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MS Energy Services Survey Data Certification

MS Energy Job Number: DDMO-170927
Survey Type: MWD
Operating Company: Matador Production Company
Well Name & Number: Anne COM 15 24S 28E RB 202H
Location: Eddy County, NM
API Number: 30-015-44417
Tie In Depth: Surface
Surveyed Depths: 200' – 14,230' MD
Projected TD Survey: 14,301' MD
Dates Performed: 09/17/2017 – 11/05/2017

I certify that the data is true, correct and complete and within the limitations of the tool set forth by MS Energy Services; that I am authorized and qualified to make this report and that I have reviewed this report and find it conforms to the principles and procedures as set forth by MS Energy Services.

Digitally signed by: Christopher Morsch
MWD Surveyor Name: Chris Morasch
Date: 12-06-2017
Email: cmorasch@msenergyservices.com



SURVEY CALCULATION PROGRAM

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 19 2017

108 04 02

Company: Matador Production Company

Well Name: Anne COM 15 24S 28E RB 202H

Location: Eddy County, NM

Rig: Patterson #297

Job Number: DDMO-170927

API #: 30-015-44417

Vertical Section Azimuth: 88.99

Survey Calculation Method: Minimum Curvature

PTB: MD 14,301 INC 86.9

Depth Feet Inc Degrees Azm Degrees

TVD Feet N/S Feet

TVD EW Feet Surface Vert Sec

Closure Distance Azm

DLS/ 100 BUR/ 100'

VS 4185.27

Distance 835.86

273.50

273.53

273.57

273.53

273.44

273.36

273.34

273.40

273.47

273.56

273.68

273.86

273.96

274.16

274.65

275.15

275.20

275.04

275.15

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REFERENCED TO RECEIVED



V09.04.02

Company: Matador Production Company

Well Name: Anne COM 15 24S 28E RB 202H

Location: Eddy County, NM

Rig: Patterson #297

Job Number: DDMO-170927

API #: 30-015-44417

Vertical Section Azimuth:

Survey Calculation Method:

PTB: MD 14.301

Depth Feet

#

Magnetic Declination: 7.24

REFERENCED TO GRID NORTH



Proposed Direction: 88.99

Minimum Curvature

INC 86.9

AZM 92.3

TVD Feet

E/W Feet

N/S

Surface Vert Sec

EW PYB:

