

Well Name: GAVILON FED COM	Well Location: T20S / R33E / SEC 33 / SESW /	County or Parish/State:
Well Number: 305H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM57683	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548867	Well Status: Approved Application for Permit to Drill	Operator: MATADOR PRODUCTION COMPANY

Notice of Intent

Sundry ID: 2664880

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 04/01/2022	Time Sundry Submitted: 10:01
Date proposed operation will begin: 08/08/2022	

Procedure Description: BLM Bond No. NMB001079 Surety Bond No. RLB0015172 Matador respectfully requests the option to make the following changes to the Gavilon Fed Com 305H: • Upsize Well and Casing Design. Details can be found in the attached Drill Plan with updated casing, cement and drilling fluid information. Casing specification sheets for the 7” x 5-1/2” production casing is attached as well as the Casing Design Assumption Worksheet for the updated design. • SHL change from 355’ FSL and 2026’ FWL to 185’ FSL and 2031’ FWL. The new SHL remains on the existing drill pad. • BHL change from 50’ FNL and 1650’ FWL to 100’ FNL and 1980’ FWL. Updated Directional Plot attached.

NOI Attachments

Procedure Description

- Gavilon_Fed_Com_305H__Plan_1__20220331210516.pdf
- Gavilon_Fed_Com_305H__Plan_1__Plot_20220331210516.pdf
- Gavilon_Fed_Com_305H__Plan_1__AC_Report_20220331210509.pdf
- Casing_Specs_5.5in_20lb_Hunting_TLW_SC_20220331210509.pdf
- Casing_Specs_7.0_29_P110EC_DWC_C__20220331210509.pdf
- Gavilon_305H_Drill_Plan___Casing_Cement_Mud_Sundry_20220331210509.pdf
- BLM_Casing_Design_Assumptions_4_string_20220331210509.pdf
- 2022030492_MATADOR_GAVILON_305H_LEA_C102__FINAL_03_25_22_20220331210509.pdf

Well Name: GAVILON FED COM	Well Location: T20S / R33E / SEC 33 / SESW /	County or Parish/State:
Well Number: 305H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM57683	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548867	Well Status: Approved Application for Permit to Drill	Operator: MATADOR PRODUCTION COMPANY

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: NICKY FITZGERALD	Signed on: MAR 31, 2022 09:06 PM
Name: MATADOR PRODUCTION COMPANY	
Title: Regulatory	
Street Address: 5400 LBJ FREEWAY STE 1500	
City: DALLAS	State: TX
Phone: (972) 371-5448	
Email address: nicky.fitzgerald@matadorresources.com	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CODY LAYTON	BLM POC Title: Assistant Field Manager Lands & Minerals
BLM POC Phone: 5752345959	BLM POC Email Address: clayton@blm.gov
Disposition: Approved	Disposition Date: 06/16/2022
Signature: Cody R. Layton	

District I

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 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

¹ API Number 30-025 -48867	² Pool Code 30213	³ Pool Name HAT MESA; BONE SPRING
⁴ Property Code 332434	⁵ Property Name GAVILON FED COM	⁶ Well Number 305H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3,668'

¹⁰ Surface Location

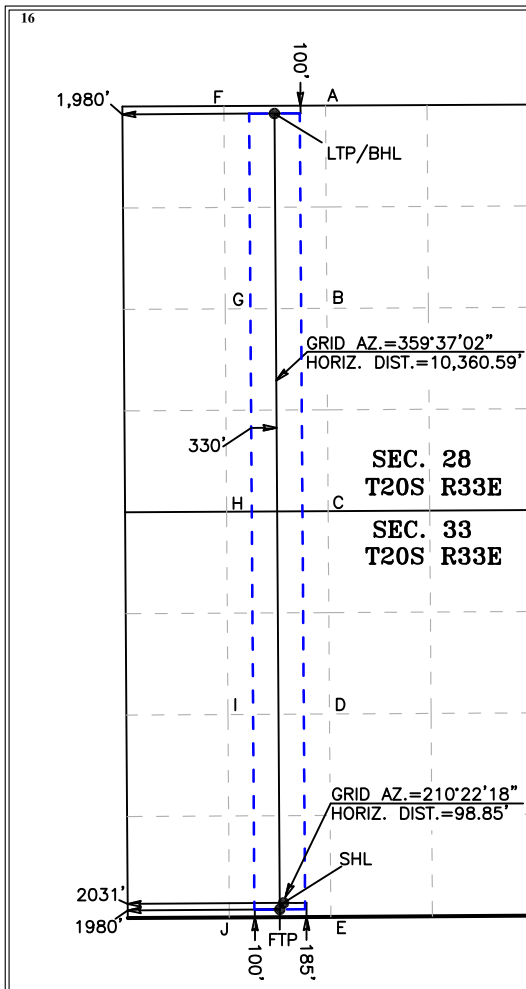
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	33	20 S	33 E		185	SOUTH	2,031	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	20 S	33 E		100	NORTH	1,980	WEST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order 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.



