

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101
Revised July 18, 2013

Energy Minerals and Natural Resources

HOBBS OCD

Oil Conservation Division

☐ AMENDED REPORT

JUL 25 2013

1220 South St. Francis Dr.

Santa Fe, NM 87505

RECEIVED

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address ENDURANCE RESOURCES LLC P.O. Box 1466 Artesia, NM 88211		² OGRID Number 270329
⁴ Property Code 40070	³ Property Name JAZZMASTER 17 STATE	⁵ API Number 30-025-41329
		⁶ Well No. 4H

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
A	17	23S	33E		330	NORTH	660	EAST	LEA

⁸ Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	17	23S	33E		330	SOUTH	660	EAST	LEA

⁹ Pool Information

Pool Name	Pool Code
CRUZ; BONE SPRING	14865

Additional Well Information

¹¹ Work Type NEW WELL	¹² Well Type OIL	¹³ Cable/Rotary	¹⁴ Lease Type STATE	¹⁵ Ground Level Elevation 3703
¹⁶ Multiple N	¹⁷ Proposed Depth 15,233MD / 11,150TVD	¹⁸ Formation BONE SPRING	¹⁹ Contractor	²⁰ Spud Date 08/05/2013
Depth to Ground water	Distance from nearest fresh water well	Distance to nearest surface water	N/A	

☒ We will be using a closed-loop system in lieu of lined pits

²¹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
SURF	17.5	13.375	54.5	1300	830	SURF
INT	12.25	9.625	40	5120	1200	SURF
PROD	8.375	5.5	20	15233	1900	1000

Casing/Cement Program: Additional Comments

PLAN TO DRILL A 17-1/2" HOLE TO 1300' WITH FRESH WATER. RUN 13-3/8 54.5# J-55 CSG & CEMENT TO SURFACE. DRILL 12-1/4" HOLE TO 5,120' WITH BRINE & RUN 9-5/8" 40# N-80 CSG & CEMENT TO SURFACE. DRILL 8-3/4" PILOT HOLE TO 12,300 (TOP OF WOLFCAMP) TO RUN OH LOGS, THEN PLUG BACK TO KICK OFF POINT & DRILL A 8-3/4" CURVE & LATERAL WITH CUT BRINE TO ~15,233' MD/ 11,150' TVD. RUN 5-1/2 20# P-110 CSG & CEMENT TO ~1000' FROM SURFACE IN 1 STAGE.

²² Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DOUBLE RAM	3000	3000	TOWNSEND

AUG 13 2013

dm

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature:

Printed name: KALE JACKSON

Title: SR. COMPLETIONS ENGINEER

E-mail Address: KALE@ENDURANCERESOURCESLLC.COM

Date: 7/24/13

Phone: 575.914.3355

OIL CONSERVATION DIVISION

Approved By:



Title:

DIST. MGR

Approved Date:

8-13-2013

Expiration Date:

8-13-2015

Conditions of Approval Attached

 7/24/13

Endurance Resources LLC

HALLIBURTON
Sperry Drilling Services

Project: Lea County, NM (NAD 83)
Site: Jazzmaster 17 State
Well: Jazzmaster 17 State #4H
Wellbore: Wellbore #1
Plan: Plan #1
Rig: McVay 6

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10278.58	0.00	0.00	10278.58	0.00	0.00	0.00	0.00	0.00	Start Build
11136.59	85.80	179.60	10850.00	-530.99	3.74	10.00	179.60	531.00	End Build
15233.33	85.80	179.60	11150.00	-4616.63	32.49	0.00	0.00	4616.74	TD

