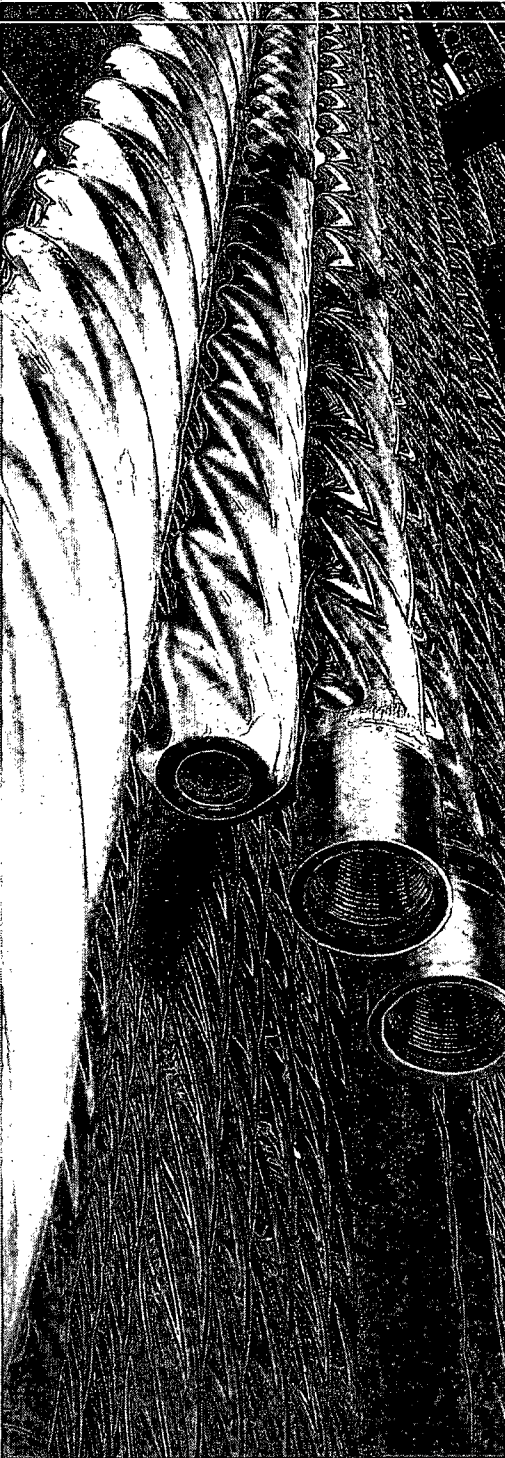


50-025-44722



HOBBS OCD
NOV 06 2018
RECEIVED

Northeast Kemnitz No. 233H(ST01)

Lea County, NM

August 06, 2018

Job No. LNM5172718

 **ORIGINAL**

Survey Completion Report



Survey Certification Letter

August 06, 2018



Operator Name: Matador Resources
Well Name: Northeast Kemnitz No. 233H(ST01)
County/Parish: Lea County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5172718

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

Surveyor	Surveyed Depths	Projection to Bit	Dates Performed	Type of Survey
ProDirectional	7,279' MD – 12,448' MD	12,600' MD	05/15/18 – 05/28/18	MWD-OWSG

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266

prodirectional.com



Matador Resources

**Lea County, NM
Northeast Kemnitz
No. 233H
ST01**

Survey: ProDirectional

Survey Report

06 August, 2018





ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Northeast Kemnitz
Well: No. 233H
Wellbore: ST01
Design: MWD-7279-12448', Proj. 12600'

Local Co-ordinate Reference: Well No. 233H
TVD Reference: Well @ 4112.50usft
MD Reference: Well @ 4112.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Project	Lea County, NM(NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Northeast Kemnitz		
Site Position:		Northing:	692,346.00 usft
From:	Map	Easting:	782,424.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.900808
		Longitude:	-103.547839
		Grid Convergence:	0.43 °

Well	No. 233H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.900808
		Longitude:	-103.547839
		Ground Level:	4,084.00 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	4/30/2018	6.60	60.80	48,215.40

