



Verdad Resources

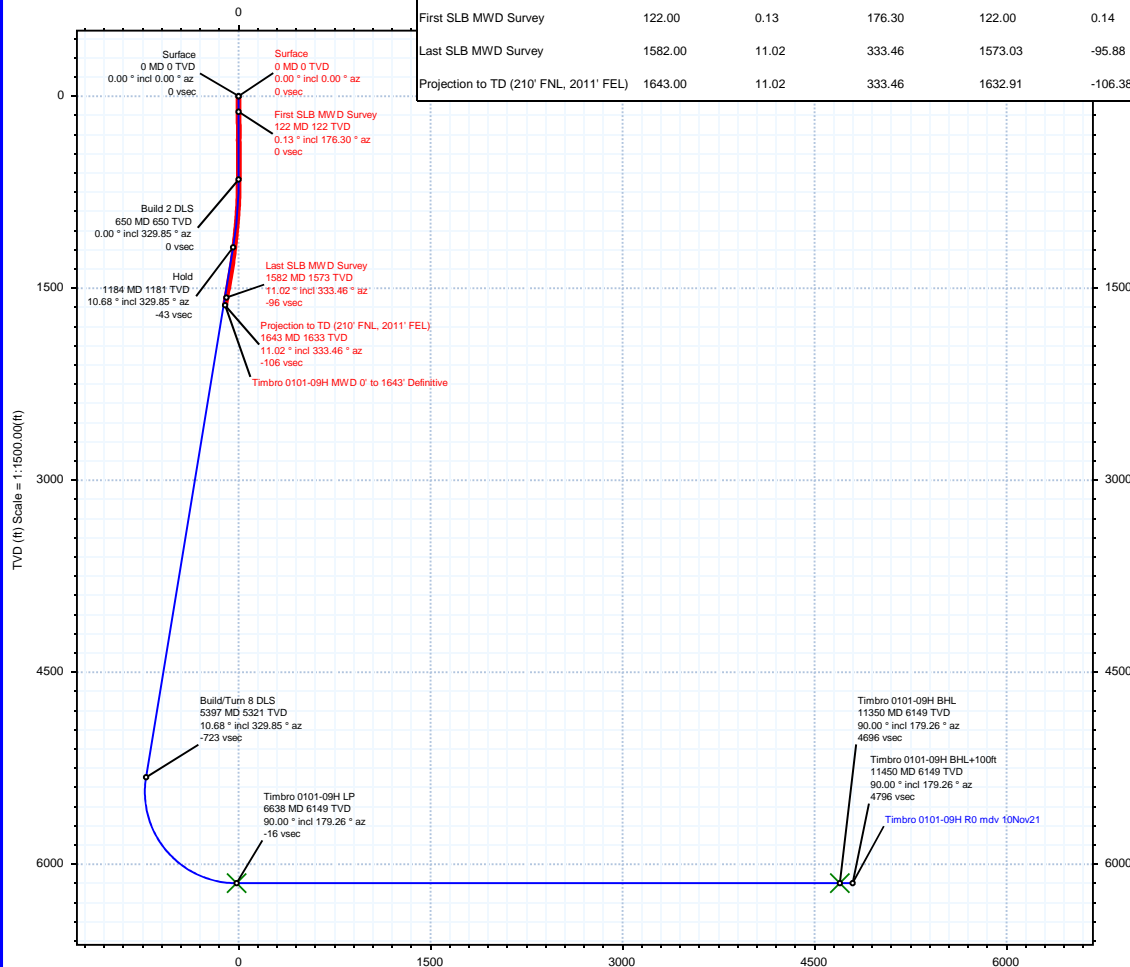


Borehole:	Timbro 0101-09H	Well:	Timbro 0101-09H	Field:	CO, Weld County (NAD 83 NZ) - 2019	Structure:	Verdad Resources 01-09N-59W (Timbro 0101 Pad)
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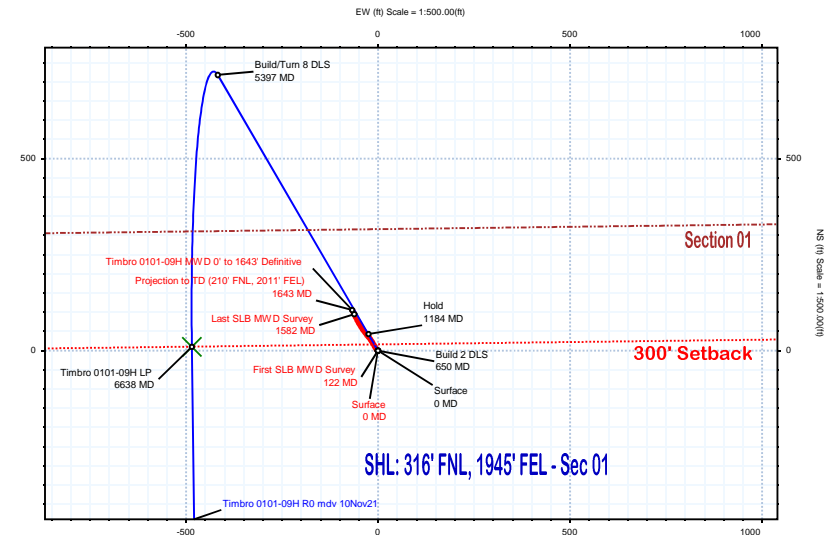
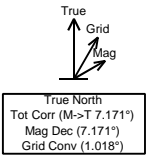
Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	HDGM 2021	Dip:	66.968°	Date:	29-Nov-2021	Lat:	N 40 47 11.73	Northings:	1533278.49ftUS	Grid Conv:	1.0181°
MagDec:	7.171°	FS:	52273.953NT	Gravity FS:	999.085mgn (9.80665 Based)	Lon:	W 103 55 27.64	Easting:	3436310.67ftUS	Scale Fact:	1.00000053
								Slot: Timbro 0101-09H			
								TVD Ref: RKB = 4ft(4943ft above MSL)			
								Plan: Timbro 0101-09H MWD 0' to 1643' Definitive			

Surface Location		NAD83 Colorado State Plane, Northern Zone, US Feet							
Northings:	1533278.493	Easting:	3436310.673	Latitude:	N 40 47 11.73	Longitude:	W 103 55 27.64	VSec Azimuth:	179.26
Target Description		Grid Coord		Local Coord					
Target Name		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	-319.33	277.15	-3267.93
Timbro 0101 Pad - Sec 01 - 300' SB		N 40 47 11.54	W 103 56 6.11	1533206.69	3433352.05	4943.00	-18.99	-19.23	-2959.43
Timbro 0101-09H BHL		N 40 46 25.27	W 103 55 33.15	1528569.64	3435970.76	6149.00	4696.22	-4702.08	-423.52
Timbro 0101-09H LP		N 40 47 11.83	W 103 55 33.94	1533280.02	3435825.98	6149.00	-16.39	10.13	-484.59

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	122.00	0.13	176.30	122.00	0.14	-0.14	0.01	0.11
Last SLB MWD Survey	1582.00	11.02	333.46	1573.03	-95.88	95.09	-61.63	1.14
Projection to TD (210' FNL, 2011' FEL)	1643.00	11.02	333.46	1632.91	-106.38	105.53	-66.84	0.00



Vertical Section (ft) Azim = 179.26° Scale = 1:1500.00(ft) Origin = 0N/-S, 0E/-W



Timbro 0101-09H MWD 0' to 1643' Definitive Survey Geodetic Report

(Def Survey)

