

Endurance Resources, LLC

HALLIBURTON

Sperry Drilling Services

Project: Lea County, NM (NAD 83)

Site: Duo Sonic 29 Fed

Well: Duo Sonic 29 Fed 501H

Wellbore: Wellbore #1

Design: Plan #1

Rig: TBD



ENDURANCE
RESOURCES, LLC

SURFACE LOCATION

US State Plane 1983

New Mexico Eastern Zone

Elevation: GL 3282.6' + KB 25' @ 3307.60usft (TBD)

Northing 399564.32 Easting 831675.24

Latitude 32° 5' 42.043 N Longitude 103° 23' 44.787 W

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

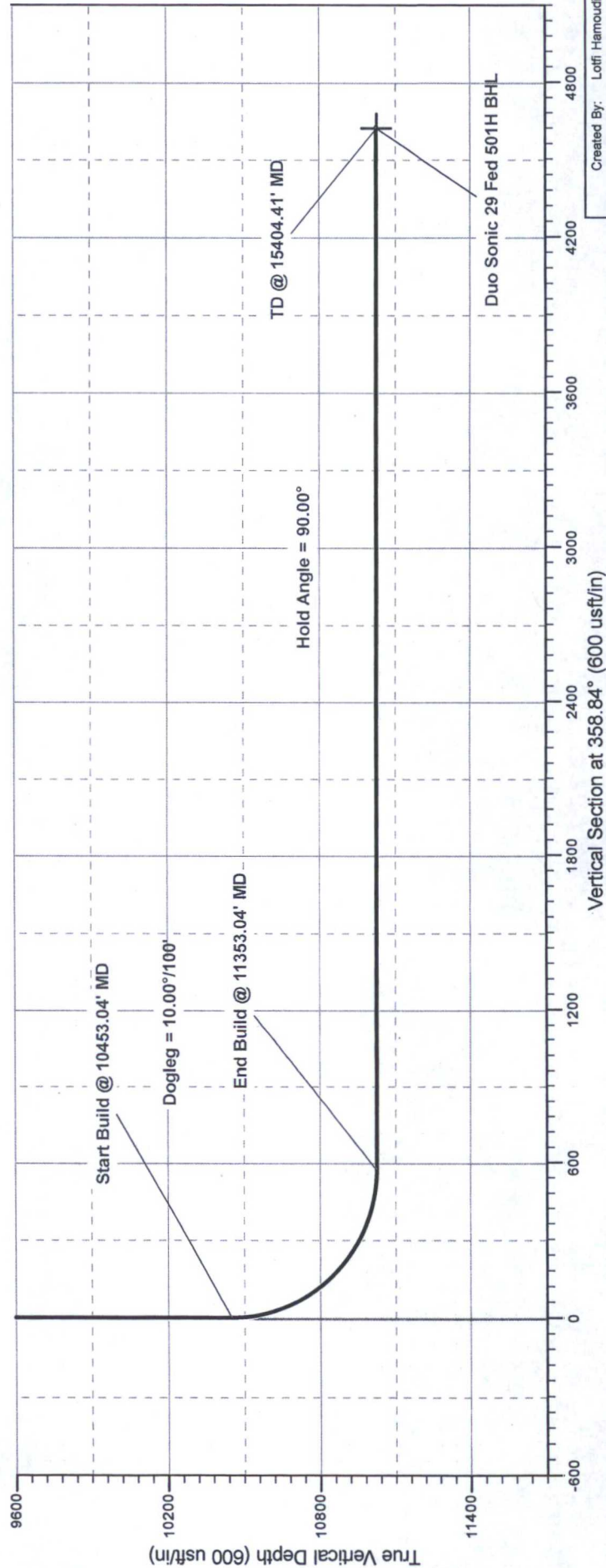
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Duo Sonic 29 Fed 501H BHL	11026.00	4623.37	-93.97	404187.69	831581.27	32° 6' 27.799 N	103° 23' 45.412 W