SHL (NAD83 NME) Y = 554,582.0 X = 745,716.2 LAT. = 32.522857 °N LONG. = 103.670238 °W	LTP (NAD83 NME) Y = 564,857.1 X = 745,597.0 LAT. = 32.551101 °N LONG. = 103.670417 °W
FTP (NAD83 NME) Y = 554,496.7 X = 745,666.2 LAT. = 32.522624 °N LONG. = 103.670401 °W	BHL (NAD83 NME) Y = 564,857.1 X = 745,597.0 LAT. = 32.551101 °N LONG. = 103.670417 °W
CORNER COORDINATES (NAD83 NME)	
A - Y = 564,960.1 N ,	X = 746,261.4 E
B - Y = 562,320.6 N ,	X = 746,278.9 E
C - Y = 559,680.3 N ,	X = 746,296.5 E
D - Y = 557,040.9 N ,	X = 746,313.9 E
E - Y = 554,400.4 N ,	X = 746,331.3 E
F - Y = 564,954.1 N ,	X = 744,938.9 E
G - Y = 562,313.8 N ,	X = 744,956.5 E
H - Y = 559,673.1 N ,	X = 744,974.2 E
I - Y = 557,033.7 N ,	X = 744,991.7 E
J - Y = 554,393.0 N ,	X = 745,009.1 E

SHL (NAD27 NME) Y = 554,520.9 X = 704,535.5 LAT. = 32.522737 °N LONG. = 103.669744 °W	LTP (NAD27 NME) Y = 564,795.8 X = 704,416.6 LAT. = 32.550981 °N LONG. = 103.669922 °W
FTP (NAD27 NME) Y = 554,435.6 X = 704,485.5 LAT. = 32.522503 °N LONG. = 103.669908 °W	BHL (NAD27 NME) Y = 564,795.8 X = 704,416.6 LAT. = 32.550981 °N LONG. = 103.669922 °W
CORNER COORDINATES (NAD27 NME)	
A - Y = 564,898.8 N ,	X = 705,081.1 E
B - Y = 562,259.3 N ,	X = 705,098.5 E
C - Y = 559,619.1 N ,	X = 705,115.9 E
D - Y = 556,979.8 N ,	X = 705,133.2 E
E - Y = 554,339.3 N ,	X = 705,150.5 E
F - Y = 564,892.8 N ,	X = 703,758.5 E
G - Y = 562,252.5 N ,	X = 703,776.1 E
H - Y = 559,611.9 N ,	X = 703,793.7 E
I - Y = 556,972.5 N ,	X = 703,811.1 E
J - Y = 554,331.9 N ,	X = 703,828.4 E

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Nicky Fitzgerald 3/31/2022
Signature Date

Nicky Fitzgerald

Printed Name

nicky.fitzgerald@matadorresources.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

03-25-2022

Date of Survey

Signature and Seal of
Professional Surveyor:

Mark Dillon Harp
MARK DILLON HARP 23786
Certificate Number



BK

2022030492

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.43 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.52 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.43 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (8.3 ppg).

Intermediate #1 Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (10.0 ppg).

Intermediate #2 Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (8.4 ppg).

Production Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (9.0 ppg).

Technical Specifications

Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C Casing	7 in	29.00 lb/ft (0.408 in)	VMS P110 EC
2012 API Spec 5CT Coupling O.D.			

