

Submit to Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I

1625 N French, Hobbs, NM 88240

District II

1301 W. Grand Avenue, 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

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

OCT 31 2008

OCD-ARTESIA

Form C-105

Revised June 10, 2003

WELL API NO.

30-005-64025

5. Indicate Type Of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well.

OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____

b. Type of Completion

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ 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 H 1880 Feet From The NORTH Line and 184 Feet From The EAST Line

Section 32

Township 15S

Range 25E

NMPM

CHAVES

County

10 Date Spudded

09-01-2008

11 Date T D Reached

09-16-2008

12 Date Compl (Ready to Prod)

10-14-2008

13 Elevations (DF & RKB, RT, GR, etc)

GR: 3476

14 Elev. Casinghead

15 Total Depth

9065 MD

16. Plug Back T.D

NA - OPEN HOLE

17 If Multiple Compl How Many Zones?

18. Intervals Drilled By

Rotary Tools

X

Cable Tools

19 Producing Interval(s), of this completion - Top, Bottom, Name

5146 - 8783 MD; 4869 - 4823 TVD

20 Was Directional Survey Made

YES

21 Type Electric and Other Logs Run

NONE

22 Was Well Cored

NO

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16		120	(CONDUCTOR)		
8.625	24	1138	11	600 SX	
5.5	17	9038	7.875	1000 SX	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8	SN @ 5050	

25. TUBING RECORD

26 Perforation record (interval, size, and number)

5146 - 8783 MD//4869 - 4823 TVD, 144 HOLES, 0.42 DIAM

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5146-8783 MD	15% HCL, SLICK WATER, 100 MESH
4869-4823 TVD	AND 20/40 WHITE SAND

28 PRODUCTION

Date First Production 10-16-2008		Production Method (Flowing, gas lift, pumping - Size and type pump) FLOWING					Well Status (Prod. or Shut-in) PRODUCING	
Date of Test 10-16-2008	Hours Tested 24 HOUR	Choke Size 40/64	Prod'n For Test Period	Oil - Bbl 0	Gas - MCF 4433	Water - Bbl 420	Gas - Oil Ratio	
Flow Tubing Press 350	Casing Pressure 425	Calculated 24- Hour Rate	Oil - Bbl 0	Gas - MCF 4433	Water - Bbl 420	Oil Gravity - API - (Corr.)		

29 Disposition of Gas (Sold, used for fuel, vented, etc)

SOLD

Test Witnessed By

30 List Attachments

31 I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Kaye McCormick Printed Name

KAYE MC CORMICK

Title SR PROD & REG TECH Date 10-30-2008

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northeastern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen NO ELECTRIC LOGS	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg RUN--ESTIMATED:	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta 2214	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinbry	T. Gr. Wash	T. Morrison	T.
T. Tubb 3208	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo 3932	T.	T. Wingate	T.
T. Wolfcamp 4862		T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet _____

No. 2, from _____ to _____ feet _____

No. 3. from _____ to _____ feet _____

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology

From	To	Thickness in Feet	Lithology

Parallel Petroleum Corp.

John Town 1525-29 #2

John Town 1525-29 #2

John Town 1525-29 #2

OH

Survey: MWD #1

Pathfinder X & Y Survey Report

15 October, 2008

PATHFINDER
ENERGY SERVICES

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company: Parallel Petroleum Corp.
Project: John Town 1525-29 #2
Site: John Town 1525-29 #2
Well: John Town 1525-29 #2
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well John Town 1525-29 #2
TVD Reference: WELL @ 3494.00ft (Patriot 1 KB= 18')
MD Reference: WELL @ 3494.00ft (Patriot 1 KB= 18')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Project: John Town 1525-29 #2
Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site: John Town 1525-29 #2

Site Position:	Northing:	720,552.100 ft	Latitude:	32° 58' 50.909 N
From: Map	Easting:	462,633.000 ft	Longitude:	104° 27' 18.680 W
Position Uncertainty: 0.00 ft	Slot Radius:	"	Grid Convergence:	-0.07 °