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	
10453.04	0.00	0.00	10453.04	0.00	0.00	0.00	0.00	0.00	Start Build
11353.04	90.00	358.84	11026.00	572.84	-11.64	10.00	358.84	572.96	End Build
15404.41	90.00	358.84	11026.00	4623.37	-93.97	0.00	0.00	4624.33	TD

To convert a Magnetic Direction to a Grid Direction, Add 6.58°

Magnetic Model: BGGM2015 Date: 15-Mar-16
Azimuths to Grid North



Project: Lea County, NM (NAD 83)

Site: Duo Sonic 29 Fed

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Wellbore: Wellbore #1

Design: Plan #1

Rig: TBD

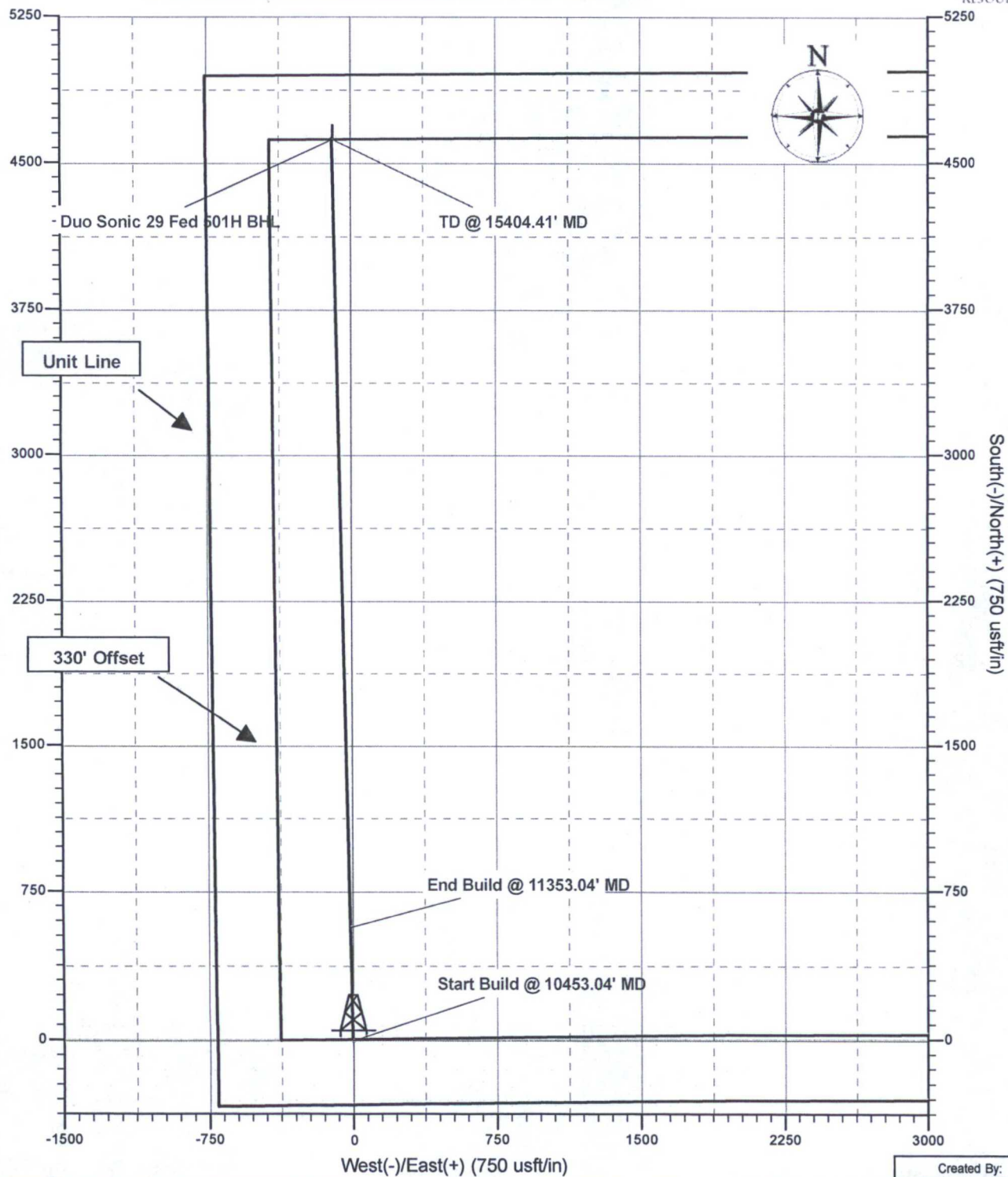
SURFACE LOCATION

US State Plane 1983
New Mexico Eastern Zone
Elevation: GL 3282.6' + KB 25' @ 3307.60usft (TBD)

