<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Form C-101 August 1, 2011

Permit 351109

	APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD	A ZONE

Operator Name and Address	2. OGRID Number	
MATADOR PRODUCTION COMPAN'	228937	
One Lincoln Centre	3. API Number	
Dallas, TX 75240		30-025-52039
4. Property Code	5. Property Name	6. Well No.
325757	GREVEY COM	121H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	20	26S	35E	D	380	N	948	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	29	26S	35E	E	2532	N	990	W	Lea

9. Pool Information

WC-025 G-08 S263412K;BONE SPRING	96672

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3182
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	18085	Bone Spring		10/19/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☑ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1080	730	0
Int1	9.875	7.625	29.7	10396	1970	0
Prod	6.75	5.5	20	18085	570	10196

Casing/Cement Program: Additional Comments

out in grant in the grant in th									

22. Proposed Blowout Prevention Program

zzi i i o o o o o zi zi i o o o o o zi zi i o o o o									
Туре	Working Pressure	Test Pressure	Manufacturer						
Annular	2500	5000	Cameron						
Double Ram	5000	10000	Cameron						
Pipe	5000	10000	Cameron						

knowledge and b	pelief. have complied with 19.15.14.9 (A)	true and complete to the best of my		OIL CONSERVATIO	ON DIVISION	
Printed Name:	Electronically filed by Brett A Jeni	nings	Approved By:	Paul F Kautz		
Title:	Regulatory Analyst			Geologist		
Email Address: brett.jennings@matadorresources.com			Approved Date:	10/3/2023 Expiration Date: 10/3/2025		
Date: 9/28/2023 Phone: 972-629-2160			Conditions of Approval Attached			

District I.

f625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II

f11 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III

f000 Rio Brazos Roud, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV

f1220 S. 31, Francis Dr., Santa Fc, NM 875460
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

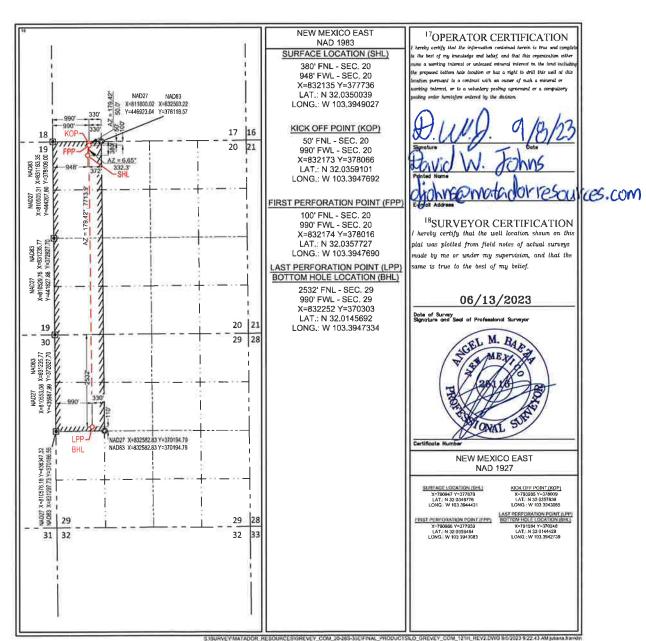
FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT 'API Number 94672 W(-025 G-08 5263412K Property Code Property Name GREVEY COM 121H Operator Name Elevation OGRID No. 3182 MATADOR PRODUCTION COMPANY 228937 10Surface Location Feet from the Section Township Range

D	20	26-S	35-E	=	380'	NORTH	948'	WEST	LEA	
	11Bottom Hole Location If Different From Surface									
UL or lot no.	Section 29	Township 26-S	35-E	Lot Idn	Feet from the 2532'	North/South line NORTH	990'	East/West line WEST	LEA	
"Dedicated Acres 240	⁷³ Joint or	Infill MC	onsolidation Code	¹⁵ Order	r No.					

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Form APD Conditions

Permit 351109

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MATADOR PRODUCTION COMPANY [228937]	30-025-52039
One Lincoln Centre	Well:
Dallas, TX 75240	GREVEY COM #121H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	If cement does not circulate on any string , a CBL is required for that string of casing.
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

