

Endurance Resources LLC

HALLIBURTON

Sperry Drilling Services

Project: Lea County, NM (NAD 83)
Site: Duo Sonic 29 Fed
Well: Duo Sonic 29 Fed 3H
Wellbore: Wellbore #1
Design: Plan #3
Rig: TBD

SURFACE LOCATION

US State Plane 1983
 New Mexico Eastern Zone
 Elevation: GL 3253.5' @ 3253.50usft (TBD)
 Northing 399407.51 Easting 834271.55 Latitude 32° 5' 40.267 N Longitude 103° 23' 14.624 W

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

Magnetic Model: BGGM2015 Date: 09-Mar-16
 Azimuths to Grid North

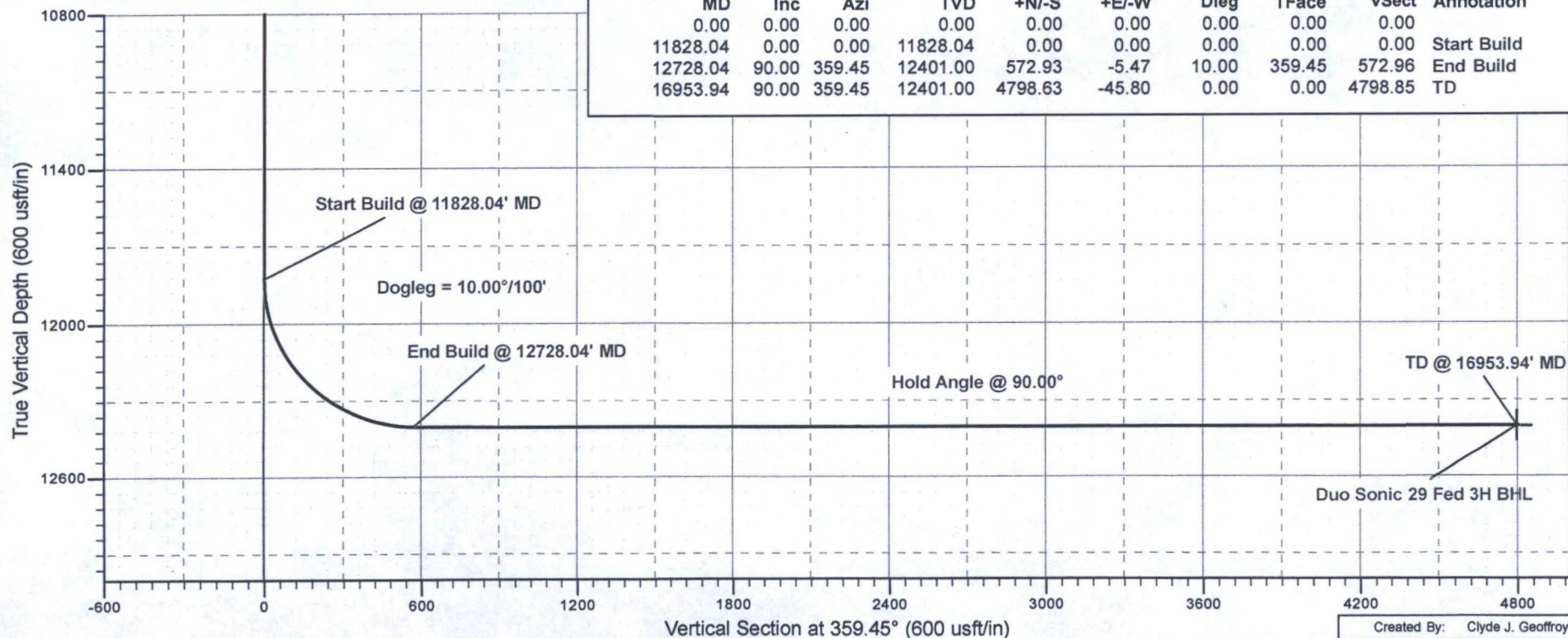


WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Duo Sonic 29 Fed 3H BHL	12401.00	4798.63	-45.80	404206.14	834225.75	32° 6' 27.753 N	103° 23' 14.667 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	
11828.04	0.00	0.00	11828.04	0.00	0.00	0.00	0.00	0.00	Start Build
12728.04	90.00	359.45	12401.00	572.93	-5.47	10.00	359.45	572.96	End Build
16953.94	90.00	359.45	12401.00	4798.63	-45.80	0.00	0.00	4798.85	TD



