

Devon

Project: Lea County, NM (NAD 83)
 Site: Sec 32 T. 24 S., R.32E.
 Well: Chincoteague 32 ST Com 4H
 Wellbore: Wellbore #1
 Plan: Plan#1 102814 RevA0 (Chincoteague 32 ST Com 4H/Wellbore #1)
 HP212

HALLIBURTON
 Sperry Drilling

WELL DETAILS: Chincoteague 32 ST Com 4H

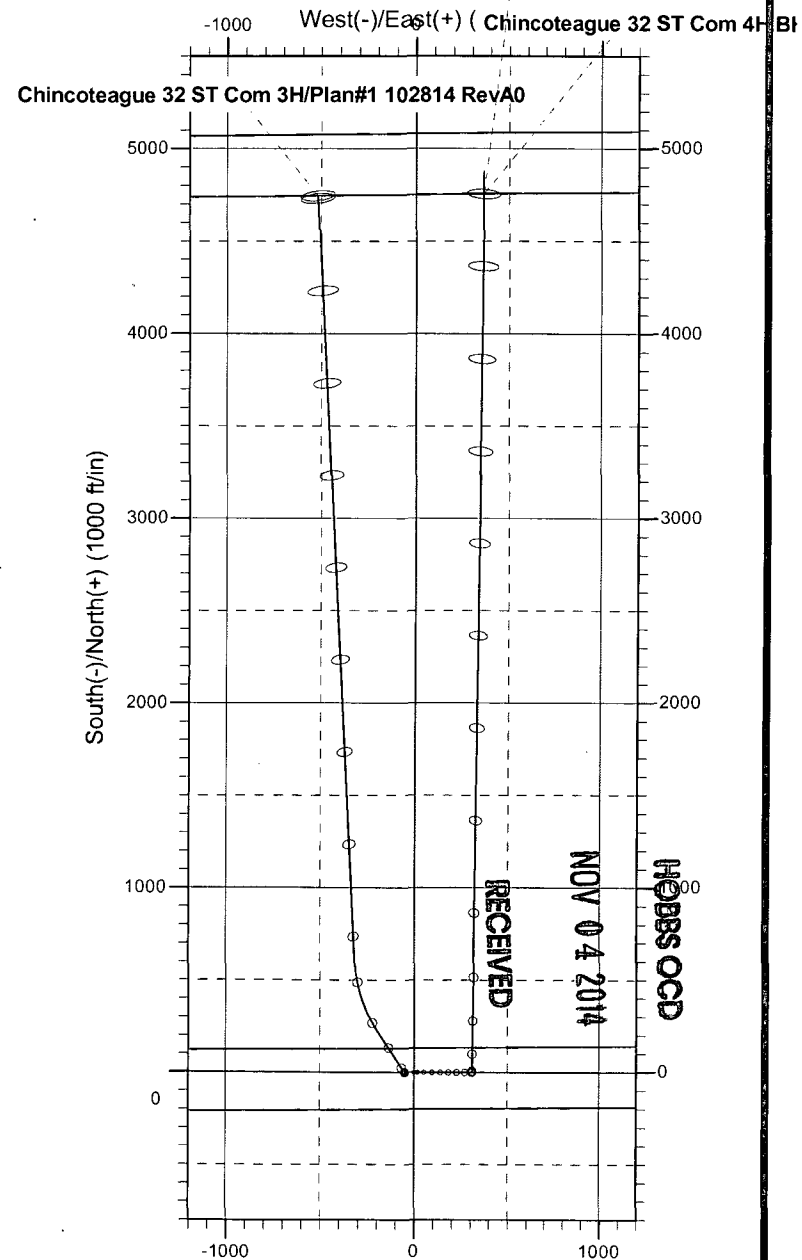
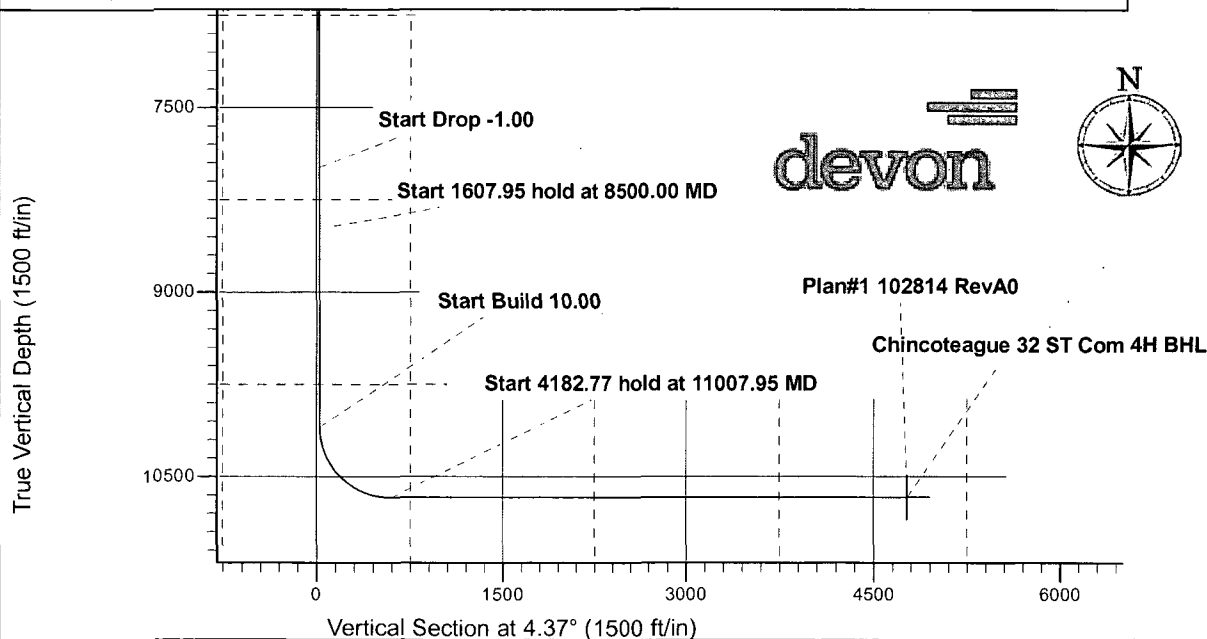
Ground Level:	3470.90
Northing	425147.25
Easting	738383.22
Latitude	32° 10' 1.939 N
Longitude	103° 41' 47.490 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4440.00	0.00	0.00	4440.00	0.00	0.00	0.00	0.00	0.00	
4940.00	5.00	90.00	4939.37	0.00	21.80	1.00	90.00	1.66	
8000.00	5.00	90.00	7987.72	0.00	288.50	0.00	0.00	21.98	
8500.00	0.00	0.00	8487.09	0.00	310.30	1.00	180.00	23.64	
10107.95	0.00	0.00	10095.04	0.00	310.30	0.00	0.00	23.64	
11007.95	90.00	0.64	10668.00	572.92	316.69	10.00	0.64	595.38	Chincoteague 32 ST Com 4H BHL
15190.72	90.00	0.64	10668.00	4755.43	363.34	0.00	0.00	4769.29	Chincoteague 32 ST Com 4H BHL

