



Company: MATADOR PRODUCTION CO.  
 Lease/Well: STEBBINS 20 FEDERAL No./124H

Rig Name: PATTERSON 809 *30-015-44185*  
 State/County: NEW MEXICO/EDDY  
 VS-Azi: 0.00 Degrees  
 Latitude: 32.55244, Longitude: -104.10567  
 Grid North = True North -0.12 degs (NAD 27)  
 Grid Correction Applied = -0.12 degs



Depth Reference : RKB 28.5'

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: msgyro\_run01-01-de\_01.ut  
 Minimum Curvature Method  
 Report Date/Time: 8/21/2017 / 13:44

VES Survey International  
 West Texas  
 432-563-5444

Surveyor: Dustin Byers  
 Stebbins 20 Federal No. 124H / API 30-015-44185

NIM OIL CONSERVATION  
 ARTESIA DISTRICT  
 FEB 15 2018  
 RECEIVED

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	****
71.22	0.40	140.81	71.22	-0.19	0.16	-0.19	0.25	140.81	0.57
162.76	0.53	129.49	162.76	-0.71	0.69	-0.71	0.99	136.00	0.17
254.30	0.84	136.19	254.29	-1.47	1.48	-1.47	2.08	134.74	0.34
345.84	1.95	145.05	345.80	-3.22	2.83	-3.22	4.29	138.69	1.24
437.38	2.21	147.14	437.28	-5.98	4.68	-5.98	7.59	141.95	0.29
528.92	1.98	149.28	528.76	-8.82	6.45	-8.82	10.93	143.84	0.26
620.46	1.75	155.77	620.25	-11.46	7.83	-11.46	13.88	145.65	0.35
712.00	1.82	159.90	711.75	-14.09	8.90	-14.09	16.67	147.72	0.16

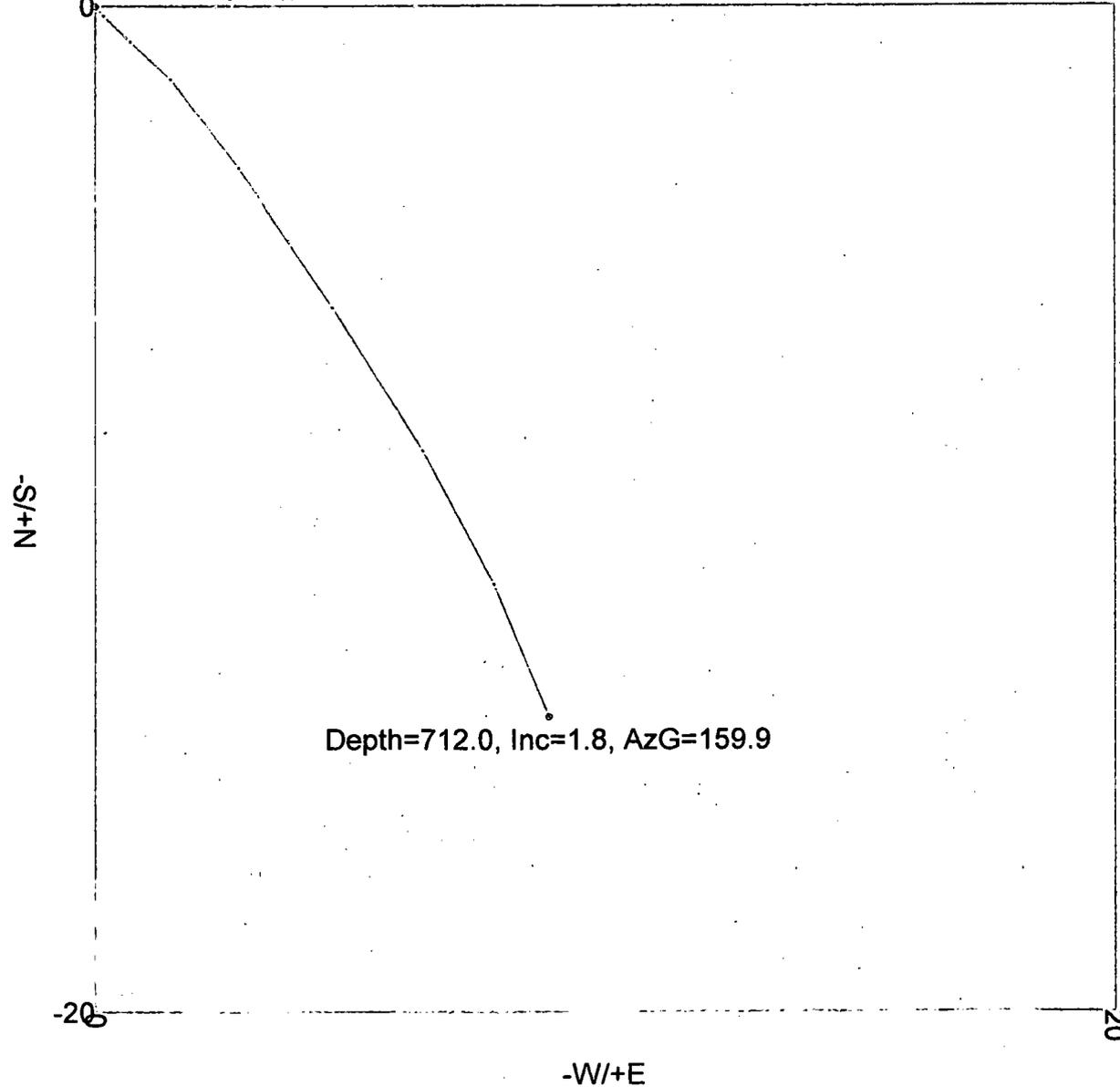
*10/29/18 BT*



VES Survey International  
West Texas  
432-563-5444  
Surveyor: Dustin Byers  
Stebbins 20 Federal No. 124H / API 30-015-44185



Depth=0.0, Inc=0.0, AzG=0.0



Depth=712.0, Inc=1.8, AzG=159.9

-20

20

-W/+E

VES Survey Date: 8/13/2017



I Dustin Byers certify that I am employed by VES Survey International. That I did on the day(s) of 08/13/17 through 08/13/17 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 712.00 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 Production Company for the Stebbins 20 FED Well # 124H API # 30-015-44185 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.

A handwritten signature in black ink, appearing to read "Dustin Byers", is written over a horizontal line.

Dustin Byers  
Service Technician  
VES Survey International



I Dustin Byers certify that I am employed by VES Survey International. That I did on the day(s) of 08/13/17 through 08/13/17 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 712.00 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 Production Company for the Stebbins 20 FED Well # 124H API # 30-015-44185 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.

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Dustin Byers  
Service Technician  
VES Survey International