

DEC 10 2013



ELEVATION
RESOURCES

HOBBS OCD

NOV 27 2013

RECEIVED

Elevation Resources

Sec. 20, T-21S, R-34E

Lea County

Bird dog 20 State 1H

HZ Bone Spring

30-025-41528

Plan: Preliminary Plan #1

Directional Plan

13 November, 2013



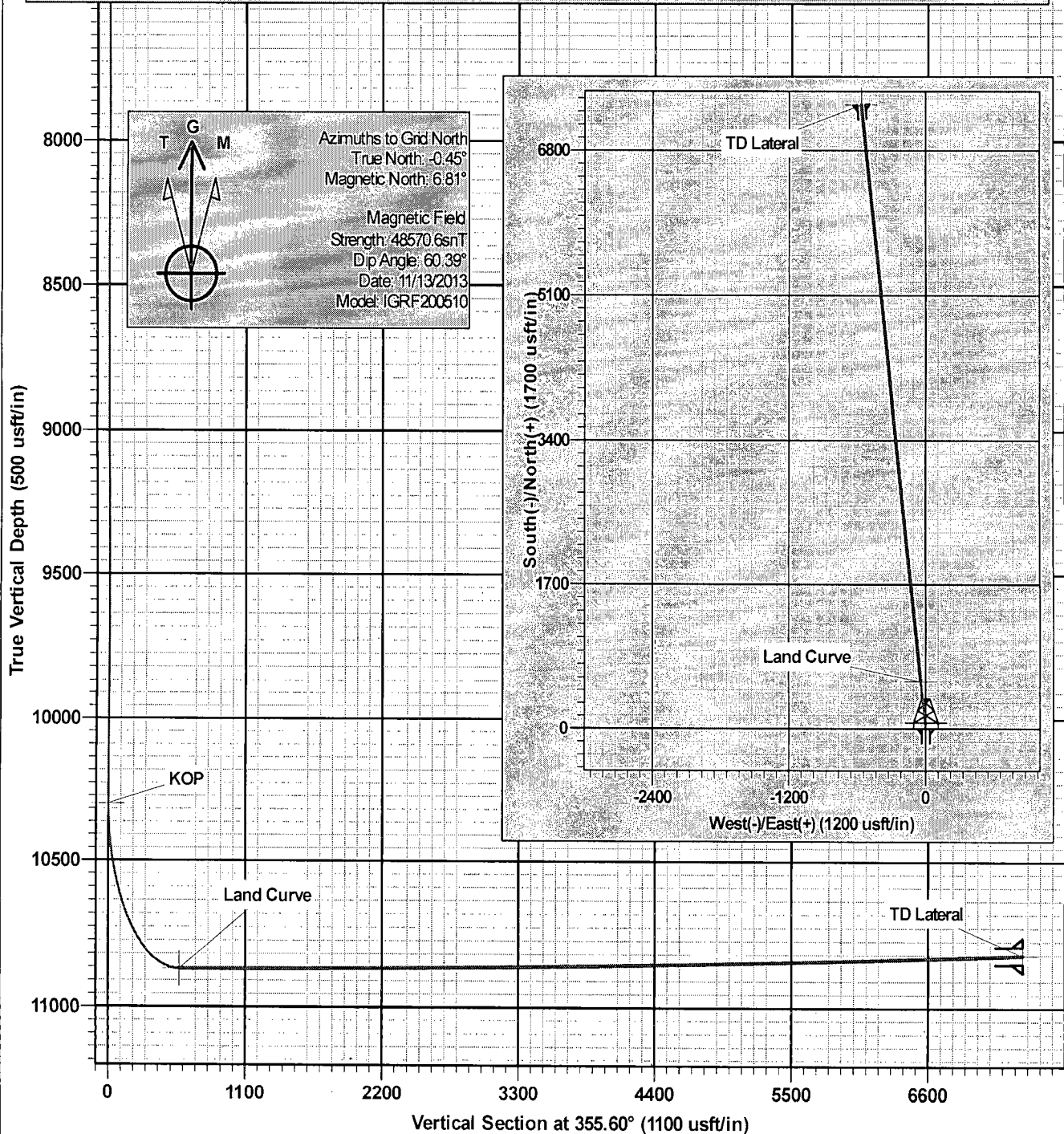
Project: Sec. 20, T-21S, R-34E
 Site: Lea County
 Well: Birddog 20 State 1H
 Wellbore: HZ Bone Spring
 Design: Preliminary Plan #1