Design	MWD-7279-12448', Proj. 12600'				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	7,225.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.48	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Northeast Kemnitz
Well: No. 233H
Wellbore: ST01
Design: MWD-7279-12448', Proj. 12600'

Local Co-ordinate Reference: Well No. 233H
TVD Reference: Well @ 4112.50usft
MD Reference: Well @ 4112.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey Program Date 8/6/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
197.00	7,225.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM
7,279.00	12,600.00	Survey #1 (ST01)	MWD+HDGM	OWSG MWD + HRGM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	692,346.00	782,424.00
197.00	0.30	108.70	197.00	-0.17	-0.17	0.49	0.52	108.70	692,345.83	782,424.49
286.00	0.80	116.10	285.99	-0.52	-0.51	1.27	1.37	112.06	692,345.49	782,425.27
380.00	0.80	134.80	379.99	-1.29	-1.26	2.32	2.64	118.57	692,344.74	782,426.32
474.00	1.00	125.80	473.97	-2.24	-2.21	3.45	4.10	122.58	692,343.79	782,427.45
596.00	0.80	130.90	595.96	-3.43	-3.39	4.96	6.01	124.33	692,342.61	782,428.96
689.00	0.70	130.60	688.95	-4.24	-4.18	5.88	7.22	125.41	692,341.82	782,429.88
781.00	0.80	139.70	780.94	-5.10	-5.04	6.72	8.40	126.84	692,340.96	782,430.72
873.00	0.60	118.80	872.94	-5.83	-5.76	7.56	9.51	127.29	692,340.24	782,431.56
964.00	0.60	127.40	963.93	-6.35	-6.28	8.36	10.45	126.91	692,339.72	782,432.36
1,058.00	1.50	147.90	1,057.91	-7.70	-7.62	9.40	12.10	129.02	692,338.38	782,433.40
1,151.00	1.60	152.10	1,150.88	-9.89	-9.80	10.66	14.48	132.59	692,336.20	782,434.66
1,244.00	1.80	146.40	1,243.84	-12.27	-12.16	12.07	17.14	135.21	692,333.84	782,436.07
1,337.00	1.40	143.40	1,336.80	-14.41	-14.29	13.56	19.70	136.51	692,331.71	782,437.56
1,431.00	1.20	147.00	1,430.78	-16.17	-16.04	14.78	21.81	137.34	692,329.96	782,438.78
1,525.00	1.00	158.80	1,524.76	-17.77	-17.63	15.61	23.55	138.47	692,328.37	782,439.61
1,599.00	0.70	146.30	1,598.75	-18.75	-18.61	16.10	24.60	139.14	692,327.39	782,440.10
1,714.00	0.50	133.50	1,713.75	-19.69	-19.54	16.85	25.80	139.22	692,326.46	782,440.85
1,808.00	1.60	144.90	1,807.73	-21.05	-20.89	17.90	27.51	139.41	692,325.11	782,441.90
1,901.00	2.10	148.60	1,900.68	-23.59	-23.41	19.54	30.49	140.15	692,322.59	782,443.54
1,994.00	2.30	149.20	1,993.61	-26.66	-26.47	21.38	34.02	141.07	692,319.53	782,445.38



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Northeast Kernitz
Well: No. 233H
Wellbore: ST01
Design: MWD-7279-12448', Proj. 12600'

