

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT **OCD-ARTESIA**FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007**SUNDRY NOTICES AND REPORTS ON WELLS****Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.****SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

JUL - 9 2007

2. Name of Operator

PARALLEL PETROLEUM CORPORATION

OCD-ARTESIA

3a. Address

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

3b. Phone No. (include area code)

432-685-6563

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SL: SEC 22, T19S, R21E, 660 ENL & 270 FEL

BHL: SEC 22, T19S, R21E, 773 ENL & 694 FWL ACTUAL

5. Lease Serial No.

NM 103571

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

TOY BOX 1921-22

FEDERAL #1

9. API Well No.

30-015-35147

10. Field and Pool, or Exploratory Area

WILDCAT; WOLFCAMP

11. County or Parish, State

EDDY

NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐
- Notice of Intent
-
- ☒
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other <u>SPUD, SURF &</u> |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | <u>PROD CSG, SURVEYS,</u> |
| ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | <u>LOGS TO NMCD</u> |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

03-17-2007: SET 16" CONDUCTOR PIPE @ 80'

03-18-2007: MIRU DRILLING RIG, SPUD # 1830 HR

03-20-2007: RUN 8.625 SURF CSG, 11 HOLE, 24#, SET @ 1551

LEAD #1: 360 SX H + 10% A-10+10# LCM+1/4# CF +1% CACL2, 14.6 PPG, 1.52 CF/SX YLD,

LEAD #2: 500 SX 50/50/10 + 1/4#CF + 5#LCM+2% CACL2, 11.6 PPG, 2.61 CF/SX YLD,

TAIL: 200 SX CL C+2% CACL2 + 1/4# CF, 14.8 PPG, 1.32 CF/SX YLD

TOC: 941' FROM TEMP SURVEY, TOP OUT TO 1" T SURFACE

WOC: 32 HRS, TEST CSG @ 1000 PSI FOR 30 MINUTES

04-11-2007: RUN 5.5 PROD CSG, 7.875 HOLE, 17#, SET @ 8418

LEAD: 550 SX 50/50/10 C +0.2% FL - 52 + 0.2% SMS, 11.6 PPG, 2.43 CF/SX YLD,

TAIL: 700 SX H+20# ASCA-1+1.4% FL-62+0.4% CD-32+0.2% SMS+0.1% ASA-30, 15.6 PPG, 1.42 CF/SX YLD,

105 CENTRALIZERS

TOC: SURFACE, CIRCULATED 103 SX TO SURFACE

WOC: 8 HR, TEST CSG TO 1500 PSI FOR 30 MINUTES

SPERRY MWD SURVEY, GYRODATA GYRO SURVEY ATTACHED

(LOGS TO NMCD)

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

KAYE MC CORMICK

Title

SR PROD & REG TECH

Date 04-30-2007

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

JUL 4 2007

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

WESLEY W. INGRAM

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

A Gyrodata Directional Survey

Field Copy Only, not definitive

for

PARALLEL PETROLEUM

Location: PATRIOT 1, EDDY COUNTY
Lease: TOY BOX 1921-22 Well: #1, 4-1/2" DRILLPIPE

Job Number: MD0307G_146

Run Date: 3/29/2007 3:46:46 PM

Surveyor: THOMAS BOWDEN
AJ EATON

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.651283 deg. N Longitude: 104.773786 deg. W

Azimuth Correction:

Gyro: 0.24000 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 1, EDDY COUNTY

Lease: TOY BOX 1921-22 Well: #1, 4-1/2" DRILLPIPE

Job Number: MD0307G_146

MEASURED DEPTH feet	INCL 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 TO 4520 FT. RATE GYROSCOPIC MULTISHOT DROP SURVEY RUN INSIDE 4-1/2" DRILLPIPE							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATRIOT 1 R.K.B.							

