



# Verdad Resources

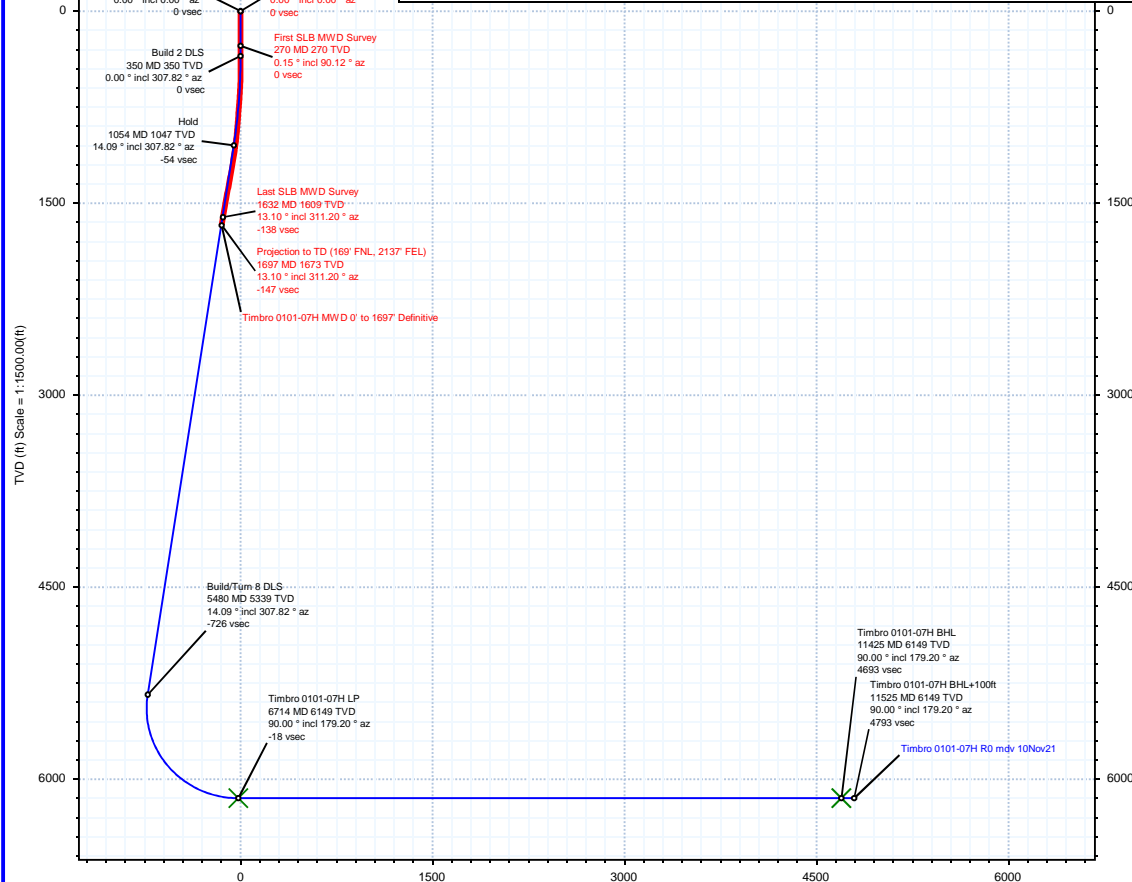


Borehole:	Timbro 0101-07H	Well:	Timbro 0101-07H	Field:	CO, Weld County (NAD 83 NZ) - 2019	Structure:	Verdad Resources 01-09N-59W (Timbro 0101 Pad)
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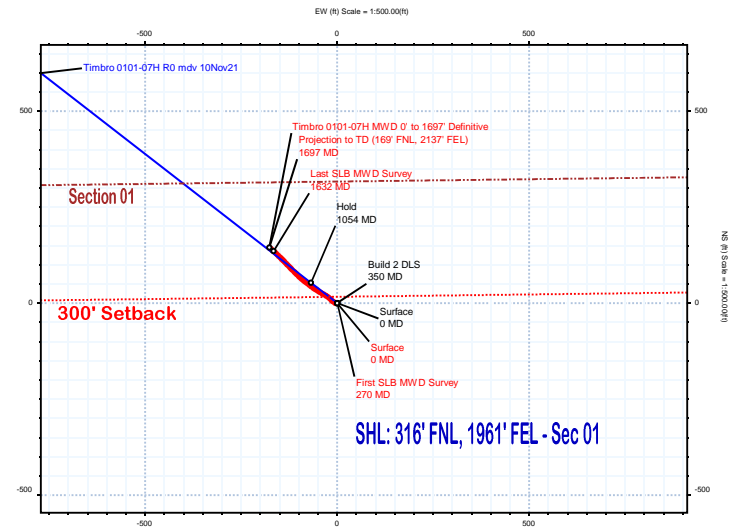
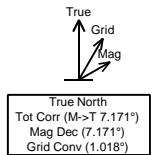
Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	HDGM 2021	Dip:	66.968°	Date:	29-Nov-2021	Lat:	N 40 47 11.73	Northings:	1533277.99ftUS	Grid Conv:	1.018°
MagDec:	7.171°	FS:	52273.996nT	Gravity FS:	999.085mgn (9.80665 Based)	Lon:	W 103 55 27.85	Easting:	3436294.67ftUS	Scale Fact:	1.00000053
								Slot: Timbro 0101-07H			
								TVD Ref: RKB = 4ft(4943ft above MSL)			
								Plan: Timbro 0101-07H MWD 0' to 1697' Definitive			

Surface Location		NAD83 Colorado State Plane, Northern Zone, US Feet		Miscellaneous	
Northings:	1533277.99	Easting:	3436294.673	Latitude:	N 40 47 11.73
Longitude:	W 103 55 27.85	VSec Azimuth:	179.20		
Target Description	Latitude	Longitude	Northings	Easting	TVD
Target Name					
Timbro 0101 Pad - Sec 01	N 40 47 14.47	W 103 56 10.13	1533497.54	3433038.34	4943.00
Timbro 0101 Pad - Sec 01 - 300' SB	N 40 47 11.54	W 103 56 6.11	1533206.69	3433352.05	4943.00
Timbro 0101-07H LP	N 40 47 11.76	W 103 55 41.73	1533262.25	3435226.97	6149.00
