

HOBBS OCD
JUL 22 2019
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Matador Resources

Lea County, NM (NAD27)
Carl Mottek 17-24S-34E AR
#125H

30-025.44937

OH

Design: Surveys

Standard Survey Report

08 January, 2019

Pro Directional Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #125H
Project:	Lea County, NM (NAD27)	TVD Reference:	KB @ 3606.5'=3578'+28.5' @ 3606.50usft (Patt 274)
Site:	Carl Mottek 17-24S-34E AR	MD Reference:	KB @ 3606.5'=3578'+28.5' @ 3606.50usft (Patt 274)
Well:	#125H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	WellPlanner1

Project	Lea County, NM (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Carl Mottek 17-24S-34E AR				
Site Position:		Northing:	446,143.00 usft	Latitude:	32.223808
From:	Map	Easting:	758,108.00 usft	Longitude:	-103.498692
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.45 °

Well	#125H					
Well Position	+N/-S	0.00 usft	Northing:	446,144.00 usft	Latitude:	32.223811
	+E/-W	0.00 usft	Easting:	758,138.00 usft	Longitude:	-103.498595
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,578.00 usft	

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	HDGM	11/5/2018	6.72	59.92	47,962.30	

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.45	

Survey Program	Date 1/8/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
148.00	15,740.00	ProMWD #1 (OH)	MWD+HDGM	OWSG MWD + HRGM

Survey

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148.00	0.40	3.60	148.00	0.52	0.03	-0.52	0.27	0.27	0.00
274.00	0.50	22.30	273.99	1.46	0.27	-1.46	0.14	0.08	14.84
368.00	0.70	28.00	367.99	2.35	0.69	-2.34	0.22	0.21	6.06
429.00	0.50	27.70	428.99	2.91	0.99	-2.90	0.33	-0.33	-0.49
521.00	0.60	33.00	520.98	3.67	1.44	-3.66	0.12	0.11	5.76
612.00	0.70	42.70	611.98	4.48	2.08	-4.46	0.16	0.11	10.66
704.00	0.80	52.30	703.97	5.29	2.97	-5.26	0.17	0.11	10.43
796.00	0.90	45.50	795.96	6.19	3.99	-6.15	0.15	0.11	-7.39