PROJECT DETAILS: Sec. 20, T-21S, R-34E

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	10300.0	0.00	0.00	10300.0	0.0	0.0	0.00	0.00	0.0	KOP
3	11195.3	90.00	355.60	10870.0	568.3	-43.7	10.05	355.60	570.0	Land Curve
4	17987.6	90.85	355.60	10820.0	7340.3	-564.8	0.01	-0.41	7362.0	TD Lateral



Directional Plan

Company:	Elevation Resources	Local Co-ordinate Reference:	Site Lea County
Project:	Sec. 20, T-21S, R-34E	TVD Reference:	KB @ 3739.0usft (Drilling Rig)
Site:	Lea County	MD Reference:	KB @ 3739.0usft (Drilling Rig)
Well:	Birdog 20 State 1H	North Reference:	Grid
Wellbore:	HZ Bone Spring	Survey Calculation Method:	Minimum Curvature
Design:	Preliminary Plan #1	Database:	EDM 5000.1 Single User Db

Project:	Sec. 20, T-21S, R-34E		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Lea County		
Site Position:		Northing:	533,840.31 usft
From:	Lat/Long	Easting:	759,224.66 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 27' 53.400 N
		Longitude:	103° 29' 34.280 W
		Grid Convergence:	0.45 °

Well:	Birdog 20 State 1H		
Well Position	+N/-S	0.0 usft	Northing: 533,840.31 usf
	+E/-W	0.0 usft	Easting: 759,224.66 usf
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,719.0 usf
		Latitude:	32° 27' 53.400 N
		Longitude:	103° 29' 34.280 W
		Ground Level:	3,719.0 usft

Wellbore:	HZ Bone Spring		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	11/13/2013	7.26
			(°)
			Dip Angle
			60.39
			(°)
			Field Strength
			48,571
			(nT)

Design	Preliminary Plan #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			355.60

Survey Tool Program	Date 11/13/2013		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
0.0	17,987.6	Preliminary Plan #1 (HZ Bone Spring)	Description

Planned Survey								
MD	TVD	Inc	Azi (azimuth)	Build	N/S	E/W	V. Sec	
(usft)	(usft)	(°)	(°)	(%/100usft)	(usft)	(usft)	(usft)	
0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0	
100.0	100.0	0.00	0.00	0.00	0.0	0.0	0.0	
200.0	200.0	0.00	0.00	0.00	0.0	0.0	0.0	
300.0	300.0	0.00	0.00	0.00	0.0	0.0	0.0	
400.0	400.0	0.00	0.00	0.00	0.0	0.0	0.0	
500.0	500.0	0.00	0.00	0.00	0.0	0.0	0.0	
600.0	600.0	0.00	0.00	0.00	0.0	0.0	0.0	
700.0	700.0	0.00	0.00	0.00	0.0	0.0	0.0	
800.0	800.0	0.00	0.00	0.00	0.0	0.0	0.0	
900.0	900.0	0.00	0.00	0.00	0.0	0.0	0.0	
1,000.0	1,000.0	0.00	0.00	0.00	0.0	0.0	0.0	
1,100.0	1,100.0	0.00	0.00	0.00	0.0	0.0	0.0	