Report Date: January 18, 2023 - 01:55 PM
Client: Verdad Resources
Field: CO, Weld County (NAD 83 NZ) - 2019
Structure / Slot: Verdad Resources 01-09N-59W (Timbro 0101 Pad) / Timbro 0101-09H
Well: Timbro 0101-09H
Borehole: Timbro 0101-09H
UWI / API#: Unknown / 05-123-51082
Survey Name: Timbro 0101-09H MWD 0' to 1643' Definitive
Survey Date: November 29, 2021
Tort / AHD / DDI / ERD Ratio: 21.009 ° / 131.561 ft / 3.444 / 0.081
Coordinate Reference System: NAD83 Colorado State Plane, Northern Zone, US Feet
Location Lat / Long: N 40° 47' 11.73444", W 103° 55' 27.64199"
Location Grid N/E Y/X: N 1533278.493 ftUS, E 3436310.673 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: 179.260 ° (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: 52273.953 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	1533278.49	3436310.67	40.786593	-103.924345
First SLB MWD Survey	122.00	0.13	176.30	122.00	0.14	-0.14	0.01	0.11	1533278.36	3436310.68	40.786593	-103.924345
	153.00	0.35	155.24	153.00	0.26	-0.26	0.05	0.75	1533278.23	3436310.73	40.786592	-103.924345
	181.00	0.42	148.67	181.00	0.43	-0.42	0.14	0.30	1533278.07	3436310.82	40.786592	-103.924344
	211.00	0.64	123.05	211.00	0.61	-0.61	0.34	1.06	1533277.89	3436311.02	40.786591	-103.924344
	241.00	0.11	101.95	241.00	0.71	-0.71	0.51	1.80	1533277.79	3436311.19	40.786591	-103.924343
	270.00	0.16	133.36	270.00	0.75	-0.74	0.56	0.30	1533277.76	3436311.25	40.786591	-103.924343
	299.00	0.62	75.27	299.00	0.74	-0.73	0.74	1.90	1533277.78	3436311.43	40.786591	-103.924342
	329.00	0.39	59.90	329.00	0.65	-0.64	0.99	0.88	1533277.87	3436311.67	40.786591	-103.924341
	359.00	0.66	107.83	358.99	0.65	-0.64	1.24	1.64	1533277.88	3436311.93	40.786591	-103.924341
	389.00	0.33	145.25	388.99	0.78	-0.76	1.46	1.49	1533277.76	3436312.14	40.786591	-103.924340
	419.00	0.37	131.44	418.99	0.92	-0.90	1.58	0.31	1533277.62	3436312.27	40.786590	-103.924339
	449.00	0.48	65.02	448.99	0.93	-0.91	1.76	1.58	1533277.62	3436312.45	40.786590	-103.924339
	479.00	0.34	137.03	478.99	0.94	-0.92	1.94	1.65	1533277.61	3436312.63	40.786590	-103.924338
	509.00	0.20	131.83	508.99	1.05	-1.02	2.04	0.47	1533277.51	3436312.73	40.786590	-103.924338
	539.00	0.14	95.25	538.99	1.09	-1.06	2.11	0.40	1533277.47	3436312.81	40.786590	-103.924337
	569.00	0.52	74.12	568.99	1.05	-1.02	2.28	1.31	1533277.51	3436312.97	40.786590	-103.924337
	599.00	0.46	49.81	598.99	0.94	-0.91	2.50	0.72	1533277.63	3436313.19	40.786590	-103.924336
	629.00	0.43	47.98	628.99	0.79	-0.76	2.68	0.11	1533277.78	3436313.37	40.786591	-103.924335
	659.00	0.69	306.24	658.99	0.61	-0.57	2.62	2.95	1533277.97	3436313.30	40.786591	-103.924336
	689.00	1.30	304.06	688.98	0.31	-0.28	2.19	2.04	1533278.26	3436312.87	40.786592	-103.924337
	719.00	1.70	288.77	718.97	-0.04	0.06	1.49	1.88	1533278.58	3436312.16	40.786593	-103.924340
	749.00	2.53	291.05	748.95	-0.43	0.44	0.45	2.78	1533278.94	3436311.11	40.786594	-103.924343
	779.00	2.93	302.28	778.92	-1.10	1.09	-0.82	2.22	1533279.56	3436309.84	40.786596	-103.924348
	809.00	3.45	308.48	808.87	-2.08	2.06	-2.17	2.08	1533280.51	3436308.46	40.786599	-103.924353