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887.00	0.90	53.70	886.95	7.11	5.08	-7.06	0.14	0.00	9.01
978.00	0.80	56.30	977.94	7.89	6.18	-7.83	0.12	-0.11	2.86
1,069.00	0.70	56.50	1,068.93	8.55	7.17	-8.48	0.11	-0.11	0.22
1,160.00	0.70	50.00	1,159.92	9.21	8.06	-9.13	0.09	0.00	-7.14
1,251.00	0.90	54.30	1,250.91	9.98	9.07	-9.90	0.23	0.22	4.73
1,344.00	0.80	68.40	1,343.90	10.65	10.27	-10.55	0.25	-0.11	15.16
1,439.00	0.60	39.20	1,438.90	11.28	11.20	-11.17	0.42	-0.21	-30.74
1,535.00	1.00	36.20	1,534.89	12.34	12.01	-12.23	0.42	0.42	-3.13
1,630.00	0.70	61.30	1,629.88	13.29	13.01	-13.17	0.50	-0.32	26.42
1,725.00	2.10	55.90	1,724.85	14.55	14.96	-14.40	1.48	1.47	-5.68
1,821.00	4.30	53.70	1,820.69	17.66	19.32	-17.48	2.29	2.29	-2.29
1,915.00	5.50	52.50	1,914.35	22.49	25.73	-22.24	1.28	1.28	-1.28
2,010.00	5.40	56.70	2,008.92	27.72	33.08	-27.40	0.43	-0.11	4.42
2,106.00	5.60	55.00	2,104.47	32.89	40.69	-32.49	0.27	0.21	-1.77
2,201.00	5.30	58.70	2,199.05	37.82	48.24	-37.36	0.49	-0.32	3.89
2,297.00	5.20	58.50	2,294.64	42.40	55.73	-41.86	0.11	-0.10	-0.21
2,392.00	5.20	53.60	2,389.25	47.20	62.87	-46.60	0.47	0.00	-5.16
2,487.00	5.00	52.40	2,483.88	52.28	69.61	-51.61	0.24	-0.21	-1.26
2,582.00	4.90	55.30	2,578.52	57.12	76.23	-56.39	0.28	-0.11	3.05
2,678.00	4.50	53.10	2,674.20	61.72	82.61	-60.92	0.46	-0.42	-2.29
2,773.00	3.90	57.20	2,768.94	65.70	88.31	-64.85	0.71	-0.63	4.32
2,868.00	4.00	50.70	2,863.72	69.55	93.59	-68.65	0.48	0.11	-6.84
2,963.00	3.60	50.50	2,958.51	73.55	98.45	-72.60	0.42	-0.42	-0.21
3,057.00	3.50	53.50	3,052.33	77.13	103.04	-76.14	0.22	-0.11	3.19
3,153.00	3.70	49.60	3,148.14	80.88	107.75	-79.84	0.33	0.21	-4.06
3,248.00	4.40	52.60	3,242.90	85.08	112.98	-83.99	0.77	0.74	3.16
3,343.00	5.90	52.80	3,337.52	90.25	119.77	-89.09	1.58	1.58	0.21
3,438.00	5.80	53.70	3,432.02	96.04	127.52	-94.81	0.14	-0.11	0.95
3,533.00	5.60	52.90	3,526.55	101.68	135.09	-100.38	0.23	-0.21	-0.84
3,629.00	5.40	48.50	3,622.11	107.50	142.21	-106.13	0.49	-0.21	-4.58
3,724.00	5.10	48.70	3,716.71	113.25	148.73	-111.81	0.32	-0.32	0.21
3,819.00	4.10	50.00	3,811.40	118.22	154.50	-116.73	1.06	-1.05	1.37
3,914.00	3.40	49.50	3,906.20	122.23	159.25	-120.70	0.74	-0.74	-0.53
4,010.00	3.90	49.30	4,002.00	126.21	163.89	-124.63	0.52	0.52	-0.21
4,104.00	4.30	62.40	4,095.77	129.92	169.43	-128.29	1.08	0.43	13.94
4,200.00	3.50	60.60	4,191.54	133.03	175.18	-131.34	0.84	-0.83	-1.88
4,295.00	3.00	60.90	4,286.39	135.66	179.87	-133.93	0.53	-0.53	0.32
4,390.00	2.80	59.40	4,381.27	138.05	184.04	-136.28	0.23	-0.21	-1.58
4,486.00	4.90	51.90	4,477.05	141.78	189.29	-139.95	2.24	2.19	-7.81
4,581.00	6.60	58.70	4,571.57	147.12	197.15	-145.22	1.92	1.79	7.16
4,676.00	6.90	63.10	4,665.91	152.54	206.90	-150.54	0.63	0.32	4.63
4,771.00	7.60	58.10	4,760.15	158.44	217.32	-156.34	0.99	0.74	-5.26