100.00	0.28	278.48	0.0	0.28	100.00	0.2 278.5	0.04 N 0.24 W
200.00	0.26	342.96	0.3	0.29	200.00	0.6 297.7	0.29 N 0.55 W
300.00	0.43	27.92	0.8	0.31	300.00	0.9 332.2	0.84 N 0.44 W
400.00	0.19	325.79	1.3	0.38	400.00	1.4 344.7	1.30 N 0.36 W
500.00	0.41	287.78	1.6	0.28	499.99	1.7 333.1	1.55 N 0.79 W
600.00	1.24	343.41	2.7	1.06	599.98	3.0 331.9	2.69 N 1.43 W
700.00	1.61	345.19	5.1	0.38	699.95	5.5 337.5	5.08 N 2.10 W
800.00	1.32	359.58	7.6	0.47	799.92	8.0 342.0	7.59 N 2.47 W
900.00	1.28	7.98	9.8	0.19	899.90	10.1 346.7	9.85 N 2.32 W
1000.00	2.17	16.79	12.8	0.93	999.85	12.9 352.8	12.76 N 1.62 W
1100.00	2.45	19.13	16.6	0.30	1099.77	16.6 358.7	16.60 N 0.37 W
1200.00	2.85	16.73	21.0	0.41	1199.66	21.0 2.9	21.00 N 1.05 E
1300.00	2.23	13.80	25.3	0.63	1299.56	25.4 5.0	25.27 N 2.23 E
1400.00	1.64	347.60	28.6	1.05	1399.51	28.7 4.8	28.56 N 2.38 E
1500.00	1.93	312.94	31.1	1.10	1499.46	31.1 1.6	31.10 N 0.84 E
1600.00	2.43	293.46	33.1	0.89	1599.39	33.2 356.0	33.10 N 2.33 W
1700.00	2.67	288.62	34.7	0.32	1699.29	35.3 349.4	34.68 N 6.48 W
1800.00	2.79	287.84	36.2	0.13	1799.18	37.8 343.1	36.17 N 11.00 W
1900.00	2.84	286.27	37.6	0.09	1899.06	40.7 337.4	37.61 N 15.69 W
2000.00	2.80	285.77	39.0	0.05	1998.94	44.0 332.3	38.96 N 20.42 W

A Gyrodata Directional Survey

PARALLEL PETROLEUM

Location: PATRIOT 1, EDDY COUNTY

Lease: TOY BOX 1921-22 Well: #1, 4-1/2" DRILLPIPE

Job Number: MD0307G_146

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
2100.00	2.65	286.95	40.3	0.16	2098.82	47.4 328.2	40.30 N 24.98 W
2200.00	2.50	285.80	41.6	0.15	2198.72	50.9 324.8	41.57 N 29.29 W
2300.00	2.28	286.52	42.7	0.23	2298.63	54.2 322.1	42.73 N 33.30 W
2400.00	2.31	287.61	43.9	0.06	2398.55	57.5 319.8	43.91 N 37.12 W
2500.00	2.23	289.92	45.2	0.12	2498.48	60.9 317.9	45.18 N 40.88 W
2600.00	2.10	287.29	46.4	0.17	2598.40	64.2 316.2	46.39 N 44.45 W
2700.00	1.91	285.34	47.4	0.20	2698.34	67.3 314.7	47.37 N 47.80 W
2800.00	2.06	287.70	48.4	0.17	2798.28	70.4 313.4	48.36 N 51.12 W
2900.00	2.06	286.68	49.4	0.04	2898.22	73.6 312.2	49.42 N 54.56 W
3000.00	1.54	286.41	50.3	0.52	2998.17	76.5 311.2	50.32 N 57.58 W
3100.00	1.48	281.88	51.0	0.14	3098.13	78.8 310.3	50.96 N 60.13 W
3200.00	1.27	283.06	51.5	0.20	3198.11	80.9 309.5	51.48 N 62.47 W
3300.00	1.15	284.73	52.0	0.13	3298.08	82.9 308.9	51.98 N 64.52 W
3400.00	1.10	286.31	52.5	0.06	3398.06	84.7 308.3	52.51 N 66.42 W
3500.00	1.26	286.73	53.1	0.16	3498.04	86.6 307.8	53.10 N 68.39 W
3600.00	1.15	281.84	53.6	0.15	3598.02	88.5 307.3	53.62 N 70.43 W
3700.00	0.94	289.04	54.1	0.25	3698.00	90.2 306.8	54.09 N 72.19 W
3800.00	1.07	296.47	54.8	0.18	3797.99	91.9 306.6	54.77 N 73.79 W
3900.00	0.97	297.13	55.6	0.10	3897.97	93.7 306.4	55.58 N 75.38 W
4000.00	0.96	295.04	56.3	0.04	3997.96	95.3 306.2	56.32 N 76.89 W
4100.00	0.98	294.83	57.0	0.02	4097.94	97.0 306.0	57.03 N 78.43 W
4200.00	1.11	296.36	57.8	0.13	4197.93	98.8 305.8	57.82 N 80.08 W
4300.00	0.97	297.07	58.6	0.14	4297.91	100.6 305.7	58.63 N 81.69 W
4400.00	0.85	287.25	59.2	0.20	4397.90	102.1 305.5	59.24 N 83.16 W