		Ef	fective May 25,	2021				
I. Operator: <u>Matador</u>	Resources		OGRID: <u>_228</u>	3937		_Date:	09	/19/2023
SR #111H 925' FWL 900 2.500 1.600								
If Other, please describe	2.							
					vells pro	posed to be	e drill	ed or proposed to
Well Name	API	ULSTR	Footages	4		•		oduced Water
Grevey 20&29-26S-35E AR #111H	TBD	D 20 – 26S – 35E		800	1,	000		1,000
Grevey 20&29-26S-35E AR #121H	TBD	D 20 – 26S – 35E	1	900	2.	500		1.600
Grevey 20&29-26S-35E AR #131H (previously 215H)	TBD	D 20 – 26S – 35E		900	2,	600		1,600
Grevey 20&29-26S-35E AR #225H	TBD	D 20 – 26S – 35E	402' FNL & 968' FWL	800	1,	100		2,500
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple	le: Provide the	e following informat			ell or se			.9(D)(1) NMAC] ed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flo Back Da	- 1	First Production Date
Grevey 20&29-26S-35E	TBD	2/14/2024	03/07/2024	04/05/2024		05/05/202	24	05/05/2024

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
			Date	Commencement Date	Dack Date	Date
Grevey 20&29-26S-35E AR #111H	TBD	2/14/2024	03/07/2024	04/05/2024	05/05/2024	05/05/2024
Grevey 20&29-26S-35E AR #121H	TBD	01/23/2024	02/13/2024	04/05/2024	05/05/2024	05/05/2024
Grevey 20&29-26S-35E AR #131H (previously 215H)	TBD	12/31/2023	01/22/2024	04/05/2024	05/05/2024	05/05/2024
Grevey 20&29-26S-35E AR #225H	TBD	03/08/2024	04/04/2024	04/05/2024	05/05/2024	05/05/2024

- VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.
- VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.
- VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

		EFFECTIV	E AI RIL 1, 2022	
	2022, an operator that complete this section		ith its statewide natural gas	capture requirement for the applicable
Operator certific capture requiremen	es that it is not requir t for the applicable re	ed to complete this section porting area.	on because Operator is in con	npliance with its statewide natural gas
IX. Anticipated Na	atural Gas Producti	on:		
W	/ell	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Of Gas for the First Year MCF
X. Natural Gas Ga	nthering System (NC	GGS):		
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
production operation the segment or port XII. Line Capacity	ns to the existing or point of the natural gas y. The natural gas ga	planned interconnect of the gathering system(s) to v	he natural gas gathering syst which the well(s) will be con	nticipated pipeline route(s) connecting the em(s), and the maximum daily capacity of nected.
				ed to the same segment, or portion, of the line pressure caused by the new well(s).
☐ Attach Operator	's plan to manage pro	oduction in response to th	ne increased line pressure.	
Section 2 as provide	ed in Paragraph (2) o		27.9 NMAC, and attaches a	SA 1978 for the information provided in full description of the specific information

(i)

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan. \square Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) power generation for grid; (b) (c) compression on lease; liquids removal on lease; (d) reinjection for underground storage; (e) reinjection for temporary storage; (f) reinjection for enhanced oil recovery; (g) (h) fuel cell production; and

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

other alternative beneficial uses approved by the division.

- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Oscar Loyales
Printed Name: Oscar Gonzalez
Title: Production Engineer
E-mail Address: ogonzalez@matadorresources.com
Date: 10/03/2023
Phone: 972 – 629 – 2147
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Addendum to Natural Gas Management Plan for Matador's Grevey #111H, Grevey #121H, Grevey #131H, Grevey #225H,

VI. Separation Equipment

Flow from the wells will be routed via a flowline to a 48"x15" three phase separator dedicated to the well. The first stage separators are sized with input from BRE ProMax and API 12J. Anticipated production rates can be seen in the below table. Liquid retention times at expected maximum rates will be >3 minutes. Gas will be routed from the first stage separator to sales. Hydrocarbon liquids are dumped from the first stage separator and commingled to one or more heater treaters. The flash gas from the heater treater(s) could either be sent to sales or routed to a compressor if the sales line pressure is higher than the MAWP of the heater treater (125 psi). From the heater treaters, hydrocarbon liquid will be routed to the tanks where vapor is compressed by a VRU if technically feasible to either sales or a compressor if the sales line pressure is higher than the VRU's maximum discharge pressure (~150 psi). Therefore, Matador has sized our separation equipment to optimize gas capture and our separation equipment is of sufficient size to handle the expected volumes of gas.

Well Name	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Grevey 20&29-26S-35E AR #111H	800	1,000	1,000
Grevey 20&29-26S-35E AR #121H	900	2,500	1,600
Grevey 20&29-26S-35E AR #131H (previously 215H)	900	2,600	1,600
Grevey 20&29-26S-35E AR #225H	800	1,100	2,500

VII. Operation Practices

Although not a complete recitation of all our efforts to comply with a subsection A through F of 19.15.27.8 NMAC, a summary is as follows. During drilling, Matador will have a properly sized flare stack at least 100 feet from the nearest surface hole. During initial flowback we will route the flowback fluids into completion or storage tanks and, to the extent possible, flare rather than vent any gas. We will commence operation of a separator as soon as technically feasible, and have instructed our team that we want to connect the gas to sales as soon as possible but not later than 30 days after initial flowback.

