



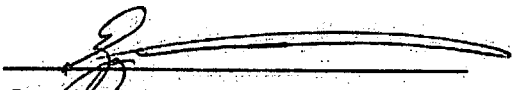
NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 12 2019

RECEIVED

30-015-45034

I Gregg Wilson certify that I am employed by VES Survey International. That I did on the day(s) of 12/07/18 through 12/07/18 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 410.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of Matador Resources for the Rustler Breaks SWD Well # 006 API # 30-015-45034 in Eddy County / Parish New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by VES Survey International.


Gregg Wilson
Service Technician
VES Survey International

SURVEY DATA CERTIFICATION



PHOENIX
TECHNOLOGY SERVICES

Job #: 63977
Client: Matador
County & State: Eddy County, NM
Well: Rustler Breaks SWD 6
API No: 30-015-45034
Proposed Direction: zero

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
401.00 ft	400.97 ft	1.19	32.14	1.89	4.06	Gyro
Data Source Company:						

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
12-Dec-18	504 ft	1.81°	39.45°

Last Survey Date	Last Survey Depth	INC	AZM
22-Jan-19	14,828 ft	4.10°	309.26°

Survey Instrument Type

Phoenix P-360 MWD

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
22-Jan-19	14,886 ft	4.10°	309.26°

CORRECTION INFORMATION

Magnetic Declination Used	7.18 degrees
Grid Convergence Used	0.12 degrees
Total Correction	7.06 degrees

Corrected to True/Grid North

Grid North

TO THE BEST OF MY KNOWLEDGE, I
CERTIFY THIS SURVEY DATA TO BE TRUE
AND CORRECT.

Todd V. G. 22 1/22/2019
MWD Coordinator Signature Date

RECEIVED

FEB 12 2019

DISTRICT II-ARTESIA O.C.D.

Matador Resources

Eddy County, NM (NAD83)

Rustler Breaks SWD

6

OH / 63977

Survey: Phoenix MWD Surveys

Standard Survey Report

23 January, 2019

Survey Report

Company: Matador Resources
Project: Eddy County, NM (NAD83)
Site: Rustler Breaks SWD
Well: 6
Wellbore: OH / 63977
Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well 6
TVD Reference: RKB @ 3079.50usft (Patterson 297)
MD Reference: RKB @ 3079.50usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA Compass

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

System Datum: Mean Sea Level

Site Rustler Breaks SWD

Site Position:
From: Lat/Long
Position Uncertainty: 0.00 usft
Northing: 453,782.56 usft
Easting: 610,931.54 usft
Slot Radius: 13-3/16 "
Latitude: 32° 14' 50.36388 N
Longitude: 104° 6' 29.59812 W
Grid Convergence: 0.12 °

Well 6
Well Position +N/-S 0.00 usft
Well Position +E/-W 0.00 usft
Position Uncertainty 0.00 usft
Wellhead Elevation: usft
Latitude: 32° 14' 50.36388 N
Longitude: 104° 6' 29.59812 W
Ground Level: 3,051.00 usft

Wellbore OH / 63977

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	12/30/2018	7.18	60.01	47,934.95478393

Design Surveys (Patterson 297)

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	65.05

Survey Program Date 1/23/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
54.50	401.00	VES Gyro Surveys (OH / 63977)	NS-GYRO-MS	North sensing gyrocompassing m/s
504.00	14,886.00	Phoenix MWD Surveys (OH / 63977)	MWD+HDGM	OWSG Rev.2 MWD + HDGM

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)
401.00	1.19	32.14	400.97	1.89	4.06	4.48	0.00	0.00	0.00
Tie In									
504.00	1.81	39.45	503.93	4.05	5.66	6.84	0.63	0.60	7.10
First Phoenix MWD Survey									
595.00	1.58	41.55	594.89	6.10	7.41	9.29	0.26	-0.25	2.31
685.00	1.40	75.30	684.86	7.30	9.29	11.51	0.98	-0.20	37.50
777.00	1.32	43.92	776.84	8.35	11.12	13.60	0.80	-0.09	-34.11
868.00	1.12	39.71	867.82	9.79	12.41	15.38	0.24	-0.22	-4.63
958.00	1.21	38.83	957.80	11.21	13.57	17.03	0.10	0.10	-0.98