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4,867.00	7.80	54.50	4,855.28	165.58	228.02	-163.38	0.54	0.21	-3.75
4,962.00	7.40	54.80	4,949.45	172.85	238.26	-170.55	0.42	-0.42	0.32
5,057.00	6.00	51.70	5,043.80	179.45	247.16	-177.07	1.52	-1.47	-3.26
5,153.00	5.00	49.60	5,139.36	185.27	254.28	-182.82	1.06	-1.04	-2.19
5,248.00	4.40	52.80	5,234.04	190.16	260.34	-187.65	0.69	-0.63	3.37
5,355.00	3.50	50.00	5,340.78	194.74	266.11	-192.17	0.86	-0.84	-2.62
5,450.00	3.50	52.00	5,435.60	198.39	270.62	-195.78	0.13	0.00	2.11
5,545.00	6.50	47.50	5,530.23	203.81	276.87	-201.14	3.18	3.16	-4.74
5,641.00	7.10	46.40	5,625.56	211.57	285.17	-208.82	0.64	0.63	-1.15
5,736.00	7.30	46.50	5,719.81	219.77	293.80	-216.94	0.21	0.21	0.11
5,831.00	7.30	44.50	5,814.04	228.23	302.41	-225.32	0.27	0.00	-2.11
5,927.00	7.60	44.20	5,909.23	237.13	311.11	-234.14	0.32	0.31	-0.31
6,022.00	5.80	49.90	6,003.57	244.73	319.16	-241.65	2.02	-1.89	6.00
6,117.00	5.30	49.40	6,098.13	250.68	326.17	-247.53	0.53	-0.53	-0.53
6,212.00	5.20	46.20	6,192.73	256.51	332.60	-253.31	0.33	-0.11	-3.37
6,307.00	5.10	46.10	6,287.35	262.42	338.75	-259.16	0.11	-0.11	-0.11
6,402.00	5.10	56.70	6,381.97	267.67	345.33	-264.34	0.99	0.00	11.16
6,497.00	5.10	57.50	6,476.60	272.25	352.42	-268.86	0.07	0.00	0.84
6,592.00	3.00	72.50	6,571.36	275.27	358.35	-271.82	2.46	-2.21	15.79
6,687.00	2.30	86.90	6,666.26	276.12	362.62	-272.63	1.01	-0.74	15.16
6,782.00	0.90	100.40	6,761.22	276.09	365.26	-272.57	1.52	-1.47	14.21
6,878.00	0.60	121.70	6,857.21	275.69	366.43	-272.16	0.42	-0.31	22.19
6,973.00	0.90	119.30	6,952.20	275.06	367.50	-271.52	0.32	0.32	-2.53
7,068.00	1.70	283.10	7,047.19	275.02	366.78	-271.48	2.71	0.84	172.42
7,164.00	2.00	280.70	7,143.14	275.65	363.75	-272.15	0.32	0.31	-2.50
7,259.00	1.90	284.40	7,238.08	276.35	360.59	-272.88	0.17	-0.11	3.89
7,354.00	1.90	286.00	7,333.03	277.18	357.56	-273.73	0.06	0.00	1.68
7,449.00	1.90	287.30	7,427.98	278.08	354.54	-274.66	0.05	0.00	1.37
7,545.00	0.50	118.20	7,523.97	278.35	353.39	-274.95	2.49	-1.46	-176.15
7,640.00	0.70	122.80	7,618.96	277.84	354.24	-274.43	0.22	0.21	4.84
7,735.00	0.40	132.10	7,713.96	277.31	354.97	-273.89	0.33	-0.32	9.79
7,829.00	0.20	129.50	7,807.95	276.98	355.34	-273.56	0.21	-0.21	-2.77
7,924.00	0.20	146.00	7,902.95	276.74	355.56	-273.31	0.06	0.00	17.37
8,020.00	0.40	127.60	7,998.95	276.40	355.92	-272.97	0.23	0.21	-19.17
8,115.00	0.20	193.70	8,093.95	276.03	356.15	-272.60	0.39	-0.21	69.58
8,210.00	0.30	170.40	8,188.95	275.63	356.15	-272.19	0.15	0.11	-24.53
8,305.00	0.40	174.80	8,283.95	275.05	356.22	-271.62	0.11	0.11	4.63
8,401.00	0.40	170.40	8,379.95	274.39	356.31	-270.95	0.03	0.00	-4.58
8,496.00	0.50	192.90	8,474.94	273.65	356.27	-270.22	0.21	0.11	23.68
8,592.00	0.60	192.10	8,570.94	272.76	356.07	-269.32	0.10	0.10	-0.83
8,687.00	0.60	191.10	8,665.93	271.78	355.87	-268.35	0.01	0.00	-1.05
8,782.00	0.30	231.50	8,760.93	271.14	355.58	-267.71	0.44	-0.32	42.53

