

Rec'd 6/25/2020 - NMOCD



Rodney Robinson Federal No. 122H Lea County, NM

October 18, 2019

Job No. LNM5532119

DORIGINAL

Certified Report



Survey Certification Letter

Rec'd 6/25/2020 - NMOCD

October 18, 2019



Operator Name:

Matador Resources

Well Name:

Rodney Robinson Federal No. 122H

County/Parish:

Lea County,

State:

NM

Rig Name:

Patterson 809

Job Number:

LNM5532119

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

Surveyor	Surveyed Depths	Projection to Bit	Dates Performed	Type of Survey
ProDirectional	193' MD – 21,047' MD	21,224' MD	09/04/19 - 09/23/19	MWD

Sincerely,

Mike Coats

Regulatory Specialist Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266 prodirectional.com



Matador Resources

Lea County, NM Rodney Robinson Federal

No. 122H OH Survey: ProDirectional

Survey Report

18 October, 2019









Company: Project: Site: Well: Wellbore: Design:	Matador Resources Lea County, NM (NAD83) Rodney Robinson Federal No. 122H OH MWD-193'-21047', PTB: 21224'	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	Well No. 122H Well @ 3760,50usft Well @ 3760,50usft Grid Minimum Curvature WellPlanner1
Project	Lea County, NM (NAD83)		
Map System: Geo Datum: Map Zone:	US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone	System Datum:	Mean Sea Level

Site Position:		Northing:	488,319.00 usft	Latitude:	32.340407
From:	Мар	Easting:	763,640.00 usft	Longitude:	-103,613537
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.39 °

Well Position	S-/N+	0.00 usft	Northing:	488,319.00 usft	Latitude:	32.340407
	+E/-W	0.00 usft	Easting:	763,640.00 usft	Longitude:	-103.613537
Position Uncertainty	>	0.00 usft	Wellhead Elevation:	usft	Ground Level: 3	3,732.00 usft
Wellbore	НО					

No. 122H, LNM5532119

Well Position Well

Wellbore	НО					7
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle	Field Strength (nT)	
	HDGM	9/16/2019	89.9	60.07	47,978.30	
						ŀ

Design	MWD-	MWD-193'-21047', PTB: 21224'				
Audit Notes:						
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00	
Vertical Section:		Depth From (TVD)	S/N+	+E/-W	Direction	THE RESERVE THE PARTY OF THE PA
		(usn)	(nsu)	(usn)		
		00.0	0.00	0.00	179.62	

Mercay Program	Date 10/18/2019			
From (usft)	To Survey (Wellbore)	Tool Name	Description	
193.00	21,224.00	MWD+HDGM	OWSG MWD + HRGM	

COMPASS 5000.14 Build 85



PRODIRECTIONAL

Company: Project: Site: Well:	Maj Roc No.	Matador Resources Lea County, NM (NAD83) Rodney Robinson Federal No. 122H	83) Ieral				Local Co-ordinate TVD Reference: MD Reference:	Local Co-ordinate Reference: TVD Reference: MD Reference: Morth Reference:	Well No. 122H Well @ 3760.50usft Well @ 3760,50usft Grid		
Wellbore: Design:	H W	OH MWD-193'-21047', PTB: 21224'	B: 21224'				Survey Calcul Database:	Survey Calculation Method: Database:	Minimum Curvature WellPlanner1		
Survey											
MD (usft)		lnc (3)	Azi (azimuth)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth	Northing (usft)	Easting (usft)
	00.0	00:00	0.00	00 0	0.00	00.00	00.00	0.00	00:00	488,319.00	763,640.00
	193.00	09.0	40.70	193.00	-0.76	0.77	99.0	1.01	40,70	488,319.77	763,640.66
Pro	MWD Firs 314.00	Pro MWD First Survey: 193' MD 314.00 0,70	31.40	313.99	-1.87	1.88	1.46	2.38	37.82	488,320.88	763,641.46
	403.00	0.80	40.90	402.98	-2.80	2.81	2.15	3.54	37.38	488,321.81	763,642.15
	493.00	0.40	43.00	492.98	-3.50	3,52	2.77	4,48	38.26	488,322.52	763,642,77
	584.00	0.80	09.9	583.97	-4.36	4.38	3.06	5.34	34,97	488,323.38	763,643.06
	674,00	1.50	358.60	673,95	-6,16	6.18	3.11	6.92	26.68	488,325.18	763,643.11
	766.00	1.70	358.60	765.92	-8.73	8.75	3.04	9.26	19.18	488,327.75	763,643.04
	857.00	1.30	358.60	856.89	-11.11	11.13	2.99	11.52	15.01	488,330.13	763,642.99
	951.00	0.80	9.20	950.87	-12.82	12.84	3.06	13.20	13.42	488,331.84	763,643.06
	1,046.00	0:30	29,90	1,045.86	-13.69	13.71	3.29	14.10	13.51	488,332.71	763,643.29
	1,140.00	0.20	20.40	1,139.86	-14.06	14.08	3,47	14,50	13.86	488,333.08	763,643.47
	1,234.00	0.10	309.50	1,233.86	-14.26	14.29	3.47	14.70	13.64	488,333.29	763,643.47
_	1,276.00	0.20	326.00	1,275.86	-14.35	14.37	3,40	14.77	13.30	488,333.37	763,643.40
	1,443.00	0.40	288.10	1,442.86	-14.78	14.79	2.68	15.04	10.27	488,333.79	763,642.68
	1,538.00	1.40	340.50	1,537.85	-15,98	15.99	1.98	16.11	7.05	488,334.99	763,641.98
_	1,634.00	2.50	348.60	1,633.79	-19.14	19.15	1.17	19.19	3.51	488,338.15	763,641.17
	1,729.00	2.30	340.10	1,728.71	-22.97	22.97	0.11	22.97	0.29	488,341.97	763,640.11
_	1,825.00	3.10	344.40	1,824.60	-27.29	27,28	-1.24	27.31	357.40	488,346.28	763,638.76
-	1,920.00	3.90	346.70	1,919.42	-32.92	32.90	-2.67	33.01	355.36	488,351,90	763,637.33
	2,015.00	3.80	349.00	2,014,21	-39.16	39.14	-4.02	39.34	354.14	488,358.14	763,635,98
.,	2,111.00	4.60	352.90	2,109.95	-46.11	46.08	-5.10	46.36	353.68	488,365.08	763,634.90
	2,206.00	5.80	354.60	2,204.56	-54.68	54.64	-6.02	54.97	353.71	488,373.64	763,633.98
	2,302.00	5.80	355.00	2,300.07	-64.34	64.30	-6.90	64.67	353.87	488,383.30	763,633.10
	2,397.00	5.90	355,20	2,394.57	-74.00	73.95	-7.73	74.35	354.03	488,392.95	763,632.27
	2,493.00	5.80	356.10	2,490.07	-83.76	83.70	-8.47	84.13	354.22	488,402.70	763,631.53