Survey Report

Company: Matador Resources
Project: Eddy County, NM (NAD83)
Site: Rustler Breaks SWD
Well: 6
Wellbore: OH / 63977
Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well 6
TVD Reference: RKB @ 3079.50usft (Patterson 297)
MD Reference: RKB @ 3079.50usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA Compass

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)
1,048.00	1.17	36.79	1,047.78	12.68	14.72	18.69	0.06	-0.04	-2.27
1,138.00	1.09	40.09	1,137.76	14.07	15.82	20.28	0.11	-0.09	3.67
1,229.00	0.96	42.68	1,228.75	15.30	16.89	21.77	0.15	-0.14	2.85
1,320.00	0.92	38.05	1,319.74	16.43	17.86	23.12	0.09	-0.04	-5.09
1,414.00	0.84	46.81	1,413.73	17.50	18.83	24.45	0.17	-0.09	9.32
1,507.00	0.90	37.70	1,506.71	18.54	19.77	25.75	0.16	0.06	-9.80
1,601.00	0.64	35.08	1,600.71	19.56	20.52	26.86	0.28	-0.28	-2.79
1,695.00	0.51	45.30	1,694.70	20.28	21.12	27.71	0.18	-0.14	10.87
1,788.00	0.50	68.15	1,787.70	20.72	21.79	28.50	0.22	-0.01	24.57
1,882.00	0.74	78.56	1,881.69	21.00	22.77	29.50	0.28	0.26	11.07
1,975.00	0.87	80.09	1,974.68	21.24	24.05	30.77	0.14	0.14	1.65
2,069.00	1.12	96.59	2,068.67	21.25	25.67	32.24	0.40	0.27	17.55
2,162.00	1.45	106.97	2,161.65	20.81	27.70	33.89	0.43	0.35	11.16
2,256.00	2.19	112.19	2,255.60	19.78	30.50	35.99	0.81	0.79	5.55
2,349.00	2.16	112.28	2,348.53	18.45	33.76	38.39	0.03	-0.03	0.10
2,442.00	1.70	111.52	2,441.48	17.27	36.67	40.53	0.50	-0.49	-0.82
2,536.00	1.49	115.90	2,535.44	16.23	39.07	42.27	0.26	-0.22	4.66
2,631.00	1.36	113.61	2,630.41	15.24	41.21	43.79	0.15	-0.14	-2.41
2,724.00	1.51	97.67	2,723.38	14.63	43.44	45.55	0.46	0.16	-17.14
2,817.00	1.20	103.40	2,816.36	14.24	45.60	47.35	0.36	-0.33	6.16
2,911.00	1.26	105.74	2,910.34	13.74	47.55	48.91	0.08	0.06	2.49
3,099.00	1.32	97.29	3,098.29	12.90	51.69	52.31	0.11	0.03	-4.49
3,192.00	1.16	103.81	3,191.27	12.54	53.66	53.95	0.23	-0.17	7.01
3,286.00	1.44	97.16	3,285.24	12.16	55.76	55.69	0.34	0.30	-7.07
3,379.00	1.03	109.13	3,378.22	11.75	57.71	57.28	0.52	-0.44	12.87
3,473.00	0.90	105.56	3,472.21	11.27	59.22	58.45	0.15	-0.14	-3.80
3,566.00	0.75	111.74	3,565.20	10.85	60.49	59.42	0.19	-0.16	6.65
3,660.00	0.87	98.14	3,659.19	10.52	61.76	60.44	0.24	0.13	-14.47
3,753.00	0.57	108.43	3,752.18	10.27	62.90	61.37	0.35	-0.32	11.06
3,845.00	0.74	98.40	3,844.17	10.04	63.92	62.20	0.22	0.18	-10.90
3,936.00	0.67	119.16	3,935.17	9.70	64.97	63.00	0.29	-0.08	22.81
4,123.00	0.63	120.37	4,122.16	8.64	66.81	64.22	0.02	-0.02	0.65
4,216.00	0.72	93.93	4,215.15	8.35	67.84	65.03	0.35	0.10	-28.43
4,310.00	0.53	110.80	4,309.14	8.15	68.83	65.85	0.28	-0.20	17.95
4,403.00	0.42	108.63	4,402.14	7.89	69.56	66.39	0.12	-0.12	-2.33
4,497.00	0.44	118.83	4,496.14	7.61	70.20	66.86	0.08	0.02	10.85
4,589.00	0.30	141.15	4,588.14	7.25	70.66	67.12	0.22	-0.15	24.26
4,682.00	0.12	121.47	4,681.14	7.01	70.90	67.24	0.21	-0.19	-21.16
4,776.00	0.06	201.21	4,775.14	6.91	70.96	67.26	0.13	-0.06	84.83
4,963.00	0.18	220.25	4,962.14	6.59	70.74	66.92	0.07	0.06	10.18
5,057.00	0.38	258.23	5,056.13	6.42	70.34	66.48	0.28	0.21	40.40
5,244.00	0.57	280.81	5,243.13	6.47	68.82	65.12	0.14	0.10	12.07
5,432.00	0.67	266.07	5,431.12	6.57	66.80	63.34	0.10	0.05	-7.84