Created By: Clyde J. Geoffroy

Project: Lea County, NM (NAD 83)

Site: Duo Sonic 29 Fed

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Wellbore: Wellbore #1

Plan #3

Rig: TBD

SURFACE LOCATION

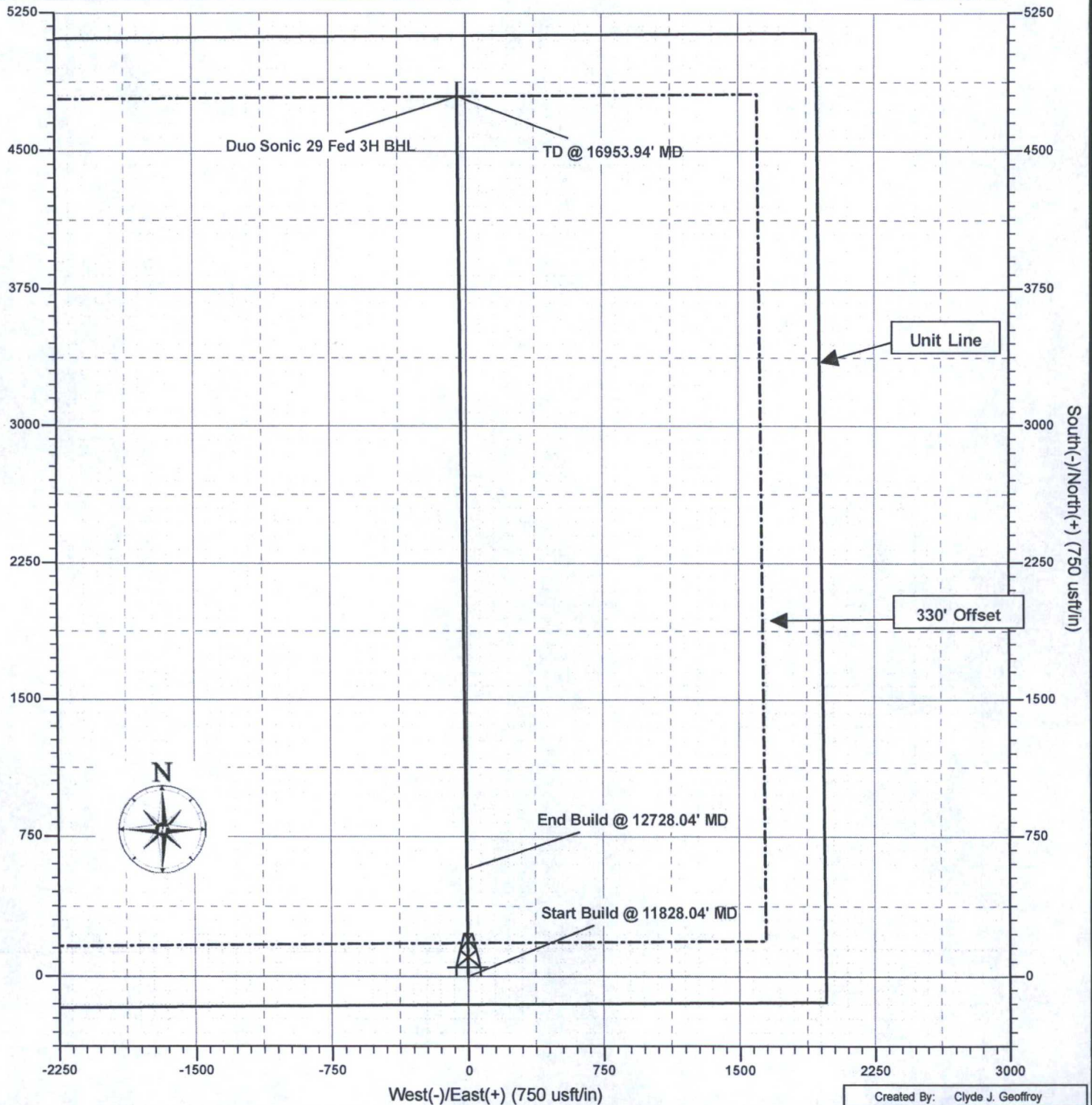
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New Mexico Eastern Zone
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834271.55Latitude
32° 5' 40.267 NLongitude
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Magnetic Model: BGGM2015