Regarding production operations, we have designed our production facilities to be compliant with the requirements of Part E of 19.15.27.8 NMAC. We will instruct our team to perform the AVOs on the frequency required under the rules. While the well is producing, we will take steps to minimize flaring during maintenance, as set forth below, and we have a process in place for the measuring of any flared gas and the reporting of any reportable flaring events.

VII. Best Management Practices

Steps are taken to minimize venting during active or planned maintenance when technically feasible including:

- Isolating the affected component and reducing pressure through process piping
- Blowing down the equipment being maintained to a control device
- Performing preventative maintenance and minimizing the duration of maintenance activities
- Shutting in sources of supply as possible
- Other steps that are available depending on the maintenance being performed

Received by OCD: 9/28/2023 2:37:24 PM

Well Name:	Grevey Com #121H									
STRING	FLUID TYPE	HOLE SZ	CSG SZ	CSG GRADE	CSG WT	DEPTH SET	TOP CSG	TTL SX CEMENT	EST TOC	ADDITIONAL INFO FOR CSG/CMT PROGRAM (Optional)
SURF	FRESH WTR	17.5	13.375	J-55	54.50	1080	0	730	0	Option to drill surface hole with surface setting rig
INT 1	Diesel Brine Emulsion	9.875	7.625	P-110	29.70	10396	0	1970	0	Option to run DV tool and Packer.
PROD	OBM/Cut Brine	6.75	5.5	P-110	20.00	18085	0	570	10196	

Matador Production Company

Antelope Ridge Grevey Grevey Com #121H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

25 September, 2023

EDM 5000.14 Single User Db Database: Company: Matador Production Company

Project: Antelope Ridge Site: Grevey Well: Wellbore:

Grevey Com #121H Wellbore #1 State Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Grevey Com #121H

KB @ 3210.5usft KB @ 3210.5usft

Grid

Minimum Curvature

Project Antelope Ridge

Design:

Map System: US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS) Geo Datum:

New Mexico East 3001 Map Zone:

System Datum:

Mean Sea Level

Using geodetic scale factor

Site Grevey

Northing: 377,732.20 usft Site Position: 32° 2' 6.082 N Latitude: From: Lat/Long Easting: 791,006.46 usft Longitude: 103° 23' 39.293 W Slot Radius: **Grid Convergence: Position Uncertainty:** 0.0 usft 13-3/16 " 0.50

Well Grevey Com #121H

Well Position +N/-S -53.4 usft 377,678.82 usft Latitude: 32° 2' 5.559 N Northing: +E/-W -59.4 usft Easting: 790,947.06 usft Longitude: 103° 23' 39.988 W

0.0 usft Wellhead Elevation: **Ground Level:** 3,182.0 usft **Position Uncertainty**

Wellbore Wellbore #1 Magnetics **Model Name** Sample Date Declination **Dip Angle** Field Strength (°) (°) (nT) IGRF2015 6/22/2023 6.20 59.83 47.228.92763609

State Plan #1 Design Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0 0 0.0 0.0 179.10

9/25/2023 Plan Survey Tool Program Date

Depth From Depth To

(usft) (usft) Survey (Wellbore)

Tool Name Remarks

0.0 18,607.4 State Plan #1 (Wellbore #1) MWD

OWSG MWD - Standard

Plan Sections Vertical Build Measured Dogleg Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate **TFO** (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (°) (°) (usft) (usft) (°) Target 0.00 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 2,500.0 0.00 0.00 2,500.0 0.0 0.0 0.00 0.00 0.00 0.00 3,300.0 8.00 342.49 3,297.4 53.2 -16.8 1.00 1.00 0.00 342.49 4.817.5 8.00 342.49 4.800.1 254.6 -80.3 0.00 0.00 0.00 0.00 5.350.8 290.0 -91.5 0.00 0.00 5,331.7 1.50 -1 50 0.00 180 00 10,546.1 0.00 0.00 10,527.0 290.0 -91.5 0.00 0.00 0.00 0.00 VP - Grevey Com #12 11,446.1 90.00 170.10 11,100.0 -274.4 7.0 10.00 10.00 0.00 170.10 90.00 179 42 -738.1 49.5 2.00 0.00 2.00 11,912.3 11,100.0 18.607.4 90.00 179.42 11.100.0 -7.432.9 116.8 0.00 0.00 0.00 0.00 BHL - Grevey Com #1

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Antelope Ridge
Site: Grevey
Well: Grevey Com #121H
Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