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Site:	Lea County	MD Reference:	KB @ 3739.0usft (Drilling Rig)
Well:	Birdog 20 State 1H	North Reference:	Grid
Wellbore:	HZ Bone Spring	Survey Calculation Method:	Minimum Curvature
Design:	Preliminary Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey

MD (usft)	TVD (usft)	Inc (°)	Azi (azimuth) (°)	Build (°/100usft)	N/S (usft)	E/W (usft)	V. Sec (usft)
1,200.0	1,200.0	0.00	0.00	0.00	0.0	0.0	0.0
1,300.0	1,300.0	0.00	0.00	0.00	0.0	0.0	0.0
1,400.0	1,400.0	0.00	0.00	0.00	0.0	0.0	0.0
1,500.0	1,500.0	0.00	0.00	0.00	0.0	0.0	0.0
1,600.0	1,600.0	0.00	0.00	0.00	0.0	0.0	0.0
1,700.0	1,700.0	0.00	0.00	0.00	0.0	0.0	0.0
1,800.0	1,800.0	0.00	0.00	0.00	0.0	0.0	0.0
1,900.0	1,900.0	0.00	0.00	0.00	0.0	0.0	0.0
2,000.0	2,000.0	0.00	0.00	0.00	0.0	0.0	0.0
2,100.0	2,100.0	0.00	0.00	0.00	0.0	0.0	0.0
2,200.0	2,200.0	0.00	0.00	0.00	0.0	0.0	0.0
2,300.0	2,300.0	0.00	0.00	0.00	0.0	0.0	0.0
2,400.0	2,400.0	0.00	0.00	0.00	0.0	0.0	0.0
2,500.0	2,500.0	0.00	0.00	0.00	0.0	0.0	0.0
2,600.0	2,600.0	0.00	0.00	0.00	0.0	0.0	0.0
2,700.0	2,700.0	0.00	0.00	0.00	0.0	0.0	0.0
2,800.0	2,800.0	0.00	0.00	0.00	0.0	0.0	0.0
2,900.0	2,900.0	0.00	0.00	0.00	0.0	0.0	0.0
3,000.0	3,000.0	0.00	0.00	0.00	0.0	0.0	0.0
3,100.0	3,100.0	0.00	0.00	0.00	0.0	0.0	0.0
3,200.0	3,200.0	0.00	0.00	0.00	0.0	0.0	0.0
3,300.0	3,300.0	0.00	0.00	0.00	0.0	0.0	0.0
3,400.0	3,400.0	0.00	0.00	0.00	0.0	0.0	0.0
3,500.0	3,500.0	0.00	0.00	0.00	0.0	0.0	0.0
3,600.0	3,600.0	0.00	0.00	0.00	0.0	0.0	0.0
3,700.0	3,700.0	0.00	0.00	0.00	0.0	0.0	0.0
3,760.0	3,760.0	0.00	0.00	0.00	0.0	0.0	0.0
Yates							
3,800.0	3,800.0	0.00	0.00	0.00	0.0	0.0	0.0
3,900.0	3,900.0	0.00	0.00	0.00	0.0	0.0	0.0
4,000.0	4,000.0	0.00	0.00	0.00	0.0	0.0	0.0
4,100.0	4,100.0	0.00	0.00	0.00	0.0	0.0	0.0
4,200.0	4,200.0	0.00	0.00	0.00	0.0	0.0	0.0
4,300.0	4,300.0	0.00	0.00	0.00	0.0	0.0	0.0
4,400.0	4,400.0	0.00	0.00	0.00	0.0	0.0	0.0
4,500.0	4,500.0	0.00	0.00	0.00	0.0	0.0	0.0
4,600.0	4,600.0	0.00	0.00	0.00	0.0	0.0	0.0
4,700.0	4,700.0	0.00	0.00	0.00	0.0	0.0	0.0
4,800.0	4,800.0	0.00	0.00	0.00	0.0	0.0	0.0
4,900.0	4,900.0	0.00	0.00	0.00	0.0	0.0	0.0
5,000.0	5,000.0	0.00	0.00	0.00	0.0	0.0	0.0
5,100.0	5,100.0	0.00	0.00	0.00	0.0	0.0	0.0
5,200.0	5,200.0	0.00	0.00	0.00	0.0	0.0	0.0
5,300.0	5,300.0	0.00	0.00	0.00	0.0	0.0	0.0