Local Co-ordinate Reference: Well No. 233H
TVD Reference: Well @ 4112.50usft
MD Reference: Well @ 4112.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
2,087.00	2.30	152.60	2,086.54	-29.94	-29.73	23.19	37.70	142.04	692,316.27	782,447.19
2,181.00	2.30	154.90	2,180.46	-33.33	-33.11	24.86	41.40	143.10	692,312.89	782,448.86
2,274.00	2.20	152.40	2,273.39	-36.62	-36.38	26.48	45.00	143.95	692,309.62	782,450.48
2,368.00	2.10	142.20	2,367.33	-39.60	-39.34	28.37	48.50	144.20	692,306.66	782,452.37
2,461.00	1.90	144.60	2,460.27	-42.22	-41.94	30.31	51.75	144.15	692,304.06	782,454.31
2,555.00	1.80	145.70	2,554.22	-44.72	-44.43	32.04	54.78	144.20	692,301.57	782,456.04
2,647.00	1.90	142.40	2,646.17	-47.14	-46.84	33.79	57.75	144.19	692,299.16	782,457.79
2,741.00	1.70	145.20	2,740.13	-49.54	-49.21	35.54	60.70	144.17	692,296.79	782,459.54
2,834.00	1.70	145.40	2,833.08	-51.82	-51.48	37.11	63.46	144.22	692,294.52	782,461.11
2,928.00	1.60	138.80	2,927.05	-53.97	-53.62	38.76	66.16	144.14	692,292.38	782,462.76
3,021.00	1.40	145.50	3,020.01	-55.89	-55.53	40.26	68.59	144.06	692,290.47	782,464.26
3,114.00	1.30	137.10	3,112.99	-57.62	-57.24	41.62	70.77	143.98	692,288.76	782,465.62
3,207.00	2.30	140.60	3,205.94	-59.85	-59.46	43.53	73.68	143.79	692,286.54	782,467.53
3,301.00	2.90	144.70	3,299.84	-63.27	-62.85	46.10	77.95	143.74	692,283.15	782,470.10
3,394.00	2.50	143.60	3,392.74	-66.84	-66.41	48.66	82.33	143.77	692,279.59	782,472.66
3,487.00	2.50	148.80	3,485.65	-70.23	-69.77	50.91	86.37	143.88	692,276.23	782,474.91
3,580.00	2.10	149.60	3,578.58	-73.45	-72.98	52.83	90.09	144.10	692,273.02	782,476.83
3,674.00	1.90	148.00	3,672.52	-76.28	-75.79	54.52	93.36	144.27	692,270.21	782,478.52
3,767.00	1.80	149.90	3,765.47	-78.86	-78.36	56.07	96.35	144.41	692,267.64	782,480.07
3,860.00	1.50	148.90	3,858.43	-81.18	-80.66	57.44	99.02	144.55	692,265.34	782,481.44
3,954.00	1.50	151.10	3,952.40	-83.32	-82.79	58.67	101.47	144.68	692,263.21	782,482.67
4,047.00	1.10	151.10	4,045.38	-85.18	-84.64	59.69	103.57	144.81	692,261.36	782,483.69
4,140.00	1.10	161.60	4,138.36	-86.81	-86.27	60.40	105.31	145.00	692,259.73	782,484.40
4,234.00	0.80	157.80	4,232.35	-88.28	-87.73	60.93	106.82	145.22	692,258.27	782,484.93
4,327.00	0.70	151.80	4,325.34	-89.39	-88.83	61.44	108.01	145.33	692,257.17	782,485.44
4,420.00	0.70	166.10	4,418.33	-90.44	-89.89	61.85	109.11	145.47	692,256.11	782,485.85
4,514.00	0.60	157.40	4,512.32	-91.46	-90.90	62.18	110.13	145.63	692,255.10	782,486.18



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Northeast Kernitz
Well: No. 233H
Wellbore: ST01
Design: MWD-7279-12448', Proj. 12600'