KB @ 3210.5usft KB @ 3210.5usft Grid Minimum Curvature

Well Grevey Com #121H

anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,068.0	0.00	0.00	1,068.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,479.3	0.00	0.00	1,479.3	0.0	0.0	0.0	0.00	0.00	0.00
Salado									
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1	.00								
2,600.0	1.00	342.49	2,600.0	0.8	-0.3	-0.8	1.00	1.00	0.00
2,700.0	2.00	342.49	2,700.0	3.3	-1.1	-3.3	1.00	1.00	0.00
2,800.0	3.00	342.49	2,799.9	7.5	-2.4	-7.5	1.00	1.00	0.00
2,900.0	4.00	342.49	2,899.7	13.3	-4.2	-13.4	1.00	1.00	0.00
3,000.0	5.00	342.49	2,999.4	20.8	-6.6	-20.9	1.00	1.00	0.00
3,100.0	6.00	342.49	3,098.9	29.9	-9.4	-30.1	1.00	1.00	0.00
3,200.0	7.00	342.49	3,198.3	40.7	-12.8	-40.9	1.00	1.00	0.00
3,300.0	8.00	342.49	3,297.4	53.2	-16.8	-53.4	1.00	1.00	0.00
Start 1517.5	hold at 3300.0 M	ID							
3,400.0	8.00	342.49	3,396.4	66.4	-21.0	-66.8	0.00	0.00	0.00
3,500.0	8.00	342.49	3,495.5	79.7	-25.1	-80.1	0.00	0.00	0.00
3,600.0	8.00	342.49	3,594.5	93.0	-29.3	-93.4	0.00	0.00	0.00
3,700.0	8.00	342.49	3,693.5	106.3	-33.5	-106.8	0.00	0.00	0.00
3,800.0	8.00	342.49	3,792.5	119.5	-37.7	-120.1	0.00	0.00	0.00
3,900.0	8.00	342.49	3,891.6	132.8	-37.7 -41.9	-120.1	0.00	0.00	0.00
4,000.0	8.00	342.49	3,990.6	146.1	-41.9 -46.1	-133.3	0.00	0.00	0.00
4,100.0	8.00	342.49	4,089.6	159.4	-50.3	-140.0	0.00	0.00	0.00
4,200.0	8.00	342.49	4,188.6	172.6	-54.5	-173.5	0.00	0.00	0.00
4,300.0	8.00	342.49	4,287.7	185.9	-58.6	-186.8	0.00	0.00	0.00
4,400.0	8.00	342.49	4,386.7	199.2	-62.8	-200.1	0.00	0.00	0.00
4,500.0	8.00	342.49	4,485.7	212.4	-67.0	-213.5	0.00	0.00	0.00
4,600.0	8.00	342.49	4,584.8	225.7	-71.2	-226.8	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Antelope Ridge
Site: Grevey
Well: Grevey Com #121H
Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