Directional Plan

Company: Elevation Resources
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Well: Birddog 20 State 1H
Wellbore: HZ Bone Spring
Design: Preliminary Plan #1

Local Co-ordinate Reference: Site Lea County
TVD Reference: KB @ 3739.0usft (Drilling Rig)
MD Reference: KB @ 3739.0usft (Drilling Rig)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	TVD (usft)	Inc (°)	Azi (azimuth) (°)	Build (°/100usft)	N/S (usft)	E/W (usft)	V. Sec (usft)
5,400.0	5,400.0	0.00	0.00	0.00	0.0	0.0	0.0
5,500.0	5,500.0	0.00	0.00	0.00	0.0	0.0	0.0
5,600.0	5,600.0	0.00	0.00	0.00	0.0	0.0	0.0
5,700.0	5,700.0	0.00	0.00	0.00	0.0	0.0	0.0
5,800.0	5,800.0	0.00	0.00	0.00	0.0	0.0	0.0
5,840.0	5,840.0	0.00	0.00	0.00	0.0	0.0	0.0
Top Delaware							
5,900.0	5,900.0	0.00	0.00	0.00	0.0	0.0	0.0
6,000.0	6,000.0	0.00	0.00	0.00	0.0	0.0	0.0
6,100.0	6,100.0	0.00	0.00	0.00	0.0	0.0	0.0
6,200.0	6,200.0	0.00	0.00	0.00	0.0	0.0	0.0
6,300.0	6,300.0	0.00	0.00	0.00	0.0	0.0	0.0
6,400.0	6,400.0	0.00	0.00	0.00	0.0	0.0	0.0
6,500.0	6,500.0	0.00	0.00	0.00	0.0	0.0	0.0
6,600.0	6,600.0	0.00	0.00	0.00	0.0	0.0	0.0
6,700.0	6,700.0	0.00	0.00	0.00	0.0	0.0	0.0
6,800.0	6,800.0	0.00	0.00	0.00	0.0	0.0	0.0
6,900.0	6,900.0	0.00	0.00	0.00	0.0	0.0	0.0
7,000.0	7,000.0	0.00	0.00	0.00	0.0	0.0	0.0
7,100.0	7,100.0	0.00	0.00	0.00	0.0	0.0	0.0
7,200.0	7,200.0	0.00	0.00	0.00	0.0	0.0	0.0
7,300.0	7,300.0	0.00	0.00	0.00	0.0	0.0	0.0
7,400.0	7,400.0	0.00	0.00	0.00	0.0	0.0	0.0
7,500.0	7,500.0	0.00	0.00	0.00	0.0	0.0	0.0
7,600.0	7,600.0	0.00	0.00	0.00	0.0	0.0	0.0
7,700.0	7,700.0	0.00	0.00	0.00	0.0	0.0	0.0
7,800.0	7,800.0	0.00	0.00	0.00	0.0	0.0	0.0
7,900.0	7,900.0	0.00	0.00	0.00	0.0	0.0	0.0
8,000.0	8,000.0	0.00	0.00	0.00	0.0	0.0	0.0
8,100.0	8,100.0	0.00	0.00	0.00	0.0	0.0	0.0
8,200.0	8,200.0	0.00	0.00	0.00	0.0	0.0	0.0
8,300.0	8,300.0	0.00	0.00	0.00	0.0	0.0	0.0
8,400.0	8,400.0	0.00	0.00	0.00	0.0	0.0	0.0
8,500.0	8,500.0	0.00	0.00	0.00	0.0	0.0	0.0
8,600.0	8,600.0	0.00	0.00	0.00	0.0	0.0	0.0
8,700.0	8,700.0	0.00	0.00	0.00	0.0	0.0	0.0
Top Bone Spring							
8,800.0	8,800.0	0.00	0.00	0.00	0.0	0.0	0.0
8,900.0	8,900.0	0.00	0.00	0.00	0.0	0.0	0.0
9,000.0	9,000.0	0.00	0.00	0.00	0.0	0.0	0.0
9,100.0	9,100.0	0.00	0.00	0.00	0.0	0.0	0.0
9,200.0	9,200.0	0.00	0.00	0.00	0.0	0.0	0.0
9,300.0	9,300.0	0.00	0.00	0.00	0.0	0.0	0.0
9,400.0	9,400.0	0.00	0.00	0.00	0.0	0.0	0.0
9,500.0	9,500.0	0.00	0.00	0.00	0.0	0.0	0.0