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8,877.00	0.40	231.80	8,855.93	270.78	355.13	-267.36	0.11	0.11	0.32
8,972.00	0.30	296.20	8,950.93	270.68	354.64	-267.27	0.40	-0.11	67.79
9,067.00	0.30	275.10	9,045.93	270.81	354.17	-267.40	0.12	0.00	-22.21
9,162.00	0.20	294.30	9,140.93	270.90	353.77	-267.50	0.14	-0.11	20.21
9,258.00	0.30	350.40	9,236.93	271.22	353.58	-267.82	0.26	0.10	58.44
9,353.00	0.30	303.30	9,331.92	271.60	353.33	-268.20	0.25	0.00	-49.58
9,448.00	0.40	339.30	9,426.92	272.05	353.00	-268.65	0.25	0.11	37.89
9,543.00	1.00	343.30	9,521.91	273.15	352.65	-269.76	0.63	0.63	4.21
9,638.00	1.00	355.90	9,616.90	274.78	352.35	-271.38	0.23	0.00	13.26
9,733.00	0.80	2.40	9,711.89	276.26	352.32	-272.87	0.24	-0.21	6.84
9,828.00	0.50	12.70	9,806.88	277.33	352.44	-273.94	0.34	-0.32	10.84
9,924.00	0.70	21.80	9,902.88	278.28	352.75	-274.89	0.23	0.21	9.48
10,019.00	0.60	345.30	9,997.87	279.30	352.84	-275.91	0.44	-0.11	-38.42
10,115.00	0.60	329.20	10,093.87	280.22	352.45	-276.83	0.18	0.00	-16.77
10,210.00	0.70	317.80	10,188.86	281.08	351.81	-277.69	0.17	0.11	-12.00
10,305.00	5.50	143.40	10,283.73	277.85	354.13	-274.44	6.52	5.05	-183.58
10,400.00	19.50	138.60	10,376.25	262.22	367.40	-258.69	14.76	14.74	-5.05
10,496.00	29.70	138.80	10,463.42	232.23	393.73	-228.44	10.63	10.63	0.21
10,504.42	30.68	139.55	10,470.70	229.03	396.50	-225.21	12.44	11.60	8.96
FTP: 10504' MD									
10,591.00	40.90	145.40	10,540.86	188.77	427.01	-184.66	12.44	11.81	6.75
10,687.00	50.70	150.00	10,607.72	130.58	463.53	-126.12	10.77	10.21	4.79
10,782.00	56.10	154.00	10,664.36	63.24	499.23	-58.45	6.61	5.68	4.21
10,877.00	63.60	157.70	10,712.05	-11.69	532.71	16.80	8.58	7.89	3.89
10,972.00	73.30	166.00	10,746.96	-95.52	559.97	100.89	13.04	10.21	8.74
11,067.00	79.80	180.00	10,769.15	-186.94	571.04	192.42	15.87	6.84	14.74
11,162.00	86.20	186.20	10,780.73	-281.00	565.91	286.42	9.34	6.74	6.53
11,257.00	91.30	187.80	10,782.80	-375.24	554.34	380.54	5.63	5.37	1.68
11,332.00	90.90	185.30	10,781.36	-449.73	545.78	454.94	3.38	-0.53	-3.33
11,426.00	89.50	182.30	10,781.03	-543.51	539.56	548.66	3.52	-1.49	-3.19
11,521.00	90.10	181.70	10,781.37	-638.45	536.24	643.56	0.89	0.63	-0.63
11,617.00	91.30	181.50	10,780.19	-734.40	533.56	739.49	1.27	1.25	-0.21
11,712.00	90.30	181.30	10,778.87	-829.36	531.24	834.42	1.07	-1.05	-0.21
11,806.00	88.10	182.40	10,780.18	-923.30	528.21	928.32	2.62	-2.34	1.17
11,902.00	88.60	182.30	10,782.94	-1,019.17	524.27	1,024.16	0.53	0.52	-0.10
11,997.00	89.50	182.90	10,784.52	-1,114.06	519.96	1,119.00	1.14	0.95	0.63
12,092.00	88.70	181.70	10,786.01	-1,208.97	516.15	1,213.87	1.52	-0.84	-1.26
12,187.00	89.50	181.70	10,787.50	-1,303.92	513.33	1,308.79	0.84	0.84	0.00
12,283.00	91.10	182.10	10,787.00	-1,399.86	510.15	1,404.69	1.72	1.67	0.42
12,378.00	88.70	182.80	10,787.17	-1,494.77	506.09	1,499.55	2.63	-2.53	0.74
12,473.00	86.00	182.70	10,791.56	-1,589.55	501.54	1,594.29	2.84	-2.84	-0.11
12,569.00	86.70	182.60	10,797.67	-1,685.25	497.11	1,689.94	0.74	0.73	-0.10

