	-4.06	1,644.57	1,644.57	0.49	-124.39
5,670.00	88.72	89.79	4,326.95	688.95	-4.51	1,737.54	1,737.54	1.09	-75.15
5,763.00	88.20	89.51	4,329.45	691.45	-3.95	1,830.50	1,830.51	0.63	-151.71
5,855.00	87.93	89.81	4,332.55	694.55	-3.40	1,922.45	1,922.45	0.44	132.01
5,948.00	88.37	88.31	4,335.56	697.56	-1.88	2,015.38	2,015.39	1.68	-73.67
6,041.00	90.40	87.41	4,336.55	698.55	1.60	2,108.31	2,108.31	2.39	-23.92
6,133.00	90.67	87.76	4,335.70	697.70	5.47	2,200.22	2,200.22	0.48	52.35
6,226.00	90.57	88.17	4,334.69	696.69	8.78	2,293.16	2,293.15	0.45	103.71
6,319.00	91.01	90.45	4,333.41	695.41	9.90	2,386.14	2,386.13	2.50	79.06
6,411.00	91.19	91.35	4,331.64	693.64	8.45	2,478.11	2,478.10	1.00	78.68
6,506.00	89.96	92.49	4,330.69	692.69	5.27	2,573.05	2,573.04	1.77	137.17
6,601.00	88.37	92.74	4,332.07	694.07	0.93	2,667.93	2,667.93	1.69	171.07
6,697.00	88.11	92.42	4,335.02	697.02	-3.38	2,763.79	2,763.79	0.43	-129.11
6,791.00	88.46	92.42	4,337.83	699.83	-7.35	2,857.66	2,857.67	0.37	0.00
6,887.00	88.55	92.42	4,340.34	702.34	-11.40	2,953.55	2,953.55	0.09	0.00
6,982.00	89.25	92.07	4,342.16	704.16	-15.12	3,048.45	3,048.47	0.82	-26.56
7,077.00	89.87	92.46	4,342.89	704.89	-18.88	3,143.38	3,143.39	0.77	32.17
7,173.00	89.52	92.13	4,343.40	705.40	-22.72	3,239.30	3,239.32	0.50	-136.69

WHS

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 2003.16 Single User Db

Survey									
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	TFace (°)
7,268.00	87.41	91.98	4,345.95	707.95	-26.13	3,334.20	3,334.22	2.23	-175.94
7,364.00	87.32	92.30	4,350.36	712.36	-29.71	3,430.03	3,430.05	0.35	105.73
7,458.00	88.20	92.22	4,354.03	716.03	-33.41	3,523.88	3,523.91	0.94	-5.19
7,554.00	89.78	91.27	4,355.73	717.73	-36.34	3,619.82	3,619.85	1.92	-31.02
7,648.00	89.78	91.81	4,356.09	718.09	-38.86	3,713.79	3,713.82	0.57	90.00
7,744.00	90.92	91.38	4,355.50	717.50	-41.53	3,809.74	3,809.78	1.27	-20.66
7,839.00	90.22	92.11	4,354.56	716.56	-44.43	3,904.69	3,904.73	1.06	133.80
7,934.00	90.31	92.47	4,354.12	716.12	-48.22	3,999.62	3,999.66	0.39	75.96
7,998.00	88.72	92.36	4,354.66	716.66	-50.92	4,063.56	4,063.60	2.49	-176.04
8,030.00	88.72	92.36	4,355.37	717.37	-52.24	4,095.52	4,095.56	0.00	0.00
8,085.00	88.64	91.50	4,356.64	718.64	-54.09	4,150.47	4,150.52	1.57	-95.33
8,149.00	87.67	90.42	4,358.70	720.70	-55.16	4,214.43	4,214.48	2.27	-131.96
8,215.00	85.82	89.49	4,362.45	724.45	-55.11	4,280.32	4,280.37	3.14	-153.37
8,310.00	85.91	89.62	4,369.30	731.30	-54.37	4,375.07	4,375.12	0.17	55.24
8,405.00	87.14	90.59	4,375.06	737.06	-54.55	4,469.89	4,469.94	1.65	38.24
8,501.00	88.99	89.73	4,378.30	740.30	-54.82	4,565.83	4,565.88	2.12	-24.94
8,596.00	89.16	89.79	4,379.83	741.83	-54.42	4,660.82	4,660.86	0.19	19.44
8,675.00	87.76	89.33	4,381.95	743.95	-53.81	4,739.79	4,739.83	1.87	-161.82
8,745.00	87.76	89.33	4,384.69	746.69	-52.99	4,809.73	4,809.77	0.00	0.00