Company:	Elevation Resources	Local Co-ordinate Reference:	Site Lea County
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Site:	Lea County	MD Reference:	KB @ 3739.0usft (Drilling Rig)
Well:	Birdog 20 State 1H	North Reference:	Grid
Wellbore:	HZ Bone Spring	Survey Calculation Method:	Minimum Curvature
Design:	Preliminary Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey

MD (usft)	TVD (usft)	Inc (°)	Azi (azimuth) (°)	Build (°/100usft)	N/S (usft)	E/W (usft)	V. Sec (usft)
9,600.0	9,600.0	0.00	0.00	0.00	0.0	0.0	0.0
9,700.0	9,700.0	0.00	0.00	0.00	0.0	0.0	0.0
9,800.0	9,800.0	0.00	0.00	0.00	0.0	0.0	0.0
9,900.0	9,900.0	0.00	0.00	0.00	0.0	0.0	0.0
1st Bone Spring Sand							
10,000.0	10,000.0	0.00	0.00	0.00	0.0	0.0	0.0
10,100.0	10,100.0	0.00	0.00	0.00	0.0	0.0	0.0
10,200.0	10,200.0	0.00	0.00	0.00	0.0	0.0	0.0
10,300.0	10,300.0	0.00	0.00	0.00	0.0	0.0	0.0
KOP							
10,400.0	10,399.5	10.05	355.60	10.05	8.7	-0.7	8.7
10,500.0	10,495.9	20.10	355.60	10.05	34.6	-2.7	34.7
10,516.1	10,511.0	21.73	355.60	10.05	40.4	-3.1	40.5
2nd Bone Spring Sand							
10,600.0	10,586.3	30.16	355.60	10.05	76.9	-5.9	77.1
10,700.0	10,668.0	40.21	355.60	10.05	134.3	-10.3	134.7
10,800.0	10,738.3	50.26	355.60	10.05	205.0	-15.8	205.6
10,900.0	10,795.2	60.31	355.60	10.05	286.8	-22.1	287.7
11,000.0	10,836.8	70.36	355.60	10.05	377.3	-29.0	378.4
11,100.0	10,862.0	80.42	355.60	10.05	473.7	-36.4	475.1
11,195.3	10,870.0	90.00	355.60	10.05	568.3	-43.7	570.0
Land Curve							
11,200.0	10,870.0	90.00	355.60	0.01	573.0	-44.1	574.6
11,300.0	10,870.0	90.01	355.60	0.01	672.7	-51.7	674.6
11,400.0	10,870.0	90.02	355.60	0.01	772.4	-59.4	774.6
11,500.0	10,869.9	90.04	355.60	0.01	872.1	-67.1	874.6
11,600.0	10,869.8	90.05	355.60	0.01	971.8	-74.7	974.6
11,700.0	10,869.7	90.06	355.60	0.01	1,071.5	-82.4	1,074.6
11,800.0	10,869.6	90.07	355.60	0.01	1,171.2	-90.1	1,174.6
11,900.0	10,869.5	90.09	355.60	0.01	1,270.9	-97.7	1,274.6
12,000.0	10,869.3	90.10	355.60	0.01	1,370.6	-105.4	1,374.6
12,100.0	10,869.1	90.11	355.60	0.01	1,470.3	-113.1	1,474.6
12,200.0	10,868.9	90.12	355.60	0.01	1,570.0	-120.7	1,574.6
12,300.0	10,868.7	90.14	355.60	0.01	1,669.7	-128.4	1,674.6
12,400.0	10,868.5	90.15	355.60	0.01	1,769.4	-136.1	1,774.6
12,500.0	10,868.2	90.16	355.60	0.01	1,869.1	-143.7	1,874.6
12,600.0	10,867.9	90.17	355.60	0.01	1,968.8	-151.4	1,974.6
12,700.0	10,867.6	90.19	355.60	0.01	2,068.5	-159.1	2,074.6
12,800.0	10,867.3	90.20	355.60	0.01	2,168.2	-166.7	2,174.6
12,900.0	10,866.9	90.21	355.60	0.01	2,267.9	-174.4	2,274.6
13,000.0	10,866.5	90.22	355.60	0.01	2,367.6	-182.1	2,374.6
13,100.0	10,866.1	90.24	355.60	0.01	2,467.4	-189.8	2,474.6
13,200.0	10,865.7	90.25	355.60	0.01	2,567.1	-197.4	2,574.6
13,300.0	10,865.3	90.26	355.60	0.01	2,666.8	-205.1	2,674.6
13,400.0	10,864.8	90.27	355.60	0.01	2,766.5	-212.8	2,774.6