Date: 09-Mar-16

Azimuths to Grid North

ENDURANCE
RESOURCES, LLC

Endurance Resources LLC

Lea County, NM (NAD 83)

Duo Sonic 29 Fed

Duo Sonic 29 Fed 3H

HOBBS OCD

Wellbore #1

OCT 03 2016

RECEIVED

Plan: Plan #3

Sperry Drilling Services Proposal Report

09 March, 2016

Well Coordinates: 399,407.51 N, 834,271.55 E (32° 05' 40.27" N, 103° 23' 14.62" W)
Ground Level: 3,253.50 usft

Local Coordinate Origin:	Centered on Well Duo Sonic 29 Fed 3H
Viewing Datum:	GL 3253.5' @ 3253.50usft (TBD)
TVDs to System:	N
North Reference:	Grid
Unit System:	API - US Survey Feet

Version: 5000.1 Build: 76

HALLIBURTON

HALLIBURTON**Plan Report for Duo Sonic 29 Fed 3H - Plan #3**

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
11,828.04	0.00	0.00	11,828.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build @ 11828.04' MD - Dogleg = 10.00°/100'										
11,900.00	7.20	359.45	11,899.81	4.51	-0.04	4.51	10.00	10.00	0.00	359.45
12,000.00	17.20	359.45	11,997.43	25.61	-0.24	25.61	10.00	10.00	0.00	0.00
12,100.00	27.20	359.45	12,089.90	63.34	-0.60	63.34	10.00	10.00	0.00	0.00
12,200.00	37.20	359.45	12,174.42	116.55	-1.11	116.55	10.00	10.00	0.00	0.00
12,300.00	47.20	359.45	12,248.41	183.63	-1.75	183.64	10.00	10.00	0.00	0.00
12,400.00	57.20	359.45	12,309.63	262.53	-2.51	262.55	10.00	10.00	0.00	0.00
12,500.00	67.20	359.45	12,356.21	350.87	-3.35	350.89	10.00	10.00	0.00	0.00
12,600.00	77.20	359.45	12,386.75	445.96	-4.26	445.98	10.00	10.00	0.00	0.00
12,700.00	87.20	359.45	12,400.31	544.90	-5.20	544.93	10.00	10.00	0.00	0.00
12,728.04	90.00	359.45	12,401.00	572.93	-5.47	572.96	10.00	10.00	0.00	0.00
End Build @ 12728.04' MD - Hold Angle @ 90.00°										
12,800.00	90.00	359.45	12,401.00	644.89	-6.16	644.92	0.00	0.00	0.00	0.00
12,900.00	90.00	359.45	12,401.00	744.88	-7.11	744.92	0.00	0.00	0.00	0.00
13,000.00	90.00	359.45	12,401.00	844.88	-8.06	844.92	0.00	0.00	0.00	0.00
13,100.00	90.00	359.45	12,401.00	944.87	-9.02	944.92	0.00	0.00	0.00	0.00
13,200.00	90.00	359.45	12,401.00	1,044.87	-9.97	1,044.92	0.00	0.00	0.00	0.00
13,300.00	90.00	359.45	12,401.00	1,144.86	-10.93	1,144.92	0.00	0.00	0.00	0.00
13,400.00	90.00	359.45	12,401.00	1,244.86	-11.88	1,244.92	0.00	0.00	0.00	0.00
13,500.00	90.00	359.45	12,401.00	1,344.85	-12.84	1,344.92	0.00	0.00	0.00	0.00
13,600.00	90.00	359.45	12,401.00	1,444.85	-13.79	1,444.92	0.00	0.00	0.00	0.00
13,700.00	90.00	359.45	12,401.00	1,544.85	-14.75	1,544.92	0.00	0.00	0.00	0.00
13,800.00	90.00	359.45	12,401.00	1,644.84	-15.70	1,644.92	0.00	0.00	0.00	0.00
