

VES SURVEY

Matador Production
Guitar 10-24-28 RB 205H
30-015-43993

I Michael Cook certify that I am employed by VES Survey International. That I did on the day(s) of 01/21/17 through 01/21/17 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 2,597.00 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 Guitar 10 24 28 RB Well # 205H API # 30-015-43993 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.



Michael Cook
Service Technician
VES Survey International

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 07 2017

RECEIVED



Company: MATADOR RESOURCES
Lease/Well: GUITAR 10-24-28 RB No./205H

Rig Name: PATTERSON 297
State/Country: NEW MEXICO/EDDY
VS-Azi: 0.00 Degrees

Latitude: 32.23716, Longitude: -104.06611
Grid North = True North -0.14 degs (NAD 83)
Grid Correction Applied = -0.14 degs



Depth Reference : RKB=28.5 FEET

DRILLOG MS GYRO SURVEY CALCULATIONS
Filename: msgyro_run01-02-de_01.ut
Minimum Curvature Method
Report Date/Time: 1/30/2017 / 09:27

VES Survey International
Midland, Texas
432-563-5444

Surveyor: Michael Cook
Guitar 10-24-28 RB No. 205H / API 30-015-43993

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 07 2017

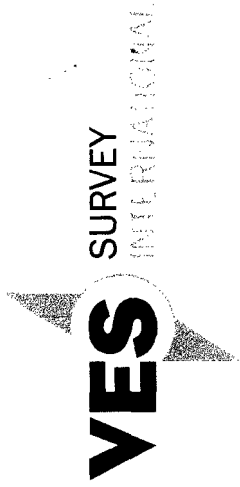
RECEIVED

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	****
69.26	0.54	191.35	69.26	-0.32	-0.06	-0.32	0.32	191.35	0.77
164.05	0.89	185.77	164.04	-1.48	-0.22	-1.48	1.50	188.62	0.38
258.84	0.89	189.01	258.82	-2.94	-0.41	-2.94	2.97	188.01	0.05
353.63	1.61	170.97	353.59	-4.99	-0.32	-4.99	5.00	183.67	0.86
448.42	1.61	153.01	448.34	-7.50	0.49	-7.50	7.51	176.22	0.53
543.21	1.58	123.07	543.09	-9.40	2.20	-9.40	9.65	166.83	0.87
638.00	1.56	111.35	637.85	-10.58	4.50	-10.58	11.50	156.98	0.34
732.79	1.20	93.96	732.61	-11.12	6.68	-11.12	12.97	148.99	0.58
827.58	1.23	57.51	827.38	-10.64	8.53	-10.64	13.64	141.30	0.80
922.37	1.01	49.61	922.15	-9.56	10.02	-9.56	13.85	133.66	0.28
1017.16	0.54	0.92	1016.94	-8.57	10.66	-8.57	13.68	128.80	0.81
1111.95	0.58	91.99	1111.72	-8.14	11.14	-8.14	13.80	126.15	0.84
1206.74	0.69	82.60	1206.51	-8.08	12.19	-8.08	14.63	123.55	0.17
1301.53	0.86	106.37	1301.29	-8.21	13.44	-8.21	15.75	121.42	0.38
1396.32	0.61	149.58	1396.07	-8.85	14.38	-8.85	16.88	121.61	0.62
1491.11	0.39	64.40	1490.86	-9.15	14.93	-9.15	17.51	121.50	0.74

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
1585.90	0.21	30.98	1585.65	-8.86	15.31	-8.86	17.69	120.05	0.26
1680.69	0.28	346.14	1680.44	-8.48	15.35	-8.48	17.53	118.94	0.21
1775.48	0.43	36.19	1775.23	-7.97	15.50	-7.97	17.43	117.22	0.35
1870.27	1.09	32.69	1870.01	-6.93	16.20	-6.93	17.62	113.14	0.70
1965.06	0.89	54.86	1964.78	-5.74	17.29	-5.74	18.22	108.36	0.45
2059.85	0.23	78.10	2059.57	-5.27	18.09	-5.27	18.84	106.25	0.72
2154.64	1.15	65.35	2154.35	-4.83	19.15	-4.83	19.75	104.17	0.98
2249.43	1.62	42.28	2249.11	-3.44	20.92	-3.44	21.20	99.35	0.76
2344.22	1.39	8.61	2343.87	-1.31	21.99	-1.31	22.03	93.41	0.95
2439.01	0.59	338.80	2438.65	0.28	21.99	0.28	21.99	89.26	0.98
2533.80	0.58	325.85	2533.43	1.13	21.55	1.13	21.57	86.99	0.14
2597.00	0.58	295.28	2596.63	1.54	21.08	1.54	21.13	85.83	0.48



VES Survey International
Midland, Texas
432-563-5444
Surveyor: Michael Cook
Guitar 10-24-28 RB No. 205H / API 30-015-43993



20

-S/+N

Depth=0.0, Inc=0.0, AzG=0.0

Depth=2597.0, Inc=0.6, AzG=295.3

0

20

-W/+E

V.E.S. Survey Date: 1/20/2017