VMS P110 EC	Material
	Grade
125,000	Minimum Yield Strength (psi)
135,000	Minimum Ultimate Strength (psi)

	Pipe Dimensions
7.000	Nominal Pipe Body O.D. (in)
6.184	Nominal Pipe Body I.D.(in)
0.408	Nominal Wall Thickness (in)
29.00	Nominal Weight (lbs/ft)
28.75	Plain End Weight (lbs/ft)
8.449	Nominal Pipe Body Area (sq in)

	Pipe Body Performance Properties
1,056,000	Minimum Pipe Body Yield Strength (lbs)
9,580	Minimum Collapse Pressure (psi)
12,750	Minimum Internal Yield Pressure (psi)
11,700	Hydrostatic Test Pressure (psi)

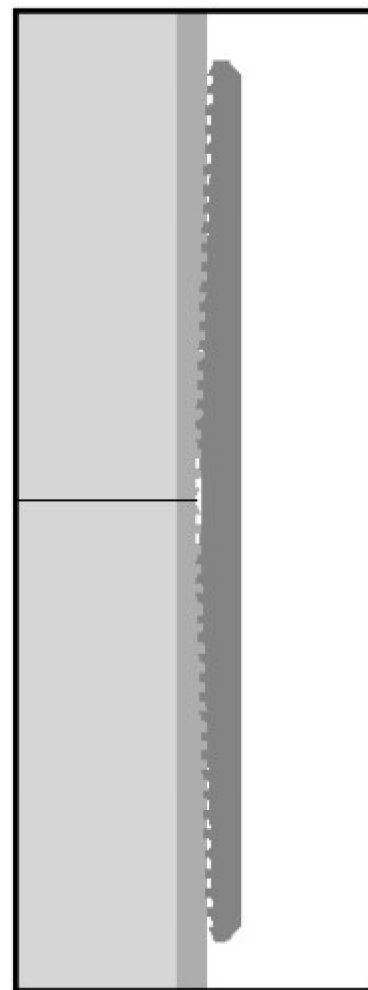
	Connection Dimensions
7.875	Connection O.D. (in)
6.184	Connection I.D. (in)
6.125	Connection Drift Diameter (in)
4.50	Make-up Loss (in)
8.449	Critical Area (sq in)
100.0	Joint Efficiency (%)

	Connection Performance Properties
1,056,000	Joint Strength (lbs)
26,010	Reference String Length (ft) 1.4 Design Factor
1,045,000	API Joint Strength (lbs)
528,000	Compression Rating (lbs)
9,580	API Collapse Pressure Rating (psi)
12,750	API Internal Pressure Resistance (psi)
40.9	Maximum Uniaxial Bend Rating [degrees/100 ft]

	Appoximated Field End Torque Values
26,800	Minimum Final Torque (ft-lbs)
31,300	Maximum Final Torque (ft-lbs)
35,800	Connection Yield Torque (ft-lbs)



VAM-USA
4424 W. Sam Houston Pkwy. Suite 150
Houston, TX 77041
Phone: 713-479-3200
Fax: 713-479-3234
E-mail: VAMUSAsales@na.vallourec.com



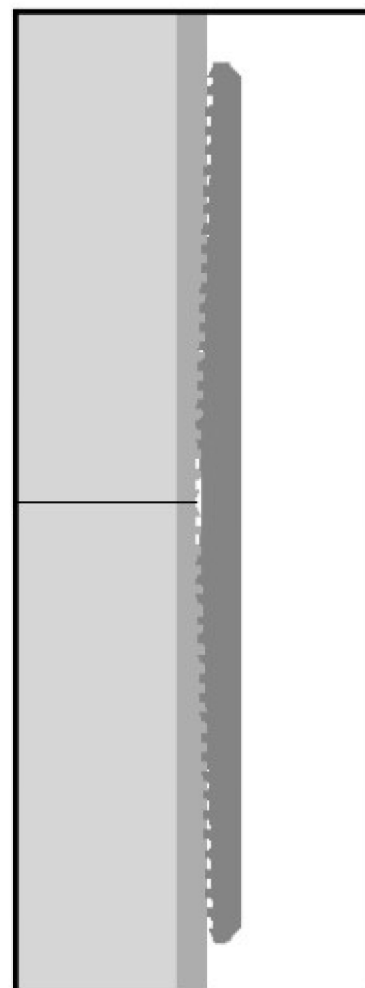
For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

5/10/2013 3:49:39 PM

**DWC Connection Data Notes:**

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.



Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

5/10/2013 3:49:39 PM



TEC-LOCK WEDGE

5.500" 20 LB/FT (.361" Wall) with 5.875" SPECIAL CLEARANCE OD
BEN P110 CY

Pipe Body Data

Nominal OD:	5.500	in
Nominal Wall:	.361	in
Nominal Weight:	20.00	lb/ft
Plain End Weight:	19.83	lb/ft
Material Grade:	P110 CY	
Mill/Specification:	BEN	
Yield Strength:	125,000	psi
Tensile Strength:	135,000	psi
Nominal ID:	4.778	in
API Drift Diameter:	4.653	in
Special Drift Diameter:	None	in
RBW:	87.5 %	
Body Yield:	729,000	lbf
Burst:	14,360	psi
Collapse:	13,010	psi

Connection Data

Standard OD:	5.875	in
Pin Bored ID:	4.778	in
Critical Section Area:	5.656	in ²
Tensile Efficiency:	97 %	
Compressive Efficiency:	100 %	
Longitudinal Yield Strength:	707,000	lbf
Compressive Limit:	729,000	lbf
Internal Pressure Rating:	14,360	psi
External Pressure Rating:	13,010	psi
Maximum Bend:	101.2	°/100ft

Operational Data

Minimum Makeup Torque:	15,000	ft*lbf
Optimum Makeup Torque:	18,700	ft*lbf
Maximum Makeup Torque:	41,200	ft*lbf
Minimum Yield:	45,800	ft*lbf
Makeup Loss:	5.97	in

Notes Operational Torque is equivalent to the Maximum Make-Up Torque

Generated on Sep 03, 2019



Drill Plan**Gavilon Fed Com #305H**

- Matador respectfully requests the option to amend the well design of the Gavilon Fed Com #305H to make the following changes to the current APD.

Casing & Cement

All casing will be API and new. See attached casing assumption worksheet.

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 1521	0 - 1521	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 3281	0 - 3281	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 4996	0 - 4996	9.625	40	J-55	BUTT	1.125	1.125	1.8
Production Top	8.75	0 - 8994	0 - 8987	7	29	P-110	VAM DWC/C	1.125	1.125	1.8
Production Bottom	8.75	8994 - 19786	8987 - 9570	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

- All casing strings will be tested in accordance with Onshore Order #2 - III.B.1.h

- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed

- All non-API joint connections will be of like or greater quality and as run specification sheets will be on location for review

- Request option to run a full 5.5" production string, cement volumes will be adjusted accordingly.

- Request option to drill 8.5" hole throughout 5.5" production casing section. 7" casing will not be ran in 8.5" hole.

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Tail	3560	1.35	4800	14.8	100%	0	C	5% NaCl + LCM
Intermediate 1	Lead	1950	1.78	3475	13.5	50%	0	C	5% NaCl + LCM
	Tail	530	1.35	719	14.8	50%	2625	C	5% NaCl + LCM
Intermediate 2	Lead	1190	1.78	2121	13.5	50%	0	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	370	1.35	504	14.8	50%	3997	C	5% NaCl + LCM
Production	Lead	240	3.66	872	10.3	25%	3762	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	2380	1.35	3214	13.2	15%	8594	A/C	Fluid Loss + Dispersant + Retarder + LCM

Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 or 2 section on 13-3/8" or 9-5/8" casing if lost circulation is encountered. If losses occur, the DV tool with packer will be placed at least 100' above the loss zone to give the option to pump cement as either a single stage or two stage.

Drill Plan**Mud Program**

An electronic Pason mud monitoring system complying with Onshore Order #2 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	26	Spud Mud	0 - 1521	8.4 - 8.8	28-30	NC
Intermediate 1	17.5	Brine Water	1521 - 3281	9.5 - 10.2	28-32	NC
Intermediate 2	12.25	Fresh Water	3281 - 4996	8.4 - 8.6	28-30	NC
Production	8.75	OBM/Cut Brine	4996 - 19786	8.6 - 9.4	28-30	NC



Matador Resources

Lea County, NM (NAD27)

Gavilon Fed Com Pads (Grid)