PRODIRECTIONAL

							The state of the s				
Company: Project:	Matador Lea Cou	Matador Resources Lea County, NM (NAD83)	is NAD83)				Local Co-ordina TVD Reference:	Local Co-ordinate Reference: TVD Reference:	Well No. 122H Well @ 3760.50usft	±.	
Site: Well: Wellbore: Design:	Rodney R No. 122H OH MWD-193	Rodney Robinson Federal No. 122H OH MWD-193'-21047', PTB: 2	Rodney Robinson Federal No. 122H OH MWD-193-21047', PTB: 21224'				MD Reference: North Reference: Survey Calculation Method: Database:	e: tion Method:	Well @ 3760.50usft Grid Minimum Curvature WellPlanner1	⊏ υ	
Survey											
MD (then)		5 E	Azi (azimuth)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth	Northing (usft)	Easting (usft)
2,5	2,589.00		5.90 357.80	2,585.57	-93,53	93.47	-8.99	93.91	354.51	488,412.47	763,631.01
2,6	2,684.00	5.	5.80 354.60	2,680.08	-103.19	103.13	-9.63	103.58	354.67	488,422.13	763,630.37
2,7	2,780.00	.9	6.00 359.70	2,775,57	-113.04	112.98	-10.11	113.43	354.89	488,431.98	763,629.89
2,8	2,875.00	6.	6.20 358.10	2,870.03	-123.14	123.07	-10.31	123.50	355.21	488,442.07	763,629,69
2,9	2,971,00	.9	6.40 1.00	2,965.45	-133.67	133 60	-10.39	134.00	355.55	488,452.60	763,629.61
3,0	3,066,00	.9	6.60 1.20	3,059.84	-144.42	144.35	-10,18	144.71	355.97	488,463.35	763,629.82
3,1	3,162.00	5.	5.40 4.60	3,155,31	-154.43	154.37	-9.70	154 68	356.40	488,473.37	763,630.30
3,2	3,257.00	4	4.80 8.00	3,249.94	-162.82	162.76	-8.79	163.00	356.91	488,481.76	763,631.21
8'8	3,353.00	5.	5.10 6.90	3,345.58	-171.03	170,98	-7.72	171 15	357.42	488,489.98	763,632.28
3,4	3,449.00	4	4.30 15.30	3,441.26	-178.72	178.69	-6.26	178.80	357.99	488,497.69	763,633.74
3,5	3,544.00	3.	3.20 21.80	3,536.05	-184.61	184.58	-4.33	184 63	358.66	488,503.58	763,635.67
3,6	3,640.00	2	2.20 19.90	3,631.95	-188.82	188.80	-2.71	188.82	359.18	488,507.80	763,637.29
3,7	3,736.00	-	1.30 16.40	3,727.90	-191,59	191.58	-1,78	191.59	359.47	488,510.58	763,638.22
3,8	3,831.00	-	1.50 22.10	3,822.87	-193.77	193.77	-1.00	193.77	359.70	488,512.77	763,639.00
3,9	3,927.00	-	1.50 16.10	3,918.84	-196.14	196.14	-0.18	196.14	359.95	488,515.14	763,639.82
4,0	4,023.00	-	1.30 25,90	4,014.81	-198.32	198.32	0.64	198.33	0.19	488,517.32	763,640.64
4,1	4,118.00	-	1.20 57.30	4,109.79	-199.81	199.83	1.95	199.84	0.56	488,518.83	763,641.95
4,2	4,214.00	2.	2,10 82,00	4,205.75	-200.59	200.62	4.54	200.67	1.30	488,519.62	763,644.54
4,3	4,310.00	.6	3.10 89.50	4,301.65	-200.82	200.89	8.88	201.08	2.53	488,519.89	763,648.88
4,4	4,405.00	Э.	3.10 98.20	4,396.51	-200.45	200.54	13.99	201.03	3.99	488,519.54	763,653,99
4,5	4,500.00	2.	2.90 123.10	4,491.38	-198.74	198.86	18.54	199.73	5.33	488,517.86	763,658.54
4,5	4,596.00	Э.	3.10 131.20	4,587.25	-195.67	195.83	22.53	197.12	92.9	488,514.83	763,662.53
4,6	4,692.00	2.	2.20 122.80	4,683.15	-192.94	193.12	26.03	194.87	7.68	488,512.12	763,666.03
4,7	4,787.00	0.	0.80 93.10	4,778.12	-191.91	192.10	28.23	194.16	8.36	488,511.10	763,668.23
4,8	4,882.00	0.	0.80 92.80	4,873,11	-191.83	192.03	29.55	194.29	8.75	488,511.03	763,669.55
4,9	4,978.00	Υ.	1.00 93.50	4,969.09	-191.73	191.94	31,06	194.44	9.19	488,510.94	763,671,06
5,1	5,178.00	0	0.80 126.30	5,169.07	-190.78	191.01	33,92	194.00	10.07	488,510,01	763,673.92

763,632.15

763,632.83

357.68 358.27 358.25 358.55 358.82 359.15 359.52 359.53

177.48

763,637.02

488,497.62 488,497.07 488,496.33

357,92 357.48

359.05

179.41 178.74 178.25

-2.98 -6.50 -7.85 -7.17 -6.25 -5.29

179.38 178.62 178.07 177.33

-179.40

6,509.37 6,605.30 6,700.29 6,796.28 6,891.27 6,987.25 7,082.24

256.40 259.60 143.00 134.70

2.40

6,519,00 6,615.00 6,710.00 6,806.00

0.40

1,90

-178.66 -178.12 -177.38

488,498.38

763,636.46

63,637.47

763,639.61

763,638.57

763,635.60

488,492.50 488,491.16 488,489.75 488,488.17 488,486.28

173.55

172.20 170.77 169.17 167.28

-3.54

172.16

-172,18

-170.76

7,273.21

170.75

169.17

-167.28

169.17

7,369.19

154.80

174.88

176.17 174.80 173.50

-174.83

143.50

00

148.20 146.10 142.90

3.90 1.00 1.10 1.20 1.40

7,188.00

7,283.00 7,379.00 7,474.00

146.90

00.

6,901.00 6,997.00 7,092.00

-173.52

-176.21

763,634.71

488,495.17 488,493.80

ProDirectional

Survey Report



763,675.12 763,669.54 63,666.50 763,654.62 763,651,45 763,648.14 763,640.87 763,674.92 763,672.58 763,663.44 763,660.46 763,657.58 763,644.64 Easting 488,509.33 488,508.83 488,508.20 488,507.38 488,506.53 488,505.66 488,504.02 488,503.25 488,502.44 488,501.53 188,500.52 488,499.39 488,504.83 Northing Well @ 3760.50usft Well @ 3760.50usft Minimum Curvature 5.43 2.55 1.46 0.28 8.04 7.16 6.28 4.54 3.57 9.77 8.91 Well No. 122H Closure Distance Closure Azimuth WellPlanner1 Grid 183.79 180.39 193.02 191.99 190.68 189.39 188.13 186.95 185.86 184.83 182,71 181.58 Local Co-ordinate Reference: Survey Calculation Method: (nstt) North Reference: TVD Reference: MD Reference: 11.45 8.14 0,87 35.12 34.92 32.58 26.50 23.44 20.46 17.58 14.62 29.54 4.64 Database: E/W (usft) 80,39 188.38 187.53 185.02 184.25 182.53 181.52 189.83 189.20 99.981 185.83 183.44 N/S (usft) -184.90 -180.38 -188.18 -187.35 -186.50 -182.47 .181.48 184.15 -190,09 -189,60 -188.98 185.69 183.36 V. Sec (nst) 6,318.53 5,268.06 5,364.06 5,460.03 5,554.97 5,649,92 5,936.77 6,031.72 6,127.67 6,223.60 6,414.45 5,745.87 5,841.82 TVD (usft) 255.20 252.60 254,20 255.40 254.20 254.60 253.80 254.90 253.90 256.90 254.20 254.20 Azi (azimuth) MWD-193'-21047', PTB: 21224' Rodney Robinson Federal Lea County, NM (NAD83) 2.10 2.00 2.30 0.80 1.00 .90 96 90 90 .80 .80 90 2.40 Matador Resources 5 5 No. 122H 5,277,00 5,373.00 5,469.00 5,564.00 5,659.00 5,755.00 5,851.00 5,946.00 6,041.00 6,137,00 6,233.00 6,328.00 6,424.00 Company: Wellbore: Design: Project Survey Well: Site:

763,641.97 763,643.32	488,481.59	0.69	162,61 160.16	1.97 3.32	162.59	-162.58	7,655.10 7,750.05	151.80 150.80	1.70	,665.00
763,643.32	488,479.12	1.19	160.16	3.32	160.12	-160.10	7,750.05	150.80	1.70	
763,641.97	488,481.59	69'0	162,61	1.97	162.59	-162.58	7,655.10	151.80	1.70	
763,640.71	488,484.02	0.25	165.02	0.71	165.02	-165,01	7,560.14	153.40	1.60	