WHS

Pathfinder Standard X & Y Report

Company:	Parallel Petroleum Corp.	Local Co-ordinate Reference:	Well Paris Draw State Com 1624-21
Project:	Paris Draw State Com 1624-21 #7	TVD Reference:	EST RKB @ 3638.00ft
Site:	S20 T16S R24E	MD Reference:	EST RKB @ 3638.00ft
Well:	Paris Draw State Com 1624-21	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 2003.16 Single User Db

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL	0.00	360.00	4,382.10	-4.20	4,843.90	696,093.600	463,340.600	32° 54' 47.946 N	104° 35' 14.990 W
- survey misses by 59.63ft at 8745.00ft MD (4384.69 TVD, -52.99 N, 4809.73 E)									
- Point									

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,745.00	4,384.69	-52.99	4,809.73	Projection to Bit @ 8745' MD

Checked By: _____	Approved By: _____	Date: _____
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A Gyrodata Directional Survey

Field Copy Only, not definitive

for

PARALLEL PETROLEUM

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

Lease: PARIS DRAW STATE COMMON 1625-21 Well: # 7, 4-1/2 DRILLPIPE

Job Number: MD0308GW153

Run Date: 3/15/2008 4:22:40 PM

Surveyor: JAMES KING

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.913189 deg. N Longitude: 104.602758 deg. E

Azimuth Correction:

Gyro: 0.15000 deg East to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Local Horizontal Reference

A Gyrodata Directional Survey

PARALLEL PETROLEUM

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

Lease: PARIS DRAW STATE COMMON 1625-21 Well: # 7, 4-1/2 DRILLPIPE

Job Number: MD0308GW153

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 - 4358.40 FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2 DRILLPIPE							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATRIOT RIG # 1 RKB(+18FT)							

100.00	1.09	232.96	-0.6	1.09	99.99	1.0 233.0	0.57 S 0.76 W
150.00	1.23	236.64	-1.1	0.32	149.98	2.0 234.0	1.15 S 1.59 W
200.00	1.29	239.28	-1.7	0.17	199.97	3.1 235.4	1.74 S 2.52 W
250.00	1.53	241.88	-2.3	0.51	249.96	4.3 236.9	2.34 S 3.59 W
300.00	1.54	241.42	-3.0	0.03	299.94	5.6 238.1	2.98 S 4.77 W
350.00	1.51	236.17	-3.7	0.29	349.92	7.0 238.2	3.66 S 5.91 W
400.00	1.41	245.00	-4.3	0.49	399.90	8.2 238.5	4.29 S 7.01 W
450.00	1.69	256.29	-4.7	0.82	449.89	9.5 240.3	4.73 S 8.29 W
500.00	2.00	262.96	-5.0	0.76	499.86	11.1 243.1	5.01 S 9.87 W
550.00	2.31	265.18	-5.2	0.63	549.82	12.8 246.1	5.20 S 11.74 W
600.00	2.29	258.72	-5.5	0.52	599.78	14.8 248.2	5.48 S 13.73 W
650.00	2.37	260.04	-5.8	0.19	649.74	16.8 249.6	5.85 S 15.72 W
700.00	2.32	257.80	-6.3	0.21	699.70	18.8 250.6	6.25 S 17.73 W
750.00	2.10	260.46	-6.6	0.48	749.66	20.7 251.4	6.61 S 19.62 W
800.00	2.05	260.27	-6.9	0.10	799.63	22.5 252.1	6.91 S 21.40 W
850.00	2.00	261.50	-7.2	0.13	849.60	24.2 252.7	7.19 S 23.14 W
900.00	2.05	263.96	-7.4	0.20	899.57	26.0 253.4	7.42 S 24.89 W
950.00	1.98	258.08	-7.7	0.43	949.54	27.7 253.9	7.69 S 26.63 W
1000.00	1.92	259.09	-8.0	0.13	999.51	29.4 254.2	8.03 S 28.30 W
1050.00	1.89	258.03	-8.4	0.09	1049.48	31.1 254.4	8.36 S 29.93 W