Gavilon Fed Com 305H

Wellbore #1

Plan 1

Anticollision Report

28 March, 2022





Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference	Plan 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	0.00 to 19,785.67usft	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 500.00usft or Max. SF of 10	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	3/25/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	19,785.67	Plan 1 (Wellbore #1)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Gavilon Fed Com Pads (Grid)						
Galivan Federal 001 - Wellbore #1 - Actual	11,308.02	9,527.29	1,319.56	1,042.77	4.767	CC, ES
Galivan Federal 001 - Wellbore #1 - Actual	11,400.00	9,526.88	1,322.76	1,044.34	4.751	SF
Gavilon Fed Com 306H - Wellbore #1 - Plan 1	1,500.00	1,499.00	85.43	76.03	9.087	CC, ES
Gavilon Fed Com 306H - Wellbore #1 - Plan 1	19,785.67	19,794.00	1,319.91	924.15	3.335	SF
Gavilon Fed Com 403H - Wellbore #1 - Plan 1	19,722.05	19,734.19	1,330.42	939.12	3.400	CC
Gavilon Fed Com 403H - Wellbore #1 - Plan 1	19,785.67	19,795.49	1,330.43	936.74	3.379	ES, SF
Gavilon Fed Com 501H - Wellbore #1 - Plan 1	17,354.51	18,263.90	1,603.44	1,341.32	6.117	CC
Gavilon Fed Com 501H - Wellbore #1 - Plan 1	19,785.67	20,692.74	1,603.44	1,261.74	4.692	ES, SF
Gavilon Fed Com 505H - Wellbore #1 - Plan 1	1,500.00	1,499.00	80.00	70.60	8.510	CC
Gavilon Fed Com 505H - Wellbore #1 - Plan 1	1,600.00	1,600.20	80.12	70.48	8.311	ES
Gavilon Fed Com 505H - Wellbore #1 - Plan 1	19,785.67	20,691.52	901.00	732.29	5.341	SF
Gavilon Fed Com 602H - Wellbore #1 - Actual	19,340.30	21,099.39	2,046.16	1,813.78	8.805	CC
Gavilon Fed Com 602H - Wellbore #1 - Actual	19,600.00	21,303.48	2,049.41	1,811.54	8.616	ES
Gavilon Fed Com 602H - Wellbore #1 - Actual	19,785.67	21,480.51	2,055.22	1,812.80	8.478	SF
Gavilon Fed Com 603H - Wellbore #1 - Plan 1	1,416.33	1,417.33	42.15	33.04	4.628	CC
Gavilon Fed Com 603H - Wellbore #1 - Plan 1	1,500.00	1,500.99	42.15	32.74	4.482	ES
Gavilon Fed Com 603H - Wellbore #1 - Plan 1	9,225.00	9,222.51	72.67	47.21	2.854	SF
Gavilon Fed Com 604H - Wellbore #1 - Plan 1	9,093.95	9,127.23	924.74	887.94	25.124	CC, ES
Gavilon Fed Com 604H - Wellbore #1 - Plan 1	19,785.67	21,470.20	1,933.87	1,677.35	7.539	SF
Gavilon Fed Com 704H - Wellbore #1 - Actual						Out of range
Gavilon Fed Com 704H - Wellbore #1 - Plan 4	18,600.00	20,509.27	2,497.36	2,246.52	9.956	CC
Gavilon Fed Com 704H - Wellbore #1 - Plan 4	19,785.67	21,694.94	2,498.88	2,216.09	8.836	ES, SF
Gavilon Fed Com 706H - Wellbore #1 - Plan 1	1,500.00	1,499.00	30.00	20.60	3.191	CC, ES, SF
Gavilon Fed Com 708H - Wellbore #1 - Plan 1	18,400.00	20,272.17	2,496.22	2,244.47	9.915	CC
Gavilon Fed Com 708H - Wellbore #1 - Plan 1	19,785.67	21,655.68	2,496.30	2,206.09	8.602	ES, SF
Tomahawk 28 Federal Com 001 - Wellbore #1 - Actual	18,235.69	9,474.45	0.16	-354.13	0.000	No-Go Zone - Stop Drilling, (