Local Co-ordinate Reference: Well No. 233H
TVD Reference: Well @ 4112.50usft
MD Reference: Well @ 4112.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
4,706.00	0.40	172.90	4,704.32	-93.06	-92.49	62.65	111.71	145.89	692,253.51	782,486.65	
4,799.00	0.30	186.10	4,797.32	-93.62	-93.06	62.66	112.19	146.04	692,252.94	782,486.66	
4,893.00	0.20	116.60	4,891.32	-93.94	-93.37	62.78	112.52	146.08	692,252.63	782,486.78	
4,987.00	0.20	149.70	4,985.31	-94.16	-93.59	63.01	112.82	146.05	692,252.41	782,487.01	
5,080.00	0.00	304.40	5,078.31	-94.30	-93.73	63.09	112.99	146.05	692,252.27	782,487.09	
5,173.00	0.10	286.00	5,171.31	-94.27	-93.71	63.01	112.92	146.08	692,252.29	782,487.01	
5,267.00	0.10	241.30	5,265.31	-94.29	-93.72	62.86	112.85	146.15	692,252.28	782,486.86	
5,360.00	0.10	269.70	5,358.31	-94.33	-93.76	62.71	112.80	146.22	692,252.24	782,486.71	
5,453.00	0.10	281.40	5,451.31	-94.31	-93.75	62.55	112.70	146.29	692,252.25	782,486.55	
5,546.00	0.20	254.80	5,544.31	-94.34	-93.77	62.31	112.59	146.40	692,252.23	782,486.31	
5,639.00	0.10	260.50	5,637.31	-94.39	-93.83	62.08	112.51	146.51	692,252.17	782,486.08	
5,733.00	0.20	280.10	5,731.31	-94.37	-93.81	61.84	112.36	146.61	692,252.19	782,485.84	
5,826.00	0.30	263.70	5,824.31	-94.37	-93.81	61.43	112.14	146.78	692,252.19	782,485.43	
5,919.00	0.10	265.00	5,917.31	-94.40	-93.85	61.11	111.99	146.93	692,252.15	782,485.11	
6,012.00	0.30	269.00	6,010.31	-94.41	-93.86	60.79	111.82	147.07	692,252.14	782,484.79	
6,106.00	0.30	288.10	6,104.31	-94.33	-93.79	60.31	111.50	147.26	692,252.21	782,484.31	
6,199.00	0.60	285.10	6,197.31	-94.12	-93.58	59.60	110.95	147.51	692,252.42	782,483.60	
6,293.00	0.70	275.00	6,291.30	-93.93	-93.40	58.56	110.24	147.92	692,252.60	782,482.56	
6,386.00	0.80	271.00	6,384.29	-93.86	-93.34	57.34	109.55	148.44	692,252.66	782,481.34	
6,480.00	1.00	273.60	6,478.28	-93.78	-93.28	55.87	108.73	149.08	692,252.72	782,479.87	
6,573.00	0.30	8.70	6,571.28	-93.49	-92.99	55.09	108.09	149.35	692,253.01	782,479.09	
6,666.00	0.80	56.90	6,664.27	-92.90	-92.39	55.68	107.87	148.93	692,253.61	782,479.68	
6,759.00	0.70	45.00	6,757.26	-92.15	-91.64	56.62	107.72	148.29	692,254.36	782,480.62	
6,853.00	0.70	20.80	6,851.26	-91.21	-90.69	57.23	107.24	147.75	692,255.31	782,481.23	
6,946.00	1.60	79.00	6,944.24	-90.45	-89.92	58.71	107.38	146.86	692,256.08	782,482.71	
7,039.00	2.10	80.20	7,037.19	-89.93	-89.38	61.66	108.58	145.40	692,256.62	782,485.66	
7,132.00	1.80	77.60	7,130.14	-89.36	-88.77	64.77	109.89	143.89	692,257.23	782,488.77	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Northeast Kernitz
Well: No. 233H
Wellbore: ST01
Design: MWD-7279-12448', Proj. 12600'