Well: John Town 1525-29 #2

Well Position +N/-S	0.00 ft	Northing:	720,552.100 ft	Latitude:	32° 58' 50.909 N
+E/-W	0.00 ft	Easting:	462,633.000 ft	Longitude:	104° 27' 18.680 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,476.00 ft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2008/10/06	8.36	60.81	49,264

Design: OH

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	270.00

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Database: EDM 2003.16 Single User Db

Survey Program		Date 2008/10/15		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	3,743.00	GYRO (OH)	NS-GYRO-MS	North sensing gyrocompassing m
3,897.00	9,340.00	MWD #1 (OH)	MWD	MWD - Standard

Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
3,743.00	0.40	67.50	3,742.60	248.60	-8.57	41.54	-41.54	0.00	720,543.53	462,674.54	
Tie into Gyro @ 3743'MD											
3,897.00	0.97	81.30	3,896.59	402.59	-8.16	43.32	-43.32	0.38	720,543.94	462,676.32	
3,960.00	0.26	32.51	3,959.58	465.58	-7.96	43.93	-43.93	1.31	720,544.14	462,676.93	
3,992.00	2.99	289.56	3,991.57	497.57	-7.62	43.18	-43.18	9.56	720,544.48	462,676.18	
4,024.00	6.60	284.86	4,023.45	529.45	-6.87	40.62	-40.62	11.34	720,545.23	462,673.62	
4,056.00	10.02	279.07	4,055.11	561.11	-5.96	36.09	-36.09	10.99	720,546.14	462,669.09	
4,087.00	12.40	277.71	4,085.52	591.52	-5.09	30.13	-30.13	7.72	720,547.01	462,663.13	
4,119.00	13.98	273.55	4,116.68	622.68	-4.39	22.86	-22.86	5.76	720,547.71	462,655.86	
4,151.00	15.83	272.50	4,147.60	653.60	-3.96	14.64	-14.64	5.84	720,548.14	462,647.64	
4,183.00	17.50	272.35	4,178.25	684.25	-3.57	5.47	-5.47	5.22	720,548.53	462,638.47	
4,215.00	19.43	274.17	4,208.60	714.60	-2.99	-4.64	4.64	6.29	720,549.11	462,628.36	
4,247.00	21.46	275.39	4,238.59	744.59	-2.05	-15.78	15.78	6.48	720,550.05	462,617.22	
4,278.00	23.21	275.61	4,267.26	773.26	-0.92	-27.50	27.50	5.65	720,551.18	462,605.50	
4,310.00	24.53	274.64	4,296.52	802.52	0.24	-40.40	40.40	4.30	720,552.34	462,592.60	
4,342.00	25.59	272.55	4,325.51	831.51	1.08	-53.93	53.93	4.32	720,553.18	462,579.07	
4,373.00	27.17	272.05	4,353.28	859.28	1.63	-67.69	67.69	5.15	720,553.73	462,565.31	
4,405.00	29.19	271.85	4,381.49	887.49	2.14	-82.79	82.79	6.32	720,554.24	462,550.21	
4,437.00	31.57	271.37	4,409.09	915.09	2.60	-98.97	98.97	7.48	720,554.70	462,534.03	
4,468.00	33.50	271.13	4,435.22	941.22	2.96	-115.64	115.64	6.24	720,555.06	462,517.36	
4,500.00	35.26	271.12	4,461.63	967.63	3.31	-133.70	133.70	5.50	720,555.41	462,499.30	