Northings	Easting	Latitude	Longitude
399564.32	831675.24	32° 5' 42.043 N	103° 23' 44.787 W

To convert a Magnetic Direction to a Grid Direction, Add 6.58°

Magnetic Model: BGGM2015 Date: 15-Mar-16
Azimuths to Grid North



Endurance Resources, LLC

Lea County, NM (NAD 83)

Duo Sonic 29 Fed

Duo Sonic 29 Fed 501H

Wellbore #1

Plan: Plan #1

Sperry Drilling Services Proposal Report

15 March, 2016

Well Coordinates: 399,564.32 N, 831,675.24 E (32° 05' 42.04" N, 103° 23' 44.79" W)
Ground Level: 3,282.60 usft

Local Coordinate Origin:	Centered on Well Duo Sonic 29 Fed 501H
Viewing Datum:	GL 3282.6' + KB 25' @ 3307.60usft (TBD)
TVDs to System:	N
North Reference:	Grid
Unit System:	API - US Survey Feet

Version: 5000.1 Build: 81B

HALLIBURTON

HALLIBURTON**Plan Report for Duo Sonic 29 Fed 501H - Plan #1**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	Toolface Azimuth (°)
0.00	0.00	0.00	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	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	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	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	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	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	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	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	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	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	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	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	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	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	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	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	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	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	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	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	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	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	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	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	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	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	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	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	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	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	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	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	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	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	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	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	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	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	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	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	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	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	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	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	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	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	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	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	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	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HALLIBURTON**Plan Report for Duo Sonic 29 Fed 501H - Plan #1**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	Toolface Azimuth (°)
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	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	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	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	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	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	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	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	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	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	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	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	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	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	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	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	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	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	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	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	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	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	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	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	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	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	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	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	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	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	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	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	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	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	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	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	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	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	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	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	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	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	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,453.04	0.00	0.00	10,453.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build @ 10453.04' MD - Dogleg = 10.00°/100'										
10,500.00	4.70	358.84	10,499.95	1.92	-0.04	1.92	10.00	10.00	0.00	358.84
10,550.00	9.70	358.84	10,549.54	8.18	-0.17	8.18	10.00	10.00	0.00	0.00
10,600.00	14.70	358.84	10,598.39	18.74	-0.38	18.74	10.00	10.00	0.00	0.00
10,650.00	19.70	358.84	10,646.14	33.51	-0.68	33.52	10.00	10.00	0.00	0.00
10,700.00	24.70	358.84	10,692.42	52.39	-1.06	52.40	10.00	10.00	0.00	0.00
10,750.00	29.70	358.84	10,736.88	75.23	-1.53	75.25	10.00	10.00	0.00	0.00
10,800.00	34.70	358.84	10,779.18	101.86	-2.07	101.88	10.00	10.00	0.00	0.00
10,850.00	39.70	358.84	10,819.00	132.07	-2.68	132.10	10.00	10.00	0.00	0.00
10,900.00	44.70	358.84	10,856.03	165.64	-3.37	165.67	10.00	10.00	0.00	0.00
10,950.00	49.70	358.84	10,889.99	202.30	-4.11	202.34	10.00	10.00	0.00	0.00
11,000.00	54.70	358.84	10,920.63	241.79	-4.91	241.84	10.00	10.00	0.00	0.00

