



Verdad Resources

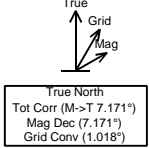
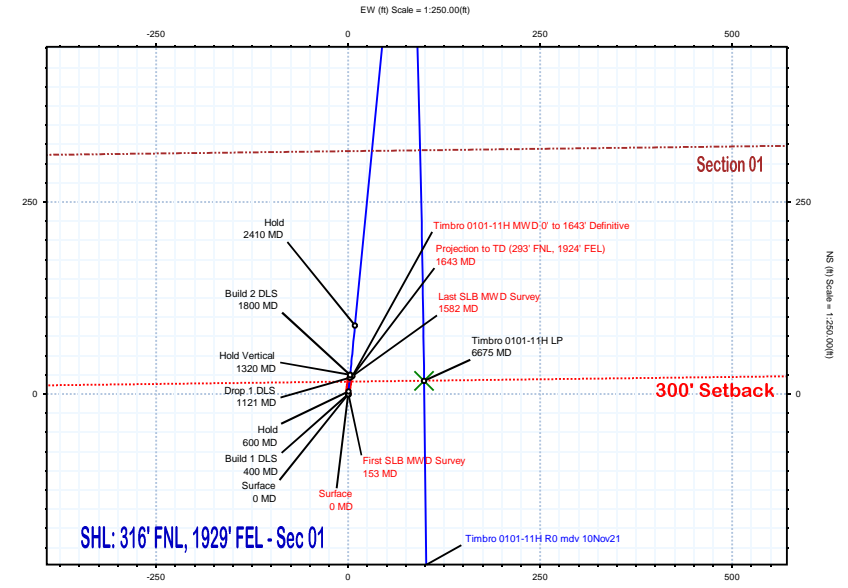
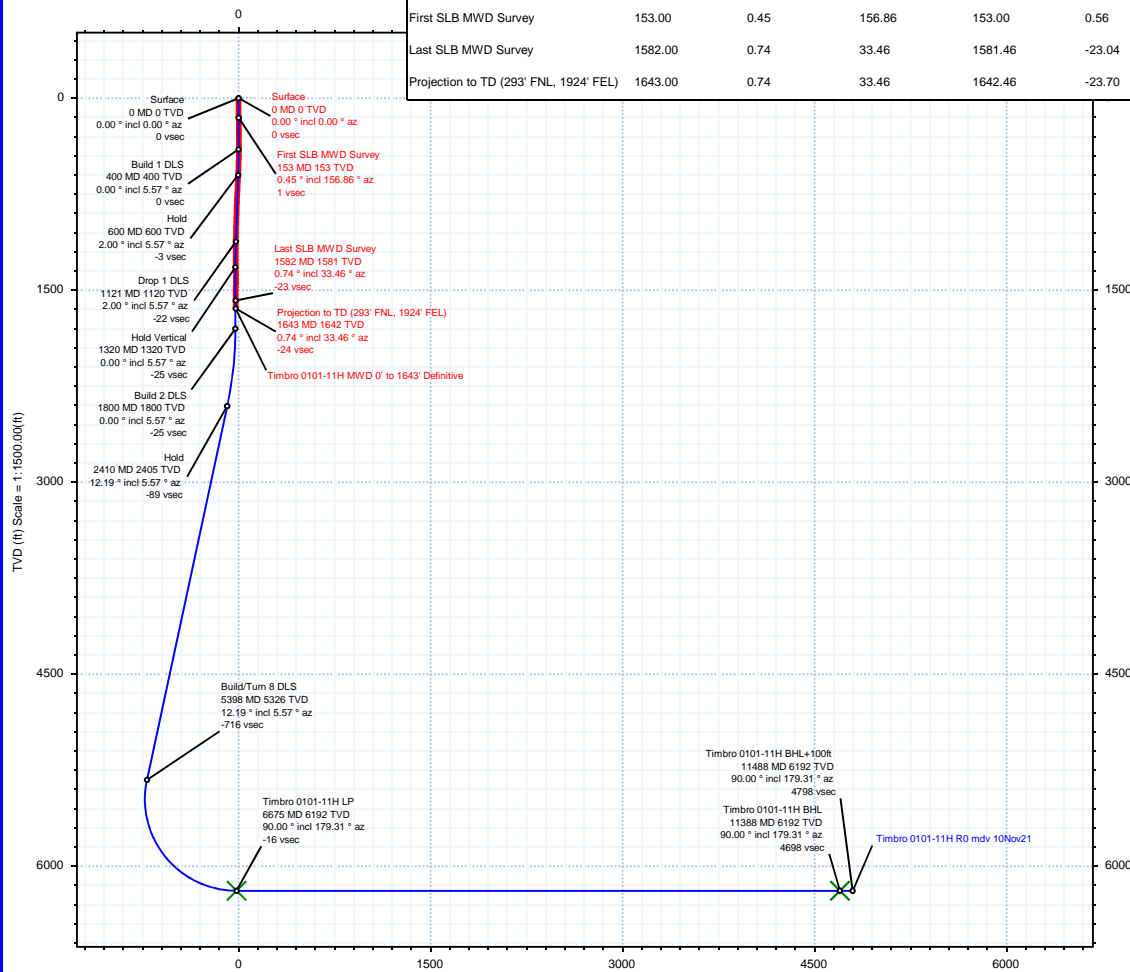