13,900.00	90.00	359.45	12,401.00	1,744.84	-16.65	1,744.92	0.00	0.00	0.00	0.00
14,000.00	90.00	359.45	12,401.00	1,844.83	-17.61	1,844.92	0.00	0.00	0.00	0.00
14,100.00	90.00	359.45	12,401.00	1,944.83	-18.56	1,944.92	0.00	0.00	0.00	0.00
14,200.00	90.00	359.45	12,401.00	2,044.82	-19.52	2,044.92	0.00	0.00	0.00	0.00
14,300.00	90.00	359.45	12,401.00	2,144.82	-20.47	2,144.92	0.00	0.00	0.00	0.00
14,400.00	90.00	359.45	12,401.00	2,244.81	-21.43	2,244.92	0.00	0.00	0.00	0.00
14,500.00	90.00	359.45	12,401.00	2,344.81	-22.38	2,344.92	0.00	0.00	0.00	0.00
14,600.00	90.00	359.45	12,401.00	2,444.80	-23.34	2,444.92	0.00	0.00	0.00	0.00
14,700.00	90.00	359.45	12,401.00	2,544.80	-24.29	2,544.92	0.00	0.00	0.00	0.00
14,800.00	90.00	359.45	12,401.00	2,644.80	-25.24	2,644.92	0.00	0.00	0.00	0.00
14,900.00	90.00	359.45	12,401.00	2,744.79	-26.20	2,744.92	0.00	0.00	0.00	0.00
15,000.00	90.00	359.45	12,401.00	2,844.79	-27.15	2,844.92	0.00	0.00	0.00	0.00
15,100.00	90.00	359.45	12,401.00	2,944.78	-28.11	2,944.92	0.00	0.00	0.00	0.00
15,200.00	90.00	359.45	12,401.00	3,044.78	-29.06	3,044.92	0.00	0.00	0.00	0.00
15,300.00	90.00	359.45	12,401.00	3,144.77	-30.02	3,144.92	0.00	0.00	0.00	0.00
15,400.00	90.00	359.45	12,401.00	3,244.77	-30.97	3,244.92	0.00	0.00	0.00	0.00
15,500.00	90.00	359.45	12,401.00	3,344.76	-31.93	3,344.92	0.00	0.00	0.00	0.00
15,600.00	90.00	359.45	12,401.00	3,444.76	-32.88	3,444.92	0.00	0.00	0.00	0.00
15,700.00	90.00	359.45	12,401.00	3,544.75	-33.84	3,544.92	0.00	0.00	0.00	0.00
15,800.00	90.00	359.45	12,401.00	3,644.75	-34.79	3,644.92	0.00	0.00	0.00	0.00
15,900.00	90.00	359.45	12,401.00	3,744.75	-35.74	3,744.92	0.00	0.00	0.00	0.00
16,000.00	90.00	359.45	12,401.00	3,844.74	-36.70	3,844.92	0.00	0.00	0.00	0.00
16,100.00	90.00	359.45	12,401.00	3,944.74	-37.65	3,944.92	0.00	0.00	0.00	0.00
16,200.00	90.00	359.45	12,401.00	4,044.73	-38.61	4,044.92	0.00	0.00	0.00	0.00
16,300.00	90.00	359.45	12,401.00	4,144.73	-39.56	4,144.92	0.00	0.00	0.00	0.00
16,400.00	90.00	359.45	12,401.00	4,244.72	-40.52	4,244.92	0.00	0.00	0.00	0.00
16,500.00	90.00	359.45	12,401.00	4,344.72	-41.47	4,344.92	0.00	0.00	0.00	0.00
16,600.00	90.00	359.45	12,401.00	4,444.71	-42.43	4,444.92	0.00	0.00	0.00	0.00
16,700.00	90.00	359.45	12,401.00	4,544.71	-43.38	4,544.92	0.00	0.00	0.00	0.00
16,800.00	90.00	359.45	12,401.00	4,644.70	-44.33	4,644.92	0.00	0.00	0.00	0.00
16,900.00	90.00	359.45	12,401.00	4,744.70	-45.29	4,744.92	0.00	0.00	0.00	0.00
16,953.94	90.00	359.45	12,401.00	4,798.63	-45.80	4,798.85	0.00	0.00	0.00	0.00
TD @ 16953.94' MD - Duo Sonic 29 Fed 3H BHL										