HALLIBURTON**Plan Report for Duo Sonic 29 Fed 501H - Plan #1**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	Toolface Azimuth (°)
11,050.00	59.70	358.84	10,947.71	283.79	-5.77	283.85	10.00	10.00	0.00	0.00
11,100.00	64.70	358.84	10,971.03	327.99	-6.67	328.06	10.00	10.00	0.00	0.00
11,150.00	69.70	358.84	10,990.40	374.06	-7.60	374.14	10.00	10.00	0.00	0.00
11,200.00	74.70	358.84	11,005.68	421.64	-8.57	421.73	10.00	10.00	0.00	0.00
11,250.00	79.70	358.84	11,016.76	470.37	-9.56	470.47	10.00	10.00	0.00	0.00
11,300.00	84.70	358.84	11,023.55	519.88	-10.57	519.99	10.00	10.00	0.00	0.00
11,353.04	90.00	358.84	11,026.00	572.84	-11.64	572.96	10.00	10.00	0.00	0.00
End Build @ 11353.04' MD - Hold Angle = 90.00°										
11,400.00	90.00	358.84	11,026.00	619.79	-12.60	619.92	0.00	0.00	0.00	0.00
11,500.00	90.00	358.84	11,026.00	719.77	-14.63	719.92	0.00	0.00	0.00	0.00
11,600.00	90.00	358.84	11,026.00	819.75	-16.66	819.92	0.00	0.00	0.00	0.00
11,700.00	90.00	358.84	11,026.00	919.73	-18.69	919.92	0.00	0.00	0.00	0.00
11,800.00	90.00	358.84	11,026.00	1,019.70	-20.73	1,019.92	0.00	0.00	0.00	0.00
11,900.00	90.00	358.84	11,026.00	1,119.68	-22.76	1,119.92	0.00	0.00	0.00	0.00
12,000.00	90.00	358.84	11,026.00	1,219.66	-24.79	1,219.92	0.00	0.00	0.00	0.00
12,100.00	90.00	358.84	11,026.00	1,319.64	-26.82	1,319.92	0.00	0.00	0.00	0.00
12,200.00	90.00	358.84	11,026.00	1,419.62	-28.85	1,419.92	0.00	0.00	0.00	0.00
12,300.00	90.00	358.84	11,026.00	1,519.60	-30.89	1,519.92	0.00	0.00	0.00	0.00
12,400.00	90.00	358.84	11,026.00	1,619.58	-32.92	1,619.92	0.00	0.00	0.00	0.00
12,500.00	90.00	358.84	11,026.00	1,719.56	-34.95	1,719.92	0.00	0.00	0.00	0.00
12,600.00	90.00	358.84	11,026.00	1,819.54	-36.98	1,819.92	0.00	0.00	0.00	0.00
12,700.00	90.00	358.84	11,026.00	1,919.52	-39.01	1,919.92	0.00	0.00	0.00	0.00
12,800.00	90.00	358.84	11,026.00	2,019.50	-41.05	2,019.92	0.00	0.00	0.00	0.00
12,900.00	90.00	358.84	11,026.00	2,119.48	-43.08	2,119.92	0.00	0.00	0.00	0.00
13,000.00	90.00	358.84	11,026.00	2,219.46	-45.11	2,219.92	0.00	0.00	0.00	0.00
13,100.00	90.00	358.84	11,026.00	2,319.44	-47.14	2,319.92	0.00	0.00	0.00	0.00
13,200.00	90.00	358.84	11,026.00	2,419.42	-49.17	2,419.92	0.00	0.00	0.00	0.00
13,300.00	90.00	358.84	11,026.00	2,519.40	-51.21	2,519.92	0.00	0.00	0.00	0.00
13,400.00	90.00	358.84	11,026.00	2,619.37	-53.24	2,619.92	0.00	0.00	0.00	0.00
13,500.00	90.00	358.84	11,026.00	2,719.35	-55.27	2,719.92	0.00	0.00	0.00	0.00
13,600.00	90.00	358.84	11,026.00	2,819.33	-57.30	2,819.92	0.00	0.00	0.00	0.00
13,700.00	90.00	358.84	11,026.00	2,919.31	-59.33	2,919.92	0.00	0.00	0.00	0.00
13,800.00	90.00	358.84	11,026.00	3,019.29	-61.37	3,019.92	0.00	0.00	0.00	0.00
13,900.00	90.00	358.84	11,026.00	3,119.27	-63.40	3,119.92	0.00	0.00	0.00	0.00
14,000.00	90.00	358.84	11,026.00	3,219.25	-65.43	3,219.92	0.00	0.00	0.00	0.00
14,100.00	90.00	358.84	11,026.00	3,319.23	-67.46	3,319.92	0.00	0.00	0.00	0.00
14,200.00	90.00	358.84	11,026.00	3,419.21	-69.50	3,419.92	0.00	0.00	0.00	0.00
14,300.00	90.00	358.84	11,026.00	3,519.19	-71.53	3,519.92	0.00	0.00	0.00	0.00
14,400.00	90.00	358.84	11,026.00	3,619.17	-73.56	3,619.92	0.00	0.00	0.00	0.00
14,500.00	90.00	358.84	11,026.00	3,719.15	-75.59	3,719.92	0.00	0.00	0.00	0.00
14,600.00	90.00	358.84	11,026.00	3,819.13	-77.62	3,819.92	0.00	0.00	0.00	0.00
14,700.00	90.00	358.84	11,026.00	3,919.11	-79.66	3,919.92	0.00	0.00	0.00	0.00
14,800.00	90.00	358.84	11,026.00	4,019.09	-81.69	4,019.92	0.00	0.00	0.00	0.00
14,900.00	90.00	358.84	11,026.00	4,119.06	-83.72	4,119.92	0.00	0.00	0.00	0.00
15,000.00	90.00	358.84	11,026.00	4,219.04	-85.75	4,219.92	0.00	0.00	0.00	0.00
15,100.00	90.00	358.84	11,026.00	4,319.02	-87.78	4,319.92	0.00	0.00	0.00	0.00
15,200.00	90.00	358.84	11,026.00	4,419.00	-89.82	4,419.92	0.00	0.00	0.00	0.00
15,300.00	90.00	358.84	11,026.00	4,518.98	-91.85	4,519.92	0.00	0.00	0.00	0.00
15,404.41	90.00	358.84	11,026.00	4,623.37	-93.97	4,624.33	0.00	0.00	0.00	0.00