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Chincoteague 32 ST Com 4H BHL	10668.00	4755.43	363.34	Point



NOV 05 2014

Job#
HP212

Devon

Lea County, NM (NAD 83) Sec 32 T. 24 S., R.32E.

API#

Chincoteague 32 ST Com 4H

200' FSL & 2600' FEL

Wellbore #1

Plan: Plan#1 102814 RevA0

Sperry Drilling Services Combo Report

29 October, 2014

Well Coordinates: 32° 10' 01.94" N
103° 41' 47.49" W

North American Datum 1983
New Mexico Eastern Zone
425,147.25 N
738,383.22 E

Ground Level: 3,470.90 ft

Local Coordinate Origin:

Viewing Datum:

TVDs to System:

North Reference:

Unit System:

Centered on Well Chincoteague 32 ST Com 4H

Well @ 3495.90ft (HP212)

N

Grid

API US Survey Feet

Version: 5000.1 Build: 73

Report Version: Midcon Combo v1.50

HALLIBURTON

Plan Report for Chincoteague 32 ST Com 4H - Plan#1 102814 RevA0

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (ft)	Comments
					Northing (ft)	Easting (ft)	Northing (usft)	Easting (usft)			
0.00	0.00	0.00	-3,495.90	0.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
100.00	0.00	0.00	-3,395.90	100.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
200.00	0.00	0.00	-3,295.90	200.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
300.00	0.00	0.00	-3,195.90	300.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
400.00	0.00	0.00	-3,095.90	400.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
500.00	0.00	0.00	-2,995.90	500.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
600.00	0.00	0.00	-2,895.90	600.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
700.00	0.00	0.00	-2,795.90	700.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
800.00	0.00	0.00	-2,695.90	800.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
900.00	0.00	0.00	-2,595.90	900.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
1,000.00	0.00	0.00	-2,495.90	1,000.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
1,100.00	0.00	0.00	-2,395.90	1,100.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
1,200.00	0.00	0.00	-2,295.90	1,200.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
1,300.00	0.00	0.00	-2,195.90	1,300.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
1,400.00	0.00	0.00	-2,095.90	1,400.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
1,500.00	0.00	0.00	-1,995.90	1,500.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
1,600.00	0.00	0.00	-1,895.90	1,600.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
1,700.00	0.00	0.00	-1,795.90	1,700.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
1,800.00	0.00	0.00	-1,695.90	1,800.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
1,900.00	0.00	0.00	-1,595.90	1,900.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
2,000.00	0.00	0.00	-1,495.90	2,000.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
2,100.00	0.00	0.00	-1,395.90	2,100.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
2,200.00	0.00	0.00	-1,295.90	2,200.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
2,300.00	0.00	0.00	-1,195.90	2,300.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
2,400.00	0.00	0.00	-1,095.90	2,400.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
2,500.00	0.00	0.00	-995.90	2,500.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
2,600.00	0.00	0.00	-895.90	2,600.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
2,700.00	0.00	0.00	-795.90	2,700.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
2,800.00	0.00	0.00	-695.90	2,800.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
2,900.00	0.00	0.00	-595.90	2,900.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
3,000.00	0.00	0.00	-495.90	3,000.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
3,100.00	0.00	0.00	-395.90	3,100.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
3,200.00	0.00	0.00	-295.90	3,200.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
3,300.00	0.00	0.00	-195.90	3,300.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
3,400.00	0.00	0.00	-95.90	3,400.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
3,500.00	0.00	0.00	4.10	3,500.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
3,600.00	0.00	0.00	104.10	3,600.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
3,700.00	0.00	0.00	204.10	3,700.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
3,800.00	0.00	0.00	304.10	3,800.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
3,900.00	0.00	0.00	404.10	3,900.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
4,000.00	0.00	0.00	504.10	4,000.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	