HALLIBURTON**Plan Report for Duo Sonic 29 Fed 3H - Plan #3****Plan Annotations**

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,828.04	11,828.04	0.00	0.00	Start Build @ 11828.04' MD
11,828.04	11,828.04	0.00	0.00	Dogleg = 10.00°/100'
12,728.04	12,401.00	572.93	-5.47	End Build @ 12728.04' MD
12,728.04	12,401.00	572.93	-5.47	Hold Angle @ 90.00°
16,953.94	12,401.00	4,798.63	-45.80	TD @ 16953.94' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (usft)
				+N/-S (usft)	+E/-W (usft)	
TD	No Target (Freehand)	359.45	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	16,953.94	Plan #3	MWD+SC

Targets associated with this wellbore

Target Name	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Shape
Duo Sonic 29 Fed 3H BHL	12,401.00	4,798.63	-45.80	Point

HALLIBURTON**North Reference Sheet for Duo Sonic 29 Fed - Duo Sonic 29 Fed 3H - 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 3253.5' @ 3253.50usft (TBD). Northing and Easting are relative to Duo Sonic 29 Fed 3H

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: 1.00000737

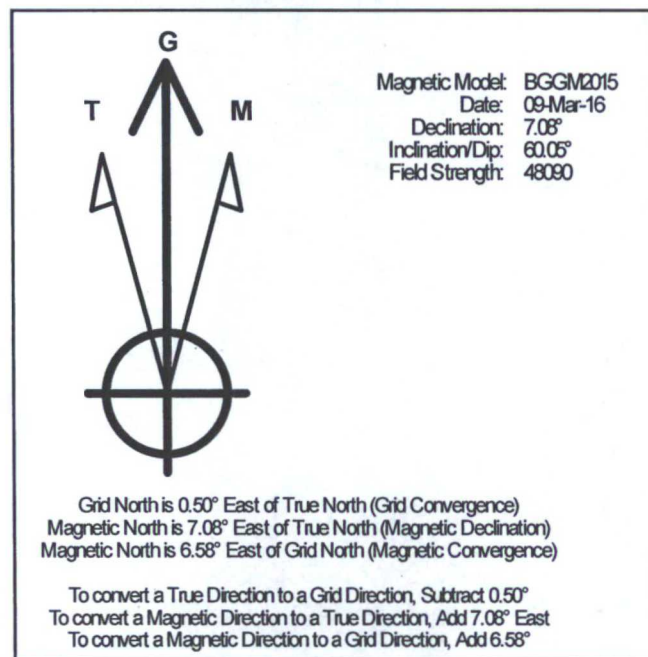
Grid Coordinates of Well: 399,407.51 usft N, 834,271.55 usft E