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Planned Survey

MD (usft)	TVD (usft)	Inc (°)	Azi (azimuth) (°)	Build (°/100usft)	N/S (usft)	E/W (usft)	V. Sec (usft)
13,500.0	10,864.3	90.29	355.60	0.01	2,866.2	-220.4	2,874.6
13,600.0	10,863.8	90.30	355.60	0.01	2,965.9	-228.1	2,974.6
13,700.0	10,863.3	90.31	355.60	0.01	3,065.6	-235.8	3,074.6
13,800.0	10,862.7	90.32	355.60	0.01	3,165.3	-243.5	3,174.6
13,900.0	10,862.1	90.34	355.60	0.01	3,265.0	-251.1	3,274.6
14,000.0	10,861.5	90.35	355.60	0.01	3,364.7	-258.8	3,374.6
14,100.0	10,860.9	90.36	355.60	0.01	3,464.4	-266.5	3,474.6
14,200.0	10,860.3	90.37	355.60	0.01	3,564.1	-274.1	3,574.6
14,300.0	10,859.6	90.39	355.60	0.01	3,663.8	-281.8	3,674.6
14,400.0	10,858.9	90.40	355.60	0.01	3,763.5	-289.5	3,774.6
14,500.0	10,858.2	90.41	355.60	0.01	3,863.2	-297.2	3,874.6
14,600.0	10,857.5	90.42	355.60	0.01	3,962.9	-304.8	3,974.6
14,700.0	10,856.8	90.44	355.60	0.01	4,062.6	-312.5	4,074.6
14,800.0	10,856.0	90.45	355.60	0.01	4,162.3	-320.2	4,174.6
14,900.0	10,855.2	90.46	355.60	0.01	4,262.0	-327.8	4,274.6
15,000.0	10,854.4	90.47	355.60	0.01	4,361.7	-335.5	4,374.6
15,100.0	10,853.5	90.49	355.60	0.01	4,461.4	-343.2	4,474.6
15,200.0	10,852.7	90.50	355.60	0.01	4,561.1	-350.9	4,574.6
15,300.0	10,851.8	90.51	355.60	0.01	4,660.8	-358.5	4,674.6
15,400.0	10,850.9	90.52	355.60	0.01	4,760.5	-366.2	4,774.6
15,500.0	10,850.0	90.54	355.60	0.01	4,860.2	-373.9	4,874.6
15,600.0	10,849.0	90.55	355.60	0.01	4,959.9	-381.5	4,974.6
15,700.0	10,848.1	90.56	355.60	0.01	5,059.6	-389.2	5,074.6
15,800.0	10,847.1	90.57	355.60	0.01	5,159.3	-396.9	5,174.6
15,900.0	10,846.1	90.59	355.60	0.01	5,259.0	-404.6	5,274.6
16,000.0	10,845.0	90.60	355.60	0.01	5,358.7	-412.2	5,374.6
16,100.0	10,844.0	90.61	355.60	0.01	5,458.4	-419.9	5,474.6
16,200.0	10,842.9	90.62	355.60	0.01	5,558.1	-427.6	5,574.5
16,300.0	10,841.8	90.64	355.60	0.01	5,657.8	-435.3	5,674.5