Pathfinder Energy Services
Pathfinder X & Y Survey Report



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Wellbore: OH
Design: OH

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MD Reference: WELL @ 3494.00ft (Patriot 1 KB= 18')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	Northing (ft)	Easting (ft)	
4,532.00	37.20	270.37	4,487.44	993.44	3.56	-152.61	152.61	6.22	720,555.66	462,480.39	
4,564.00	38.78	269.32	4,512.66	1,018.66	3.50	-172.31	172.31	5.33	720,555.60	462,460.69	
4,595.00	40.19	270.02	4,536.59	1,042.59	3.39	-192.02	192.02	4.77	720,555.49	462,440.98	
4,627.00	40.89	270.59	4,560.91	1,066.91	3.50	-212.82	212.82	2.47	720,555.60	462,420.18	
4,659.00	42.74	271.04	4,584.76	1,090.76	3.81	-234.15	234.15	5.86	720,555.91	462,398.85	
4,691.00	45.02	271.13	4,607.82	1,113.82	4.23	-256.32	256.32	7.13	720,556.33	462,376.68	
4,723.00	47.13	271.19	4,630.02	1,136.02	4.69	-279.37	279.37	6.60	720,556.79	462,353.63	
4,754.00	49.68	271.09	4,650.60	1,156.60	5.15	-302.54	302.54	8.23	720,557.25	462,330.46	
4,786.00	51.44	271.15	4,670.92	1,176.92	5.64	-327.25	327.25	5.50	720,557.74	462,305.75	
4,818.00	54.08	270.98	4,690.29	1,196.29	6.11	-352.72	352.72	8.26	720,558.21	462,280.28	
4,850.00	55.75	270.56	4,708.68	1,214.68	6.46	-378.90	378.90	5.33	720,558.56	462,254.10	
4,882.00	57.95	270.27	4,726.18	1,232.18	6.65	-405.69	405.69	6.92	720,558.75	462,227.31	
4,913.00	59.71	270.02	4,742.22	1,248.22	6.72	-432.21	432.21	5.72	720,558.82	462,200.79	
4,945.00	62.08	269.86	4,757.79	1,263.79	6.69	-460.17	460.17	7.42	720,558.79	462,172.83	
4,977.00	64.02	269.95	4,772.29	1,278.29	6.64	-488.70	488.70	6.07	720,558.74	462,144.30	
5,009.00	65.86	270.17	4,785.84	1,291.84	6.67	-517.68	517.68	5.78	720,558.77	462,115.32	
5,041.00	67.53	270.20	4,798.50	1,304.50	6.77	-547.07	547.07	5.22	720,558.87	462,085.93	
5,072.00	68.94	269.75	4,810.00	1,316.00	6.76	-575.86	575.86	4.74	720,558.86	462,057.14	
5,104.00	70.26	270.65	4,821.15	1,327.15	6.86	-605.85	605.85	4.90	720,558.96	462,027.15	
5,136.00	70.52	271.07	4,831.89	1,337.89	7.31	-635.99	635.99	1.48	720,559.41	461,997.01	
5,168.00	72.90	271.63	4,841.93	1,347.93	8.03	-666.36	666.36	7.62	720,560.13	461,966.64	
5,199.00	74.74	271.44	4,850.57	1,356.57	8.83	-696.12	696.12	5.96	720,560.93	461,936.88	
5,231.00	76.85	271.83	4,858.42	1,364.42	9.71	-727.13	727.13	6.70	720,561.81	461,905.87	
5,263.00	78.88	270.88	4,865.15	1,371.15	10.45	-758.41	758.41	6.98	720,562.55	461,874.59	
5,294.00	80.55	271.02	4,870.68	1,376.68	10.96	-788.90	788.90	5.41	720,563.06	461,844.10	
5,326.00	82.57	270.27	4,875.38	1,381.38	11.31	-820.55	820.55	6.72	720,563.41	461,812.45	
5,358.00	85.38	269.70	4,878.74	1,384.74	11.31	-852.37	852.37	8.96	720,563.41	461,780.63	