Geographical Coordinates of Well: 32° 05' 40.27" N, 103° 23' 14.62" W

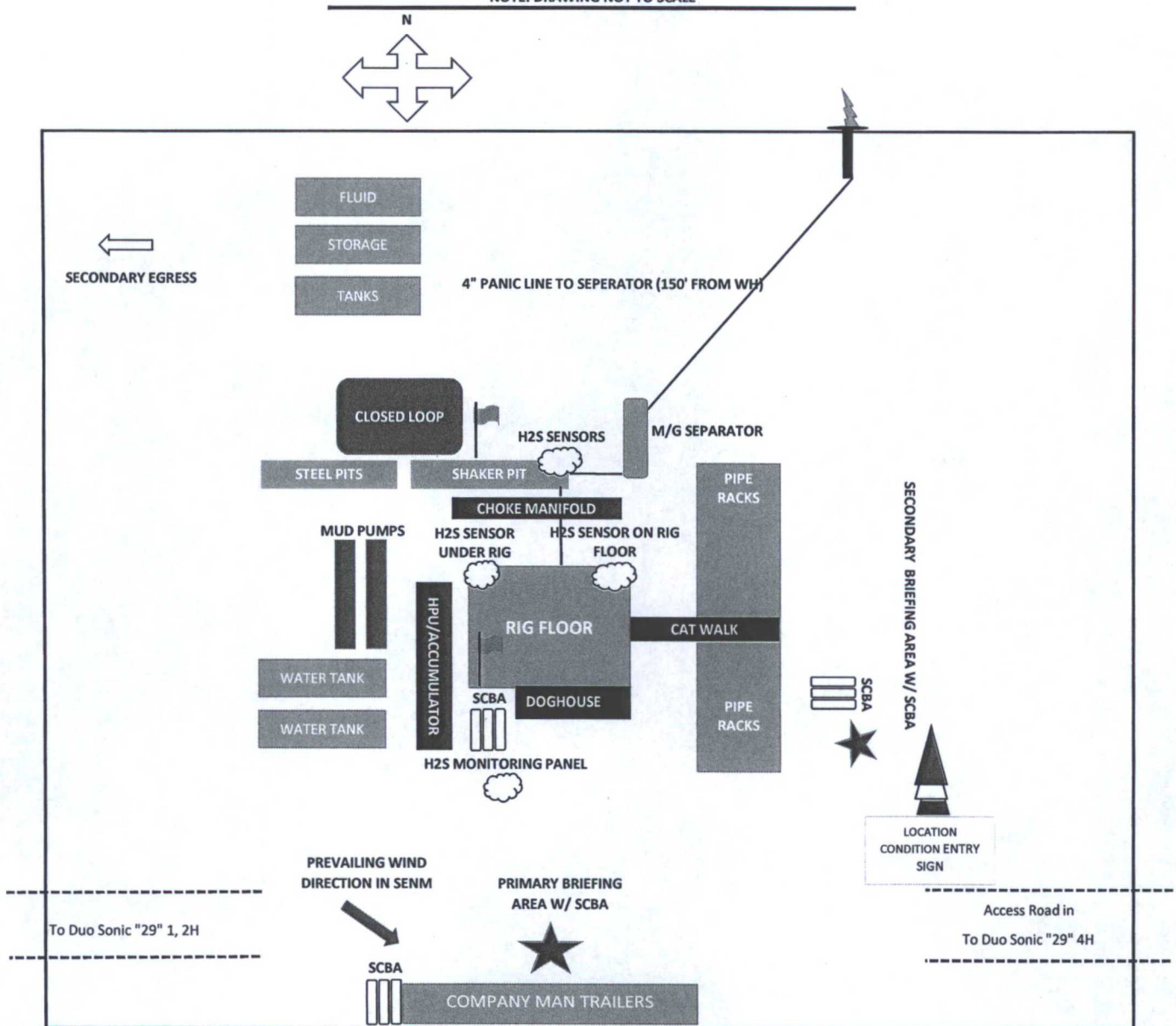
Grid Convergence at Surface is: 0.50°

Based upon Minimum Curvature type calculations, at a Measured Depth of 16,953.94usft
the Bottom Hole Displacement is 4,798.85usft in the Direction of 359.45° (Grid).