Survey Report

Company: Matador Resources
Project: Eddy County, NM (NAD83)
Site: Rustler Breaks SWD
Well: 6
Wellbore: OH / 63977
Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well 6
TVD Reference: RKB @ 3079.50usft (Patterson 297)
MD Reference: RKB @ 3079.50usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA Compass

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)
5,619.00	0.66	265.77	5,618.10	6.41	64.64	61.31	0.01	-0.01	-0.16
5,711.00	0.93	272.44	5,710.10	6.40	63.36	60.15	0.31	0.29	7.25
5,804.00	0.94	261.70	5,803.08	6.33	61.85	58.75	0.19	0.01	-11.55
5,897.00	1.06	262.63	5,896.07	6.11	60.24	57.20	0.13	0.13	1.00
5,989.00	1.08	257.94	5,988.05	5.82	58.55	55.54	0.10	0.02	-5.10
6,082.00	1.37	261.95	6,081.03	5.48	56.59	53.62	0.32	0.31	4.31
6,175.00	1.82	262.04	6,174.00	5.12	54.03	51.15	0.48	0.48	0.10
6,269.00	2.18	263.73	6,267.94	4.71	50.78	48.03	0.39	0.38	1.80
6,363.00	2.07	248.23	6,361.87	3.89	47.42	44.64	0.62	-0.12	-16.49
6,457.00	2.13	245.21	6,455.81	2.53	44.26	41.20	0.13	0.06	-3.21
6,550.00	2.34	240.98	6,548.74	0.88	41.03	37.57	0.29	0.23	-4.55
6,644.00	2.09	243.70	6,642.67	-0.81	37.82	33.95	0.29	-0.27	2.89
6,736.00	1.86	256.45	6,734.62	-1.90	34.86	30.81	0.54	-0.25	13.86
6,829.00	1.78	254.15	6,827.57	-2.65	32.00	27.90	0.12	-0.09	-2.47
6,923.00	1.69	258.60	6,921.53	-3.32	29.24	25.11	0.17	-0.10	4.73
7,016.00	1.45	254.19	7,014.49	-3.91	26.76	22.62	0.29	-0.26	-4.74
7,110.00	1.40	247.91	7,108.46	-4.67	24.56	20.29	0.17	-0.05	-6.68
7,203.00	1.28	244.98	7,201.44	-5.54	22.56	18.12	0.15	-0.13	-3.15
7,297.00	1.38	246.39	7,295.41	-6.43	20.57	15.94	0.11	0.11	1.50
7,390.00	1.27	254.44	7,388.39	-7.16	18.55	13.80	0.23	-0.12	8.66
7,484.00	1.40	241.57	7,482.36	-7.98	16.54	11.63	0.35	0.14	-13.69
7,578.00	1.50	232.30	7,576.33	-9.28	14.56	9.28	0.27	0.11	-9.86
7,665.00	1.42	248.10	7,663.27	-11.64	10.47	4.58	0.22	-0.04	8.45
7,859.00	1.58	236.12	7,857.24	-12.80	8.31	2.14	0.37	0.17	-12.74
7,952.00	1.48	247.29	7,950.21	-13.98	6.14	-0.33	0.34	-0.11	12.01
8,045.00	1.55	244.48	8,043.17	-14.99	3.90	-2.79	0.11	0.08	-3.02
8,139.00	1.68	243.65	8,137.14	-16.14	1.52	-5.43	0.14	0.14	-0.88
8,233.00	1.85	237.23	8,231.09	-17.58	-0.99	-8.31	0.28	0.18	-6.83
8,326.00	1.95	238.52	8,324.04	-19.22	-3.61	-11.37	0.12	0.11	1.39
8,420.00	1.54	224.69	8,418.00	-20.95	-5.86	-14.15	0.62	-0.44	-14.71
8,514.00	1.55	222.90	8,511.96	-22.78	-7.61	-16.51	0.05	0.01	-1.90
8,608.00	1.30	214.28	8,605.93	-24.59	-9.08	-18.60	0.35	-0.27	-9.17
8,702.00	1.09	204.16	8,699.91	-26.29	-10.04	-20.19	0.32	-0.22	-10.77
8,795.00	1.17	206.12	8,792.90	-27.95	-10.82	-21.60	0.10	0.09	2.11
8,889.00	1.18	211.32	8,886.88	-29.64	-11.75	-23.15	0.11	0.01	5.53
8,983.00	1.25	207.91	8,980.85	-31.37	-12.73	-24.78	0.11	0.07	-3.63
9,076.00	1.23	208.80	9,073.83	-33.14	-13.69	-26.39	0.03	-0.02	0.96
9,170.00	1.23	211.34	9,167.81	-34.89	-14.70	-28.04	0.06	0.00	2.70
9,264.00	1.43	203.67	9,261.79	-36.82	-15.69	-29.76	0.28	0.21	-8.16
9,357.00	1.54	205.41	9,354.75	-39.01	-16.70	-31.59	0.13	0.12	1.87
9,451.00	1.62	211.87	9,448.72	-41.28	-17.94	-33.68	0.21	0.09	6.87
9,638.00	2.01	215.36	9,635.62	-46.20	-21.23	-38.74	0.22	0.21	1.87
9,732.00	2.23	213.72	9,729.56	-49.07	-23.20	-41.73	0.24	0.23	-1.74
9,825.00	2.42	220.56	9,822.48	-52.06	-25.48	-45.07	0.36	0.20	7.35