•	State Plan #1								
ed Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,700.0	8.00	342.49	4,683.8	239.0	-75.4	-240.1	0.00	0.00	0.00
4,800.0 4,817.5	8.00 8.00	342.49 342.49	4,782.8 4,800.1	252.3 254.6	-79.6 -80.3	-253.5 -255.8	0.00 0.00	0.00 0.00	0.00 0.00
Start Drop -			.,						
4,900.0	6.76	342.49	4,881.9	264.7	-83.5	-266.0	1.50	-1.50	0.00
5,000.0	5.26	342.49	4,981.4	274.7	-86.6	-276.0	1.50	-1.50	0.00
5,100.0	3.76	342.49	5,081.1	282.2	-89.0	-283.6	1.50	-1.50	0.00
5,200.0	2.26	342.49	5,180.9	287.2	-90.6	-288.6	1.50	-1.50	0.00
5,300.0	0.76	342.49	5,280.9	289.7	-91.4	-291.1	1.50	-1.50	0.00
5,350.8	0.00	0.00	5,331.7	290.0	-91.5	-291.4	1.50	-1.50	0.00
	hold at 5350.8 M								
5,354.7	0.00	0.00	5,335.6	290.0	-91.5	-291.4	0.00	0.00	0.00
G30:CS14-C									
5,388.9	0.00	0.00	5,369.8	290.0	-91.5	-291.4	0.00	0.00	0.00
G26: Bell C	yn.								
5,400.0	0.00	0.00	5,380.9	290.0	-91.5	-291.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,480.9	290.0	-91.5	-291.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,580.9	290.0	-91.5	-291.4	0.00	0.00	0.00
5,700.0	0.00	0.00	5,680.9	290.0	-91.5	-291.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,780.9	290.0	-91.5	-291.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,880.9	290.0	-91.5	-291.4	0.00	0.00	0.00
6,000.0	0.00	0.00	5,980.9	290.0	-91.5	-291.4	0.00	0.00	0.00
6,100.0	0.00	0.00	6,080.9	290.0	-91.5	-291.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,180.9	290.0	-91.5	-291.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,280.9	290.0	-91.5	-291.4	0.00	0.00	0.00
6,400.0	0.00	0.00	6,380.9	290.0	-91.5	-291.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,480.9	290.0	-91.5	-291.4	0.00	0.00	0.00
6,600.0 6,623.1	0.00 0.00	0.00 0.00	6,580.9	290.0	-91.5	-291.4 -291.4	0.00	0.00	0.00
		0.00	6,604.0	290.0	-91.5	-291.4	0.00	0.00	0.00
G13: Cherry 6,700.0	0.00	0.00	6,680.9	290.0	-91.5	-291.4	0.00	0.00	0.00
,									
6,800.0	0.00	0.00	6,780.9	290.0	-91.5	-291.4	0.00	0.00	0.00
6,900.0	0.00 0.00	0.00	6,880.9	290.0	-91.5	-291.4	0.00	0.00	0.00
7,000.0 7,100.0	0.00	0.00 0.00	6,980.9 7,080.9	290.0 290.0	-91.5 -91.5	-291.4 -291.4	0.00 0.00	0.00 0.00	0.00 0.00
7,100.0	0.00	0.00	7,080.9	290.0	-91.5 -91.5	-291.4	0.00	0.00	0.00
7,300.0 7,400.0	0.00 0.00	0.00 0.00	7,280.9 7,380.9	290.0 290.0	-91.5 -91.5	-291.4 -291.4	0.00 0.00	0.00 0.00	0.00 0.00
7,500.0	0.00	0.00	7,380.9 7,480.9	290.0	-91.5 -91.5	-291.4 -291.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,580.9	290.0	-91.5 -91.5	-291.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,680.9	290.0	-91.5	-291.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,780.9	290.0	-91.5	-291.4	0.00	0.00	0.00
7,841.7	0.00	0.00	7,822.6	290.0	-91.5	-291.4	0.00	0.00	0.00
G7: Brushy									
7,900.0	0.00	0.00	7,880.9	290.0	-91.5	-291.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,980.9	290.0	-91.5	-291.4	0.00	0.00	0.00
8,100.0	0.00	0.00	8,080.9	290.0	-91.5	-291.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,180.9	290.0	-91.5	-291.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,280.9	290.0	-91.5	-291.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,380.9	290.0	-91.5	-291.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,480.9	290.0	-91.5	-291.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,580.9	290.0	-91.5	-291.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,680.9	290.0	-91.5	-291.4	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