A Gyrodata Directional Survey

PARALLEL PETROLEUM

Location: PATRIOT 1, EDDY COUNTY

Lease: TOY BOX 1921-22 Well: #1, 4-1/2" DRILLPIPE

Job Number: MD0307G_146

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4500.00	1.13	284.26	59.7	0.28	4497.88	103.7 305.1	59.70 N 84.82 W
4520.00	1.03	288.25	59.8	0.64	4517.88	104.1 305.1	59.81 N 85.18 W

Final Station Closure: Distance: 104.08 ft Az: 305.07 deg.

Parallel Petroleum Corp.

Eddy County, NM

N/2 Sec. 22, T-19-S, R-21-E

Toy Box 1921-22 A Federal #1

Wellbore #1

Survey: Original MWD Surveys Plan #1

Sperry Drilling Services Combo Report

12 April, 2007

Well Coordinates: 600,928.80 N, 364,435.60 E (32° 39' 04.62" N, 104° 46' 25.63" W)

Ground Level: 4,252.00 ft

Local Coordinate Origin:

Centered on Well Toy Box 1921-22 A Federal #1

Viewing Datum:

WELL @ 4270.00ft (Original Well Elev)

TVDs to System

N

North Reference

Grid

Unit System.

api us survey ft 2

Version: 2003.16 Build. 42B

HALLIBURTON

HALLIBURTON**Survey Report for Toy Box 1921-22 A Federal #1 - Original MWD Surveys Plan #1**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
					Northing (ft)	Easting (ft)	Northing (ft)	Easting (ft)			
3,900.00	0.97	297.13	-372.03	3,897.97	55.59 N	75.41 W	600,984.39	364,360.19	0.00	73.90	Last Gyro
3,940.00	4.23	266.01	-332.07	3,937.93	55.64 N	77.18 W	600,984.44	364,358.42	8.59	75.68	First MWD
3,971.00	8.40	261.71	-301.27	3,968.73	55.24 N	80.56 W	600,984.04	364,355.04	13.53	79.07	
4,003.00	13.00	260.96	-269.83	4,000.17	54.33 N	86.43 W	600,983.13	364,349.17	14.38	84.96	
4,034.00	17.91	262.21	-239.96	4,030.04	53.14 N	94.60 W	600,981.94	364,341.00	15.87	93.16	
4,066.00	22.58	261.24	-209.95	4,060.05	51.54 N	105.56 W	600,980.34	364,330.04	14.63	104.15	
4,098.00	27.03	261.43	-180.91	4,089.09	49.52 N	118.82 W	600,978.32	364,316.78	13.91	117.47	
4,130.00	30.50	261.46	-152.86	4,117.14	47.23 N	134.05 W	600,976.03	364,301.55	10.84	132.75	
4,161.00	33.71	261.13	-126.61	4,143.39	44.73 N	150.33 W	600,973.53	364,285.27	10.37	149.09	
4,193.00	36.11	260.08	-100.37	4,169.63	41.74 N	168.40 W	600,970.54	364,267.20	7.73	167.23	
4,225.00	39.02	261.00	-75.00	4,195.00	38.53 N	187.64 W	600,967.33	364,247.96	9.26	186.55	
4,256.00	41.48	260.90	-51.34	4,218.66	35.38 N	207.42 W	600,964.18	364,228.18	7.94	206.41	
4,288.00	44.27	259.78	-27.90	4,242.10	31.73 N	228.88 W	600,960.53	364,206.72	9.04	227.96	