Page 5

10/18/2019 1:43:21PM

763,634.48 763,633.34 763,632.20 763,631.15 763,629.95 763,628.41

358.20 357.81 357.41 357.04 356.61 356.07

175.20 174.15

-5.52 -6.66 -7.80 -8.85 -10.05 -11,59

175.11 174.02

-175.14 -174.06 -172.54 -170.93 -169.61 -169,01

9,851.79 9,947,78 10,042.76 10,138.74

234,50 220.20 213.60 212.50 231.50 267.10

1.10

9,958.00

10,053.00 10,149.00 10,244.00 10,339.00

1.20

1.10 1.10

488,493.02

488,491.49 488,489.88 488,488.54 488,487.93

171,11

169.84 169,33

169,54 168.93

10,328.71 10,233.72

1.00

172.67

172.49 170.88

ProDirectional

Survey Report

PRODIRECTIONAL

Company: Project: Site: Well: Wellbore: Design:	Matador Resources Lea County, NM (NAD83) Rodney Robinson Federal No. 122H OH MWD-193-21047', PTB: 21224'	ources NM (NAD8 nson Fede 047', PTB	33) iral : 21224'				Local Co-ordinate TVD Reference: MD Reference: North Reference: Survey Calculatio Database:	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	Well No. 122H Well @ 3760.50usft Well @ 3760.50usft Grid Minimum Curvature	t t o	
Survey	1										
(nst)	3 E		Azi (azimuth)	TVD (tysn)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth	Northing (usft)	Easting (usft)
7,856.00	00	0.50	280.50	7,846.04	-158.93	158.95	e,	3.60 159.00	1.30	488,477.95	763,643.60
7,951.00	00	0.80	298.70	7,941.04	-159.33	159.35	2.	2.61 159.37	0.94	488,478.35	763,642.61
8,047.00	00	1,00	299.40	8,037.02	-160.07	160.08	-	1.30 160.09	0.46	488,479.08	763,641.30
8,142.00	00	06.0	295.60	8,132.01	-160.81	160.81	-0-	-0.10 160.81	359.96	488,479.81	763,639.90
8,238.00	00	08.0	302.40	8,228.00	-161.50	161.50	7	-1.35 161.50	359.52	488,480.50	763,638.65
8,333.00	00	0.80	304.30	8,322.99	-162.24	162.22	-2.	-2.45 162.24	359.13	488,481,22	763,637.55
8,429.00	00	0.80	296.50	8,418.98	-162.92	162.90	.j.	-3.61 162.94	358.73	488,481.90	763,636.39
8,524.00	00	09.0	291,50	8,513.97	-163.41	163.38	-4.	-4.66 163.45	358.37	488,482.38	763,635.34
8,619.00	00	0.70	281.90	8,608.97	-163.72	163.68	-5.	-5.69 163.78	358.01	488,482.68	763,634.31
8,715.00	00	0.70	283,80	8,704.96	-163.98	163.94	-6.	-6.84 164.09	357.61	488,482.94	763,633.16
8,811.00	00	0.80	275.20	8,800.95	-164.19	164.14	φ	-8.07 164.34	357.18	488,483.14	763,631.93
8,906.00	00	0.70	277.80	8,895.94	-164.34	164.28	-9.31	.31 164.55	356.76	488,483.28	763,630.69
9,002.00	00	0.30	265.10	8,991.94	-164.40	164.34	-10.14	.14 164.65	356.47	488,483.34	763,629.86
00'260'6	00	1.20	13.90	9,086.93	-165.35	165.28	-10.15	15 165.60	356.49	488,484.28	763,629.85
9,193.00	00	1.50	22.50	9,182.91	-167.48	167.42	·6-	-9.43 167.69	356,78	488,486.42	763,630.57
9,289.00	00	1.50	31.50	9,278.87	-169.70	169.65	φ	-8.29 169.86	357.20	488,488.65	763,631.71
9,384.00	00	1.40	38.20	9,373.84	-171.67	171.63	-6.	-6.92	357.69	488,490.63	763,633.08
9,480.00	00	1.10	38,50	9,469.82	-173.30	173.27	.5.	-5.62 173.36	358.14	488,492.27	763,634.38
9,575.00	00	0.90	37.90	9,564.81	-174,60	174.57	4.	-4.60 174.63	358.49	488,493.57	763,635.40
9,671.00	00	0.40	26.70	9,660.80	-175,49	175.47	.j.	-3.98 175.51	358.70	488,494.47	763,636.02
9,766.00	00	0.70	257.10	9,755.80	-175.66	175.63	4	-4.40 175.69	358.56	488,494.63	763,635.60
9,862.00	00	08.0	234,50	9,851.79	-175.14	175.11	-5.	-5.52 175.20	358.20	488,494.11	763,634.48

PRODIRECTIONAL

Company: Matador R Project: Lea Count Site: Rodney R Wall: No. 122H Wallbore: OH Design: MWD-193	Matador Resources Lea County, NM (NAD83) Rodney Robinson Federal No. 122H OH MWD-193-21047', PTB: 21224'	13) grail 1: 21224'				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	ste Reference: e: iion Method:	well No. 122H Well @ 3760.50usft Well @ 3760.50usft Grid Minimum Curvature WellPlanner1		
Survey										
(Hsu)	Inc (3)	Azi (azimuth)	DVT (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth	Northing (usft)	Easting (usft)
10,433.00	08 0	287.40	10,422.69	-169.17	169.09	-13.04	169.59	355.59	488,488.09	763,626.96
10,528,00	10.80	186.40	10,517.14	-160.51	160,41	-14.67	161.08	354.77	488,479.41	763,625.33
10,624.00	27.30	189.60	10,607.57	-129.68	129.55	-19,38	131 00	351.49	488,448,55	763,620.62
10,720.00	35.90	191.00	10,689.26	-80.31	80.13	-28.44	85.02	340.46	488,399.13	763,611.56
10,815.00	41.10	185.90	10,763.60	-21,91	21.67	-36.97	42.85	300.38	488,340.67	763,603.03
10,911.00	47.70	180.20	10,832.18	45.05	-45.32	-40.34	29.09	221,67	488,273.68	763,599,66
11,006.00	49.50	179.50	10,895.00	116.31	-116.58	-40.15	123.30	199.00	488,202.42	763,599.85
11,102.00	57.10	181.30	10,952.34	193.21	-193.48	-40.74	197.73	191.89	488,125.52	763,599.26
11,197.00	63,20	184.80	10,999.61	275,39	-275,70	-45.20	279.38	189.31	488,043.30	763,594.80
11,293.00	71.00	185.50	11,036.94	363.35	-363,71	-53.15	367.57	188.31	487,955.29	763,586.85
11,388.00	83.50	182.40	11,057.87	455,55	-455,95	-59,46	459.81	187.43	487,863.05	763,580.54
11,420.00	86.90	180.60	11,060.54	487.41	-487.82	-60.29	491.54	187,05	487,831.18	763,579.71
11,483.00	87.10	180.00	11,063.84	550,32	-550.74	-60.62	554.06	186.28	487,768.26	763,579.38
11,579.00	86.80	179.30	11,068.95	646.19	-646.60	-60.03	649.38	185.30	487,672.40	763,579.97
11,675.00	88.00	182.00	11,073.30	742.06	-742.48	-61.12	744.99	184.71	487,576.52	763,578.88
11,770.00	88.40	181.00	11,076.29	836.96	-837.40	-63.61	839,81	184.34	487,481.60	763,576.39
11,865.00	88.90	179.80	11,078.53	931.92	-932.37	-64.27	934.58	183.94	487,386.63	763,575.73
11,961.00	89.80	179.20	11,079.62	1,027.92	-1,028.36	-63.43	1,030.31	183.53	487,290.64	763,576.57
12,056.00	90.50	178.40	11,079.37	1,122.91	-1,123.34	-61.44	1,125.02	183.13	487,195.66	763,578.56
12,152.00	86.70	179.80	11,081.71	1,218.85	-1,219.28	-59.94	1,220.75	182.81	487,099.72	763,580.06
12,247.00	86.60	179.30	11,087.26	1,313.69	-1,314.11	-59,19	1,315.44	182.58	487,004.89	763,580.81
12,342,00	86.50	178.60	11,092.98	1,408.51	-1,408.92	-57.45	1,410.09	182.34	486,910.08	763,582.55
12,438.00	87.00	178.30	11,098.42	1,504,34	-1,504,73	-54.86	1,505.73	182.09	486,814.27	763,585.14
12,534.00	87.60	177.50	11,102.94	1,600.18	-1,600.56	-51.35	1,601.38	181.84	486,718.44	763,588.65
12,629.00	84.20	180.90	11,109.74	1,694.91	-1,695.28	-50.02	1,696.02	181.69	486,623.72	763,589.98
12,724.00	89.90	181.00	11,114.62	1,789,72	-1,790.10	-51.59	1,790.85	181.65	486,528.90	763,588.41
12,820.00	90.70	180.50	11,114.12	1,885.70	-1,886.09	-52.85	1,886.83	181.60	486,432.91	763,587.15