Borehole:	Timbro 0101-11H	Well:	Timbro 0101-11H	Field:	CO, Weld County (NAD 83 NZ) - 2019	Structure:	Verdad Resources 01-09N-59W (Timbro 0101 Pad)
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Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	HDGM 2021	Dip:	66.968°	Date:	29-Nov-2021	Lat:	N 40 47 11.74	Northings:	1533278.959	Grid Conv:	1.0181°
MagDec:	7.171°	FS:	52273.909NT	Gravity FS:	999.085mgn (9.80665 Based)	Lon:	W 103 55 27.43	Easting:	3436326.648US	Scale Fact:	1.00000053
								Slot:	Timbro 0101-11H	TVD Ref:	RKB = 4ft(4943ft above MSL)
								Plan:	Timbro 0101-11H MWD 0' to 1643' Definitive		

Target Description		Latitude	Longitude	Northings	Easting	TVD	VSec	N(+)/S(-)	E(+)/W(-)
Timbro 0101 Pad - Sec 01		N 40 47 14.47	W 103 56 10.13	1533497.54	3433038.34	4943.00	-316.50	276.97	-3283.90
Timbro 0101 Pad - Sec 01 - 300' SB		N 40 47 11.54	W 103 56 6.11	1533206.69	3433352.05	4943.00	-16.42	-19.41	-2975.41
Timbro 0101-11H LP		N 40 47 11.91	W 103 55 26.15	1533297.91	3436424.99	6192.00	-16.01	17.20	98.67
Timbro 0101-11H BHL		N 40 46 25.33	W 103 55 25.42	1528586.11	3436565.26	6192.00	4697.89	-4696.36	155.19

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
First SLB MWD Survey	153.00	0.45	156.86	153.00	0.56	-0.55	0.24	0.29
Last SLB MWD Survey	1582.00	0.74	33.46	1581.46	-23.04	23.11	4.91	1.79
Projection to TD (293' FNL, 1924' FEL)	1643.00	0.74	33.46	1642.46	-23.70	23.76	5.35	0.00



Timbro 0101-11H MWD 0' to 1643' Definitive Survey Geodetic Report

(Def Survey)