4,320.00	47.64	258.72	-5.65	4,264.35	27.43 N	251.47 W	600,956.23	364,184.13	10.80	250.66	
4,352.00	52.20	257.29	14.95	4,284.95	22.33 N	275.41 W	600,951.13	364,160.19	14.65	274.72	
4,383.00	57.30	257.31	32.83	4,302.83	16.77 N	300.10 W	600,945.57	364,135.50	16.45	299.55	
4,415.00	61.70	257.31	49.07	4,319.07	10.71 N	326.99 W	600,939.51	364,108.61	13.75	326.59	
4,447.00	66.36	257.14	63.08	4,333.08	4.35 N	355.04 W	600,933.15	364,080.56	14.57	354.80	
4,478.00	69.61	258.02	74.70	4,344.70	1.82 S	383.11 W	600,926.98	364,052.49	10.81	383.02	
4,510.00	73.92	258.72	84.71	4,354.71	7.95 S	412.87 W	600,920.85	364,022.73	13.63	412.93	
4,542.00	79.01	259.60	92.20	4,362.20	13.79 S	443.41 W	600,915.01	363,992.19	16.13	443.62	
4,573.00	83.13	260.97	97.01	4,367.01	18.96 S	473.59 W	600,909.84	363,962.01	13.99	473.93	
4,604.00	86.71	263.87	99.75	4,369.75	23.03 S	504.19 W	600,905.77	363,931.41	14.84	504.63	
4,635.00	88.19	267.64	101.13	4,371.13	25.32 S	535.07 W	600,903.48	363,900.53	13.05	535.55	
4,667.00	88.62	269.10	102.02	4,372.02	26.23 S	567.04 W	600,902.57	363,868.56	4.75	567.54	
4,699.00	88.74	269.22	102.76	4,372.76	26.70 S	599.03 W	600,902.10	363,836.57	0.53	599.53	
4,731.00	89.97	269.52	103.12	4,373.12	27.05 S	631.03 W	600,901.75	363,804.57	3.96	631.52	
4,762.00	90.95	269.81	102.87	4,372.87	27.23 S	662.03 W	600,901.57	363,773.57	3.30	662.51	
4,794.00	91.54	269.54	102.18	4,372.18	27.41 S	694.02 W	600,901.39	363,741.58	2.03	694.50	
4,826.00	92.12	269.88	101.15	4,371.15	27.58 S	726.00 W	600,901.22	363,709.60	2.10	726.48	
4,857.00	92.37	269.42	99.94	4,369.94	27.76 S	756.98 W	600,901.04	363,678.62	1.69	757.45	
4,889.00	92.85	269.47	98.48	4,368.48	28.07 S	788.94 W	600,900.73	363,646.66	1.51	789.41	
4,921.00	93.34	269.12	96.76	4,366.76	28.47 S	820.89 W	600,900.33	363,614.71	1.88	821.36	
5,016.00	91.94	267.12	92.38	4,362.38	31.58 S	915.73 W	600,897.22	363,519.87	2.57	916.25	
5,047.00	92.00	266.60	91.31	4,361.31	33.28 S	946.67 W	600,895.52	363,488.93	1.69	947.22	
5,143.00	91.49	266.10	88.39	4,358.39	39.39 S	1,042.43 W	600,889.41	363,393.17	0.74	1,043.11	
5,238.00	91.05	265.71	86.28	4,356.28	46.17 S	1,137.16 W	600,882.63	363,298.44	0.62	1,137.99	
5,333.00	90.12	265.22	85.31	4,355.31	53.68 S	1,231.86 W	600,875.12	363,203.74	1.11	1,232.85	
5,365.00	90.34	265.24	85.19	4,355.19	56.34 S	1,263.75 W	600,872.46	363,171.85	0.69	1,264.80	
5,429.00	90.00	265.95	85.00	4,355.00	61.26 S	1,327.56 W	600,867.54	363,108.04	1.23	1,328.71	