ProDirectional



Project: Site:	Lea County, NM (NAD83) Rodney Robinson Federal No. 122H	ses (NAD83) n Federal					Local Co-ordinate TVD Reference: MD Reference: North Reference:	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:	Well No. 122H Well @ 3760.50usft Well @ 3760,50usft Grid	sft sft	
ore: n:	он МWD-193'-21047', РТВ: 21224'	7', PTB: 2122 ⁴	-4				Survey Calcu Database:	Survey Calculation Method: Database:	Minimum Curvature WellPlanner1	ire	
Survey											I
MD (nst)	3 0	Azi (a	Azi (azimuth)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth	Northing (usft)	Easting (usft)
12,915.00		91.30	180.20	11,112.46	1,980.68	-1,981.07	-53.43	1,981.79	181.54	486,337.93	763,586.57
13,011.00		90.30	179.40	11,111.12	2,076.66	-2,077.06	-53.09	3 2,077.74	181.46	486,241.94	763,586.91
13,106.00		89.10	180.50	11,111.62	2,171.66	-2,172.06	-53.01	1 2,172,70	181.40	486,146.94	763,586.99
13,150.00		88,50	181.00	11,112.54	2,215.64	-2,216.04	-53.59	3 2,216.69	181.39	486,102.96	763,586.41
13,246.00		88.30	181.70	11,115.22	2,311.56	-2,311.98	-55.85	5 2,312.65	181.38	486,007.02	763,584.15
13,341.00		88.20	182.20	11,118,12	2,406.44	-2,406.88	-59.08	3 2,407.61	181.41	485,912,12	763,580,92
13,437.00		88.00	182.50	11,121.31	2,502.27	-2,502.75	-63.01	1 2,503.54	181.44	485,816.25	763,576.99
13,532.00		87.90	183.00	11,124.71	2,597.07	-2,597.58	-67.57	7 2,598,45	181.49	485,721.42	763,572.43
13,628.00		88.10	183.50	11,128.06	2,692.82	-2,693.36	-73.01	1 2,694.35	181.55	485,625.64	763,566.99
13,724.00		86,70	182.10	11,132.41	2,788.57	-2,789.14	-77.69	3 2,790.23	181.60	485,529.86	763,562.31
13,819.00		96.90	182.10	11,137.71	2,883.33	-2,883.93	-81.17	2,885.07	181.61	485,435.07	763,558.83
13,915.00		86.40	179,80	11,143.32	2,979.13	-2,979,75	-82.76	5 2,980.90	181.59	485,339.25	763,557.24
14,010.00		86.50	179.30	11,149.21	3,073.95	-3,074.56	-82.01	3,075.66	181.53	485,244.44	763,557.99
14,106.00		86.90	179,30	11,154.73	3,169.79	-3,170.40	-80.84	3,171.43	181.46	485,148.60	763,559.16
14,201.00		87.20	178.90	11,159.62	3,264.66	-3,265.26	-79.35	3,266.22	181.39	485,053.74	763,560.65
14,296.00		87.40	179.20	11,164.10	3,359.55	-3,360.14	-77.78	3,361.04	181.33	484,958.86	763,562.22
14,392.00		90.20	178.90	11,166,11	3,455.52	-3,456.10	-76.19	3,456.94	181.26	484,862.90	763,563.81
14,487.00		91,20	179.20	11,164.95	3,550.50	-3,551.07	-74.61	3,551.86	181.20	484,767.93	763,565.39
14,583.00		91.90	179.30	11,162,35	3,646.46	-3,647,03	-73.35	3,647.77	181.15	484,671.97	763,566.65
14,678.00		92.10	178.50	11,159.03	3,741.40	-3,741.95	-71.53	3,742.64	181.10	484,577.05	763,568.47
14,774.00		92.80	178.60	11,154.93	3,837.29	-3,837.84	-69.10	3,838.46	181.03	484,481.16	763,570.90
14,869.00		91.80	179.60	11,151.12	3,932.21	-3,932.74	-67.61	3,933.33	180.98	484,386.26	763,572,39
14,965.00		91,20	179.80	11,148.61	4,028.18	-4,028.71	-67.11	1 4,029.27	180.95	484,290.29	763,572.89
15,060.00		91.80	180.50	11,146.12	4,123.14	-4,123.68	-67.36	5 4,124.23	180.94	484,195.32	763,572.64
15,155.00		89.50	180.10	11,145.04	4,218.12	-4,218.66	-67.86	3 4,219.21	180.92	484,100.34	763,572.14
15,251.00		89.40	180.60	11,145.96	4,314.11	-4,314.66	-68.44	4,315.20	180.91	484,004.34	763,571,56
15.346.00		90.10	181.40	11,146.38	4,409.08	-4,409,64	-70.10	0 4,410,20	180.91	483,909.36	763,569.90