Pathfinder Energy Services
Pathfinder X & Y Survey Report



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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well John Town 1525-29 #2
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	Northing (ft)	Easting (ft)
5,390.00	88.46	268.93	4,880.46	1,386.46	10.92	-884.32	884.32	9.92	720,563.02	461,748.68
5,420.00	91.36	268.38	4,880.50	1,386.50	10.22	-914.31	914.31	9.84	720,562.32	461,718.69
5,481.00	92.24	268.58	4,878.59	1,384.59	8.60	-975.25	975.25	1.48	720,560.70	461,657.75
5,572.00	90.57	268.30	4,876.36	1,382.36	6.13	-1,066.19	1,066.19	1.86	720,558.23	461,566.81
5,660.00	89.69	269.17	4,876.16	1,382.16	4.18	-1,154.17	1,154.17	1.41	720,556.28	461,478.83
5,753.00	89.60	268.49	4,876.73	1,382.73	2.28	-1,247.15	1,247.15	0.74	720,554.38	461,385.85
5,846.00	90.22	268.42	4,876.88	1,382.88	-0.22	-1,340.11	1,340.11	0.67	720,551.88	461,292.89
5,938.00	93.65	270.98	4,873.77	1,379.77	-0.71	-1,432.04	1,432.04	4.65	720,551.39	461,200.96
6,031.00	90.48	269.28	4,870.42	1,376.42	-0.50	-1,524.96	1,524.96	3.87	720,551.60	461,108.04
6,124.00	90.92	270.43	4,869.29	1,375.29	-0.73	-1,617.95	1,617.95	1.32	720,551.37	461,015.05
6,216.00	90.84	269.42	4,867.87	1,373.87	-0.85	-1,709.94	1,709.94	1.10	720,551.25	460,923.06
6,309.00	92.07	269.11	4,865.51	1,371.51	-2.05	-1,802.90	1,802.90	1.36	720,550.05	460,830.10
6,402.00	92.07	268.97	4,862.15	1,368.15	-3.60	-1,895.83	1,895.83	0.15	720,548.50	460,737.17
6,494.00	92.86	269.69	4,858.20	1,364.20	-4.68	-1,987.73	1,987.73	1.16	720,547.42	460,645.27
6,587.00	91.45	268.46	4,854.70	1,360.70	-6.18	-2,080.65	2,080.65	2.01	720,545.92	460,552.35
6,683.00	91.89	271.29	4,851.90	1,357.90	-6.39	-2,176.60	2,176.60	2.98	720,545.71	460,456.40
6,778.00	90.92	271.87	4,849.57	1,355.57	-3.77	-2,271.53	2,271.53	1.19	720,548.33	460,361.47
6,873.00	90.48	271.77	4,848.41	1,354.41	-0.75	-2,366.48	2,366.48	0.47	720,551.35	460,266.52
6,969.00	90.48	271.99	4,847.61	1,353.61	2.40	-2,462.42	2,462.42	0.23	720,554.50	460,170.58
7,064.00	90.31	272.16	4,846.95	1,352.95	5.84	-2,557.36	2,557.36	0.25	720,557.94	460,075.64
7,160.00	90.40	273.48	4,846.36	1,352.36	10.56	-2,653.24	2,653.24	1.38	720,562.66	459,979.76
7,255.00	90.31	272.64	4,845.77	1,351.77	15.63	-2,748.10	2,748.10	0.89	720,567.73	459,884.90
7,350.00	91.28	272.22	4,844.45	1,350.45	19.66	-2,843.00	2,843.00	1.11	720,571.76	459,790.00
7,446.00	90.84	270.44	4,842.67	1,348.67	21.89	-2,938.96	2,938.96	1.91	720,573.99	459,694.04
7,541.00	89.69	269.04	4,842.23	1,348.23	21.45	-3,033.95	3,033.95	1.91	720,573.55	459,599.05
7,636.00	91.10	269.10	4,841.58	1,347.58	19.91	-3,128.93	3,128.93	1.49	720,572.01	459,504.07
7,731.00	91.98	269.49	4,839.03	1,345.03	18.74	-3,223.89	3,223.89	1.01	720,570.84	459,409.11