Survey Report

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Site: Rustler Breaks SWD
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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)
9,919.00	2.50	222.20	9,916.40	-55.09	-28.15	-48.76	0.11	0.09	1.74
10,012.00	2.77	219.96	10,009.30	-58.32	-30.96	-52.67	0.31	0.29	-2.41
10,106.00	2.86	223.99	10,103.19	-61.74	-34.04	-56.91	0.23	0.10	4.29
10,199.00	3.11	225.83	10,196.06	-65.17	-37.47	-61.46	0.29	0.27	1.98
10,293.00	3.29	228.61	10,289.91	-68.73	-41.32	-66.45	0.25	0.19	2.96
10,333.00	3.43	227.12	10,329.84	-70.30	-43.06	-68.69	0.41	0.35	-3.73
10,483.00	3.51	228.42	10,479.57	-76.41	-49.78	-77.36	0.07	0.05	0.87
10,577.00	2.66	239.54	10,573.43	-79.42	-53.81	-82.29	1.10	-0.90	11.83
10,670.00	2.63	243.01	10,666.33	-81.48	-57.57	-86.57	0.18	-0.03	3.73
10,764.00	2.55	245.53	10,760.24	-83.33	-61.40	-90.82	0.15	-0.09	2.68
10,857.00	2.42	259.59	10,853.15	-84.54	-65.21	-94.79	0.67	-0.14	15.12
10,951.00	2.84	266.43	10,947.05	-85.04	-69.49	-98.88	0.56	0.45	7.28
11,044.00	2.20	257.15	11,039.96	-85.58	-73.53	-102.77	0.81	-0.69	-9.98
11,138.00	1.96	248.92	11,133.90	-86.56	-76.79	-106.13	0.41	-0.26	-8.76
11,231.00	1.63	261.06	11,226.85	-87.34	-79.58	-108.99	0.54	-0.35	13.05
11,325.00	1.52	266.33	11,320.82	-87.63	-82.14	-111.44	0.19	-0.12	5.61
11,419.00	1.45	259.20	11,414.79	-87.93	-84.56	-113.75	0.21	-0.07	-7.59
11,513.00	1.15	268.80	11,508.76	-88.17	-86.67	-115.77	0.39	-0.32	10.21
11,606.00	1.26	278.81	11,601.74	-88.04	-88.61	-117.48	0.25	0.12	10.76
11,700.00	1.36	285.26	11,695.72	-87.58	-90.71	-119.19	0.19	0.11	6.86
11,793.00	0.99	272.89	11,788.70	-87.25	-92.57	-120.74	0.48	-0.40	-13.30
11,887.00	1.41	320.46	11,882.68	-86.32	-94.12	-121.75	1.11	0.45	50.61
11,980.00	1.60	318.93	11,975.65	-84.46	-95.70	-122.40	0.21	0.20	-1.65