Plan Report for Chincoteague 32 ST Com 4H - Plan#1 102814 RevA0

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft)	Easting (ft)	Map Coordinates Northing (usft)	Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (ft)	Comments
4,100.00	0.00	0.00	604.10	4,100.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
4,200.00	0.00	0.00	704.10	4,200.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
4,300.00	0.00	0.00	804.10	4,300.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
4,400.00	0.00	0.00	904.10	4,400.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	
4,440.00	0.00	0.00	944.10	4,440.00	0.00 N	0.00 E	425,147.25	738,383.22	0.00	0.00	Start Build 1.00
4,500.00	0.60	90.00	1,004.10	4,500.00	0.00 S	0.31 E	425,147.25	738,383.53	1.00	0.02	
4,600.00	1.60	90.00	1,104.08	4,599.98	0.00 S	2.23 E	425,147.25	738,385.45	1.00	0.17	
4,700.00	2.60	90.00	1,204.01	4,699.91	0.00 S	5.90 E	425,147.25	738,389.12	1.00	0.45	
4,800.00	3.60	90.00	1,303.86	4,799.76	0.00 S	11.31 E	425,147.25	738,394.53	1.00	0.86	
4,900.00	4.60	90.00	1,403.61	4,899.51	0.00 S	18.46 E	425,147.25	738,401.68	1.00	1.41	
4,940.00	5.00	90.00	1,443.47	4,939.37	0.00 S	21.80 E	425,147.25	738,405.02	1.00	1.66	Start 3060.00' hold at 4940.00' MD
5,000.00	5.00	90.00	1,503.24	4,999.14	0.00 S	27.03 E	425,147.25	738,410.25	0.00	2.06	
5,100.00	5.00	90.00	1,602.86	5,098.76	0.00 S	35.75 E	425,147.25	738,418.97	0.00	2.72	
5,200.00	5.00	90.00	1,702.48	5,198.38	0.00 S	44.46 E	425,147.25	738,427.68	0.00	3.39	
5,300.00	5.00	90.00	1,802.10	5,298.00	0.00 S	53.18 E	425,147.25	738,436.40	0.00	4.05	
5,400.00	5.00	90.00	1,901.72	5,397.62	0.00 S	61.89 E	425,147.25	738,445.11	0.00	4.72	
5,500.00	5.00	90.00	2,001.33	5,497.23	0.00 S	70.61 E	425,147.25	738,453.83	0.00	5.38	
5,600.00	5.00	90.00	2,100.95	5,596.85	0.00 S	79.33 E	425,147.25	738,462.55	0.00	6.04	
5,700.00	5.00	90.00	2,200.57	5,696.47	0.00 S	88.04 E	425,147.25	738,471.26	0.00	6.71	
5,800.00	5.00	90.00	2,300.19	5,796.09	0.00 S	96.76 E	425,147.25	738,479.98	0.00	7.37	
5,900.00	5.00	90.00	2,399.81	5,895.71	0.00 S	105.47 E	425,147.25	738,488.69	0.00	8.04	
6,000.00	5.00	90.00	2,499.43	5,995.33	0.00 S	114.19 E	425,147.25	738,497.41	0.00	8.70	
6,100.00	5.00	90.00	2,599.05	6,094.95	0.00 S	122.90 E	425,147.25	738,506.12	0.00	9.36	
6,200.00	5.00	90.00	2,698.67	6,194.57	0.00 S	131.62 E	425,147.25	738,514.84	0.00	10.03	
6,300.00	5.00	90.00	2,798.29	6,294.19	0.00 S	140.33 E	425,147.25	738,523.55	0.00	10.69	
6,400.00	5.00	90.00	2,897.91	6,393.81	0.00 S	149.05 E	425,147.25	738,532.27	0.00	11.36	
6,500.00	5.00	90.00	2,997.53	6,493.43	0.00 S	157.77 E	425,147.25	738,540.99	0.00	12.02	
6,600.00	5.00	90.00	3,097.15	6,593.05	0.00 S	166.48 E	425,147.25	738,549.70	0.00	12.68	
6,700.00	5.00	90.00	3,196.77	6,692.67	0.00 S	175.20 E	425,147.25	738,558.42	0.00	13.35	
6,800.00	5.00	90.00	3,296.39	6,792.29	0.00 S	183.91 E	425,147.25	738,567.13	0.00	14.01	
6,900.00	5.00	90.00	3,396.01	6,891.91	0.00 S	192.63 E	425,147.25	738,575.85	0.00	14.68	
7,000.00	5.00	90.00	3,495.63	6,991.53	0.00 S	201.34 E	425,147.25	738,584.56	0.00	15.34	
7,100.00	5.00	90.00	3,595.25	7,091.15	0.00 S	210.06 E	425,147.25	738,593.28	0.00	16.00	
7,200.00	5.00	90.00	3,694.87	7,190.77	0.00 S	218.77 E	425,147.25	738,601.99	0.00	16.67	
7,300.00	5.00	90.00	3,794.49	7,290.39	0.00 S	227.49 E	425,147.25	738,610.71	0.00	17.33	
7,400.00	5.00	90.00	3,894.10	7,390.00	0.00 S	236.21 E	425,147.25	738,619.43	0.00	17.99	
7,500.00	5.00	90.00	3,993.72	7,489.62	0.00 S	244.92 E	425,147.25	738,628.14	0.00	18.66	
7,600.00	5.00	90.00	4,093.34	7,589.24	0.00 S	253.64 E	425,147.25	738,636.86	0.00	19.32	
7,700.00	5.00	90.00	4,192.96	7,688.86	0.00 S	262.35 E	425,147.25	738,645.57	0.00	19.99	
7,800.00	5.00	90.00	4,292.58	7,788.48	0.00 S	271.07 E	425,147.25	738,654.29	0.00	20.65	
7,900.00	5.00	90.00	4,392.20	7,888.10	0.00 S	279.78 E	425,147.25	738,663.00	0.00	21.31	