A Gyrodata Directional Survey

PARALLEL PETROLEUM

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

Lease: PARIS DRAW STATE COMMON 1625-21 Well: # 7, 4-1/2 DRILLPIPE

Job Number: MD0308GW153

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
1100.00	1.82	261.30	-8.7	0.25	1099.46	32.7 254.7	8.65 S 31.52 W
1150.00	1.88	263.78	-8.9	0.20	1149.43	34.3 255.0	8.86 S 33.12 W
1200.00	1.83	264.26	-9.0	0.10	1199.40	35.9 255.4	9.03 S 34.74 W
1250.00	1.62	266.11	-9.2	0.45	1249.38	37.4 255.8	9.15 S 36.24 W
1300.00	1.60	267.57	-9.2	0.09	1299.36	38.8 256.2	9.23 S 37.64 W
1350.00	1.56	263.99	-9.3	0.21	1349.34	40.1 256.5	9.33 S 39.01 W
1400.00	1.40	260.12	-9.5	0.37	1399.33	41.4 256.7	9.51 S 40.29 W
1450.00	1.23	258.59	-9.7	0.34	1449.31	42.5 256.8	9.72 S 41.41 W
1500.00	1.30	258.53	-9.9	0.14	1499.30	43.6 256.8	9.94 S 42.50 W
1550.00	1.24	252.57	-10.2	0.29	1549.29	44.8 256.8	10.21 S 43.58 W
1600.00	1.20	256.30	-10.5	0.18	1599.28	45.8 256.8	10.50 S 44.60 W
1650.00	0.71	249.07	-10.7	1.01	1649.27	46.7 256.7	10.74 S 45.41 W
1700.00	0.48	224.67	-11.0	0.68	1699.27	47.1 256.5	11.00 S 45.84 W
1750.00	0.44	218.92	-11.3	0.12	1749.26	47.5 256.2	11.29 S 46.11 W
1800.00	0.39	227.55	-11.6	0.15	1799.26	47.8 256.0	11.56 S 46.36 W
1850.00	0.36	249.62	-11.7	0.30	1849.26	48.1 255.9	11.73 S 46.63 W
1900.00	0.42	260.99	-11.8	0.19	1899.26	48.4 255.9	11.81 S 46.96 W
1950.00	0.59	262.67	-11.9	0.34	1949.26	48.9 255.9	11.88 S 47.40 W
2000.00	0.66	277.59	-11.9	0.36	1999.26	49.4 256.1	11.87 S 47.94 W
2050.00	0.81	272.21	-11.8	0.33	2049.25	50.0 256.3	11.82 S 48.58 W
2100.00	0.83	280.23	-11.7	0.23	2099.25	50.7 256.6	11.74 S 49.29 W
2150.00	0.92	275.36	-11.6	0.24	2149.24	51.4 256.9	11.64 S 50.04 W
2200.00	0.89	278.80	-11.5	0.13	2199.23	52.1 257.2	11.54 S 50.82 W
2250.00	0.81	274.47	-11.5	0.20	2249.23	52.8 257.5	11.46 S 51.56 W