Timbro 0101-07H BHL	N 40 46 25.21	W 103 55 40.88	1528553.19	3435376.27	6149.00

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	270.00	0.15	90.12	270.00	0.01	0.00	0.35	0.06
Last SLB MWD Survey	1632.00	13.10	311.20	1609.43	-137.55	135.25	-165.73	2.52
Projection to TD (169' FNL, 2137' FEL)	1697.00	13.10	311.20	1672.74	-147.41	144.95	-176.82	0.00



Vertical Section (ft) Azim = 179.20° Scale = 1:1500.00(ft) Origin = 0N/-S, 0E/-W



## Timbro 0101-07H MWD 0' to 1697' Definitive Survey Geodetic Report

(Def Survey)

Report Date: January 18, 2023 - 01:39 PM  
Client: Verdad Resources  
Field: CO, Weld County (NAD 83 NZ) - 2019

Structure / Slot: Verdad Resources 01-09N-59W (Timbro 0101 Pad) / Timbro 0101-07H

Well: Timbro 0101-07H  
Borehole: Timbro 0101-07H  
UWI / API#: Unknown / 05-123-51081  
Survey Name: Timbro 0101-07H MWD 0' to 1697' Definitive  
Survey Date: November 29, 2021  
Tort / AHD / DDI / ERD Ratio: 23.508 ° / 231.632 ft / 3.742 / 0.138  
Coordinate Reference System: NAD83 Colorado State Plane, Northern Zone, US Feet  
Location Lat / Long: N 40° 47' 11.73228", W 103° 55' 27.85008"  
Location Grid N/E Y/X: N 1533277.990 ftUS, E 3436294.673 ftUS  
CRS Grid Convergence Angle: 1.0180 °  
Grid Scale Factor: 1.00000053  
Version / Patch: 2.10.834.0