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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)	Northing (ft)	Easting (ft)
7,827.00	90.66	267.31	4,836.81	1,342.81	16.06	-3,319.82	3,319.82	2.65	720,568.16	459,313.18
7,923.00	91.36	268.27	4,835.12	1,341.12	12.36	-3,415.73	3,415.73	1.24	720,564.46	459,217.27
8,018.00	90.92	267.48	4,833.23	1,339.23	8.84	-3,510.65	3,510.65	0.95	720,560.94	459,122.35
8,113.00	91.28	267.91	4,831.41	1,337.41	5.02	-3,605.55	3,605.55	0.59	720,557.12	459,027.45
8,209.00	91.01	268.51	4,829.49	1,335.49	2.02	-3,701.49	3,701.49	0.69	720,554.12	458,931.51
8,304.00	92.07	269.22	4,826.94	1,332.94	0.14	-3,796.43	3,796.43	1.34	720,552.24	458,836.57
8,399.00	91.98	270.45	4,823.58	1,329.58	-0.13	-3,891.37	3,891.37	1.30	720,551.97	458,741.63
8,494.00	91.63	271.28	4,820.59	1,326.59	1.30	-3,986.31	3,986.31	0.95	720,553.40	458,646.69
8,589.00	90.40	272.05	4,818.90	1,324.90	4.06	-4,081.25	4,081.25	1.53	720,556.16	458,551.75
8,684.00	91.01	272.32	4,817.74	1,323.74	7.68	-4,176.18	4,176.18	0.70	720,559.78	458,456.82
8,780.00	90.57	273.03	4,816.41	1,322.41	12.16	-4,272.06	4,272.06	0.87	720,564.26	458,360.94
8,875.00	90.04	272.61	4,815.91	1,321.91	16.84	-4,366.95	4,366.95	0.71	720,568.94	458,266.05
8,971.00	89.69	271.21	4,816.13	1,322.13	20.04	-4,462.89	4,462.89	1.50	720,572.14	458,170.11
9,066.00	90.13	271.29	4,816.28	1,322.28	22.11	-4,557.87	4,557.87	0.47	720,574.21	458,075.13
9,161.00	89.16	270.78	4,816.87	1,322.87	23.82	-4,652.85	4,652.85	1.15	720,575.92	457,980.15
9,257.00	89.16	270.30	4,818.28	1,324.28	24.73	-4,748.83	4,748.83	0.50	720,576.83	457,884.17
9,270.00	89.11	270.22	4,818.47	1,324.47	24.79	-4,761.83	4,761.83	0.73	720,576.89	457,871.17
9,340.00	89.11	270.22	4,819.56	1,325.56	25.06	-4,831.82	4,831.82	0.00	720,577.16	457,801.18

Proj To Bit @ 9340' MD

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company: Parallel Petroleum Corp.
Project: John Town 1525-29 #2
Site: John Town 1525-29 #2
Well: John Town 1525-29 #2
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well John Town 1525-29 #2
TVD Reference: WELL @ 3494.00ft (Patriot 1 KB= 18')
MD Reference: WELL @ 3494.00ft (Patriot 1 KB= 18')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
PBHL(John Town #2)	0.00	360.00	4,815.30	0.00	-4,832.30	720,552.100	457,800.700	32° 58' 50.850 N	104° 28' 15.410 W
- survey misses by 25.42ft at 9340.00ft MD (4819.56 TVD, 25.06 N, -4831.82 E)									
- Point									

Survey Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
3,743.00	3,742.60	-8.57	41.54	Tie into Gyro @ 3743' MD
9,340.00	4,819.56	25.06	-4,831.82	Proj To Bit @ 9340' MD

Checked By: _____ Approved By: _____ Date: _____

A Gyrodata Directional Survey

Field Copy Only, not definitive

for

PARALLEL

Location: PATRIOT #1, CHAVES COUNTY, NEW MEXICO
Lease: JOHN TOWN 1525-29 Well: #2, 4 1/2 " DRILLPIPE

Job Number: MD1008G398

Run Date: 10/7/2008 5:42:20 PM

Surveyor: CHAS FARRELL

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.981000 deg. N Longitude: 104.455417 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

Location: PATRIOT #1, CHAVES COUNTY, NEW MEXICO

Lease: JOHN TOWN 1525-29 Well: #2, 4 1/2 " DRILLPIPE

Job Number: MD1008G398

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

0 TO 3743 FT GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4 1/2" DRILLPIPE								
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATRIOT #1								