HALLIBURTON**Survey Report for Toy Box 1921-22 A Federal #1 - Original MWD Surveys Plan #1**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
					Northing (ft)	Easting (ft)	Northing (ft)	Easting (ft)			
5,524.00	90.28	265.79	84.76	4,354.76	68.10 S	1,422.31 W	600,860.70	363,013.29	0.34	1,423.62	
5,619.00	91.82	267.67	83.02	4,353.02	73.52 S	1,517.13 W	600,855.28	362,918.47	2.56	1,518.55	
5,714.00	90.15	266.86	81.39	4,351.39	78.05 S	1,612.01 W	600,850.75	362,823.59	1.95	1,613.51	
5,810.00	89.82	268.24	81.42	4,351.42	82.15 S	1,707.92 W	600,846.65	362,727.68	1.48	1,709.49	
5,905.00	89.97	269.20	81.59	4,351.59	84.27 S	1,802.89 W	600,844.53	362,632.71	1.02	1,804.49	
6,000.00	92.27	269.78	79.73	4,349.73	85.12 S	1,897.86 W	600,843.68	362,537.74	2.50	1,899.45	
6,095.00	92.06	267.56	76.14	4,346.14	87.32 S	1,992.76 W	600,841.48	362,442.84	2.35	1,994.38	
6,191.00	89.32	265.88	74.99	4,344.99	92.82 S	2,088.59 W	600,835.98	362,347.01	3.35	2,090.31	
6,286.00	89.20	266.00	76.21	4,346.21	99.54 S	2,183.34 W	600,829.26	362,252.26	0.18	2,185.21	
6,381.00	90.15	267.10	76.75	4,346.75	105.26 S	2,278.16 W	600,823.54	362,157.44	1.53	2,280.15	
6,476.00	91.54	266.83	75.35	4,345.35	110.29 S	2,373.02 W	600,818.51	362,062.58	1.49	2,375.11	
6,572.00	92.90	268.39	71.63	4,341.63	114.29 S	2,468.86 W	600,814.51	361,966.74	2.15	2,471.02	
6,667.00	90.95	267.97	68.44	4,338.44	117.30 S	2,563.75 W	600,811.50	361,871.85	2.10	2,565.96	
6,762.00	91.85	267.68	66.12	4,336.12	120.91 S	2,658.65 W	600,807.89	361,776.95	1.00	2,660.92	
6,857.00	90.55	267.39	64.13	4,334.13	124.99 S	2,753.54 W	600,803.81	361,682.06	1.40	2,755.89	
6,953.00	92.16	268.40	61.86	4,331.86	128.52 S	2,849.45 W	600,800.28	361,586.15	1.98	2,851.85	
7,048.50	90.35	267.40	59.77	4,329.77	132.02 S	2,944.85 W	600,796.78	361,490.75	2.17	2,947.32	
7,143.00	91.14	269.75	58.54	4,328.54	134.37 S	3,039.31 W	600,794.43	361,396.29	2.62	3,041.80	
7,239.00	91.66	273.81	56.19	4,326.19	131.39 S	3,135.21 W	600,797.41	361,300.39	4.26	3,137.60	
7,334.00	91.29	272.48	53.75	4,323.75	126.18 S	3,230.04 W	600,802.62	361,205.56	1.45	3,232.25	
7,429.00	90.49	271.74	52.27	4,322.27	122.68 S	3,324.96 W	600,806.12	361,110.64	1.15	3,327.04	
7,524.00	91.97	271.72	50.23	4,320.23	119.81 S	3,419.89 W	600,808.99	361,015.71	1.56	3,421.87	
7,620.00	90.06	269.78	48.53	4,318.53	118.56 S	3,515.86 W	600,810.24	360,919.74	2.84	3,517.77	
7,715.00	91.67	270.58	47.10	4,317.10	118.26 S	3,610.84 W	600,810.54	360,824.76	1.89	3,612.71	
7,810.00	90.57	269.93	45.24	4,315.24	117.84 S	3,705.82 W	600,810.96	360,729.78	1.34	3,707.64	
7,905.00	90.43	270.10	44.41	4,314.41	117.81 S	3,800.82 W	600,810.99	360,634.78	0.23	3,802.61	
8,001.00	92.93	270.65	41.60	4,311.60	117.18 S	3,896.77 W	600,811.62	360,538.83	2.67	3,898.51	
8,096.00	93.70	270.21	36.11	4,306.11	116.47 S	3,991.61 W	600,812.33	360,443.99	0.93	3,993.29	
8,191.00	92.83	270.64	30.70	4,300.70	115.77 S	4,086.45 W	600,813.03	360,349.15	1.02	4,088.08	
8,287.00	91.32	270.94	27.22	4,297.22	114.44 S	4,182.37 W	600,814.36	360,253.23	1.60	4,183.94	
8,350.00	89.91	270.63	26.54	4,296.54	113.58 S	4,245.36 W	600,815.22	360,190.24	2.29	4,246.88	Last MWD
8,421.00	89.91	270.63	26.65	4,296.65	112.80 S	4,316.36 W	600,816.00	360,119.24	0.00	4,317.83	Straight Line Projection to TD