 Project:
 Antelope Ridge

 Site:
 Grevey

 Well:
 Grevey Com #121H

 Wellbore:
 Wellbore #1

 Design:
 State Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

sign:	State Plan #1								
anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,800.0	0.00	0.00	8,780.9	290.0	-91.5	-291.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,880.9	290.0	-91.5	-291.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,980.9	290.0	-91.5	-291.4	0.00	0.00	0.00
9,100.0	0.00	0.00	9,080.9	290.0	-91.5	-291.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,180.9	290.0	-91.5	-291.4	0.00	0.00	0.00
9,261.3	0.00	0.00	9,242.2	290.0	-91.5	-291.4	0.00	0.00	0.00
G4: BSGL (•								
9,300.0	0.00	0.00	9,280.9	290.0	-91.5	-291.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,380.9	290.0	-91.5	-291.4	0.00	0.00	0.00
9,403.4	0.00	0.00	9,384.3	290.0	-91.5	-291.4	0.00	0.00	0.00
L8.2: U. Ava	lon Shale								
9,500.0	0.00	0.00	9,480.9	290.0	-91.5	-291.4	0.00	0.00	0.00
9,513.6	0.00	0.00	9,494.5	290.0	-91.5	-291.4	0.00	0.00	0.00
L6.3: Avalor									
9,600.0	0.00	0.00	9,580.9	290.0	-91.5	-291.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,680.9	290.0	-91.5	-291.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,780.9	290.0	-91.5	-291.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,880.9	290.0	-91.5	-291.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,980.9	290.0	-91.5	-291.4	0.00	0.00	0.00
10,100.0	0.00	0.00	10,080.9	290.0	-91.5	-291.4	0.00	0.00	0.00
10,195.2	0.00	0.00	10,176.1	290.0	-91.5	-291.4	0.00	0.00	0.00
L6.2: L. Ava									
10,200.0	0.00	0.00	10,180.9	290.0	-91.5	-291.4	0.00	0.00	0.00
10,300.0	0.00	0.00	10,280.9	290.0	-91.5	-291.4	0.00	0.00	0.00
10,400.0	0.00	0.00	10,380.9	290.0	-91.5	-291.4	0.00	0.00	0.00
10,453.1	0.00	0.00	10,434.0	290.0	-91.5	-291.4	0.00	0.00	0.00
L5.3: FBSC									
10,500.0	0.00	0.00	10,480.9	290.0	-91.5	-291.4	0.00	0.00	0.00
10,520.1	0.00	0.00	10,501.0	290.0	-91.5	-291.4	0.00	0.00	0.00
L5.1: FBSG									
10,546.1	0.00	0.00	10,527.0	290.0	-91.5	-291.4	0.00	0.00	0.00
Start Build '	10.00 - VP - Greve	ey Com #121H							
10,600.0	5.39	170.10	10,580.8	287.5	-91.1	-288.9	10.00	10.00	0.00
10,669.5	12.34	170.10	10,649.4	277.0	-89.2	-278.4	10.00	10.00	0.00
L4.3: SBSC									
10,700.0	15.39	170.10	10,679.1	269.8	-88.0	-271.1	10.00	10.00	0.00
10,800.0	25.39	170.10	10,772.7	235.5	-82.0	-236.8	10.00	10.00	0.00
10,900.0	35.39	170.10	10,858.8	185.7	-73.3	-186.9	10.00	10.00	0.00
10,974.7	42.86	170.10	10,916.7	139.3	-65.2	-140.4	10.00	10.00	0.00
L4.1: SBSG									
11,000.0	45.39	170.10	10,934.9	122.0	-62.2	-123.0	10.00	10.00	0.00
	y Com #121H								
11,100.0	55.39	170.10	10,998.6	46.2	-48.9	-47.0	10.00	10.00	0.00
11,200.0	65.39	170.10	11,047.9	-39.3	-34.0	38.8	10.00	10.00	0.00
11,300.0	75.39	170.10	11,081.4	-132.0	-17.8	131.7	10.00	10.00	0.00
11,400.0	85.39	170.10	11,098.1	-229.0	-0.9	229.0	10.00	10.00	0.00
11,446.1	90.00	170.10	11,100.0	-274.4	7.0	274.5	10.00	10.00	0.00
	00 TFO 90.00								
11,500.0	90.00	171.18	11,100.0	-327.6	15.8	327.8	2.00	0.00	2.00
11,600.0	90.00	173.18	11,100.0	-426.6	29.4	427.0	2.00	0.00	2.00
11,700.0	90.00	175.18	11,100.0	-526.1	39.5	526.7	2.00	0.00	2.00
11,800.0	90.00	177.18	11,100.0	-625.9	46.2	626.5	2.00	0.00	2.00
11,900.0	90.00	179.18	11,100.0	-725.8	49.4	726.5	2.00	0.00	2.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Antelope Ridge
Site: Grevey
Well: Grevey Com #121H
Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Grevey Com #121H