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Database: WellPlanner1

Survey

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)
12,664.00	86.40	180.60	10,803.39	-1,780.03	494.46	1,784.70	2.13	-0.32	-2.11
12,759.00	86.60	180.00	10,809.19	-1,874.86	493.96	1,879.51	0.66	0.21	-0.63
12,855.00	87.20	180.20	10,814.38	-1,970.71	493.79	1,975.36	0.66	0.63	0.21
12,950.00	88.00	180.80	10,818.36	-2,065.63	492.97	2,070.26	1.05	0.84	0.63
13,045.00	88.90	181.20	10,820.93	-2,160.58	491.31	2,165.19	1.04	0.95	0.42
13,140.00	88.50	179.10	10,823.08	-2,255.55	491.06	2,260.16	2.25	-0.42	-2.21
13,235.00	89.00	178.70	10,825.15	-2,350.50	492.88	2,355.13	0.67	0.53	-0.42
13,330.00	90.00	178.70	10,825.98	-2,445.48	495.04	2,450.11	1.05	1.05	0.00
13,426.00	91.10	178.90	10,825.06	-2,541.45	497.05	2,546.10	1.16	1.15	0.21
13,520.00	89.20	179.60	10,824.82	-2,635.44	498.28	2,640.10	2.15	-2.02	0.74
13,615.00	90.00	179.60	10,825.48	-2,730.43	498.94	2,735.09	0.84	0.84	0.00
13,710.00	90.80	179.50	10,824.82	-2,825.42	499.69	2,830.09	0.85	0.84	-0.11
13,805.00	89.20	179.90	10,824.82	-2,920.42	500.19	2,925.09	1.74	-1.68	0.42
13,900.00	87.90	179.80	10,827.22	-3,015.39	500.43	3,020.05	1.37	-1.37	-0.11
13,995.00	88.80	180.10	10,829.95	-3,110.35	500.52	3,115.01	1.00	0.95	0.32
14,091.00	90.40	180.00	10,830.62	-3,206.34	500.43	3,211.00	1.67	1.67	-0.10
14,186.00	91.50	180.00	10,829.05	-3,301.33	500.43	3,305.98	1.16	1.16	0.00
14,281.00	92.60	180.10	10,825.65	-3,396.26	500.35	3,400.91	1.16	1.16	0.11
14,376.00	90.20	179.90	10,823.33	-3,491.23	500.35	3,495.87	2.54	-2.53	-0.21
14,472.00	90.60	180.00	10,822.66	-3,587.23	500.43	3,591.86	0.43	0.42	0.10
14,567.00	91.80	179.90	10,820.67	-3,682.20	500.52	3,686.84	1.27	1.26	-0.11
14,662.00	89.90	177.90	10,819.26	-3,777.17	502.34	3,781.81	2.90	-2.00	-2.11
14,757.00	90.10	177.90	10,819.26	-3,872.10	505.82	3,876.78	0.21	0.21	0.00
14,852.00	91.50	177.80	10,817.93	-3,967.02	509.39	3,971.73	1.48	1.47	-0.11
14,948.00	89.50	177.40	10,817.10	-4,062.93	513.41	4,067.67	2.12	-2.08	-0.42
15,043.00	89.90	177.60	10,817.59	-4,157.84	517.55	4,162.62	0.47	0.42	0.21
15,138.00	90.80	177.70	10,817.01	-4,252.76	521.44	4,257.57	0.95	0.95	0.11
15,233.00	92.10	177.50	10,814.61	-4,347.64	525.42	4,352.48	1.38	1.37	-0.21
15,329.00	93.40	177.90	10,810.00	-4,443.45	529.27	4,448.33	1.42	1.35	0.42
15,424.00	91.60	179.00	10,805.86	-4,538.32	531.84	4,543.22	2.22	-1.89	1.16
15,519.00	92.50	179.30	10,802.46	-4,633.25	533.24	4,638.15	1.00	0.95	0.32
15,614.00	93.90	179.70	10,797.16	-4,728.09	534.07	4,733.00	1.53	1.47	0.42
15,672.00	94.90	179.90	10,792.71	-4,785.92	534.27	4,790.83	1.76	1.72	0.34
Final Svy: 15672.00 MD, 10792.71 TVD									
15,735.01	94.90	179.90	10,787.33	-4,848.70	534.38	4,853.61	0.00	0.00	0.00
LTP: 15735' MD									
15,740.00	94.90	179.90	10,786.90	-4,853.67	534.39	4,858.58	0.00	0.00	0.00
PTD: 15740.00 MD									