ProDirectional



Company:	Matador Resources					Local Co-ordin	Local Co-ordinate Reference:	Well No. 122H		
	Lea County, NM (NAD83) Rodney Robinson Federal No. 122H OH	D83) deral				TVD Reference: MD Reference: North Reference: Survey Calculation Method:	r. :e: tion Method:	Well @ 3760.50usft Well @ 3760.50usft Grid Minimum Curvature	## 0	
Design:	MWD-193-21047, P1B: 21224	1B: 21224				Database:		WellPlanner1		
· ·							17			
(usn)	o C	Azi (azimuth) (")	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (*)	Northing (usft)	Easting (usft)
15,442.00	08.88	0 181.80	11,146.46	4,505.02	-4,505.60	-72.78	4,506,19	180.93	483,813.40	763,567.22
15,537.00	06.68	0 182.30	11,146.71	4,599.93	-4,600.54	-76.18	4,601,17	180.95	483,718.46	763,563.82
15,633.00	01.88.10	0 181.10	11,147.55	4,695.86	-4,696.49	-79.03	4,697.16	180.96	483,622,51	763,560.97
15,728.00	89.40	0 180.70	11,148.79	4,790.83	-4,791,47	-80.52	4,792.15	180.96	483,527,53	763,559.48
15,823.00	09.68	0 181,20	11,149,62	4,885,80	-4,886,45	-82.10	4,887.14	180.96	483,432.55	763,557.90
15,919.00	99.80	0 181.50	11,150.12	4,981.76	-4,982.43	-84.36	4,983.14	180.97	483,336.57	763,555.64
16,015.00	90.80	180,90	11,149.62	5,077.72	-5,078.40	-86.37	5,079.14	180.97	483,240.60	763,553.63
16,110.00	05.06	0 181.00	11,148.54	5,172.69	-5,173.38	-87.94	5,174,13	180.97	483,145.62	763,552.06
16,206.00	08.88	0 180,30	11,148.29	5,268.67	-5,269,38	-89.03	5,270.13	180.97	483,049.62	763,550.97
16,301.00	99,10	0 180.40	11,149.20	5,363.66	-5,364.37	-89.61	5,365.12	180.96	482,954.63	763,550.39
16,397.00	00.06	07.081	11,149.96	5,459.64	-5,460.36	-90.53	5,461.11	180.95	482,858.64	763,549.47
16,493.00	06.98	0 180.10	11,152.55	5,555.58	-5,556.31	-91.20	5,557.06	180.94	482,762,69	763,548,80
16,588.00	96.00	0 178.90	11,158.44	5,650.40	-5,651.12	-90.38	5,651,84	180.92	482,667.88	763,549.62
16,684.00) 85.80	0 178.30	11,165.30	5,746.14	-5,746.85	-88.04	5,747.52	180.88	482,572.15	763,551.96
16,779.00) 88.20	02 176.50	11,170,27	5,840.92	-5,841.61	-83.73	5,842.21	180.82	482,477.39	763,556.27
16,875.00) 88.90	0 175.30	11,172.70	5,936.69	-5,937.33	-76.87	5,937.83	180.74	482,381.67	763,563.13
16,971.00) 89.70	0 174.50	11,173.87	6,032.35	-6,032.94	-68,34	6,033.33	180.65	482,286.06	763,571.66
17,066.00	91.30	0 176.10	11,173.04	6,127.08	-6,127.61	-60.55	6,127.91	180,57	482,191.39	763,579.45
17,161.00) 91.20	0 174.30	11,170.97	6,221.77	-6,222.25	-52.61	6,222.47	180.48	482,096.75	763,587.39
17,257.00	91.10	0 176.40	11,169.05	6,317.47	-6,317.91	-44.83	6,318.07	180.41	482,001.09	763,595.17
17,353.00	90.70	0 176.50	11,167.54	6,413.32	-6,413.72	-38.88	6,413.83	180.35	481,905,28	763,601.12
17,448.00	89.40	0 176.20	11,167,45	6,508.16	-6,508.52	-32,84	6,508.60	180.29	481,810.48	763,607.16
17,543.00	90.40	0 177.40	11,167.62	6,603.04	-6,603.37	-27.53	6,603.43	180.24	481,715.63	763,612.47
17,639.00	89.40	0 177.10	11,167.79	6,698.96	-6,699.26	-22.93	6,699.30	180.20	481,619.74	763,617.07
17,734.00	99.80	01.621	11,168.45	6,793.92	-6,794.20	-19.78	6,794.23	180.17	481,524.80	763,620.22
17,830.00	90.20	0 177.50	11,168.45	6,889.89	-6,890.15	-16.93	6,890.17	180.14	481,428,85	763,623,07
17,925.00	90.80	0 179.30	11,167.62	6,984.86	-6,985.11	-14.28	6,985.12	180.12	481,333.89	763,625.72