	839.00	3.92	317.14	838.81	-3.42	3.37	-3.58	2.42	1533281.80	3436307.04	40.786602	-103.924358
	869.00	4.11	324.33	868.74	-5.06	4.99	-4.90	1.79	1533283.40	3436305.68	40.786607	-103.924363
	899.00	4.35	328.32	898.65	-6.92	6.84	-6.13	1.27	1533285.22	3436304.43	40.786612	-103.924367
	929.00	4.69	330.64	928.56	-8.97	8.87	-7.33	1.29	1533287.24	3436303.19	40.786617	-103.924371
	959.00	5.24	330.63	958.45	-11.25	11.14	-8.60	1.83	1533289.47	3436301.88	40.786623	-103.924376
	989.00	5.92	330.38	988.31	-13.80	13.68	-10.03	2.27	1533291.99	3436300.40	40.786630	-103.924381
	1019.00	6.40	331.19	1018.13	-16.63	16.49	-11.61	1.63	1533294.77	3436298.78	40.786638	-103.924387
	1049.00	6.63	328.16	1047.94	-19.59	19.42	-13.32	1.38	1533297.67	3436297.01	40.786646	-103.924393
	1079.00	6.83	328.40	1077.73	-22.61	22.41	-15.17	0.67	1533300.63	3436295.10	40.786654	-103.924400
	1109.00	6.95	327.49	1107.52	-25.68	25.46	-17.08	0.54	1533303.65	3436293.14	40.786663	-103.924407
	1139.00	7.15	323.82	1137.29	-28.74	28.50	-19.16	1.64	1533306.65	3436291.01	40.786671	-103.924414
	1169.00	7.87	322.60	1167.03	-31.91	31.64	-21.51	2.46	1533309.74	3436288.60	40.786680	-103.924423
	1199.00	8.35	321.54	1196.73	-35.28	34.98	-24.11	1.68	1533313.03	3436285.94	40.786689	-103.924432
	1229.00	9.11	322.70	1226.38	-38.92	38.57	-26.91	2.60	1533316.58	3436283.09	40.786699	-103.924442
	1259.00	9.56	321.45	1255.99	-42.79	42.41	-29.90	1.65	1533320.36	3436280.03	40.786709	-103.924453
	1289.00	10.22	322.54	1285.54	-46.89	46.47	-33.07	2.29	1533324.37	3436276.78	40.786720	-103.924464
	1319.00	10.72	322.95	1315.04	-51.27	50.81	-36.37	1.69	1533328.65	3436273.41	40.786732	-103.924476
	1349.00	10.89	325.92	1344.51	-55.89	55.38	-39.64	1.94	1533333.16	3436270.06	40.786745	-103.924488
	1379.00	11.05	327.26	1373.96	-60.70	60.15	-42.78	1.00	1533337.87	3436266.83	40.786758	-103.924499
	1409.00	11.13	328.98	1403.40	-65.63	65.05	-45.83	1.13	1533342.72	3436263.70	40.786771	-103.924510
	1439.00	11.07	330.69	1432.84	-70.66	70.04	-48.73	1.12	1533347.66	3436260.71	40.786785	-103.924521
	1469.00	11.42	331.35	1462.26	-75.82	75.16	-51.56	1.24	1533352.72	3436257.78	40.786799	-103.924531
	1499.00	11.56	332.66	1491.66	-81.13	80.44	-54.37	0.99	1533357.95	3436254.88	40.786814	-103.924541
	1529.00	11.51	333.80	1521.06	-86.52	85.79	-57.07	0.78	1533363.26	3436252.09	40.786828	-103.924551
	1559.00	11.25	334.12	1550.47	-91.87	91.11	-59.67	0.89	1533368.53	3436249.39	40.786843	-103.924560
Last SLB MWD Survey	1582.00	11.02	333.46	1573.03	-95.88	95.09	-61.63	1.14	1533372.48	3436247.36	40.786854	-103.924568
Projection to TD (210' FNL, 2011' FEL)	1643.00	11.02	333.46	1632.91	-106.38	105.53	-66.84	0.00	1533382.81	3436241.97	40.786883	-103.924586

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	30.000	30.000	B001Mb_MWD+HRGM-Depth Only	Timbro 0101-09H / Timbro 0101-09H MWD 0' to 1643' Definitive
	1	4.000	4.000	Act Stns	30.000	30.000	B001Mb_MWD+HRGM-Depth Only	Timbro 0101-09H / Timbro 0101-09H MWD 0' to 1643' Definitive
	1	4.000	1643.000	Act Stns	30.000	30.000	B001Mb_MWD+HRGM	Timbro 0101-09H / Timbro 0101-09H MWD 0' to 1643' Definitive

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