Offset Design:	Gavilon Fed Com Pads (Grid) - Galivan Federal 001 - Wellbore #1 - Actual												Offset Site Error:	0.00 usft
Survey Program:	305-INC-ONLY												Offset Well Error:	15.00 usft
Reference	Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,093.95	9,087.00	9,049.81	9,046.73	13.97	225.92	-36.19	1,788.38	-1,382.21	2,383.20	2,143.59	239.61	9.946		
9,100.00	9,093.05	9,056.46	9,053.38	13.97	226.09	-22.67	1,788.36	-1,382.21	2,383.15	2,143.37	239.79	9.939		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Galivan Federal 001 - Wellbore #1 - Actual													Offset Site Error:	0.00 usft	
Survey Program:		305-INC-ONLY						Rule Assigned:						Offset Well Error:	15.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,125.00	9,118.03	9,083.90	9,080.82	13.96	226.82	-22.72	1,788.25	-1,382.21	2,382.18	2,141.68	240.50	9.905			
9,150.00	9,142.93	9,111.24	9,108.16	13.96	227.54	-22.85	1,788.11	-1,382.21	2,379.97	2,138.75	241.22	9.866			
9,175.00	9,167.67	9,138.40	9,135.31	13.95	228.26	-23.05	1,787.94	-1,382.21	2,376.55	2,134.61	241.94	9.823			
9,200.00	9,192.18	9,165.29	9,162.20	13.95	228.97	-23.33	1,787.73	-1,382.21	2,371.91	2,129.27	242.64	9.775			
9,225.00	9,216.42	9,191.85	9,188.75	13.94	229.67	-23.68	1,787.49	-1,382.21	2,366.07	2,122.74	243.33	9.724			
9,250.00	9,240.29	9,217.98	9,214.88	13.93	230.36	-24.12	1,787.22	-1,382.21	2,359.05	2,115.04	244.01	9.668			
9,275.00	9,263.75	9,221.00	9,217.75	13.92	230.44	-24.56	1,787.20	-1,382.21	2,350.99	2,106.90	244.09	9.632			
9,300.00	9,286.72	9,243.97	9,240.72	13.91	231.11	-25.15	1,787.20	-1,382.21	2,341.92	2,097.19	244.74	9.569			
9,325.00	9,309.14	9,294.95	9,291.68	13.90	232.57	-25.99	1,787.28	-1,382.21	2,332.01	2,085.83	246.18	9.473			
9,350.00	9,330.96	9,288.23	9,284.96	13.89	232.38	-26.63	1,787.20	-1,382.21	2,320.55	2,074.57	245.98	9.434			
9,375.00	9,352.11	9,309.41	9,306.11	13.89	233.01	-27.54	1,787.20	-1,382.21	2,308.32	2,061.72	246.60	9.360			
9,400.00	9,372.53	9,329.83	9,326.53	13.88	233.64	-28.58	1,787.20	-1,382.21	2,295.10	2,047.87	247.23	9.283			
9,425.00	9,392.17	9,349.47	9,346.17	13.87	234.25	-29.77	1,787.20	-1,382.21	2,280.94	2,033.11	247.83	9.204			
9,450.00	9,410.97	9,368.27	9,364.97	13.87	234.84	-31.12	1,787.20	-1,382.21	2,265.87	2,017.47	248.40	9.122			
9,475.00	9,428.89	9,386.19	9,382.89	13.86	235.39	-32.64	1,787.20	-1,382.21	2,249.94	2,000.99	248.95	9.038			
9,500.00	9,445.86	9,403.17	9,399.86	13.86	235.92	-34.37	1,787.20	-1,382.21	2,233.21	1,983.74	249.47	8.952			
9,525.00	9,461.86	9,419.16	9,415.86	13.86	236.42	-36.33	1,787.20	-1,382.21	2,215.71	1,965.75	249.97	8.864			
9,542.69	9,472.56	9,429.86	9,426.56	13.85	236.75	-37.86	1,787.20	-1,382.21	2,202.91	1,952.61	250.30	8.801			
9,550.00	9,476.83	9,434.13	9,430.83	13.85	236.88	-39.01	1,787.20	-1,382.21	2,197.52	1,947.09	250.43	8.775			