16,400.0	10,840.7	90.65	355.60	0.01	5,757.5	-442.9	5,774.5
16,500.0	10,839.5	90.66	355.60	0.01	5,857.2	-450.6	5,874.5
16,600.0	10,838.4	90.67	355.60	0.01	5,956.9	-458.3	5,974.5
16,700.0	10,837.2	90.69	355.60	0.01	6,056.6	-466.0	6,074.5
16,800.0	10,836.0	90.70	355.60	0.01	6,156.3	-473.6	6,174.5
16,900.0	10,834.8	90.71	355.60	0.01	6,256.0	-481.3	6,274.5
17,000.0	10,833.5	90.72	355.60	0.01	6,355.7	-489.0	6,374.5
17,100.0	10,832.2	90.73	355.60	0.01	6,455.4	-496.7	6,474.5
17,200.0	10,831.0	90.75	355.60	0.01	6,555.1	-504.3	6,574.5
17,300.0	10,829.6	90.76	355.60	0.01	6,654.8	-512.0	6,674.5
17,400.0	10,828.3	90.77	355.60	0.01	6,754.5	-519.7	6,774.5
17,500.0	10,826.9	90.78	355.60	0.01	6,854.2	-527.4	6,874.4
17,600.0	10,825.6	90.80	355.60	0.01	6,953.9	-535.0	6,974.4
17,700.0	10,824.2	90.81	355.60	0.01	7,053.6	-542.7	7,074.4
17,800.0	10,822.7	90.82	355.60	0.01	7,153.3	-550.4	7,174.4

Directional Plan

Company: Elevation Resources
Project: Sec. 20, T-21S, R-34E
Site: Lea County
Well: Birddog 20 State 1H
Wellbore: HZ Bone Spring
Design: Preliminary Plan #1

Local Co-ordinate Reference: Site Lea County
TVD Reference: KB @ 3739.0usft (Drilling Rig)
MD Reference: KB @ 3739.0usft (Drilling Rig)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	TVD (usft)	Inc (°)	Azi (azimuth) (°)	Build (°/100usft)	N/S (usft)	E/W (usft)	V. Sec (usft)
17,900.0	10,821.3	90.83	355.60	0.01	7,253.0	-558.1	7,274.4
17,987.6	10,820.0	90.85	355.60	0.01	7,340.3	-564.8	7,362.0
TD Lateral							

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,850.0	1,850.0	13 3/8"	13-3/8	17-1/2
5,800.0	5,800.0	9 5/8"	9-5/8	12-1/4
17,987.0	10,820.0	5 1/2"	5-1/2	8-3/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,760.0	3,760.0	Yates		0.00	
10,516.1	10,511.0	2nd Bone Spring Sand		0.00	
5,840.0	5,840.0	Top Delaware		0.00	
8,700.0	8,700.0	Top Bone Spring		0.00	
9,900.0	9,900.0	1st Bone Spring Sand		0.00	

Checked By: _____ Approved By: _____ Date: _____

