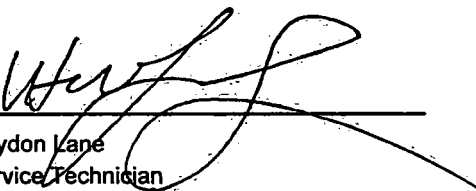




Malaga SWD #5
30-015-44571

I Haydon Lane certify that I am employed by VES Survey International. That I did on the day(s) of 06/19/18 through 06/19/18 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 2,581.40 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 Malaga SWD Well # 5 API # 30-015-44571 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.



Haydon Lane
Service Technician
VES Survey International



Company: MATADOR RESOURCES

Lease/Well: MALAGA SWD/5

30-015-44571

Rig Name: PATTERSON 810

State/County: NEW MEXICO/EDDY

VS-Azi: 0.00 Degrees

Latitude: 32.22978, Longitude: -104.04587

Grid North = True North -0.15 degs (NAD 27)

Grid Correction Applied = -0.15 degs



Depth Reference : RKB = 25 FEET

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: msgyro_run01-01-de_01.ut

Minimum Curvature Method

Report Date/Time: 6/21/2018 / 10:22

VES SURVEY INTERNATIONAL

GARDENDALE, TEXAS

432-563-5444

Surveyor: HAYDON LANE

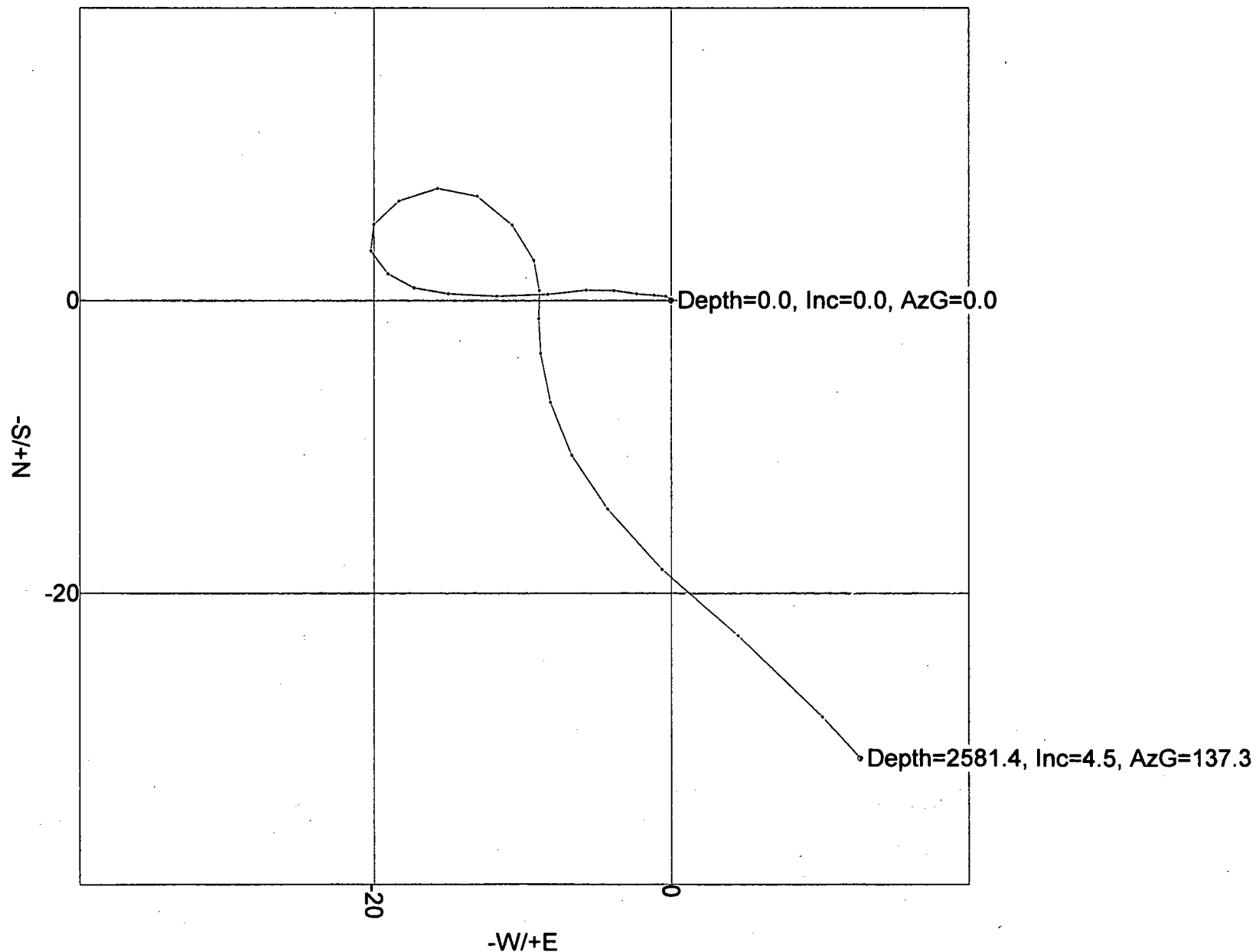
Malaya SWD 5 / API 30-015-44571

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	****
61.76	0.19	343.06	61.76	0.10	-0.03	0.10	0.10	343.06	0.30
156.90	0.36	277.32	156.90	0.28	-0.38	0.28	0.47	307.17	0.35
252.04	0.59	273.87	252.04	0.36	-1.16	0.36	1.22	287.03	0.24
347.18	0.85	275.90	347.17	0.46	-2.35	0.46	2.40	281.11	0.28
442.32	1.01	279.65	442.30	0.67	-3.88	0.67	3.94	279.86	0.18
537.46	1.25	264.25	537.42	0.71	-5.73	0.71	5.78	277.06	0.41
632.60	1.89	263.02	632.52	0.42	-8.33	0.42	8.34	272.86	0.68