Local Co-ordinate Reference: Well No. 233H
TVD Reference: Well @ 4112.50usft
MD Reference: Well @ 4112.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)		TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
7,225.00		1.70	78.00	7,223.09	-88.78	-88.17	67.54	111.07	142.55	692,257.83	782,491.54
7,279.00		1.00	74.60	7,277.08	-88.50	-87.88	68.78	111.60	141.95	692,258.12	782,492.78
Pro MWD First ST01 Survey: 7279' MD											
7,316.00		0.50	307.10	7,314.08	-88.32	-87.70	68.96	111.57	141.82	692,258.30	782,492.96
7,331.00		1.00	296.00	7,329.08	-88.22	-87.60	68.79	111.38	141.86	692,258.40	782,492.79
7,412.00		1.80	293.80	7,410.05	-87.38	-86.78	66.99	109.63	142.33	692,259.22	782,490.99
7,505.00		3.00	257.40	7,502.97	-87.29	-86.72	63.28	107.35	143.88	692,259.28	782,487.28
7,598.00		4.40	250.40	7,595.78	-88.97	-88.45	57.55	105.52	146.95	692,257.55	782,481.55
7,692.00		3.60	236.50	7,689.55	-91.75	-91.29	51.69	104.90	150.48	692,254.71	782,475.69
7,785.00		3.50	218.80	7,782.37	-95.54	-95.11	47.47	106.30	153.47	692,250.89	782,471.47
7,879.00		3.20	198.90	7,876.22	-100.23	-99.83	44.83	109.43	155.82	692,246.17	782,468.83
7,972.00		3.00	154.40	7,969.09	-104.88	-104.48	45.04	113.77	156.68	692,241.52	782,469.04
8,066.00		2.80	136.40	8,062.97	-108.79	-108.36	47.68	118.39	156.25	692,237.64	782,471.68
8,159.00		2.20	138.00	8,155.89	-111.79	-111.33	50.44	122.23	155.63	692,234.67	782,474.44
8,253.00		2.10	136.00	8,249.82	-114.39	-113.91	52.85	125.57	155.11	692,232.09	782,476.85
8,346.00		1.50	89.60	8,342.78	-115.63	-115.13	55.25	127.70	154.36	692,230.87	782,479.25
8,440.00		1.50	77.50	8,436.75	-115.37	-114.86	57.68	128.53	153.33	692,231.14	782,481.68
8,533.00		0.30	23.30	8,529.73	-114.90	-114.37	58.96	128.67	152.73	692,231.63	782,482.96
8,626.00		0.90	303.90	8,622.73	-114.26	-113.74	58.45	127.88	152.80	692,232.26	782,482.45
8,720.00		0.70	313.30	8,716.72	-113.45	-112.93	57.42	126.69	153.05	692,233.07	782,481.42
8,813.00		0.90	308.20	8,809.71	-112.60	-112.09	56.44	125.50	153.28	692,233.91	782,480.44
8,907.00		0.80	307.80	8,903.70	-111.73	-111.23	55.34	124.24	153.55	692,234.77	782,479.34
9,000.00		0.30	52.80	8,996.70	-111.18	-110.69	55.02	123.61	153.57	692,235.31	782,479.02
9,094.00		1.50	97.20	9,090.68	-111.20	-110.69	56.44	124.25	152.99	692,235.31	782,480.44
9,187.00		2.00	109.90	9,183.64	-111.93	-111.40	59.17	126.14	152.02	692,234.60	782,483.17
9,280.00		1.50	108.80	9,276.60	-112.90	-112.34	61.85	128.24	151.17	692,233.66	782,485.85
9,373.00		1.10	106.90	9,369.57	-113.57	-112.99	63.85	129.79	150.53	692,233.01	782,487.85



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Northeast Kernitz
Well: No. 233H
Wellbore: ST01
Design: MWD-7279-12448', Proj. 12600'