TD @ 15404.41' MD - Duo Sonic 29 Fed 501H BHL

HALLIBURTON**Plan Report for Duo Sonic 29 Fed 501H - Plan #1****Plan Annotations**

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,453.04	10,453.04	0.00	0.00	Start Build @ 10453.04' MD
10,453.04	10,453.04	0.00	0.00	Dogleg = 10.00°/100'
11,353.04	11,026.00	572.84	-11.64	End Build @ 11353.04' MD
11,353.04	11,026.00	572.84	-11.64	Hold Angle = 90.00°
15,404.41	11,026.00	4,623.37	-93.97	TD @ 15404.41' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (usft)
				+N/-S (usft)	+E/-W (usft)	
TD	No Target (Freehand)	358.84	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Plan #1	Survey/Plan	Survey Tool
0.00	15,404.41			MWD

Targets associated with this wellbore

Target Name	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Shape
Duo Sonic 29 Fed 501H BHL	11,026.00	4,623.37	-93.97	Point

HALLIBURTON**North Reference Sheet for Duo Sonic 29 Fed - Duo Sonic 29 Fed 501H - 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 GL 3282.6' + KB 25' @ 3307.60usft (TBD). Northing and Easting are relative to Duo Sonic 29 Fed 501H 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 -104.33°, 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: 1.00000564

Grid Coordinates of Well: 399,564.32 usft N, 831,675.24 usft E

Geographical Coordinates of Well: 32° 05' 42.04" N, 103° 23' 44.79" W

Grid Convergence at Surface is: 0.50°

Based upon Minimum Curvature type calculations, at a Measured Depth of 15,404.41usft the Bottom Hole Displacement is 4,624.33usft in the Direction of 358.84° (Grid).

Magnetic Convergence at surface is: -6.58° (15 March 2016, , BGGM2015)