Plan Report for Chincoteague 32 ST Com 4H - Plan#1 102814 RevA0

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (ft)	Comments
					Northing (ft)	Easting (ft)	Northing (usft)	Easting (usft)			
8,000.00	5.00	90.00	4,491.82	7,987.72	0.00 S	288.50 E	425,147.25	738,671.72	0.00	21.98	Start Drop -1.00
8,100.00	4.00	90.00	4,591.51	8,087.41	0.00 S	296.35 E	425,147.25	738,679.56	1.00	22.58	
8,200.00	3.00	90.00	4,691.32	8,187.22	0.00 S	302.45 E	425,147.25	738,685.67	1.00	23.04	
8,300.00	2.00	90.00	4,791.23	8,287.13	0.00 S	306.81 E	425,147.25	738,690.03	1.00	23.37	
8,400.00	1.00	90.00	4,891.19	8,387.09	0.00 S	309.43 E	425,147.25	738,692.65	1.00	23.57	
8,500.00	0.00	0.00	4,991.19	8,487.09	0.00 S	310.30 E	425,147.25	738,693.52	1.00	23.64	Start 1607.95' hold at 8500.00' MD
8,600.00	0.00	0.00	5,091.19	8,587.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
8,700.00	0.00	0.00	5,191.19	8,687.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
8,800.00	0.00	0.00	5,291.19	8,787.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
8,900.00	0.00	0.00	5,391.19	8,887.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
9,000.00	0.00	0.00	5,491.19	8,987.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
9,100.00	0.00	0.00	5,591.19	9,087.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
9,200.00	0.00	0.00	5,691.19	9,187.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
9,300.00	0.00	0.00	5,791.19	9,287.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
9,400.00	0.00	0.00	5,891.19	9,387.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
9,500.00	0.00	0.00	5,991.19	9,487.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
9,600.00	0.00	0.00	6,091.19	9,587.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
9,700.00	0.00	0.00	6,191.19	9,687.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
9,800.00	0.00	0.00	6,291.19	9,787.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
9,900.00	0.00	0.00	6,391.19	9,887.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
10,000.00	0.00	0.00	6,491.19	9,987.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
10,100.00	0.00	0.00	6,591.19	10,087.09	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	
10,107.95	0.00	0.00	6,599.14	10,095.04	0.00 S	310.30 E	425,147.25	738,693.52	0.00	23.64	Start Build 10.00
10,200.00	9.20	0.64	6,690.79	10,186.69	7.38 N	310.38 E	425,154.63	738,693.60	10.00	31.00	
10,300.00	19.20	0.64	6,787.61	10,283.51	31.88 N	310.66 E	425,179.13	738,693.88	10.00	55.46	
10,400.00	29.20	0.64	6,878.70	10,374.60	72.83 N	311.11 E	425,220.08	738,694.33	10.00	96.32	
10,500.00	39.20	0.64	6,961.30	10,457.20	128.97 N	311.74 E	425,276.22	738,694.96	10.00	152.34	
10,600.00	49.20	0.64	7,032.90	10,528.80	198.60 N	312.52 E	425,345.85	738,695.74	10.00	221.83	
10,700.00	59.20	0.64	7,091.31	10,587.21	279.60 N	313.42 E	425,426.85	738,696.64	10.00	302.67	
10,800.00	69.20	0.64	7,134.77	10,630.67	369.52 N	314.42 E	425,516.77	738,697.64	10.00	392.40	
10,900.00	79.20	0.64	7,161.96	10,657.86	465.61 N	315.50 E	425,612.86	738,698.71	10.00	488.30	
11,000.00	89.20	0.64	7,172.04	10,667.94	564.97 N	316.60 E	425,712.22	738,699.82	10.00	587.45	
11,007.95	90.00	0.64	7,172.10	10,668.00	572.92 N	316.69 E	425,720.17	738,699.91	10.00	595.38	Start 4'182.77' hold at 11007.95' MD
11,100.00	90.00	0.64	7,172.10	10,668.00	664.96 N	317.72 E	425,812.21	738,700.94	0.00	687.24	
11,200.00	90.00	0.64	7,172.10	10,668.00	764.96 N	318.83 E	425,912.21	738,702.05	0.00	787.02	
11,300.00	90.00	0.64	7,172.10	10,668.00	864.95 N	319.95 E	426,012.20	738,703.17	0.00	886.81	
11,400.00	90.00	0.64	7,172.10	10,668.00	964.94 N	321.06 E	426,112.19	738,704.28	0.00	986.60	
11,500.00	90.00	0.64	7,172.10	10,668.00	1,064.94 N	322.18 E	426,212.19	738,705.40	0.00	1,086.39	
11,600.00	90.00	0.64	7,172.10	10,668.00	1,164.93 N	323.29 E	426,312.18	738,706.51	0.00	1,186.18	
11,700.00	90.00	0.64	7,172.10	10,668.00	1,264.93 N	324.41 E	426,412.17	738,707.63	0.00	1,285.96	
11,800.00	90.00	0.64	7,172.10	10,668.00	1,364.92 N	325.53 E	426,512.17	738,708.74	0.00	1,385.75	