ProDirectional

	PRODIRECTIONAL	
1		V

Colora C	Company:		Matador Resources					Local Co-ordinate Reference:	Reference:	Well No. 122H		
wth ring Azi (azimuth) TVD V Sine N/S EVA Colosius Distantes Closure Distantes Closure Distantes Closure Azimuth Northing Luttl 02.210 11.10.2.1 (11.10.2.1 7.77.2.46 7.71.7.2.7 7.00.0.0 1.00.0<	Project: Site: Well: Wellbore: Design:	N N N N N N N N N N N N N N N N N N N	a County, NM (NAI odney Robinson Fer b. 122H 1 MD-193'-21047', PT	283) deral TB: 21224*				TVD Reference: MD Reference: North Reference: Survey Calculatio Database:	n Method:	Well @ 3760.50usl Well @ 3760.50usl Grid Minimum Curvature WellPlanner1	# # O	
47 A21 (activativati) VAS A28 (activativativativativativativativativativa	Survey											
02.10 92.50 162.10 11,164.80 7,001.05 -15.45 7,001.06 -16.54 7,175.75 -10.08 7,175.75 180.17 180.17 481.133.25 11.20 96.40 163.50 11,169.44 7,175.46 7,777.42 -20.08 7,777.47 180.20 481.133.25 90.70 96.20 163.50 11,169.44 7,175.46 -25.84 7,746.20 180.20 481.04.23 403.00 96.60 162.00 11,149.95 7,461.71 -7,462.71 -36.84 7,465.20 180.20 180.20 480.96.80 403.00 96.60 162.00 11,149.95 7,461.71 7,746.20 -36.84 7,465.20 180.20 180.20 480.96.80 403.00 11,149.90 7,461.71 7,742.71 -26.24 7,465.20 180.90 180.20 11,149.90 7,461.71 7,748.20 180.90 180.90 180.90 180.90 180.90 180.90 180.90 180.90 180.90 180.90 180.90 180.90 <th>ME</th> <th></th> <th>înc C</th> <th>Azi (azimuth)</th> <th>dvr (usft)</th> <th>V. Sec</th> <th>N/S (usft)</th> <th></th> <th></th> <th>losure Azimuth</th> <th>Northing (usft)</th> <th>Easting (usft)</th>	ME		înc C	Azi (azimuth)	dvr (usft)	V. Sec	N/S (usft)			losure Azimuth	Northing (usft)	Easting (usft)
9440 183.90 11,159,14 7,175,76 20.08 7,175,76 100.16 481,142.55 9220 183.30 11,155,14 7,271,42 25.76 7,271,47 180.24 481,147.58 90.00 182.00 11,151,29 7,365,20 7,202.3 180.24 480.656.35 90.00 182.00 11,148.50 7,555,00 7,255,00 180.24 480.656.35 90.00 182.40 11,148.50 7,555,00 4,02.20 180.33 480.656.95 90.40 182.40 11,148.50 7,555,00 4,02 180.30 180.051 480.650.95 90.40 182.40 11,148.50 7,48.22 7,48.20 180.33 480.650.95 90.40 182.40 11,148.51 7,48.20 7,58.20 180.30 180.75 480.75 90.40 182.40 11,148.50 7,48.20 7,48.20 180.31 480.75 480.75 80.40 182.40 18.20 7,48.20 180.20 180.32 480.75 <td>The state of the s</td> <td>8,021.00</td> <td></td> <td></td> <td>11,164.86</td> <td>7,080.79</td> <td>-7,081.05</td> <td>9</td> <td>7,081.06</td> <td></td> <td>481,237.95</td> <td>763,624.55</td>	The state of the s	8,021.00			11,164.86	7,080.79	-7,081.05	9	7,081.06		481,237.95	763,624.55
92.20 183.30 11,153.61 7,271,42 25.74 120.43 7,271,47 180.20 480,002 480,002 480,002 90.60 183.00 11,151.20 7,365.84 7,366.21 160.28 7,366.17 160.29 7,366.17 160.29 7,366.17 160.20		18,116.00	94.40		11,159.14	7,175.46	-7,175.75	-20.08	7,175.78	180.16	481,143.25	763,619.92
90 60 183 00 11,151 29 7,366 25 7,366 25 7,366 31 7,366 31 400 565 91 00 182,80 11,148 61 7,467,11 7,462,11 35,44 7,462,20 160,28 400 565 83 90 00 182,80 11,148 61 7,462,40 7,763,20 445,00 7,538,10 160,28 460,761,00 90 40 182,40 11,148 61 7,748,22 7,748,32 426,71 7,538,10 160,38 460,750,18 90 40 181,10 11,148,11 7,748,22 7,748,32 7,748,32 466,77 160,39 460,750,18 80 40 181,10 11,148,12 7,748,32 7,748,32 7,748,32 7,748,32 7,748,32 7,748,32 7,748,32 460,750,18 <t< td=""><td></td><td>8,212.00</td><td>92.20</td><td></td><td>11,153.61</td><td>7,271.09</td><td>-7,271,42</td><td>-25.76</td><td>7,271.47</td><td>180,20</td><td>481,047.58</td><td>763,614.24</td></t<>		8,212.00	92.20		11,153.61	7,271.09	-7,271,42	-25.76	7,271.47	180,20	481,047.58	763,614.24
9100 182 80 11,148.95 7,481.71 7,482.11 -35.84 7,482.20 180.28 480.868.9 90.60 182 80 11,148.61 7,585.40 -40.36 7,583.00 180.33 480.761.0 90.40 182 80 11,148.61 7,582.40 7,583.00 180.33 480.761.0 90.40 182 80 11,148.11 7,843.22 7,748.22 180.38 180.38 480.570.25 89.00 181.50 11,149.22 7,843.72 7,843.72 180.39 180.30 480.570.25 89.01 181.50 11,149.22 7,843.72 7,843.72 180.30 180.30 480.570.25 89.02 181.10 11,149.22 7,843.72 7,843.72 180.30 180.30 480.780.30 89.02 181.10 11,150.78 8,044.11 8,044.70 8,044.70 180.47 180.47 180.24 480.780.30 480.780.30 480.780.30 480.780.30 480.780.30 480.780.30 480.780.30 480.780.30 480.780.30 48		8,307.00	90.60		11,151.29	7,365.88	-7,366.25	-30.98	7,366.31	180.24	480,952.75	763,609.02
90.00 11,148.61 7,557.66 7,558.00 40.36 7,588.10 100.31 480,761.00 89.90 182.40 11,148.61 7,558.04 7,558.01 7,558.10 100.33 480,060.00 89.90 182.40 11,148.20 7,568.24 7,748.82 7,558.01 7,653.03 480,076.01 89.40 181.50 11,149.28 7,934.72 7,939.70 144.92 180.36 480,475.30 89.00 181.50 11,150.78 8,034.71 7,939.80 180.47 180.34 180.36 480,475.30 89.00 181.50 11,150.74 8,130.60 8,130.6		8,403.00	91.00		11,149.95	7,461.71	-7,462,11	-35.84	7,462.20	180.28	480,856.89	763,604.16
89.90 182,40 11,148,20 7,582,44 7,562,91 44,50 7,563,03 180,33 480,666.09 89.40 182,50 11,147,96 7,748,82 7,748,82 46,61 7,748,87 180,36 460,570.18 89.40 181,90 11,147,92 7,748,82 7,748,87 180,36 460,752.5 89.40 181,10 11,143,22 7,934,70 -5,225 7,943,92 180,00 480,475.25 89.40 181,10 11,152,45 8,130,06 -5,136,23 -5,632 8,034,87 180,40 480,475.25 89.80 181,10 11,152,45 8,130,06 -5,136,23 -5,632 190,43 180,40 480,475.25 89.80 180,10 11,154,13 8,130,06 -5,136,63 -6,18 8,130,84 180,42 480,485.25 91.10 110,04 11,154,13 8,170,10 -6,18 -6,18 8,170,84 480,485.25 480,475.25 91.10 110,04 11,143,62 8,130,06 -6,18 -6,		8,499.00	90.60		11,148.61	7,557.56	-7,558.00	-40.36	7,558.10	180.31	480,761.00	763,599.64
99.40 182.50 11,147.36 7,748.32 -7,748.82 -48.61 7,748.37 180.36 480.570.18 89.40 181.30 11,147.36 7,843.23 7,843.26 5.25 7,843.92 180.36 480.475.25 89.20 181.10 11,149.28 7,893.77 7,593.70 593.89 1,893.80 480.475.25 180.43 180.34 480.379.30 89.00 181.50 11,150.78 8,034.11 5,935.77 5,935.80 8,034.87 180.43 480.379.30 89.00 181.50 11,150.78 8,034.11 8,130.60 <t< td=""><td></td><td>8,594.00</td><td>89.90</td><td></td><td>11,148.20</td><td>7,652.44</td><td>-7,652.91</td><td>-44.50</td><td>7,653.03</td><td>180.33</td><td>480,666.09</td><td>763,595.50</td></t<>		8,594.00	89.90		11,148.20	7,652.44	-7,652.91	-44.50	7,653.03	180.33	480,666.09	763,595.50
99.40 181.90 11,148.11 7,843.23 7,843.75 62.25 7,943.92 180.38 480,475.25 99.20 181.10 11,149.29 7,939.17 7,939.70 64.77 7,939.80 180.40 480,379.30 99.20 181.10 11,150.78 8,034.11 8,034.67 6.62 8,034.87 180.40 480,379.30 99.20 181.20 11,153.48 8,130.60 8,130.60 61.87 8,130.84 180.42 480,183.7 99.20 180.20 11,153.48 8,130.60 8,130.60 61.87 8,130.84 490,901.40 99.10 180.20 11,153.48 8,147.01 8,417.01 8,130.60 61.87 8,132.8 180.42 490,014.0 91.10 180.20 11,143.80 8,147.01 8,130.60 62.44 8,608.80 180.04 479,614.4 91.10 180.40 11,144.71 8,998.73 8,704.56 8,704.78 8,704.78 180.41 479,614.44 90.20 180.80 11,144.7		8,690.00	90.40		11,147.95	7,748.32	-7,748.82	-48.61	7,748,97	180.36	480,570.18	763,591,39
99.20 181.10 11,149.29 7,939.17 -7,939.70 -54.77 7,939.89 180.40 480.739.30 89.00 181.50 11,150.78 8,034.11 -8,034.67 -56.92 8,034.87 180.40 480.739.30 89.00 181.50 11,155.74 8,130.66 -8,130.63 -66.91 8,130.84 180.42 480.788.33 98.00 180.90 11,153.46 8,226.61 -60.61 8,130.84 180.42 480.082.39 99.10 180.90 11,153.37 8,417.01 -8,417.60 -61.77 8,417.83 180.42 480.082.39 91.10 180.20 11,149.62 8,607.97 -8,603.8 -65.4 8,603.80 180.40 479,614.4 91.20 180.20 11,144.71 8,803.8 -8,704.5 -62.86 8,704.7 180.42 479,614.4 91.20 180.20 11,144.71 8,804.88 8,804.56 -8,704.7 180.42 479,423.4 90.20 180.20 11,144.37 9,808.87 <td< td=""><td>_</td><td>8,785.00</td><td>89.40</td><td></td><td>11,148.11</td><td>7,843.23</td><td>-7,843.75</td><td>-52.25</td><td>7,843.92</td><td>180.38</td><td>480,475.25</td><td>763,587.75</td></td<>	_	8,785.00	89.40		11,148.11	7,843.23	-7,843.75	-52.25	7,843.92	180.38	480,475.25	763,587.75
89.00 181.50 11,152.45 8,034.11 -8,034.67 -56.92 6,034.87 180.41 480,284.33 89.00 181.00 11,152.45 8,130.66 -8,130.63 -59.02 8,130.84 180.42 480,083.7 89.80 180.90 11,152.46 8,130.60 -8,130.60 -61.77 8,417.83 180.42 480,082.39 91.10 180.30 11,153.37 8,513.00 -61.77 8,417.83 180.42 479,001.40 91.10 180.30 11,153.37 8,513.00 -61.77 8,417.83 479,001.40 91.10 180.30 11,153.37 8,613.80 -62.86 8,613.80 479,001.40 91.10 180.30 11,145.52 8,607.97 8,608.80 86.28 479,014.2 479,014.44 91.20 180.30 11,145.54 8,798.51 8,798.51 8,799.52 8,799.76 180.41 479,423.44 91.20 180.30 11,144.71 8,998.72 8,999.73 180.42 479,423.44		8,881.00	89.20		11,149.29	7,939.17	-7,939.70	-54.77	7,939,89	180.40	480,379.30	763,585,23