Pro Directional Survey Report

Company: Matador Resources
Project: Lea County, NM (NAD27)
Site: Carl Mottek 17-24S-34E AR
Well: #125H
Wellbore: OH
Design: Surveys

Local Co-ordinate Reference: Well #125H
TVD Reference: KB @ 3606.5'=3578'+28.5' @ 3606.50usft (Patt 274)
MD Reference: KB @ 3606.5'=3578'+28.5' @ 3606.50usft (Patt 274)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,504.42	10,470.70	229.03	396.50	FTP: 10504' MD
15,672.00	10,792.71	-4,785.92	534.27	Final Svy: 15672.00 MD, 10792.71 TVD
15,735.01	10,787.33	-4,848.70	534.38	LTP: 15735' MD
15,740.00	10,786.90	-4,853.67	534.39	PTD: 15740.00 MD

Checked By: _____ Approved By: _____ Date: _____



Matador Resources
Lea County, NM (NAD27)
Carl Mottek 17-24S-34E AR
#125H
Plan 2
Patt 274



RKB Elevation: KB @ 3606.5'±3578'±28.5' @ 3606.50usft (Patt 274)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	446144.00	758138.00	32.223810	-103.488595	

SECTION DETAILS- Lateral

Sec	MD	Inc	Asl	TVD	+N/-S	+E/-W	Dieg	VSect	Target
1	7829.00	0.20	129.50	7807.95	276.98	355.34	0.00	-273.56	
2	7839.00	0.00	0.00	7817.95	276.97	355.36	2.00	-273.55	
3	10295.45	0.00	0.00	10274.40	276.97	355.36	0.00	-273.55	
4	10670.45	45.00	151.80	10612.02	153.72	421.44	12.00	-149.67	
5	11089.68	89.00	179.45	10774.49	-210.16	498.53	12.00	214.94	
6	12374.93	89.00	179.45	10797.00	-1495.16	510.94	0.00	1500.00	1500 VS (Carl Mottek #125H)
7	12424.78	88.00	179.45	10798.31	-1544.99	511.42	2.00	1549.83	
8	13375.53	88.00	179.45	10831.50	-2495.12	520.51	0.00	2500.00	2500 VS (Carl Mottek #125H)
9	13425.60	89.00	179.45	10832.81	-2545.18	520.98	2.00	2550.05	
10	13875.62	89.00	179.45	10840.66	-2995.09	525.29	0.00	3000.00	3000 VS (Carl Mottek #125H)
11	13987.78	91.24	179.45	10840.42	-3107.24	526.38	2.00	3112.15	