Local Co-ordinate Reference: Well No. 233H
TVD Reference: Well @ 4112.50usft
MD Reference: Well @ 4112.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
9,466.00	1.10	124.60	9,462.56	-114.35	-113.76	65.44	131.24	150.09	692,232.24	782,489.44
9,559.00	1.10	131.60	9,555.54	-115.46	-114.86	66.85	132.89	149.80	692,231.14	782,490.85
9,652.00	0.90	138.70	9,648.52	-116.61	-116.00	67.99	134.46	149.62	692,230.00	782,491.99
9,745.00	2.00	94.30	9,741.50	-117.30	-116.67	70.10	136.11	149.00	692,229.33	782,494.10
9,838.00	2.50	90.80	9,834.42	-117.49	-116.82	73.74	138.15	147.74	692,229.18	782,497.74
9,931.00	2.70	54.30	9,927.33	-116.27	-115.57	77.55	139.18	146.14	692,230.43	782,501.55
10,024.00	3.00	40.80	10,020.22	-113.18	-112.45	80.92	138.54	144.26	692,233.55	782,504.92
10,117.00	2.80	38.20	10,113.10	-109.58	-108.82	83.91	137.42	142.36	692,237.18	782,507.91
10,210.00	2.50	31.70	10,206.00	-106.09	-105.31	86.38	136.21	140.64	692,240.69	782,510.38
10,303.00	0.80	327.40	10,298.97	-103.83	-103.04	87.10	134.92	139.79	692,242.96	782,511.10
10,396.00	1.10	297.10	10,391.95	-102.86	-102.09	85.95	133.45	139.90	692,243.91	782,509.95
10,490.00	1.20	287.60	10,485.93	-102.14	-101.38	84.21	131.79	140.28	692,244.62	782,508.21
10,583.00	1.20	287.20	10,578.91	-101.54	-100.79	82.36	130.16	140.75	692,245.21	782,506.36
10,676.00	1.50	246.30	10,671.89	-101.72	-101.00	80.31	129.03	141.51	692,245.00	782,504.31
10,769.00	0.80	213.40	10,764.87	-102.74	-102.03	78.84	128.94	142.31	692,243.97	782,502.84
10,862.00	1.30	15.40	10,857.87	-102.26	-101.55	78.76	128.52	142.20	692,244.45	782,502.76
10,928.00	1.50	20.90	10,923.85	-100.74	-100.02	79.27	127.62	141.60	692,245.98	782,503.27
10,955.00	1.50	20.90	10,950.84	-100.08	-99.36	79.52	127.27	141.33	692,246.64	782,503.52
11,048.00	1.20	25.70	11,043.81	-98.07	-97.35	80.38	126.24	140.45	692,248.65	782,504.38
11,142.00	1.00	26.30	11,137.79	-96.46	-95.73	81.17	125.51	139.71	692,250.27	782,505.17
11,236.00	1.00	29.20	11,231.78	-95.01	-94.27	81.93	124.90	139.01	692,251.73	782,505.93
11,421.00	1.00	275.50	11,416.76	-93.44	-92.71	81.11	123.18	138.82	692,253.29	782,505.11
11,514.00	0.20	166.00	11,509.76	-93.52	-92.79	80.34	122.74	139.11	692,253.21	782,504.34
11,608.00	0.90	200.90	11,603.75	-94.36	-93.64	80.12	123.24	139.45	692,252.36	782,504.12
11,701.00	1.30	203.00	11,696.74	-96.01	-95.29	79.45	124.07	140.18	692,250.71	782,503.45
11,794.00	1.80	211.80	11,789.70	-98.21	-97.51	78.26	125.03	141.25	692,248.49	782,502.26
11,887.00	1.90	211.70	11,882.65	-100.75	-100.06	76.68	126.06	142.53	692,245.94	782,500.68



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Northeast Kemnitz
Well: No. 233H
Wellbore: ST01
Design: MWD-7279-12448', Proj. 12600'

Local Co-ordinate Reference: Well No. 233H
TVD Reference: Well @ 4112.50usft
MD Reference: Well @ 4112.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
11,981.00	1.90	208.10	11,976.60	-103.44	-102.76	75.13	127.30	143.83	692,243.24	782,499.13
12,074.00	1.90	203.60	12,069.55	-106.20	-105.53	73.79	128.77	145.04	692,240.47	782,497.79
12,168.00	0.80	208.60	12,163.52	-108.19	-107.54	72.85	129.89	145.88	692,238.46	782,496.85
12,261.00	0.60	203.20	12,256.52	-109.21	-108.55	72.35	130.45	146.32	692,237.45	782,496.35
12,354.00	1.00	200.20	12,349.51	-110.41	-109.76	71.88	131.20	146.78	692,236.24	782,495.88
12,448.00	1.30	206.60	12,443.49	-112.13	-111.49	71.11	132.24	147.47	692,234.51	782,495.11
Last Survey: 12448' MD										
12,600.00	1.30	206.60	12,595.45	-115.20	-114.57	69.57	134.04	148.73	692,231.43	782,493.57
PTB: 12600' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,279.00	7,277.08	-87.88	68.78	Pro MWD First ST01 Survey: 7279' MD
12,448.00	12,443.49	-111.49	71.11	Last Survey: 12448' MD
12,600.00	12,595.45	-114.57	69.57	PTB: 12600' MD