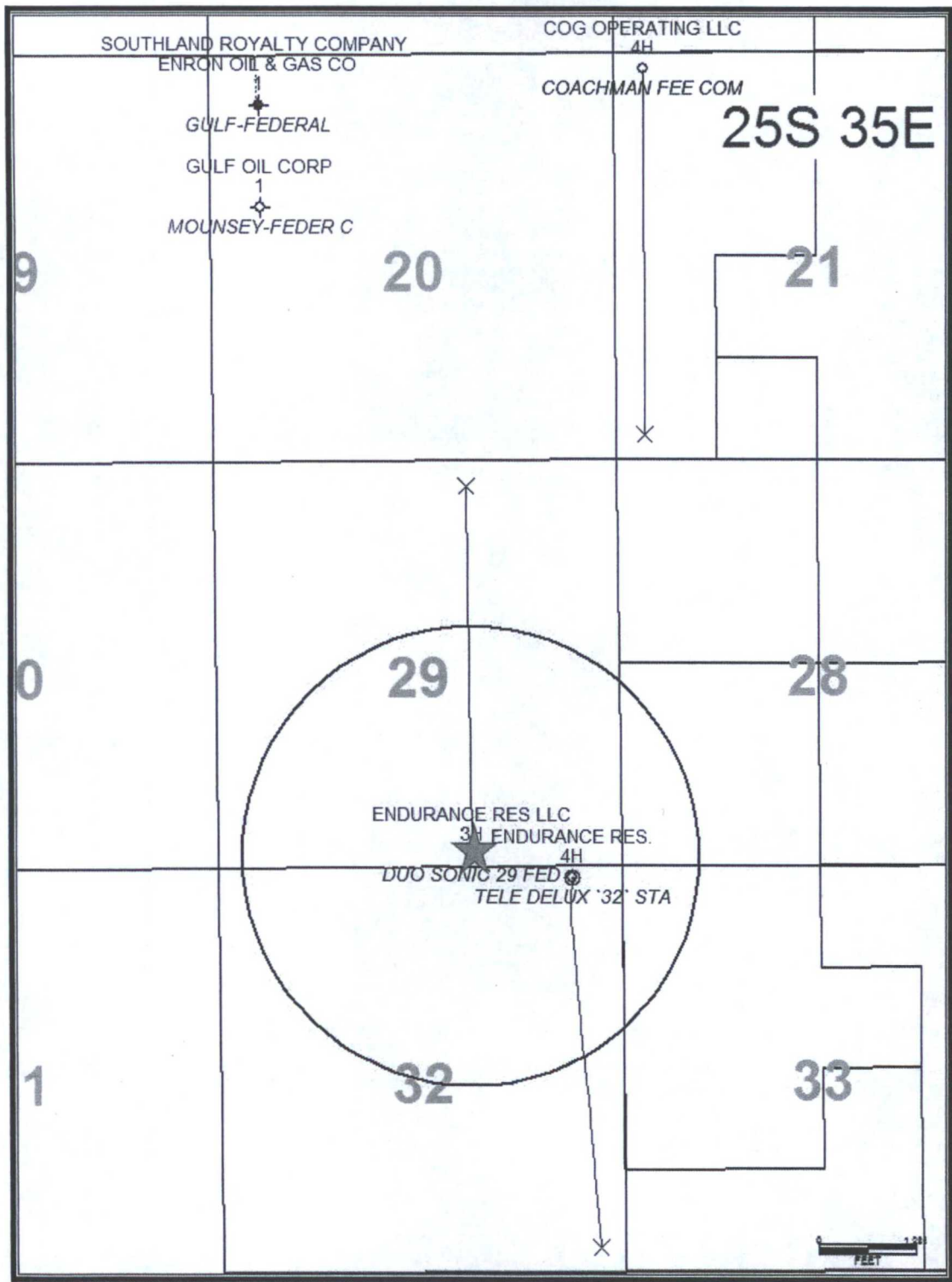
Magnetic Convergence at surface is: -6.58° (9 March 2016, , BGGM2015)



ENDURANCE RESOURCES LLC
RIG LOCATION LAYOUT & H2S SAFETY EQUIPMENT LOCATION
WELL PADS 350 X 475'
NOTE: DRAWING NOT TO SCALE



Duo Sonic 29 Federal 3H
3000' H2S Radius Map



Surface Location

H2S 3000' Radius