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Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (ft)	Comments
					Northing (ft)	Easting (ft)	Northing (usft)	Easting (usft)			
11,900.00	90.00	0.64	7,172.10	10,668.00	1,464.91 N	326.64 E	426,612.16	738,709.86	0.00	1,485.54	
12,000.00	90.00	0.64	7,172.10	10,668.00	1,564.91 N	327.76 E	426,712.15	738,710.98	0.00	1,585.33	
12,100.00	90.00	0.64	7,172.10	10,668.00	1,664.90 N	328.87 E	426,812.15	738,712.09	0.00	1,685.12	
12,200.00	90.00	0.64	7,172.10	10,668.00	1,764.89 N	329.99 E	426,912.14	738,713.21	0.00	1,784.90	
12,300.00	90.00	0.64	7,172.10	10,668.00	1,864.89 N	331.10 E	427,012.13	738,714.32	0.00	1,884.69	
12,400.00	90.00	0.64	7,172.10	10,668.00	1,964.88 N	332.22 E	427,112.13	738,715.44	0.00	1,984.48	
12,500.00	90.00	0.64	7,172.10	10,668.00	2,064.88 N	333.33 E	427,212.12	738,716.55	0.00	2,084.27	
12,600.00	90.00	0.64	7,172.10	10,668.00	2,164.87 N	334.45 E	427,312.12	738,717.67	0.00	2,184.06	
12,700.00	90.00	0.64	7,172.10	10,668.00	2,264.86 N	335.56 E	427,412.11	738,718.78	0.00	2,283.85	
12,800.00	90.00	0.64	7,172.10	10,668.00	2,364.86 N	336.68 E	427,512.10	738,719.90	0.00	2,383.63	
12,900.00	90.00	0.64	7,172.10	10,668.00	2,464.85 N	337.79 E	427,612.10	738,721.01	0.00	2,483.42	
13,000.00	90.00	0.64	7,172.10	10,668.00	2,564.84 N	338.91 E	427,712.09	738,722.13	0.00	2,583.21	
13,100.00	90.00	0.64	7,172.10	10,668.00	2,664.84 N	340.02 E	427,812.08	738,723.24	0.00	2,683.00	
13,200.00	90.00	0.64	7,172.10	10,668.00	2,764.83 N	341.14 E	427,912.08	738,724.36	0.00	2,782.79	
13,300.00	90.00	0.64	7,172.10	10,668.00	2,864.83 N	342.25 E	428,012.07	738,725.47	0.00	2,882.57	
13,400.00	90.00	0.64	7,172.10	10,668.00	2,964.82 N	343.37 E	428,112.06	738,726.59	0.00	2,982.36	
13,500.00	90.00	0.64	7,172.10	10,668.00	3,064.81 N	344.48 E	428,212.06	738,727.70	0.00	3,082.15	
13,600.00	90.00	0.64	7,172.10	10,668.00	3,164.81 N	345.60 E	428,312.05	738,728.82	0.00	3,181.94	
13,700.00	90.00	0.64	7,172.10	10,668.00	3,264.80 N	346.72 E	428,412.04	738,729.93	0.00	3,281.73	
13,800.00	90.00	0.64	7,172.10	10,668.00	3,364.79 N	347.83 E	428,512.04	738,731.05	0.00	3,381.52	
13,900.00	90.00	0.64	7,172.10	10,668.00	3,464.79 N	348.95 E	428,612.03	738,732.17	0.00	3,481.30	
14,000.00	90.00	0.64	7,172.10	10,668.00	3,564.78 N	350.06 E	428,712.03	738,733.28	0.00	3,581.09	
14,100.00	90.00	0.64	7,172.10	10,668.00	3,664.78 N	351.18 E	428,812.02	738,734.40	0.00	3,680.88	
14,200.00	90.00	0.64	7,172.10	10,668.00	3,764.77 N	352.29 E	428,912.01	738,735.51	0.00	3,780.67	
14,300.00	90.00	0.64	7,172.10	10,668.00	3,864.76 N	353.41 E	429,012.01	738,736.63	0.00	3,880.46	
14,400.00	90.00	0.64	7,172.10	10,668.00	3,964.76 N	354.52 E	429,112.00	738,737.74	0.00	3,980.24	
14,500.00	90.00	0.64	7,172.10	10,668.00	4,064.75 N	355.64 E	429,211.99	738,738.86	0.00	4,080.03	
14,600.00	90.00	0.64	7,172.10	10,668.00	4,164.75 N	356.75 E	429,311.99	738,739.97	0.00	4,179.82	
14,700.00	90.00	0.64	7,172.10	10,668.00	4,264.74 N	357.87 E	429,411.98	738,741.09	0.00	4,279.61	
14,800.00	90.00	0.64	7,172.10	10,668.00	4,364.73 N	358.98 E	429,511.97	738,742.20	0.00	4,379.40	
14,900.00	90.00	0.64	7,172.10	10,668.00	4,464.73 N	360.10 E	429,611.97	738,743.32	0.00	4,479.18	
15,000.00	90.00	0.64	7,172.10	10,668.00	4,564.72 N	361.21 E	429,711.96	738,744.43	0.00	4,578.97	
15,100.00	90.00	0.64	7,172.10	10,668.00	4,664.71 N	362.33 E	429,811.95	738,745.55	0.00	4,678.76	
15,190.72	90.00	0.64	7,172.10	10,668.00	4,755.43 N	363.34 E	429,902.67	738,746.56	0.00	4,769.29	TD at 15190.72-