12,074.00	1.34	306.32	12,069.62	-82.82	-97.45	-123.29	0.44	-0.28	-13.41
12,168.00	0.95	315.03	12,163.60	-81.62	-98.89	-124.09	0.45	-0.41	9.27
12,261.00	0.89	303.85	12,256.59	-80.67	-100.03	-124.72	0.20	-0.06	-12.02
12,355.00	0.90	281.89	12,350.58	-80.11	-101.36	-125.69	0.36	0.01	-23.36
12,448.00	1.04	276.35	12,443.56	-79.87	-102.91	-127.00	0.18	0.15	-5.96
12,542.00	1.28	276.18	12,537.54	-79.66	-104.81	-128.63	0.26	0.26	-0.18
12,635.00	1.60	286.16	12,630.51	-79.19	-107.09	-130.49	0.44	0.34	10.73
12,729.00	1.90	270.38	12,724.47	-78.81	-109.90	-132.89	0.60	0.32	-16.79
12,822.00	2.09	263.56	12,817.41	-78.99	-113.13	-135.89	0.33	0.20	-7.33
12,916.00	1.95	248.15	12,911.36	-79.78	-116.32	-139.12	0.59	-0.15	-16.39
13,009.00	2.31	246.62	13,004.29	-81.11	-119.51	-142.57	0.39	0.39	-1.65
13,102.00	2.46	250.58	13,097.21	-82.52	-123.11	-146.43	0.24	0.16	4.26
13,196.00	2.83	252.46	13,191.11	-83.89	-127.23	-150.74	0.40	0.39	2.00
13,289.00	2.96	251.13	13,283.99	-85.36	-131.69	-155.40	0.16	0.14	-1.43
13,383.00	3.15	263.66	13,377.86	-86.43	-136.55	-160.26	0.74	0.20	13.33
13,476.00	3.14	261.34	13,470.72	-87.09	-141.61	-165.13	0.14	-0.01	-2.49
13,570.00	3.15	264.44	13,564.58	-87.73	-146.72	-170.04	0.18	0.01	3.30
13,664.00	3.53	271.66	13,658.42	-87.90	-152.19	-175.06	0.60	0.40	7.68
13,758.00	4.63	282.97	13,752.18	-86.96	-158.78	-180.64	1.44	1.17	12.03
13,788.00	4.84	286.07	13,782.08	-86.34	-161.17	-182.55	1.10	0.70	10.33

Survey Report

Company: Matador Resources
Project: Eddy County, NM (NAD83)
Site: Rustler Breaks SWD
Well: 6
Wellbore: OH / 63977
Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well 6
TVD Reference: RKB @ 3079.50usft (Patterson 297)
MD Reference: RKB @ 3079.50usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA Compass