89.00 11,152,46 8,130.66 -8,130.63 -59.02 8,130.84 180.42 480,188.37 89.80 180.90 11,153.46 8,226.63 -60,61 8,226.83 180.42 480,082.39 99.80 179.80 11,153.47 8,417.01 -8,513.60 -61,17 8,417.83 180.42 479,901.40 91.10 180.30 11,153.37 8,513.00 -8,513.60 -61,86 8,513.82 180.42 479,901.40 91.10 180.30 11,145.55 8,703.95 8,704.56 -62.44 8,608.80 180.42 479,104.2 91.20 180.70 11,145.54 8,703.95 8,704.56 8,704.78 180.41 479,614.4 90.70 180.70 11,145.54 8,894.88 8,895.51 -62.86 8,704.78 180.41 479,614.4 90.70 180.80 11,144.71 8,998.87 8,996.51 -62.46 8,799.76 180.41 479,513.40 89.50 180.50 11,144.12 9,988.89 8,996.51		9,976.00	89.00		11,150.78	8,034.11	-8,034.67	-56.92	8,034.87	180.41	480,284.33	763,583.08
89.80 180.90 11,153.46 8,226.63 -8,226.61 60,61 8,226.83 180.42 480,092.39 99.80 179.80 11,154.13 8,417.01 -8,417.60 -61,77 8,417.83 180.42 479,014.0 91.10 180.30 11,154.13 8,607.97 -8,613.60 -61.46 8,608.80 180.42 479,014.0 91.10 180.40 11,145.25 8,703.95 -8,704.56 -62.46 8,608.80 180.41 479,110.42 91.20 180.70 11,147.38 8,798.71 -8,795.53 -62.86 8,704.76 180.41 479,614.44 90.70 180.70 11,144.71 8,999.87 -8,995.51 -65.27 8,990.73 180.41 479,423.49 90.40 180.60 11,144.12 9,085.86 -9,086.49 -66.44 9,086.73 180.42 479,136.52 89.50 180.50 11,144.12 9,181.84 9,182.48 -67.86 9,182.73 180.42 479,136.52 89.50 179.80		9,072.00	89.00		11,152.45	8,130.06	-8,130.63	-59.02	8,130.84	180.42	480,188.37	763,580.98
99.80 179,80 11,154.13 8,417.01 -64.176 -61.18 8,417.83 180.12 479,901.40 91.10 180,30 11,153.37 8,513.00 -65.13.60 -61.86 8,513.82 180.02 479,901.40 91.10 180,40 11,151.55 8,607.97 -8,608.56 -62.44 8,608.80 180.42 479,104.2 91.20 180.70 11,145.62 8,703.56 -62.86 8,704.78 180.41 479,614.44 90.70 180.70 11,145.62 8,709.51 -62.86 8,709.76 180.41 479,423.49 90.70 180.80 11,145.62 8,990.50 -63.52 8,990.73 180.41 479,423.49 90.70 180.80 11,144.71 9,085.85 -9,086.49 -66.24 9,086.73 180.40 479,423.49 90.40 180.60 11,144.71 9,085.80 -9,182.48 -67.26 9,086.73 180.42 479,423.49 89.50 180.50 11,144.37 9,182.81 -9,182.48		9,168.00	89.80		11,153.46	8,226.03	-8,226.61	-60.61	8,226.83	180.42	480,092.39	763,579.39
91.10 180.30 4,513.60 -61,86 8,513.82 180.42 479,805.40 91.10 180.40 11,151.55 8,607.97 -8,608.58 -62.44 8,608.80 180.42 479,710.42 91.10 180.40 11,151.55 8,607.97 -8,608.58 -62.46 8,608.80 180.41 479,710.42 91.20 180.70 11,149.62 8,703.85 -8,799.53 -62.86 8,799.76 180.41 479,423.49 90.70 180.70 11,147.34 8,894.88 -8,895.51 -64.36 8,895.74 180.41 479,423.49 90.40 180.80 11,144.71 8,898.87 -9,886.49 -66.44 9,086.73 180.42 479,423.49 90.40 180.60 11,144.71 8,998.87 -9,186.49 -66.44 9,086.73 180.42 479,423.49 89.50 180.60 11,144.71 9,181.84 -9,182.48 -67.26 9,182.73 180.42 479,404.52 89.50 179.80 11,144.42 9,467.82	_	9,359.00	89.80		11,154.13	8,417.01	-8,417.60	-61.77	8,417.83	180.42	479,901.40	763,578.23
91.10 180.40 11,151.55 8,607.97 -8,608.58 -62.44 8,608.80 180.42 479,710.42 91.20 180.10 11,149.62 8,703.95 -8,704.56 62.86 8,704.78 180.41 479,710.44 91.50 180.70 11,147.38 8,798.91 -8,799.53 -65.27 8,799.76 180.41 479,519.47 90.70 180.80 11,144.71 8,998.87 -8,996.50 -65.27 8,990.73 180.42 479,519.47 90.30 180.80 11,144.71 8,998.87 -8,906.50 -66.27 8,990.73 180.42 479,423.49 90.40 180.60 11,144.71 9,085.85 -9,086.49 -66.27 8,990.73 180.42 479,423.45 89.90 180.60 11,144.72 9,181.84 -9,182.48 -66.27 9,086.73 9,182.73 180.42 479,413.65 89.50 179.80 11,144.37 9,181.84 -9,182.48 -67.28 9,182.73 180.41 479,041.52 89.00	_	9,455,00	91.10		11,153.37	8,513.00	-8,513.60	-61,86	8,513.82	180.42	479,805.40	763,578.14
91.20 180.10 11,149.62 8,703.95 -8,704.56 -62.86 8,704.78 180.41 479,614.44 91.50 180.70 11,147.38 8,799.53 -8,799.53 -63.52 8,799.76 180.41 479,619.47 90.70 180.70 11,145.54 8,894.88 -8,895.51 -64.36 8,895.74 180.41 479,423.49 90.70 180.80 11,144.71 8,999.87 -8,990.50 -65.27 8,990.73 180.41 479,423.49 90.40 180.60 11,144.71 9,085.85 -9,086.49 -66.44 9,086.73 180.42 479,423.55 89.50 180.50 11,144.37 9,181.84 -9,182.48 -67.36 9,182.73 180.42 479,041.52 89.50 179.80 11,144.37 9,276.83 -9,277.48 -67.51 9,277.73 180.41 478,945.52 89.50 179.80 11,146.45 9,467.82 -9,468.47 -66.61 9,488.70 180.41 478,945.52 88.70 178.70		9,550.00	91.10		11,151.55	8,607.97	-8,608.58	-62.44	8,608.80	180.42	479,710.42	763,577.56
91.50180.7011,147.388,798.51-8,799.53-63.528,799.76180.41479,519.4790.70180.3011,145.548,894.88-8,895.51-64.368,895.74180,41479,423.4990.70180.8011,144.719,085.85-9,086.49-66.449,086.73180,42479,232.5190.40180.5011,144.379,181.84-9,182.48-67.619,182.77479,136,5289.50179.8011,144.379,372.82-9,373.48-67.619,377.73180.42478,945.5289.00179.4011,146.459,467.82-9,468.47-66.619,468.70180.40478,850.5388.70178.7011,148.389,563.79-9,564.43-65.059,564.65180.39478,754.57		9,646.00	91.20		11,149.62	8,703.95	-8,704.56	-62.86	8,704.78	180.41	479,614.44	763,577.14
90.70180.3011,145.548,894.88-8,895.51-64.368,895.74180,41479,423.4990.30180.8011,144.718,998.87-9,086.49-66.278,990.73180,42479,423.4590.40180.6011,144.129,085.85-9,086.49-66.449,086.73180,42479,136,5289.50180.6011,144.379,181.84-9,182.48-67.369,182.73180.42479,136,5289.50179.8011,146.459,372.82-9,373.48-67.289,373.72180.41478,945.5289.70179.4011,146.459,467.82-9,468.47-66.619,468.70180.40478,850.5388.70178.7011,148.389,563.79-9,564.43-65.029,564.65180.39478,754.57		9,741.00	91.50		11,147.38	8,798.91	-8,799.53	-63.52	8,799.76	180.41	479,519.47	763,576.48
90.30 180.80 11,144.71 8,989.87 -8,990.50 -66.44 9,980.73 180.42 479,328.50 90.40 180.60 11,144.12 9,085.85 -9,086.49 -66.44 9,086.73 180.42 479,136.52 89.50 180.60 11,143.87 9,181.84 -9,182.48 -67.61 9,182.73 180.42 479,136.52 89.50 179.80 11,146.21 9,372.82 -9,373.48 -67.28 9,373.72 180.41 478,945.52 89.00 179.40 11,146.45 9,467.82 -9,468.47 -66.61 9,468.70 180.40 478,850.53 88.70 178.70 11,148.38 9,563.79 -9,564.43 -65.62 9,564.65 180.39 478,754.57 88.70 178.80 11,149.81 9,626.77 -9,627.40 -9,627.40 9,627.61 9,627.61 9,627.61 9,627.61 9,627.61 9,627.61 9,627.61 9,627.61 9,627.61 9,627.61 9,627.61 9,627.61 9,627.61 9,627.61 9,627.61	_	9,837.00	90.70		11,145.54	8,894.88	-8,895.51	-64.36	8,895.74	180,41	479,423.49	763,575.64
90.40 180.60 11,144.12 9,085.85 -9,086.49 -66.44 9,086.73 180.42 479,232.51 89.90 180.50 11,143.87 9,181.84 -9,182.48 -67.36 9,182.73 180.42 479,136,52 89.50 179.80 11,144.21 9,272.82 -9,277.48 -67.28 9,277.73 180.41 478,945.52 89.00 179.40 11,146.45 9,467.82 -9,468.47 -66.61 9,468.70 180.40 478,850.53 88.70 178.70 11,148.38 9,563.74 -9,564.43 -65.02 9,564.65 180.39 478,754.57 88.70 178.80 11,149.81 9,626.77 -9,627.40 -63.65 9,627.61 180.39 478,691,60	_	9,932.00	90.30		11,144.71	8,989.87	05'066'8-	-65.27	8,990.73	180.42	479,328.50	763,574.73
89.50 179.80 11,143.73 9,182.48 -67.36 9,182.73 180.42 479,136,52 89.50 179.80 11,144.37 9,276.83 -9,277.48 -67.61 9,277.73 180.42 479,041.52 89.50 179.40 11,146.45 9,467.82 -9,468.47 -66.61 9,468.70 180.40 478,850.53 88.70 178.70 11,148.38 9,563.74 -9,564.43 -65.02 9,564.65 180.39 478,754.57 88.70 178.80 11,149.81 9,626.77 -9,627.40 -63.65 9,627.61 180.38 478,691,60	2	0,028.00	90.40		11,144.12	9,085.85	-9,086.49	-66.44	9,086.73	180.42	479,232.51	763,573.56
89.50 179.80 11,146.43 9,277.83 -9,277.48 -67.61 9,277.73 180.42 479,041.52 89.50 179.40 11,146.45 9,372.82 -9,373.48 -66.61 9,478.70 180.40 478,945.52 88.70 178.70 11,148.38 9,563.79 -9,564.43 -65.02 9,564.65 180.39 478,754.57 88.70 178.80 11,149.81 9,626.77 -9,627.40 -63.65 9,627.61 180.38 478,691,60		0,124.00	89.90		11,143.87	9,181.84	-9,182.48	-67.36	9,182.73	180.42	479,136.52	763,572,64
89.50 179.40 11,146.45 9,372.82 -9,373.48 -67.28 9,373.72 180.41 478,945.52 89.00 179.40 11,146.45 9,467.82 -9,468.47 -66.61 9,468.70 180.40 478,850.53 88.70 178.70 11,148.38 9,563.74 -9,564.43 -65.02 9,564.65 180.39 478,754.57 88.70 178.80 11,149.81 9,626.77 -9,627.40 -63.65 9,627.61 180.38 478,691,60	2	00,219.00	89.50		11,144.37	9,276.83	-9,277.48	-67.61	9,277.73	180,42	479,041.52	763,572.39
89.00 179.40 11,146.45 9,467.82 -9,468.47 -66.61 9,468.70 180.40 478,850.53 88.70 178.70 11,148.38 9,563.79 -9,564.43 -65.02 9,564.65 180.39 478,754.57 88.70 178.80 11,149.81 9,626.77 -9,627.40 -63.65 9,627.61 180.38 478,691,60	2	00,315.00	89.50		11,145.21	9,372.82	-9,373.48	-67.28	9,373.72	180.41	478,945.52	763,572.72
88.70 178.70 11,148.38 9,563.79 -9,564.43 -65.02 9,564.65 180.39 478,754.57 88.70 178.80 11,149.81 9,626.77 -9,627.40 -63.65 9,627.61 180.38 478,691,60	2	0,410.00	89.00		11,146.45	9,467.82	-9,468.47	-66.61	9,468.70	180,40	478,850.53	763,573,39
88.70 178.80 11,149.81 9,626.77 -9,627.40 -63.65 9,627.61 180.38 478,691,60	2	00,506.00	88.70		11,148.38	9,563.79	-9,564.43	-65.02	9,564.65	180.39	478,754.57	763,574.98
	2	00'269'00	88.70		11,149.81	9,626.77	-9,627.40	-63.65	9,627.61	180.38	478,691.60	763,576.35