Survey / DLS Computation: Minimum Curvature / Lubinski  
Vertical Section Azimuth: 179.200 ° (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: 52273.996 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: 7.1708 °  
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	1533277.99	3436294.67	40.786592	-103.924403
First SLB MWD Survey	270.00	0.15	90.12	270.00	0.01	0.00	0.35	0.06	1533278.00	3436295.03	40.786592	-103.924402
	299.00	0.47	236.55	299.00	0.07	-0.07	0.29	2.07	1533277.93	3436294.97	40.786592	-103.924402
	329.00	0.47	240.52	329.00	0.20	-0.19	0.08	0.11	1533277.80	3436294.76	40.786592	-103.924403
	359.00	1.00	263.98	359.00	0.28	-0.28	-0.29	2.00	1533277.70	3436294.39	40.786592	-103.924404
	389.00	1.40	260.20	389.99	0.36	-0.37	-0.91	1.36	1533277.60	3436293.77	40.786591	-103.924406
	419.00	1.95	265.60	418.98	0.45	-0.47	-1.78	1.91	1533277.48	3436292.91	40.786591	-103.924409
	449.00	2.39	273.01	448.95	0.44	-0.48	-2.91	1.74	1533277.46	3436291.77	40.786591	-103.924413
	479.00	2.85	290.92	478.92	0.12	-0.18	-4.23	3.11	1533277.73	3436290.45	40.786592	-103.924418
	509.00	2.83	302.13	508.89	-0.56	0.48	-5.56	1.85	1533278.37	3436289.11	40.786594	-103.924423
	569.00	3.80	303.91	568.79	-2.49	2.38	-8.46	1.63	1533280.22	3436286.17	40.786599	-103.924433
	599.00	4.34	304.69	598.71	-3.72	3.58	-10.22	1.81	1533281.38	3436284.39	40.786602	-103.924440
	629.00	4.93	307.12	628.61	-5.17	5.00	-12.18	2.07	1533282.77	3436282.41	40.786606	-103.924447
	659.00	5.48	315.62	658.49	-7.00	6.80	-14.21	3.15	1533284.54	3436280.35	40.786611	-103.924454
	689.00	5.87	316.58	688.34	-9.17	8.94	-16.27	1.34	1533286.64	3436278.25	40.786617	-103.924462
	719.00	6.27	315.36	718.17	-11.48	11.22	-18.47	1.40	1533288.88	3436276.01	40.786623	-103.924470
	749.00	6.80	309.45	747.98	-13.81	13.51	-20.99	2.85	1533291.13	3436273.44	40.786629	-103.924479
	779.00	6.76	304.96	777.77	-15.99	15.65	-23.81	1.77	1533293.22	3436270.59	40.786635	-103.924489
	809.00	7.61	302.66	807.53	-18.11	17.74	-26.93	2.99	1533295.25	3436267.43	40.786641	-103.924500
	839.00	8.01	302.49	837.26	-20.36	19.93	-30.37	1.34	1533297.38	3436263.96	40.786647	-103.924512
	869.00	8.60	301.76	866.94	-22.71	22.24	-34.04	2.00	1533299.62	3436260.25	40.786653	-103.924526
	899.00	9.31	298.82	896.57	-25.12	24.59	-38.07	2.81	1533301.90	3436256.17	40.786660	-103.924540
	929.00	10.20	299.13	926.14	-27.64	27.05	-42.52	2.97	1533304.28	3436251.68	40.786667	-103.924556
	959.00	10.60	299.29	955.65	-30.35	29.69	-47.24	1.34	1533306.84	3436246.91	40.786674	-103.924573
	989.00	11.39	301.29	985.10	-33.31	32.58	-52.18	2.92	1533309.64	3436241.92	40.786682	-103.924591
	1019.00	11.75	303.14	1014.49	-36.59	35.79	-57.27	1.72	1533312.76	3436236.78	40.786691	-103.924610