HALLIBURTON**Survey Report for Toy Box 1921-22 A Federal #1 - Original MWD Surveys Plan #1****Survey Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,900.00	3,897.97	55.59	-75.41	Last Gyro
3,940.00	3,937.93	55.64	-77.18	First MWD
8,350.00	4,296.54	-113.58	-4,245.36	Last MWD
8,421.00	4,296.65	-112.80	-4,316.36	Straight Line Projection to TD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/_S (ft)	+E/-W (ft)	
User	No Target (Freehand)	268.48	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
100.00	3,900.00	Original Gyros	
3,900.00	8,421.00	Original MWD Surveys Plan #1	MWD

HALLIBURTON**Survey Report for Toy Box 1921-22 A Federal #1 - Original MWD Surveys Plan #1****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 032907 - survey misses by 7.55ft at 8421.00ft MD (4296.65 TVD, -112.80 N, -4316.36 E) - Point	0.00	360.00	4,304.00	-114.40	-4,317.10	600,814.40	360,118.50	32° 39' 3.304 N	04° 47' 16.114 W
LP 1a - survey misses by 4.18ft at 4597.85ft MD (4369.36 TVD, -22.34 N, -498.10 E) - Point	0.00	360.00	4,370.70	-18.40	-498.50	600,910.40	363,937.10	32° 39' 4.413 N	04° 46' 31.456 W
TD Target - survey misses by 7.55ft at 8421.00ft MD (4296.65 TVD, -112.80 N, -4316.36 E) - Point	0.00	360.00	4,304.00	-114.40	-4,317.10	600,814.40	360,118.50	32° 39' 3.304 N	04° 47' 16.114 W
LP 2 b - survey misses by 4.17ft at 4698.10ft MD (4372.74 TVD, -26.69 N, -598.14 E) - Point	0.00	360.00	4,368.90	-28.30	-598.20	600,900.50	363,837.40	32° 39' 4.311 N	04° 46' 32.622 W
LP 032907 - survey misses by 2.60ft at 4698.14ft MD (4372.74 TVD, -26.69 N, -598.18 E) - Point	0.00	360.00	4,370.70	-28.30	-598.20	600,900.50	363,837.40	32° 39' 4.311 N	04° 46' 32.622 W

HALLIBURTON**North Reference Sheet for N/2 Sec. 22, T-19-S, R-21-E - Toy Box 1921-22 A Federal #1 - Wellbore #1**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to WELL @ 4270.00ft (Original Well Elev). Northing and Easting are relative to Toy Box 1921-22 A Federal #1

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is 104° 20' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:0° 0' 0.000 N°

False Easting: 500,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99993013

Grid Coordinates of Well: 600,928 80 ft N, 364,435.60 ft E

Geographical Coordinates of Well: 32° 39' 04.62" N, 104° 46' 25.63" W

Grid Convergence at Surface is: -0.24°

Based upon Minimum Curvature type calculations, at a Measured Depth of 8,421.00ft

the Bottom Hole Displacement is 4,317.83ft in the Direction of 268.50° (Grid).

Magnetic Convergence at surface is: -8.93° (22 March 2007, , BGGM2006)