KB @ 3210.5usft KB @ 3210.5usft

Grid Minimum Curvature

1:	State Plan #1								
ed Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,912.3	90.00	179.42	11,100.0	-738.1	49.5	738.8	2.00	0.00	2.00
Start 6695.	1 hold at 11912.3	MD							
12,000.0	90.00	179.42	11,100.0	-825.8	50.4	826.5	0.00	0.00	0.00
12,100.0	90.00	179.42	11,100.0	-925.8	51.4	926.5	0.00	0.00	0.00
12,200.0	90.00	179.42	11,100.0	-1,025.8	52.4	1,026.5	0.00	0.00	0.00
12,300.0	90.00	179.42	11,100.0	-1,125.8	53.4	1,126.5	0.00	0.00	0.00
12,400.0	90.00	179.42	11,100.0	-1,225.8	54.4	1,226.5	0.00	0.00	0.00
12,500.0	90.00	179.42	11,100.0	-1,325.8	55.4	1,326.5	0.00	0.00	0.00
12,600.0	90.00	179.42	11,100.0	-1,425.8	56.4	1,426.5	0.00	0.00	0.00
12,700.0		179.42	11,100.0	-1,525.8	57.4	1,526.5	0.00	0.00	0.00
12,800.0		179.42	11,100.0	-1,625.8	58.5	1,626.5	0.00	0.00	0.00
12,900.0		179.42	11,100.0	-1,725.8	59.5	1,726.5	0.00	0.00	0.00
13,000.0		179.42	11,100.0	-1,825.8	60.5	1,826.5	0.00	0.00	0.00
13,100.0		179.42	11,100.0	-1,925.8	61.5	1,926.5	0.00	0.00	0.00
13,200.0		179.42	11,100.0	-2,025.8	62.5	2,026.5	0.00	0.00	0.00
13,300.0		179.42	11,100.0	-2,125.8	63.5	2,126.5	0.00	0.00	0.00
13,400.0		179.42	11,100.0	-2,225.8	64.5	2,226.5	0.00	0.00	0.00
13,500.0	90.00	179.42	11,100.0	-2,325.8	65.5	2,326.5	0.00	0.00	0.00
13,600.0	90.00	179.42	11,100.0	-2,425.7	66.5	2,426.5	0.00	0.00	0.00
13,700.0	90.00	179.42	11,100.0	-2,525.7	67.5	2,526.5	0.00	0.00	0.00
13,800.0		179.42	11,100.0	-2,625.7	68.5	2,626.5	0.00	0.00	0.00
13,900.0	90.00	179.42	11,100.0	-2,725.7	69.5	2,726.5	0.00	0.00	0.00
14,000.0	90.00	179.42	11,100.0	-2,825.7	70.5	2,826.5	0.00	0.00	0.00
14,100.0		179.42	11,100.0	-2,925.7	71.5	2,926.5	0.00	0.00	0.00
14,200.0		179.42	11,100.0	-3,025.7	72.5	3,026.5	0.00	0.00	0.00
14,300.0		179.42	11,100.0	-3,125.7	73.5	3,126.5	0.00	0.00	0.00
14,400.0		179.42	11,100.0	-3,225.7	74.5	3,226.5	0.00	0.00	0.00
14,500.0		179.42	11,100.0	-3,325.7	75.5	3,326.5	0.00	0.00	0.00
14,600.0		179.42	11,100.0	-3,425.7	76.5	3,426.5	0.00	0.00	0.00
14,700.0		179.42	11,100.0	-3,525.7	77.6	3,526.5	0.00	0.00	0.00
14,800.0		179.42	11,100.0	-3,625.7	78.6	3,626.5	0.00	0.00	0.00
14,900.0		179.42	11,100.0	-3,725.7	79.6	3,726.5	0.00	0.00	0.00
15,000.0	90.00	179.42	11,100.0	-3,825.7	80.6	3,826.5	0.00	0.00	0.00
15,100.0		179.42	11,100.0	-3,925.7	81.6	3,926.5	0.00	0.00	0.00
15,200.0		179.42	11,100.0	-4,025.7	82.6	4,026.5	0.00	0.00	0.00
15,300.0		179.42	11,100.0	-4,125.7	83.6	4,126.5	0.00	0.00	0.00
15,400.0		179.42	11,100.0	-4,225.7	84.6	4,226.5	0.00	0.00	0.00
15,500.0		179.42	11,100.0	-4,325.7	85.6	4,326.5	0.00	0.00	0.00
15,600.0		179.42	11,100.0	-4,425.6	86.6	4,426.5	0.00	0.00	0.00
15,700.0		179.42	11,100.0	-4,525.6	87.6	4,526.5	0.00	0.00	0.00
15,800.0		179.42	11,100.0	-4,625.6	88.6	4,626.5	0.00	0.00	0.00
15,900.0		179.42	11,100.0	-4,725.6	89.6	4,726.5	0.00	0.00	0.00
16,000.0	90.00	179.42	11,100.0	-4,825.6	90.6	4,826.5	0.00	0.00	0.00
16,100.0		179.42	11,100.0	-4,925.6	91.6	4,926.5	0.00	0.00	0.00
16,200.0		179.42	11,100.0	-5,025.6	92.6	5,026.5	0.00	0.00	0.00
16,300.0		179.42	11,100.0	-5,125.6	93.6	5,126.5	0.00	0.00	0.00
16,400.0		179.42	11,100.0	-5,225.6	94.6	5,226.4	0.00	0.00	0.00
16,500.0	90.00	179.42	11,100.0	-5,325.6	95.6	5,326.4	0.00	0.00	0.00
16,600.0		179.42	11,100.0	-5,425.6	96.7	5,426.4	0.00	0.00	0.00
16,700.0		179.42	11,100.0	-5,525.6	97.7	5,526.4	0.00	0.00	0.00
16,800.0		179.42	11,100.0	-5,625.6	98.7	5,626.4	0.00	0.00	0.00
16,900.0		179.42	11,100.0	-5,725.6	99.7	5,726.4	0.00	0.00	0.00
17,000.0	90.00	179.42	11,100.0	-5,825.6	100.7	5,826.4	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