	1049.00	12.28	305.96	1043.83	-40.20	39.33	-62.41	2.64	1533316.21	3436231.57	40.786700	-103.924628
	1079.00	12.52	308.11	1073.13	-44.15	43.21	-67.55	1.73	1533320.00	3436226.36	40.786711	-103.924647
	1109.00	13.12	308.65	1102.38	-48.36	47.35	-72.77	2.04	1533324.04	3436221.07	40.786722	-103.924666
	1139.00	13.59	307.86	1131.57	-52.72	51.64	-78.21	1.68	1533328.23	3436215.58	40.786734	-103.924685
	1169.00	13.77	308.04	1160.72	-57.16	56.00	-83.81	0.62	1533332.49	3436209.86	40.786746	-103.924705
	1199.00	14.53	308.68	1189.81	-61.80	60.55	-89.56	2.59	1533336.94	3436204.06	40.786758	-103.924726
	1229.00	14.49	311.36	1218.85	-66.71	65.38	-95.31	2.24	1533341.67	3436198.22	40.786772	-103.924747
	1259.00	14.41	313.78	1247.90	-71.85	70.45	-100.82	2.03	1533346.63	3436192.61	40.786786	-103.924767
	1289.00	14.61	315.36	1276.95	-77.20	75.72	-106.18	1.48	1533351.81	3436187.17	40.786800	-103.924786
	1319.00	14.59	315.22	1305.98	-82.65	81.10	-111.50	0.14	1533357.09	3436181.75	40.786815	-103.924805
	1349.00	14.66	315.33	1335.01	-88.10	86.48	-116.83	0.25	1533362.38	3436176.33	40.786830	-103.924825
	1379.00	14.66	316.31	1364.03	-93.62	91.92	-122.12	0.83	1533367.73	3436170.94	40.786845	-103.924844
	1409.00	14.80	316.03	1393.04	-99.19	97.43	-127.40	0.52	1533373.14	3436165.56	40.786860	-103.924863
	1439.00	14.69	316.39	1422.06	-104.78	102.94	-132.69	0.48	1533378.55	3436160.18	40.786875	-103.924882
	1469.00	14.11	314.99	1451.11	-110.19	108.28	-137.90	2.25	1533383.80	3436154.88	40.786889	-103.924901
	1499.00	14.01	315.40	1480.22	-115.43	113.45	-143.03	0.47	1533388.88	3436149.65	40.786904	-103.924919
	1529.00	14.25	315.22	1509.31	-120.71	118.65	-148.18	0.81	1533393.99	3436144.41	40.786918	-103.924938
	1559.00	13.76	313.97	1538.42	-125.88	123.75	-153.35	1.92	1533399.00	3436139.15	40.786932	-103.924957
	1589.00	13.40	312.86	1567.58	-130.79	128.59	-158.47	1.48	1533403.75	3436133.95	40.786945	-103.924975
	1619.00	13.18	312.60	1596.77	-135.54	133.27	-163.53	0.76	1533408.34	3436128.80	40.786958	-103.924993
Last SLB MWD Survey Projection to TD (169' FNL, 2137' FEL)	1632.00	13.10	311.20	1609.43	-137.55	135.25	-165.73	2.52	1533410.27	3436126.57	40.786964	-103.925001
	1697.00	13.10	311.20	1672.74	-147.41	144.95	-176.82	0.00	1533419.78	3436115.31	40.786990	-103.925041

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 0101-07H / Timbro 0101- 07H MWD 0' to 1697' Definitive
	1	4.000	4.000	Act Stns	13.500	9.625 B001Mb_MWD+HRGM-Depth Only	Timbro 0101-07H / Timbro 0101- 07H MWD 0' to 1697' Definitive
	1	4.000	1697.000	Act Stns	13.500	9.625 B001Mb_MWD+HRGM	Timbro 0101-07H / Timbro 0101- 07H MWD 0' to 1697' Definitive

... Timbro 0101-07H\Timbro 0101-07H\Timbro 0101-07H MWD 0' to 1697' Definitive