Report Date: January 18, 2023 - 02:14 PM
Client: Verdad Resources
Field: CO, Weld County (NAD 83 NZ) - 2019
Structure / Slot: Verdad Resources 01-09N-59W (Timbro 0101 Pad) / Timbro 0101-11H
Well: Timbro 0101-11H
Borehole: Timbro 0101-11H
UWI / API#: Unknown / 05-123-51085
Survey Name: Timbro 0101-11H MWD 0' to 1643' Definitive
Survey Date: November 29, 2021
Tort / AHD / DDI / ERD Ratio: 17.043 ° / 34.613 ft / 2.771 / 0.021
Coordinate Reference System: NAD83 Colorado State Plane, Northern Zone, US Feet
Location Lat / Long: N 40° 47' 11.73624", W 103° 55' 27.43428"
Location Grid N/E Y/X: N 1533278.959 ftUS, E 3436326.645 ftUS
CRS Grid Convergence Angle: 1.0181 °
Grid Scale Factor: 1.00000053
Version / Patch: 2.10.834.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.310 ° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB = 4ft
TVD Reference Elevation: 4943.000 ft above MSL
Seabed / Ground Elevation: 4939.000 ft above MSL
Magnetic Declination: 7.171 °
Total Gravity Field Strength: 999.0845mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 52273.909 nT
Magnetic Dip Angle: 66.968 °
Declination Date: November 29, 2021
Magnetic Declination Model: HDGM 2021
North Reference: True North
Grid Convergence Used: 0.0000 °
Total Corr Mag North→True North: 7.1707 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	1533278.96	3436326.65	40.786593	-103.924287
First SLB MWD Survey	153.00	0.45	156.86	153.00	0.56	-0.55	0.24	0.29	1533278.41	3436326.89	40.786592	-103.924286
	181.00	0.50	159.63	181.00	0.77	-0.77	0.32	0.20	1533278.20	3436326.98	40.786591	-103.924286
	211.00	0.72	127.57	211.00	1.01	-1.01	0.52	1.33	1533277.96	3436327.18	40.786591	-103.924285
	241.00	0.80	115.40	240.99	1.22	-1.21	0.86	0.60	1533277.76	3436327.52	40.786590	-103.924284
	270.00	0.27	164.12	269.99	1.38	-1.36	1.06	2.26	1533277.61	3436327.73	40.786590	-103.924283
	299.00	0.55	158.38	298.99	1.57	-1.56	1.13	0.97	1533277.42	3436327.80	40.786589	-103.924283
	329.00	0.57	154.65	328.99	1.84	-1.83	1.24	0.14	1533277.15	3436327.92	40.786588	-103.924283
	359.00	0.11	146.28	358.99	2.00	-1.99	1.32	1.54	1533277.00	3436328.00	40.786588	-103.924283
	389.00	0.32	15.97	388.99	1.95	-1.93	1.36	1.33	1533277.05	3436328.04	40.786588	-103.924282
	419.00	0.46	7.71	418.99	1.75	-1.73	1.40	0.50	1533277.25	3436328.08	40.786589	-103.924282
	449.00	1.22	340.34	448.98	1.32	-1.31	1.31	2.80	1533277.67	3436327.98	40.786590	-103.924283
	479.00	1.41	331.23	478.98	0.70	-0.68	1.03	0.94	1533278.29	3436327.68	40.786592	-103.924284
	509.00	1.63	338.70	508.97	-0.03	0.04	0.69	0.99	1533279.01	3436327.34	40.786593	-103.924285
	539.00	1.86	338.55	538.95	-0.88	0.89	0.36	0.77	1533279.85	3436326.99	40.786596	-103.924286
	569.00	2.43	352.74	568.93	-1.97	1.97	0.10	2.58	1533280.93	3436326.71	40.786599	-103.924287
	599.00	2.70	355.45	598.90	-3.31	3.31	-0.03	0.99	1533282.26	3436326.55	40.786602	-103.924287
	629.00	3.17	2.94	628.86	-4.84	4.84	-0.05	2.02	1533283.80	3436326.51	40.786607	-103.924287
	659.00	2.89	1.73	658.82	-6.42	6.42	0.02	0.96	1533285.38	3436326.55	40.786611	-103.924287
	689.00	2.72	3.68	688.78	-7.89	7.89	0.09	0.65	1533286.85	3436326.59	40.786615	-103.924287
	719.00	2.72	5.33	718.75	-9.31	9.31	0.20	0.26	1533288.27	3436326.68	40.786619	-103.924287
	749.00	2.56	13.66	748.72	-10.66	10.67	0.42	1.38	1533289.63	3436326.88	40.786623	-103.924286