727.74	2.25	271.94	727.60	0.29	-11.75	0.29	11.76	271.40	0.51
822.88	1.67	274.27	822.68	0.45	-15.00	0.45	15.01	271.73	0.62
918.02	1.17	288.59	917.79	0.87	-17.30	0.87	17.33	272.87	0.64
1013.16	1.27	307.54	1012.91	1.82	-19.07	1.82	19.15	275.46	0.44
1108.30	1.17	341.34	1108.03	3.39	-20.22	3.39	20.50	279.51	0.75
1203.44	1.23	29.52	1203.15	5.20	-20.02	5.20	20.69	284.55	1.03
1298.58	1.67	59.18	1298.26	6.80	-18.33	6.80	19.55	290.35	0.90
1393.72	1.71	83.90	1393.36	7.66	-15.72	7.66	17.49	295.97	0.76
1488.86	1.70	118.87	1488.46	7.13	-13.07	7.13	14.89	298.60	1.08

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
1584.00	2.04	139.24	1583.55	5.16	-10.72	5.16	11.90	295.69	0.78
1679.14	1.43	162.83	1678.65	2.74	-9.27	2.74	9.66	286.48	0.98
1774.28	1.12	178.81	1773.77	0.68	-8.90	0.68	8.92	274.38	0.49
1869.42	1.19	183.35	1868.89	-1.23	-8.93	-1.23	9.02	262.15	0.13
1964.56	1.68	172.65	1964.00	-3.61	-8.81	-3.61	9.52	247.75	0.59
2059.70	2.42	166.12	2059.08	-6.94	-8.15	-6.94	10.71	229.58	0.81
2154.84	2.30	150.34	2154.14	-10.56	-6.72	-10.56	12.52	212.50	0.69
2249.98	3.03	144.07	2249.17	-14.25	-4.30	-14.25	14.89	196.79	0.82
2345.12	3.64	133.52	2344.15	-18.37	-0.64	-18.37	18.38	181.98	0.91
2440.26	4.62	130.11	2439.04	-22.92	4.48	-22.92	23.35	168.93	1.06
2535.40	5.02	138.60	2533.85	-28.50	10.16	-28.50	30.26	160.38	0.86
2581.40	4.51	137.31	2579.69	-31.34	12.72	-31.34	33.83	157.91	1.12



VES SURVEY INTERNATIONAL
GARDENDALE, TEXAS
432-563-5444
Surveyor: HAYDON LANE
Malaya SWD 5 / API 30-015-44571



VES SURVEY DATE: 6/18/2018