9,575.00	9,490.79	9,448.09	9,444.79	13.84	237.31	-43.00	1,787.20	-1,382.21	2,178.86	1,928.01	250.85	8.686			
9,600.00	9,503.71	9,461.02	9,457.71	13.84	237.72	-47.14	1,787.20	-1,382.21	2,159.87	1,908.61	251.26	8.596			
9,625.00	9,515.57	9,472.87	9,469.57	13.84	238.08	-51.40	1,787.20	-1,382.21	2,140.59	1,888.96	251.63	8.507			
9,650.00	9,526.33	9,484.15	9,480.82	13.83	238.43	-55.77	1,788.78	-1,382.21	2,122.32	1,870.32	252.00	8.422			
9,675.00	9,535.95	9,495.56	9,492.23	13.83	238.79	-60.28	1,788.77	-1,382.21	2,102.67	1,850.30	252.37	8.332			
9,700.00	9,544.42	9,505.54	9,502.21	13.84	239.10	-64.80	1,788.75	-1,382.21	2,082.93	1,830.22	252.70	8.243			
9,725.00	9,551.71	9,514.07	9,510.74	13.84	239.36	-69.28	1,788.73	-1,382.21	2,063.17	1,810.17	253.00	8.155			
9,750.00	9,557.80	9,521.15	9,517.81	13.85	239.58	-73.65	1,788.70	-1,382.21	2,043.46	1,790.19	253.26	8.069			
9,775.00	9,562.68	9,526.75	9,523.42	13.87	239.76	-77.85	1,788.68	-1,382.21	2,023.87	1,770.38	253.49	7.984			
9,800.00	9,566.32	9,530.89	9,527.55	13.96	239.89	-81.83	1,788.66	-1,382.21	2,004.47	1,750.79	253.68	7.902			
9,825.00	9,568.73	9,533.56	9,530.22	14.15	239.97	-85.54	1,788.65	-1,382.21	1,985.32	1,731.49	253.83	7.821			
9,850.00	9,569.89	9,534.76	9,531.42	14.37	240.01	-88.96	1,788.64	-1,382.21	1,966.49	1,712.54	253.95	7.744			
9,860.67	9,570.00	9,534.82	9,531.48	14.46	240.01	-90.32	1,788.64	-1,382.21	1,958.57	1,704.58	253.99	7.711			
9,900.00	9,570.00	9,534.59	9,531.25	14.84	240.00	-90.31	1,788.64	-1,382.21	1,929.69	1,675.54	254.15	7.593			
10,000.00	9,570.00	9,533.99	9,530.65	15.93	239.98	-90.29	1,788.64	-1,382.21	1,857.98	1,603.29	254.69	7.295			
10,100.00	9,570.00	9,533.41	9,530.07	17.17	239.96	-90.26	1,788.65	-1,382.21	1,789.00	1,533.56	255.43	7.004			
10,200.00	9,570.00	9,532.85	9,529.51	18.53	239.95	-90.24	1,788.65	-1,382.21	1,723.05	1,466.66	256.39	6.720			
10,300.00	9,570.00	9,532.29	9,528.95	19.98	239.93	-90.22	1,788.65	-1,382.21	1,660.52	1,402.96	257.56	6.447			
10,400.00	9,570.00	9,531.75	9,528.41	21.50	239.91	-90.19	1,788.66	-1,382.21	1,601.78	1,342.85	258.94	6.186			
10,500.00	9,570.00	9,531.22	9,527.88	23.08	239.90	-90.17	1,788.66	-1,382.21	1,547.29	1,286.78	260.51	5.939			
10,600.00	9,570.00	9,530.69	9,527.36	24.71	239.88	-90.15	1,788.66	-1,382.21	1,497.50	1,235.23	262.27	5.710			
10,700.00	9,570.00	9,530.18	9,526.84	26.38	239.86	-90.12	1,788.66	-1,382.21	1,452.90	1,188.71	264.19	5.500			
10,800.00	9,570.00	9,529.68	9,526.34	28.07	239.85	-90.10	1,788.67	-1,382.21	1,413.97	1,147.75	266.22	5.311			
10,900.00	9,570.00	9,529.19	9,525.85	29.80	239.83	-90.08	1,788.67	-1,382.21	1,381.20	1,112.86	268.34	5.147			
11,000.00	9,570.00	9,528.71	9,525.37	31.54	239.82	-90.06	1,788.67	-1,382.21	1,355.03	1,084.54	270.49	5.010			
11,100.00	9,570.00	9,528.24	9,524.90	33.31	239.80	-90.04	1,788.67	-1,382.21	1,335.86	1,063.23	272.63	4.900			