A Gyrodata Directional Survey

PARALLEL PETROLEUM

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

Lease: PARIS DRAW STATE COMMON 1625-21 Well: # 7, 4-1/2 DRILLPIPE

Job Number: MD0308GW153

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
2300.00	0.80	276.50	-11.4	0.06	2299.22	53.5 257.7	11.39 S 52.26 W
2350.00	0.83	277.31	-11.3	0.06	2349.22	54.2 258.0	11.30 S 52.96 W
2400.00	0.85	284.54	-11.2	0.21	2399.21	54.8 258.3	11.16 S 53.68 W
2450.00	0.72	286.93	-11.0	0.26	2449.21	55.4 258.6	10.98 S 54.34 W
2500.00	0.74	287.25	-10.8	0.04	2499.21	56.0 258.9	10.79 S 54.95 W
2550.00	0.77	294.69	-10.6	0.20	2549.20	56.6 259.2	10.55 S 55.57 W
2600.00	0.76	291.20	-10.3	0.09	2599.20	57.1 259.6	10.29 S 56.18 W
2650.00	0.71	293.47	-10.1	0.11	2649.19	57.7 260.0	10.05 S 56.77 W
2700.00	0.70	293.24	-9.8	0.03	2699.19	58.2 260.3	9.81 S 57.34 W
2750.00	0.66	289.07	-9.6	0.12	2749.19	58.7 260.6	9.59 S 57.89 W
2800.00	0.62	291.80	-9.4	0.10	2799.18	59.2 260.9	9.40 S 58.41 W
2850.00	0.61	282.46	-9.2	0.20	2849.18	59.6 261.1	9.24 S 58.92 W
2900.00	0.61	282.02	-9.1	0.01	2899.18	60.1 261.3	9.13 S 59.44 W
2950.00	0.53	278.45	-9.0	0.17	2949.17	60.6 261.4	9.04 S 59.93 W
3000.00	0.41	286.40	-9.0	0.27	2999.17	61.0 261.6	8.96 S 60.33 W
3050.00	0.27	304.34	-8.8	0.35	3049.17	61.2 261.7	8.84 S 60.60 W
3100.00	0.19	349.00	-8.7	0.38	3099.17	61.3 261.9	8.69 S 60.71 W
3150.00	0.25	36.53	-8.5	0.37	3149.17	61.3 262.0	8.52 S 60.66 W
3200.00	0.51	36.01	-8.3	0.52	3199.17	61.0 262.2	8.25 S 60.47 W
3250.00	0.68	41.42	-7.8	0.36	3249.17	60.6 262.6	7.85 S 60.14 W
3300.00	0.75	36.97	-7.4	0.17	3299.16	60.2 263.0	7.36 S 59.74 W
3350.00	0.88	49.16	-6.8	0.43	3349.16	59.7 263.4	6.85 S 59.26 W
3400.00	1.08	52.34	-6.3	0.42	3399.15	58.9 263.9	6.31 S 58.59 W
3450.00	0.83	57.53	-5.8	0.54	3449.14	58.2 264.3	5.83 S 57.92 W

A Gyrodata Directional Survey

PARALLEL PETROLEUM

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

Lease: PARIS DRAW STATE COMMON 1625-21 Well: # 7, 4-1/2 DRILLPIPE

Job Number: MD0308GW153

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
3500.00	0.88	59.89	-5.4	0.13	3499.14	57.5 264.6	5.44 S 57.28 W
3550.00	0.78	51.94	-5.0	0.31	3549.13	56.9 264.9	5.04 S 56.68 W
3600.00	0.79	41.07	-4.6	0.30	3599.13	56.4 265.3	4.57 S 56.18 W
3650.00	0.82	42.76	-4.0	0.08	3649.12	55.9 265.8	4.05 S 55.71 W
3700.00	0.83	41.74	-3.5	0.04	3699.12	55.3 266.4	3.52 S 55.23 W
3750.00	0.95	51.91	-3.0	0.39	3749.11	54.7 266.9	2.99 S 54.66 W
3800.00	1.07	45.82	-2.4	0.32	3799.10	54.1 267.4	2.41 S 54.01 W
3850.00	1.17	50.43	-1.8	0.28	3849.09	53.3 268.1	1.76 S 53.28 W
3900.00	1.23	49.79	-1.1	0.12	3899.08	52.5 268.8	1.09 S 52.47 W
3950.00	1.34	52.72	-0.4	0.25	3949.07	51.6 269.6	0.39 S 51.59 W
4000.00	1.40	54.80	0.3	0.15	3999.06	50.6 270.4	0.32 N 50.63 W
4050.00	1.36	50.55	1.1	0.22	4049.04	49.7 271.2	1.05 N 49.67 W
4100.00	1.28	54.61	1.8	0.25	4099.03	48.8 272.1	1.75 N 48.76 W
4150.00	1.14	47.54	2.4	0.41	4149.02	48.0 272.9	2.41 N 47.94 W
4200.00	1.16	53.08	3.0	0.23	4199.01	47.3 273.7	3.05 N 47.17 W
4250.00	1.01	50.52	3.6	0.32	4249.00	46.6 274.5	3.63 N 46.43 W
4300.00	1.15	52.58	4.2	0.28	4298.99	45.9 275.3	4.21 N 45.69 W
4350.00	0.91	49.84	4.8	0.49	4348.98	45.2 276.1	4.77 N 44.99 W
4358.40	0.92	49.79	4.9	0.14	4357.38	45.1 276.2	4.86 N 44.89 W

Final Station Closure: Distance: 45.15 ft Az: 276.18 deg.