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

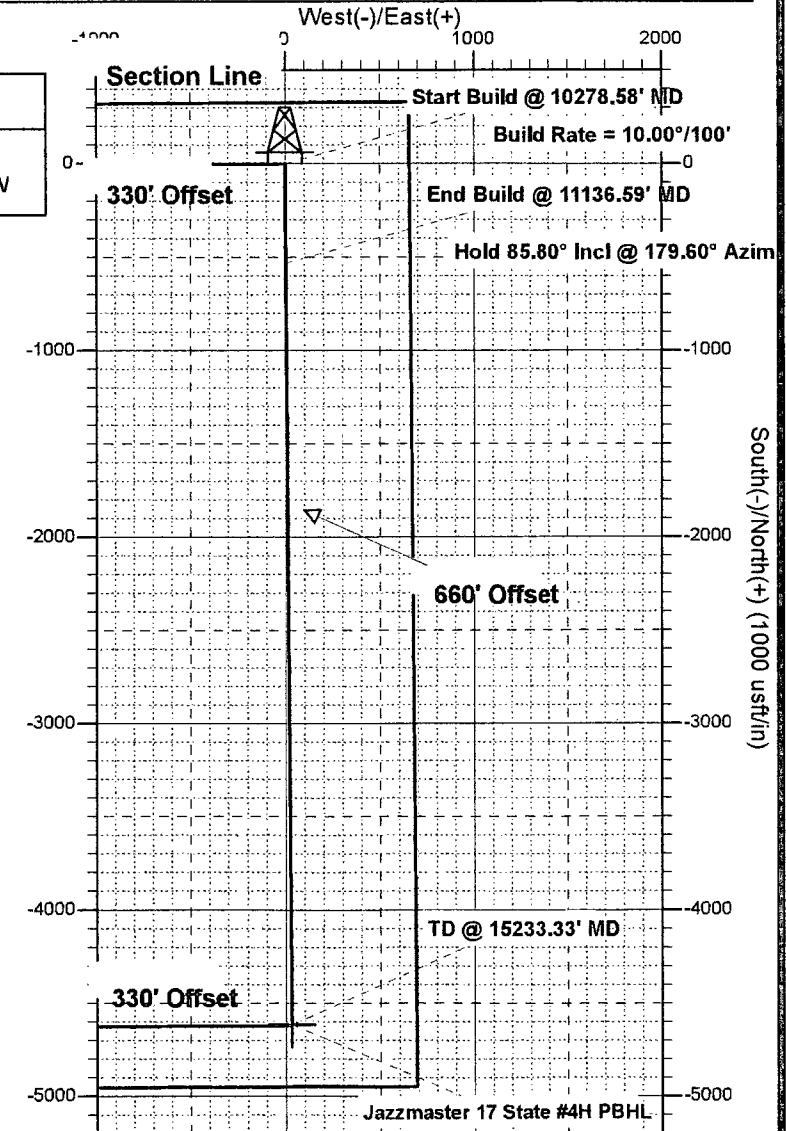
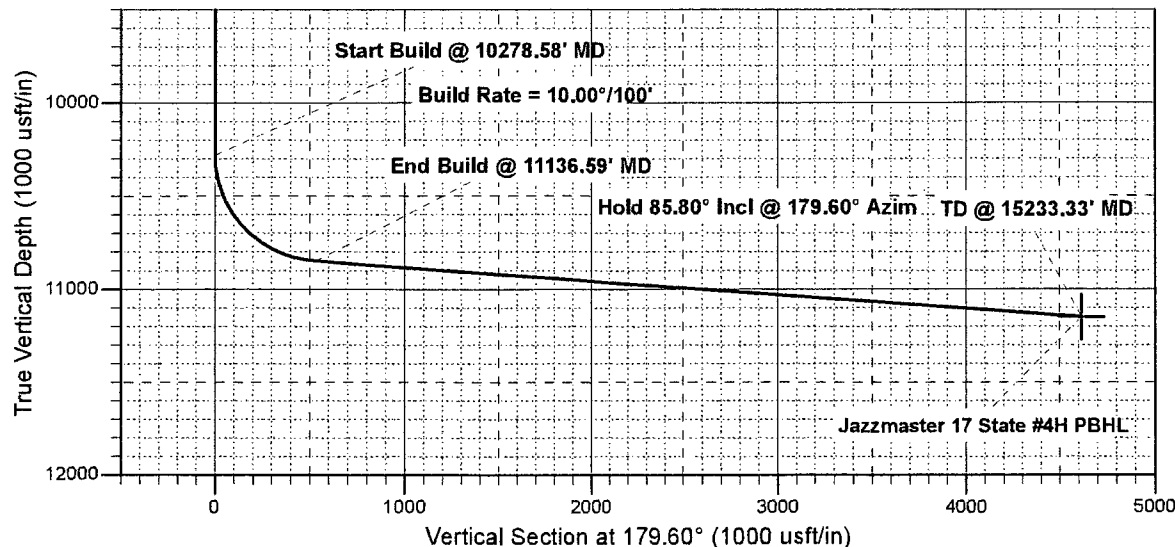
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Jazzmaster 17 State #4H PBHL	11150.00	-4616.63	32.49	473135.34	771622.65	32° 17' 54.681 N	103° 35' 16.921 W

Surface Location:

US State Plane 1983
New Mexico Eastern Zone
Elevation: GE 3703.5' + KB 18' @ 3721.50usft (McVay 6)
Northing **Easting** **Latitude** **Longitude**
477751.97 771590.16 32° 18' 40.365 N 103° 35' 16.926 W