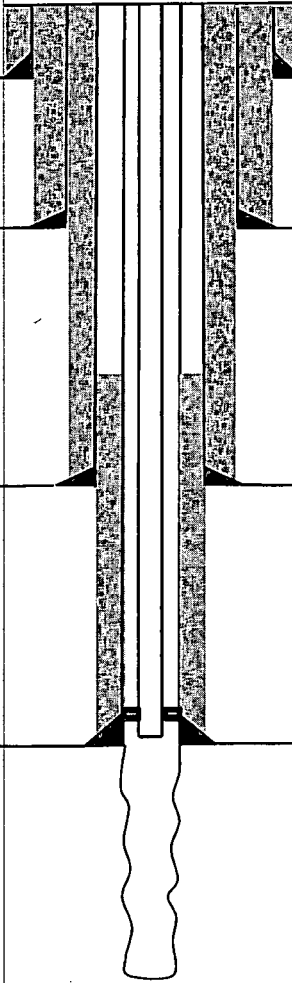
Survey

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)
13,885.00	5.09	307.12	13,878.72	-82.61	-168.54	-187.66	1.88	0.26	21.70
13,979.00	4.90	308.58	13,972.37	-77.59	-175.00	-191.40	0.24	-0.20	1.55
14,074.00	5.09	308.65	14,067.00	-72.43	-181.46	-195.08	0.20	0.20	0.07
14,168.00	4.74	313.21	14,160.66	-67.16	-187.55	-198.38	0.56	-0.37	4.85
14,262.00	4.37	320.01	14,254.36	-61.76	-192.68	-200.75	0.70	-0.39	7.23
14,356.00	3.57	318.60	14,348.14	-56.82	-196.92	-202.51	0.86	-0.85	-1.50
14,450.00	3.44	318.00	14,441.96	-52.53	-200.74	-204.17	0.14	-0.14	-0.64
14,544.00	3.12	320.31	14,535.81	-48.47	-204.26	-205.65	0.37	-0.34	2.46
14,639.00	3.33	323.94	14,630.66	-44.25	-207.54	-206.84	0.31	0.22	3.82
14,733.00	3.84	315.19	14,724.47	-39.81	-211.36	-208.43	0.79	0.54	-9.31
14,828.00	4.10	309.26	14,819.24	-35.40	-216.24	-210.99	0.51	0.27	-6.24
Final Phoenix MWD Survey									
14,886.00	4.10	309.26	14,877.10	-32.77	-219.45	-212.79	0.00	0.00	0.00
Projection to TD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
401.00	400.97	1.89	4.06	Tie In
504.00	503.93	4.05	5.66	First Phoenix MWD Survey
14,828.00	14,819.24	-35.40	-216.24	Final Phoenix MWD Survey
14,886.00	14,877.10	-32.78	-219.45	Projection to TD

WELLBORE SCHEMATIC

WELL: Rustler Breaks SWD #6			PROSPECT: Devonian SWD			API No: 30-015-45034	
GL ELEV : 3053' RKB ELEV : 3081.5'			SURFACE LOCATION: 2515' FNL & 2230' FEL Sec. 5, TWP 24-S, RGE 28-E Eddy County, NM				
			CASING DIAGRAM	Depth	Hole	Casing & Cement Details 30" Conductor @ ± 120'	
				410'	26"	Surf. Csg Cmt: TOC: 0' - 89 bbls returned to surface 20", 94#, K-55, BTC	
				18.125' 2,606'		1 st Int. Csg Cmt: TOC: 0' - 65 bbls returned to surface 16", 84#, NT-80DE, BTC	
				14.75' 10,400'		2 nd Int. Csg Cmt: TOC: 0' - 235 bbls returned to surface 10-3/4", 51.0#, P110EC, BTC	
				9.5' 13,847'		Prod Csg Cmt: TOC: 5950 as per CBL ECP @ 9164' 7-5/8", 29.7#, P110EC, BTC, 0-9189' 7-5/8", 33.7#, P110EC, BTC, 9189'-13,847'	
				6.5' 14,886'		Tubing: 5-1/2" 20.0#, P110EC, BTC, Internal Lined 0' - 13,774' Baker Model F 25 Chrome Permanent Packer set @ 13,774'	

Prepared By: JDH - 2/06/19



Company: Matador Resources
Lease/Well: Rustler Breaks SWD/006

Rig Name: Patterson 297
State/County: New Mexico/Eddy
Latitude: 32.25, Longitude: -104.11
GRID North is 0.12 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB= 28 Ft

RECEIVED

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: msgyro_run01-01-de_01.ut

Minimum Curvature Method

Report Date/Time: 12/12/2018 / 09:47

FEB 12 2019

DISTRICT II-ARTESIA O.C.D.