100.00	0.70	97.07	0.70	100.00	0.6	97.1	0.07 S	0.60 E
200.00	0.69	86.05	0.13	199.99	1.8	93.4	0.11 S	1.81 E
300.00	0.64	92.73	0.09	299.98	3.0	91.8	0.09 S	2.96 E
400.00	0.24	97.07	0.40	399.98	3.7	92.2	0.15 S	3.72 E
500.00	0.04	190.39	0.24	499.98	3.9	92.9	0.20 S	3.92 E
600.00	0.04	141.60	0.03	599.98	4.0	93.8	0.26 S	3.94 E
700.00	0.58	76.09	0.56	699.98	4.5	92.2	0.17 S	4.46 E
800.00	1.11	92.27	0.58	799.97	5.9	90.9	0.09 S	5.92 E
900.00	1.25	87.24	0.17	899.95	8.0	90.5	0.07 S	7.98 E
1000.00	1.31	89.10	0.07	999.92	10.2	90.0	0.00 S	10.21 E
1100.00	1.35	85.29	0.10	1099.89	12.5	89.5	0.11 N	12.53 E
1200.00	1.35	86.37	0.03	1199.87	14.9	88.9	0.28 N	14.88 E
1300.00	1.37	89.18	0.07	1299.84	17.3	88.8	0.37 N	17.25 E
1400.00	1.54	93.87	0.20	1399.81	19.8	89.1	0.30 N	19.79 E
1500.00	1.21	94.44	0.33	1499.78	22.2	89.7	0.13 N	22.18 E
1600.00	1.20	89.75	0.10	1599.75	24.3	89.9	0.05 N	24.28 E
1700.00	1.22	103.80	0.30	1699.73	26.4	90.4	0.20 S	26.36 E

A Gyrodata Directional Survey

PARALLEL

Location: PATRIOT #1, CHAVES COUNTY, NEW MEXICO

Lease: JOHN TOWN 1525-29 Well: #2, 4 1/2 " DRILLPIPE

Job Number: MD1008G398

MEASURED DEPTH	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet
1800.00	0.99	111.59	0.27	1799.71	28.2	91.6	0.77 S 28.19 E
1900.00	1.10	119.60	0.18	1899.70	29.9	93.0	1.56 S 29.82 E
2000.00	1.35	130.75	0.35	1999.68	31.7	95.1	2.80 S 31.54 E
2100.00	1.05	122.06	0.35	2099.65	33.5	97.0	4.05 S 33.22 E
2200.00	0.83	126.43	0.24	2199.64	34.9	98.2	4.97 S 34.57 E
2300.00	0.88	118.70	0.13	2299.63	36.3	99.1	5.77 S 35.83 E
2400.00	0.74	125.20	0.17	2399.62	37.6	100.0	6.51 S 37.03 E
2500.00	0.50	114.34	0.27	2499.61	38.6	100.5	7.06 S 37.96 E
2600.00	0.51	119.70	0.05	2599.61	39.5	100.9	7.47 S 38.75 E
2700.00	0.41	108.59	0.14	2699.61	40.2	101.2	7.80 S 39.47 E
2800.00	0.22	117.37	0.19	2799.60	40.8	101.3	8.00 S 39.98 E
2900.00	0.02	142.21	0.20	2899.60	41.0	101.4	8.10 S 40.16 E
3000.00	0.05	63.68	0.05	2999.60	41.0	101.4	8.10 S 40.21 E
3100.00	0.13	184.76	0.16	3099.60	41.1	101.5	8.19 S 40.24 E
3200.00	0.07	90.12	0.15	3199.60	41.1	101.6	8.30 S 40.29 E
3300.00	0.05	320.13	0.11	3299.60	41.2	101.6	8.27 S 40.32 E
3400.00	0.07	140.84	0.13	3399.60	41.2	101.6	8.28 S 40.33 E
3500.00	0.15	132.60	0.07	3499.60	41.3	101.8	8.42 S 40.46 E
3600.00	0.19	106.69	0.09	3599.60	41.6	101.9	8.55 S 40.72 E
3700.00	0.40	91.26	0.22	3699.60	42.1	101.8	8.61 S 41.22 E
3743.00	0.40	67.50	0.38	3742.60	42.4	101.6	8.55 S 41.51 E

A Gyrodata Directional Survey

PARALLEL

Location: PATRIOT #1, CHAVES COUNTY, NEW MEXICO

Lease: JOHN TOWN 1525-29 Well: #2, 4 1/2 " DRILLPIPE

Job Number: MD1008G398

MEASURED DEPTH	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet
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Final Station Closure: Distance: 42.38 ft Az: 101.64 deg.