	779.00	2.67	14.57	778.69	-11.99	12.00	0.76	0.39	1533290.97	3436327.19	40.786626	-103.924285
	809.00	2.43	10.56	808.66	-13.28	13.30	1.05	1.00	1533292.27	3436327.46	40.786630	-103.924284
	839.00	2.04	6.71	838.63	-14.44	14.45	1.23	1.39	1533293.43	3436327.61	40.786633	-103.924283
	869.00	1.87	354.03	868.62	-15.45	15.47	1.24	1.55	1533294.45	3436327.61	40.786636	-103.924283
	899.00	1.73	352.38	898.60	-16.39	16.41	1.13	0.50	1533295.38	3436327.48	40.786638	-103.924283
	929.00	1.62	1.11	928.59	-17.26	17.28	1.08	0.93	1533296.25	3436327.41	40.786641	-103.924283
	959.00	1.83	16.88	958.56	-19.03	19.04	1.37	0.86	1533298.02	3436327.68	40.786646	-103.924282
	1019.00	1.75	5.25	1018.55	-19.94	19.96	1.55	1.24	1533298.94	3436327.84	40.786648	-103.924282
	1049.00	1.63	1.64	1048.54	-20.82	20.84	1.61	0.53	1533299.82	3436327.88	40.786651	-103.924282
	1079.00	1.35	13.64	1078.53	-21.59	21.61	1.70	1.39	1533300.60	3436327.96	40.786653	-103.924281
	1109.00	1.17	29.05	1108.52	-22.20	22.22	1.93	1.27	1533301.21	3436328.18	40.786654	-103.924280
	1139.00	1.03	48.31	1138.51	-22.64	22.67	2.28	1.31	1533301.66	3436328.52	40.786656	-103.924279
	1169.00	1.00	58.11	1168.51	-22.95	22.99	2.71	0.59	1533301.99	3436328.94	40.786656	-103.924278
	1199.00	1.08	69.67	1198.50	-23.18	23.22	3.19	0.75	1533302.23	3436329.43	40.786657	-103.924276
	1229.00	1.07	94.42	1228.50	-23.25	23.30	3.74	1.54	1533302.32	3436329.97	40.786657	-103.924274
	1259.00	1.20	112.10	1258.49	-23.11	23.16	4.31	1.24	1533302.19	3436330.54	40.786657	-103.924272
	1289.00	1.31	132.68	1288.49	-22.75	22.81	4.85	1.54	1533301.85	3436331.09	40.786656	-103.924270
	1319.00	0.86	142.60	1318.48	-22.33	22.40	5.24	1.62	1533301.45	3436331.49	40.786655	-103.924268
	1349.00	0.89	137.77	1348.48	-21.98	22.05	5.53	0.27	1533301.10	3436331.79	40.786654	-103.924267
	1379.00	0.25	105.91	1378.47	-21.78	21.86	5.75	2.30	1533300.91	3436332.01	40.786653	-103.924267
	1409.00	0.22	202.50	1408.47	-21.71	21.78	5.79	1.17	1533300.84	3436332.05	40.786653	-103.924266
	1439.00	0.47	309.63	1438.47	-21.74	21.81	5.68	1.92	1533300.87	3436331.93	40.786653	-103.924267
	1469.00	0.74	315.24	1468.47	-21.96	22.03	5.45	0.92	1533301.08	3436331.70	40.786654	-103.924268
	1499.00	0.92	327.65	1498.47	-22.30	22.37	5.18	0.84	1533301.41	3436331.43	40.786655	-103.924269
	1529.00	0.66	312.59	1528.47	-22.63	22.69	4.93	1.10	1533301.73	3436331.17	40.786656	-103.924270
	1559.00	0.39	10.00	1558.47	-22.85	22.90	4.82	1.86	1533301.95	3436331.05	40.786656	-103.924270
Last SLB MWD Survey	1582.00	0.74	33.46	1581.46	-23.04	23.11	4.91	1.79	1533302.15	3436331.14	40.786657	-103.924270
Projection to TD (293' FNL, 1924' FEL)	1643.00	0.74	33.46	1642.46	-23.70	23.76	5.35	0.00	1533302.81	3436331.57	40.786659	-103.924268

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 3 *** 3-D 97.071% Confidence 3.0000 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	4.000	1/98.425	13.500	9.625	B001Mb_MWD+HRGM-Depth Only	Timbro 0101-11H / Timbro 0101-11H MWD 0' to 1643' Definitive
	1	4.000	4.000	Act Stns	13.500	9.625	B001Mb_MWD+HRGM-Depth Only	Timbro 0101-11H / Timbro 0101-11H MWD 0' to 1643' Definitive
	1	4.000	1643.000	Act Stns	13.500	9.625	B001Mb_MWD+HRGM	Timbro 0101-11H / Timbro 0101-11H MWD 0' to 1643' Definitive

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