ProDirectional

PRODIRECTIONAL

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 122H
Project:	Lea County, NM (NAD83)	TVD Reference;	Well @ 3760.50usft
Site:	Rodney Robinson Federal	MD Reference:	Well @ 3760.50usft
Well:	No. 122H	North Reference:	Grid
Wellbore:	НО	Survey Calculation Method:	Minimum Curvature
Design:	MWD-193'-21047', PTB: 21224	Database:	WellPlanner1
		And the last of th	

Easting (usft)	763,578.45	763,580.79	763,583.77	763,588.53	763,595.55		763,610.62	
Northing (usft)	478,595.66	478,499.76	478,404.97	478,309.36	478,214.90		478,039.04	
Closure Azimuth	180.36	180.35	180.32	180.29	180.25		180.16	
Closure Distance C	9,723.54	9,819.42	9,914.19	10,009.77	10,104.20		10,280.00	
E/W t	-61.55	-59.21	-56.23	-51.47	-44.45		-29.38	
N/S (usft)	-9,723.34	-9,819.24	-9,914.03	-10,009.64	-10,104.10		-10,279.96	
V. Sec (usft)	9,722.72	9,818.63	9,913,44	10,009.08	10,103.58		10,279.54	
TVD (usft)	11,152.49	11,156.17	11,161,72	11,168.92	11,176.13		11,189.40	
Azi (azimuth)	178.70	178.50	177.90	176,40	175.10		175.10	
in G	88.10	87,50	85.80	85.60	85.70	" MD	85.70	
Survey MD (usft)	20,665.00	20,761.00	20,856.00	20,952.00	21,047.00	Last Survey: 21047' MD	21,224.00	PTB: 21224' MD

				0.66 Pro MWD First Survey: 193' MD	yy: 21047' MD	.4' MD
	inates	+E/-W	(usft) Comment	0.66 Pro MWD	-44.45 Last Survey: 21047' MD	-29.38 PTB: 21224' MD
	Local Coordinate	S-/N+	(nstt)	0.77	-10,104.10	-10,279.96
	Vertical	Depth	(nstt)	193.00	11,176.13	11,189.40
esign Annotations	Measured	Depth	(nstt)	193,00	21,047.00	21,224.00