Plan Report for Chincoteague 32 ST Com 4H - Plan#1 102814 RevA0

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,440.00	4,440.00	0.00	0.00	Start Build 1.00
4,940.00	4,939.37	0.00	21.80	Start 3060.00 hold at 4940.00 MD
8,000.00	7,987.72	0.00	288.50	Start Drop -1.00
8,500.00	8,487.09	0.00	310.30	Start 1607.95 hold at 8500.00 MD
10,107.95	10,095.04	0.00	310.30	Start Build 10.00
11,007.95	10,668.00	572.92	316.69	Start 4182.77 hold at 11007.95 MD
15,190.72	10,668.00	4,755.43	363.34	TD at 15190.72

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	Origin +E/-W (ft)	Start TVD (ft)
TD	No Target (Freehand)	4.37	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	15,190.49	Plan#1 102814 RevA0	MWD

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Chincoteague 32 ST Com 4H BHL ()	0.00	0.00	10,668.00	4,755.43	363.34	429,902.67	738,746.56	32° 10' 48.975 N	103° 41' 42.934 W
- plan hits target center									
- Point									

Directional Difficulty Index

Average Dogleg over Survey:	0.66 °/100usft	Maximum Dogleg over Survey:	10.00 °/100usft at 11,007.95 ft
Net Tortosity applicable to Plans:	0.66 °/100usft	Directional Difficulty Index:	6.079

HALLIBURTON

Devon

Lea County, NM (NAD 83)

Plan Report for Chincoteague 32 ST Com 4H - Plan#1 102814 RevA0

Audit Info

SAP=346244

North Reference Sheet for Sec 32 T. 24 S., R.32E. - Chincoteague 32 ST Com 4H - Wellbore #1

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

Vertical Depths are relative to Well @ 3495.90ft (HP212). Northing and Easting are relative to Chincoteague 32 ST Com 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: 0.99995356

Grid Coordinates of Well: 425,147.25 usft N, 738,383.22 usft E

Geographical Coordinates of Well: 32° 10' 01.94" N, 103° 41' 47.49" W

Grid Convergence at Surface is: 0.34°

Based upon Minimum Curvature type calculations, at a Measured Depth of 15,190.72ft

the Bottom Hole Displacement is 4,769.29ft in the Direction of 4.37° (Grid).

Magnetic Convergence at surface is: -7.05° (28 October 2014, , BGGM2014)