To convert a Magnetic Direction to a Grid Direction, Add 7.05°

Magnetic Model: BGGM2013 Date: 23-Jul-13
Azimuths to Grid North



Created By: Mike Moreno

Endurance Resources LLC

Lea County, NM (NAD 83)

Jazzmaster 17 State

Jazzmaster 17 State #4H

Wellbore #1

Plan: Plan #1

Sperry Drilling Services Standard Report

23 July, 2013

Well Coordinates: 477,751.97 N, 771,590.16 E (32° 18' 40.36" N, 103° 35' 16.93" W)

Ground Level: 3,703.50 usft

Local Coordinate Origin:	Centered on Well Jazzmaster 17 State #4H
Viewing Datum:	GE 3703.5' + KB 18' @ 3721.50usft (McVay 6)
TVDs to System:	N
North Reference:	Grid
Unit System:	API - US Survey Feet

Version: 5000.1 Build: 65

HALLIBURTON

Plan Report for Jazzmaster 17 State #4H - Plan #1

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00

HALLIBURTON

Plan Report for Jazzmaster 17 State #4H - Plan #1

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00

Plan Report for Jazzmaster 17 State #4H - Plan #1

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00
10,278.58	0.00	0.00	10,278.58	0.00	0.00	0.00	0.00
Start Build @ 10278.58 MD - Build Rate = 10.00°/100'							
10,300.00	2.14	179.60	10,300.00	-0.40	0.00	0.40	10.00
10,350.00	7.14	179.60	10,349.82	-4.45	0.03	4.45	10.00
10,400.00	12.14	179.60	10,399.09	-12.82	0.09	12.82	10.00
10,450.00	17.14	179.60	10,447.45	-25.45	0.18	25.45	10.00
10,500.00	22.14	179.60	10,494.53	-42.25	0.30	42.25	10.00
10,550.00	27.14	179.60	10,539.96	-63.09	0.44	63.09	10.00
10,600.00	32.14	179.60	10,583.40	-87.81	0.62	87.82	10.00
10,650.00	37.14	179.60	10,624.53	-116.23	0.82	116.23	10.00
10,700.00	42.14	179.60	10,663.02	-148.11	1.04	148.12	10.00
10,750.00	47.14	179.60	10,698.58	-183.24	1.29	183.24	10.00
10,800.00	52.14	179.60	10,730.95	-221.32	1.56	221.33	10.00
10,850.00	57.14	179.60	10,759.87	-262.09	1.84	262.09	10.00
10,900.00	62.14	179.60	10,785.14	-305.22	2.15	305.23	10.00
10,950.00	67.14	179.60	10,806.54	-350.38	2.47	350.39	10.00
11,000.00	72.14	179.60	10,823.93	-397.25	2.80	397.26	10.00
11,050.00	77.14	179.60	10,837.17	-445.44	3.13	445.45	10.00
11,100.00	82.14	179.60	10,846.16	-494.61	3.48	494.62	10.00
11,136.59	85.80	179.60	10,850.00	-530.99	3.74	531.01	10.00
End Build @ 11136.59 MD - Hold 85.80° Incl @ 179.60° Azim							
11,200.00	85.80	179.60	10,854.64	-594.23	4.18	594.25	0.00
11,300.00	85.80	179.60	10,861.97	-693.96	4.88	693.98	0.00
11,400.00	85.80	179.60	10,869.29	-793.69	5.59	793.71	0.00
11,500.00	85.80	179.60	10,876.61	-893.42	6.29	893.44	0.00
11,600.00	85.80	179.60	10,883.93	-993.15	6.99	993.17	0.00
11,700.00	85.80	179.60	10,891.26	-1,092.88	7.69	1,092.90	0.00
11,800.00	85.80	179.60	10,898.58	-1,192.60	8.39	1,192.63	0.00
11,900.00	85.80	179.60	10,905.90	-1,292.33	9.09	1,292.37	0.00
12,000.00	85.80	179.60	10,913.23	-1,392.06	9.80	1,392.10	0.00
12,100.00	85.80	179.60	10,920.55	-1,491.79	10.50	1,491.83	0.00
12,200.00	85.80	179.60	10,927.87	-1,591.52	11.20	1,591.56	0.00
12,300.00	85.80	179.60	10,935.20	-1,691.25	11.90	1,691.29	0.00
12,400.00	85.80	179.60	10,942.52	-1,790.98	12.60	1,791.02	0.00
12,500.00	85.80	179.60	10,949.84	-1,890.71	13.31	1,890.75	0.00
12,600.00	85.80	179.60	10,957.16	-1,990.44	14.01	1,990.49	0.00
12,700.00	85.80	179.60	10,964.49	-2,090.17	14.71	2,090.22	0.00
12,800.00	85.80	179.60	10,971.81	-2,189.90	15.41	2,189.95	0.00
12,900.00	85.80	179.60	10,979.13	-2,289.62	16.11	2,289.68	0.00
13,000.00	85.80	179.60	10,986.46	-2,389.35	16.82	2,389.41	0.00
13,100.00	85.80	179.60	10,993.78	-2,489.08	17.52	2,489.14	0.00
13,200.00	85.80	179.60	11,001.10	-2,588.81	18.22	2,588.88	0.00
13,300.00	85.80	179.60	11,008.42	-2,688.54	18.92	2,688.61	0.00
13,400.00	85.80	179.60	11,015.75	-2,788.27	19.62	2,788.34	0.00
13,500.00	85.80	179.60	11,023.07	-2,888.00	20.32	2,888.07	0.00
13,600.00	85.80	179.60	11,030.39	-2,987.73	21.03	2,987.80	0.00
13,700.00	85.80	179.60	11,037.72	-3,087.46	21.73	3,087.53	0.00
13,800.00	85.80	179.60	11,045.04	-3,187.19	22.43	3,187.26	0.00