12	14375.72	91.24	179.45	10832.00	-3495.08	530.07	0.00	3500.00	3500 VS (Carl Mottek #125H)
13	14442.35	89.91	179.45	10831.33	-3561.70	530.71	2.00	3566.63	
14	14875.73	89.91	179.45	10832.00	-3995.05	534.86	0.00	4000.00	4000 VS (Carl Mottek #125H)
15	14990.76	92.21	179.45	10829.87	-4110.05	535.96	2.00	4115.00	
16	15376.04	92.21	179.45	10815.00	-4495.03	539.64	0.00	4500.00	4500 VS (Carl Mottek #125H)
17	15381.24	92.11	179.45	10814.80	-4500.22	539.69	2.00	4505.19	
18	15729.38	92.11	179.45	10802.00	-4848.09	543.02	0.00	4853.08	4853.08HL 50' W (Carl Mottek #125H) v2

TARGETS

Name	TVD	+N/-S	+E/-W	Northing	Easting
1500 VS (Carl Mottek #125H)	10797.00	-1495.16	510.94	444648.84	758548.94
2500 VS (Carl Mottek #125H)	10831.50	-2495.12	520.51	443648.88	758558.51
3000 VS (Carl Mottek #125H)	10840.66	-2995.09	525.29	443148.91	758663.29
3500 VS (Carl Mottek #125H)	10832.00	-3495.08	530.07	442648.92	758668.07
4000 VS (Carl Mottek #125H)	10832.00	-3995.05	534.86	442148.95	758672.86
4500 VS (Carl Mottek #125H)	10815.00	-4495.03	539.64	441648.97	758677.64
FTP (Carl Mottek #125H)	0.00	230.00	545.00	446374.00	758683.00
KOP (Carl Mottek #125H)	10285.69	276.00	364.00	446422.00	758502.00
PBHL 50' W (Carl Mottek #125H)	10937.41	-4848.09	543.02	441295.91	758681.02
PBHL 50' W (Carl Mottek #125H) v2	10802.00	-4848.09	543.02	441295.91	758681.02

US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level

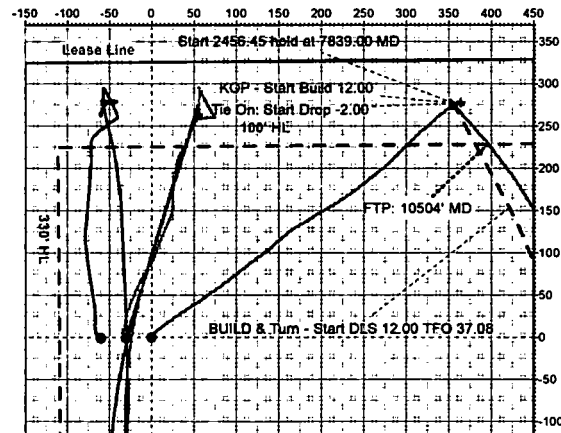


Azimuths to Grid North
True North: 0.44°
Magnetic North: 6.27°
Magnetic Field
Strength: 47963.3nT
Dip Angle: 59.92°
Date: 11/5/2018
Model: HDGM

Azimuth Corrections

Total Magnetic Corr. (M to G): 6.27°

West(-)/East(+) (50 usft/in)



West(-)/East(+) (200 usft/in)