VES Survey International

Midland, Texas

432-563-5444

Surveyor: Gregg Wilson

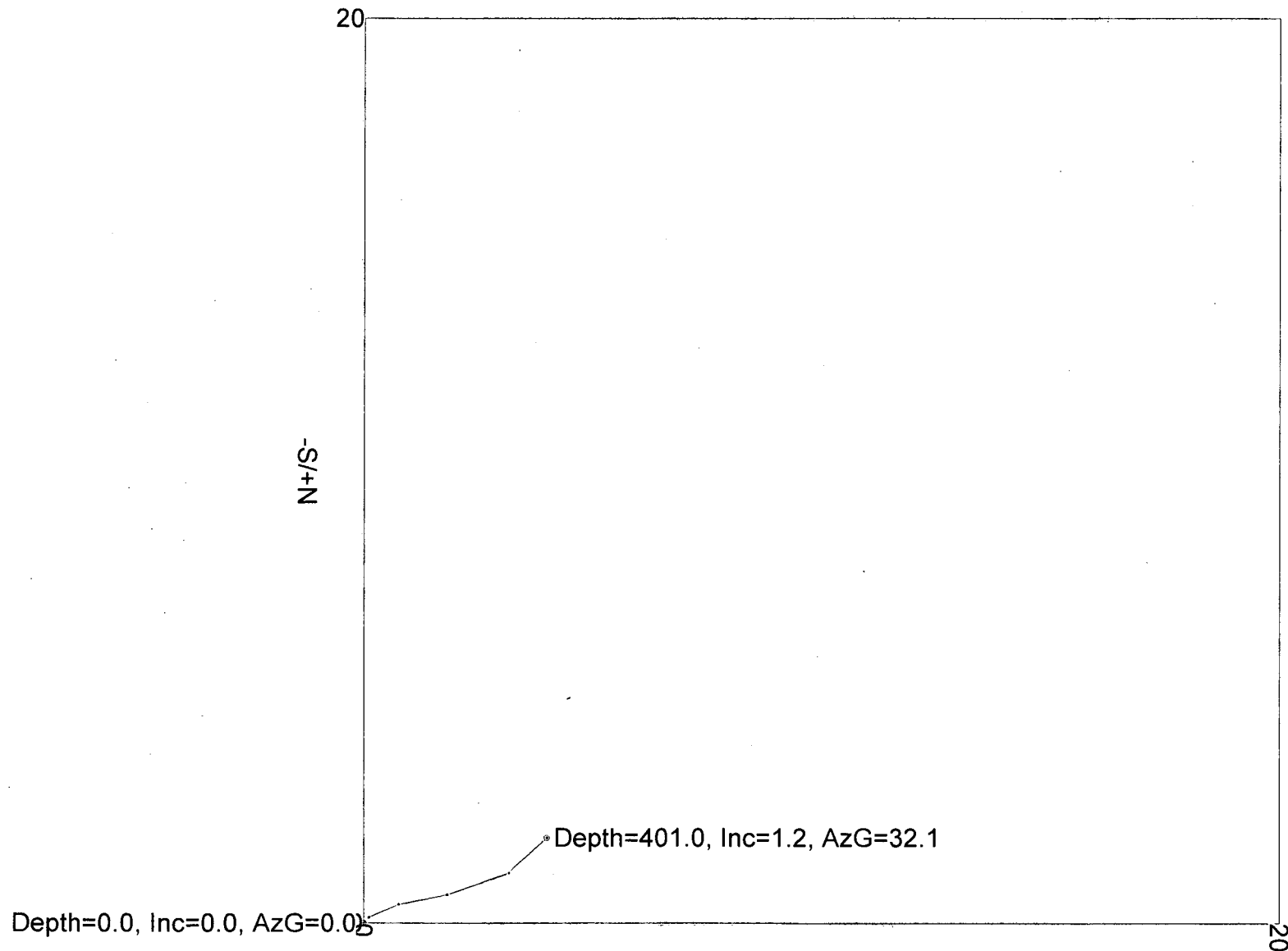
Rustler Breaks SWD 006 / API: 30-015-45034

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
54.50	0.37	43.72	54.50	0.13	0.12	0.13	0.17	43.72	0.67
149.00	0.54	81.81	149.00	0.41	0.77	0.41	0.87	62.11	0.36
243.50	0.78	76.83	243.49	0.62	1.85	0.62	1.95	71.42	0.26
338.00	0.99	65.52	337.98	1.11	3.22	1.11	3.40	71.04	0.28
401.00	1.19	32.14	400.97	1.89	4.06	1.89	4.48	65.09	1.04

HORIZONTAL DISPLACEMENT IS
4.48 FEET AT 65.09 DEGREES



VES Survey International
Midland, Texas
432-563-5444
Surveyor: Gregg Wilson
Rustler Breaks SWD 006 / API: 30-015-45034



VES Survey Date: 12/7/2018