Distance

Closure Azm

DLS/ BUR/

VS 4185.27

34	6,301	1.30	133.30	6223.80	49.86	-836.82	-835.82	-835.82	838.31	273.41	1.93	-0.64
35	6,488	1.20	114.50	6410.76	47.59	-833.50	-832.53	-832.53	834.86	273.27	0.22	-0.05
36	6,675	0.70	70.80	6597.73	47.16	-830.64	-829.68	-829.68	831.98	273.25	0.45	-0.27
37	6,863	2.70	68.80	6785.64	49.13	-825.43	-824.43	-824.43	826.89	273.41	1.06	1.06
38	7,050	0.50	139.30	6972.56	50.11	-820.79	-819.78	-819.78	822.31	273.49	1.38	-1.18
39	7,143	0.80	100.40	7065.56	49.68	-819.88	-818.88	-818.88	821.39	273.47	0.56	0.32
40	7,236	1.00	116.70	7158.55	49.20	-818.52	-817.52	-817.52	820.00	273.44	0.35	0.22
41	7,330	0.60	115.60	7252.54	48.62	-817.34	-816.36	-816.36	818.79	273.40	0.43	-0.43
42	7,424	0.30	314.50	7346.54	48.58	-817.07	-816.09	-816.09	818.52	273.40	0.95	-0.32
43	7,517	0.20	119.10	7439.54	48.67	-817.11	-816.12	-816.12	818.55	273.41	0.53	-0.11
44	7,611	0.50	152.30	7533.53	48.23	-816.77	-815.80	-815.80	818.19	273.38	0.37	0.32
45	7,705	0.50	189.00	7627.53	47.46	-816.65	-815.68	-815.68	818.02	273.33	0.33	0.00
46	7,798	2.00	195.20	7720.51	45.49	-817.13	-816.21	-816.21	818.40	273.19	1.62	1.61
47	7,892	1.50	139.50	7814.47	42.98	-816.77	-815.88	-815.88	817.90	273.01	1.80	-0.53
48	7,985	2.50	99.30	7907.41	41.72	-813.97	-813.11	-813.11	815.04	272.93	1.79	1.08
49	8,079	1.70	61.90	8001.35	42.05	-810.72	-809.85	-809.85	811.81	272.97	1.64	-0.85
50	8,173	4.00	356.00	8095.25	45.98	-809.72	-808.78	-808.78	811.02	273.25	3.88	2.45
51	8,266	3.20	355.60	8188.07	51.80	-810.14	-809.10	-809.10	811.80	273.66	0.86	-0.86
52	8,360	2.00	353.70	8281.97	56.05	-810.53	-809.41	-809.41	812.46	273.96	1.28	-1.28
53	8,453	2.20	295.60	8374.92	58.43	-812.31	-811.16	-811.16	814.41	274.11	2.20	0.22
54	8,547	2.00	206.80	8468.87	57.75	-814.68	-813.54	-813.54	816.72	274.05	3.13	-0.21
55	8,641	3.10	191.60	8562.78	53.79	-815.93	-814.86	-814.86	817.70	273.77	1.36	1.17
56	8,734	3.20	182.40	8655.64	48.74	-816.55	-815.56	-815.56	818.00	273.42	0.55	0.11
57	8,828	2.70	184.70	8749.51	43.91	-816.84	-815.94	-815.94	818.02	273.08	0.55	-0.53
58	8,857	2.70	189.00	8778.48	42.55	-817.00	-816.12	-816.12	818.11	272.98	0.70	0.00
59	8,949	1.30	133.80	8870.43	39.69	-816.59	-815.76	-815.76	817.55	272.78	2.42	-1.52
60	9,042	7.10	86.60	8963.16	39.30	-810.08	-809.26	-809.26	811.03	272.87	6.76	6.24
61	9,089	14.20	83.00	9009.32	40.18	-801.45	-800.61	-800.61	802.45	272.87	15.17	15.11
62	9,136	20.10	90.80	9054.21	40.77	-787.64	-786.80	-786.80	788.69	272.96	13.45	12.55
63	9,183	25.50	92.70	9097.52	40.18	-769.44	-768.61	-768.61	770.49	272.99	11.59	11.49
64	9,230	30.20	93.00	9139.07	39.08	-747.52	-746.71	-746.71	748.54	272.99	10.00	10.00
65	9,277	34.80	93.40	9178.70	37.67	-722.31	-721.54	-721.54	723.29	272.99	9.80	9.79
66	9,323	39.00	90.60	9215.48	36.74	-694.72	-693.97	-693.97	695.69	273.03	9.83	9.13
67	9,370	42.80	89.00	9251.00	36.86	-663.96	-663.20	-663.20	664.98	273.18	8.39	8.09

V09.04.02

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Vertical Section Azimuth: 88.99

Survey Calculation Method: Minimum Curvature

PTB: MD 14,301 INC 86.9 AZM 92.3

Depth Feet Inc Degrees Azm Degrees TVD Feet N/S Feet

#	Feet	Degrees	Degrees	Feet	Feet	Vert Sec	Distance	Azm	
Depth	INC		AZIM	TVD	N/S	EW	Surface	Closure	DLS/
									BUR/

Magnetic Declination: 7.24 REFERENCED TO GRID NORTH

Proposed Direction: 88.99

V09.04.02

Company:		Matador Production Company									
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Vertical Section Azimuth:		88.99									
Survey Calculation Method:		Minimum Curvature									
PTB:		MD		INC		AZM		TVD		N/S	
		14,301		86.9		92.3		9607.93		56.83	