TD at 18607.4 - BHL - Grevey Com #121H

Project: Antelope Ridge
Site: Grevey
Well: Grevey Com #121H
Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,100.0	90.00	179.42	11,100.0	-5,925.6	101.7	5,926.4	0.00	0.00	0.00
17,200.0	90.00	179.42	11,100.0	-6,025.6	102.7	6,026.4	0.00	0.00	0.00
17,300.0	90.00	179.42	11,100.0	-6,125.6	103.7	6,126.4	0.00	0.00	0.00
17,400.0	90.00	179.42	11,100.0	-6,225.6	104.7	6,226.4	0.00	0.00	0.00
17,500.0	90.00	179.42	11,100.0	-6,325.6	105.7	6,326.4	0.00	0.00	0.00
17,600.0	90.00	179.42	11,100.0	-6,425.5	106.7	6,426.4	0.00	0.00	0.00
17,700.0	90.00	179.42	11,100.0	-6,525.5	107.7	6,526.4	0.00	0.00	0.00
17,800.0	90.00	179.42	11,100.0	-6,625.5	108.7	6,626.4	0.00	0.00	0.00
17,900.0	90.00	179.42	11,100.0	-6,725.5	109.7	6,726.4	0.00	0.00	0.00
18,000.0	90.00	179.42	11,100.0	-6,825.5	110.7	6,826.4	0.00	0.00	0.00
18,100.0	90.00	179.42	11,100.0	-6,925.5	111.7	6,926.4	0.00	0.00	0.00
18,200.0	90.00	179.42	11,100.0	-7,025.5	112.7	7,026.4	0.00	0.00	0.00
18,300.0	90.00	179.42	11,100.0	-7,125.5	113.7	7,126.4	0.00	0.00	0.00
18,400.0	90.00	179.42	11,100.0	-7,225.5	114.7	7,226.4	0.00	0.00	0.00
18,500.0	90.00	179.42	11,100.0	-7,325.5	115.8	7,326.4	0.00	0.00	0.00
18,600.0	90.00	179.42	11,100.0	-7,425.5	116.8	7,426.4	0.00	0.00	0.00
18,607.4	90.00	179.42	11,100.0	-7,432.9	116.8	7,433.8	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP - Grevey Com #121F - plan hits target cen - Point	0.00 ter	0.00	10,527.0	290.0	-91.5	377,968.84	790,855.58	32° 2′ 8.436 N	103° 23' 41.022 W
FTP - Grevey Com #121 - plan misses target - Point	0.00 center by 250	0.00 .0usft at 110	11,100.0 00.0usft MD	280.0 (10934.9 TVD	39.0 , 122.0 N, -62	377,958.85 2.2 E)	790,986.07	32° 2′ 8.326 N	103° 23' 39.507 W
BHL - Grevey Com #121 - plan hits target cen - Point	0.00 ter	0.00	11,100.0	-7,432.9	116.8	370,245.47	791,063.91	32° 0' 51.993 N	103° 23' 39.382 W

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Antelope Ridge
Site: Grevey
Well: Grevey Com #121H
Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

itions						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,068.0	1,068.0	Rustler		0.00	179.42
	1,479.3	1,479.3	Salado		0.00	270.44
	5,354.7	5,335.6	G30:CS14-CSB		0.00	270.44
	5,388.9	5,369.8	G26: Bell Cyn.		0.00	270.44
	6,623.1	6,604.0	G13: Cherry Cyn.		0.00	270.44
	7,841.7	7,822.6	G7: Brushy Cyn.		0.00	270.44
	9,261.3	9,242.2	G4: BSGL (CS9)		0.00	270.44
	9,403.4	9,384.3	L8.2: U. Avalon Shale		0.00	270.44
	9,513.6	9,494.5	L6.3: Avalon Carb		0.00	270.44
	10,195.2	10,176.1	L6.2: L. Avalon Shale		0.00	270.44
	10,453.1	10,434.0	L5.3: FBSC		0.00	270.44
	10,520.1	10,501.0	L5.1: FBSG		0.00	270.44
	10,669.5	10,649.4	L4.3: SBSC		0.00	270.44
	10,974.7	10,916.7	L4.1: SBSG		0.00	270.44

lan Annotations				
Measure	d Vertical	Local C	oordinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,500	0.0 2,500.	• •	0.0	Start Build 1.00
3,300	,		-16.8	Start 1517.5 hold at 3300.0 MD
4,817	'.5 4,800.	.1 254.6	-80.3	Start Drop -1.50
5,350	0.8 5,331.	.7 290.0	-91.5	Start 5195.3 hold at 5350.8 MD
10,546	6.1 10,527.	.0 290.0	-91.5	Start Build 10.00
11,446	S.1 11,100.	.0 -274.4	7.0	Start DLS 2.00 TFO 90.00
11,912	2.3 11,100.	.0 -738.1	49.5	Start 6695.1 hold at 11912.3 MD
18,607	'.4 11,100.	0 -7,432.9	116.8	3 TD at 18607.4