Plan Report for Jazzmaster 17 State #4H - Plan #1

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
13,900.00	85.80	179.60	11,052.36	-3,286.91	23.13	3,287.00	0.00
14,000.00	85.80	179.60	11,059.68	-3,386.64	23.83	3,386.73	0.00
14,100.00	85.80	179.60	11,067.01	-3,486.37	24.54	3,486.46	0.00
14,200.00	85.80	179.60	11,074.33	-3,586.10	25.24	3,586.19	0.00
14,300.00	85.80	179.60	11,081.65	-3,685.83	25.94	3,685.92	0.00
14,400.00	85.80	179.60	11,088.98	-3,785.56	26.64	3,785.65	0.00
14,500.00	85.80	179.60	11,096.30	-3,885.29	27.34	3,885.39	0.00
14,600.00	85.80	179.60	11,103.62	-3,985.02	28.04	3,985.12	0.00
14,700.00	85.80	179.60	11,110.94	-4,084.75	28.75	4,084.85	0.00
14,800.00	85.80	179.60	11,118.27	-4,184.48	29.45	4,184.58	0.00
14,900.00	85.80	179.60	11,125.59	-4,284.21	30.15	4,284.31	0.00
15,000.00	85.80	179.60	11,132.91	-4,383.93	30.85	4,384.04	0.00
15,100.00	85.80	179.60	11,140.24	-4,483.66	31.55	4,483.77	0.00
15,200.00	85.80	179.60	11,147.56	-4,583.39	32.26	4,583.51	0.00
15,233.33	85.80	179.60	11,150.00	-4,616.63	32.49	4,616.74	0.00

TD @ 15233.33' MD

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,278.58	10,278.58	0.00	0.00	Start Build @ 10278.58' MD
10,278.58	10,278.58	0.00	0.00	Build Rate = 10.00°/100'
11,136.59	10,850.00	-530.99	3.74	End Build @ 11136.59' MD
11,136.59	10,850.00	-530.99	3.74	Hold 85.80° Incl @ 179.60° Azim
15,233.33	11,150.00	-4,616.63	32.49	TD @ 15233.33' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (usft)	Origin +E/-W (usft)	Start TVD (usft)
TD	No Target (Freehand)	179.60	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Plan #1	Survey/Plan	Survey Tool
0.00	15,233.33	Plan #1		MWD+SC

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Jazzmaster 17 State	0.00	0.00	11,150.00	-4,616.63	32.49	473,135.34	771,622.65	32° 17' 54.681 N	103° 35' 16.921 W
- plan hits target center									
- Point									

North Reference Sheet for Jazzmaster 17 State - Jazzmaster 17 State #4H - 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 GE 3703.5' + KB 18' @ 3721.50usft (McVay 6). Northing and Easting are relative to Jazzmaster 17 State #4H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980

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: 541,337.50usft, False Northing: 0.00usft, Scale Reduction: 0.99996981

Grid Coordinates of Well: 477,751.97 usft N, 771,590.16 usft E

Geographical Coordinates of Well: 32° 18' 40.36" N, 103° 35' 16.93" W

Grid Convergence at Surface is: 0.40°

Based upon Minimum Curvature type calculations, at a Measured Depth of 15,233.33usft the Bottom Hole Displacement is 4,616.74usft in the Direction of 179.60° (Grid).

Magnetic Convergence at surface is: -7.05° (23 July 2013, , BGGM2013)