11,200.00	9,570.00	9,527.78	9,524.44	35.09	239.79	-90.02	1,788.67	-1,382.21	1,323.97	1,049.28	274.69	4.820			
11,300.00	9,570.00	9,527.33	9,523.99	36.88	239.77	-90.00	1,788.68	-1,382.21	1,319.59	1,042.95	276.64	4.770			
11,308.02	9,570.00	9,527.29	9,523.95	37.03	239.77	-90.00	1,788.68	-1,382.21	1,319.56	1,042.77	276.79	4.767 CC, ES			
11,400.00	9,570.00	9,526.88	9,523.54	38.69	239.76	-89.98	1,788.68	-1,382.21	1,322.76	1,044.34	278.42	4.751 SF			
11,500.00	9,570.00	9,526.45	9,523.11	40.50	239.75	-89.96	1,788.68	-1,382.21	1,333.45	1,053.45	280.00	4.762			
11,600.00	9,570.00	9,526.02	9,522.68	42.33	239.73	-89.94	1,788.68	-1,382.21	1,351.48	1,070.11	281.37	4.803			
11,700.00	9,570.00	9,525.60	9,522.26	44.16	239.72	-89.92	1,788.68	-1,382.21	1,376.55	1,094.04	282.51	4.873			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Galivan Federal 001 - Wellbore #1 - Actual												Offset Site Error: 0.00 usft
Survey Program: 305-INC-ONLY												Offset Well Error: 15.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
11,800.00	9,570.00	9,525.19	9,521.85	46.00	239.71	-89.91	1,788.69	-1,382.21	1,408.29	1,124.87	283.43	4.969
11,900.00	9,570.00	9,524.78	9,521.45	47.84	239.70	-89.89	1,788.69	-1,382.21	1,446.26	1,162.13	284.13	5.090
12,000.00	9,570.00	9,524.39	9,521.05	49.69	239.68	-89.87	1,788.69	-1,382.21	1,489.99	1,205.34	284.65	5.235
12,100.00	9,570.00	9,524.00	9,520.66	51.54	239.67	-89.85	1,788.69	-1,382.21	1,538.98	1,253.99	285.00	5.400
12,200.00	9,570.00	9,523.61	9,520.28	53.40	239.66	-89.84	1,788.69	-1,382.21	1,592.75	1,307.55	285.20	5.585
12,300.00	9,570.00	9,523.24	9,519.90	55.26	239.65	-89.82	1,788.69	-1,382.21	1,650.84	1,365.55	285.29	5.787
12,400.00	9,570.00	9,522.87	9,519.53	57.13	239.64	-89.81	1,788.70	-1,382.21	1,712.79	1,427.51	285.28	6.004
12,500.00	9,570.00	9,522.50	9,519.17	59.00	239.63	-89.79	1,788.70	-1,382.21	1,778.21	1,493.03	285.19	6.235
12,600.00	9,570.00	9,522.15	9,518.81	60.87	239.61	-89.77	1,788.70	-1,382.21	1,846.74	1,561.70	285.04	6.479
12,700.00	9,570.00	9,521.80	9,518.46	62.74	239.60	-89.76	1,788.70	-1,382.21	1,918.03	1,633.18	284.84	6.734
12,800.00	9,570.00	9,521.45	9,518.11	64.62	239.59	-89.74	1,788.70	-1,382.21	1,991.79	1,707.17	284.62	6.998
12,900.00	9,570.00	9,521.11	9,517.77	66.50	239.58	-89.73	1,788.70	-1,382.21	2,067.76	1,783.39	284.36	7.271
13,000.00	9,570.00	9,520.78	9,517.44	68.38	239.57	-89.72	1,788.70	-1,382.21	2,145.69	1,861.60	284.10	7.553
13,100.00	9,570.00	9,520.45	9,517.11	70.26	239.56	-89.70	1,788.70	-1,382.21	2,225.40	1,941.58	283.82	7.841
13,200.00	9,570.00	9,520.13	9,516.79	72.15	239.55	-89.69	1,788.71	-1,382.21	2,306.68	2,023.14	283.54	8.135
13,300.00	9,570.00	9,519.81	9,516.47	74.03	239.54	-89.67	1,788.71	-1,382.21	2,389.39	2,106.13	283.26	8.435
13,400.00	9,570.00	9,519.50	9,516.16	75.92	239.53	-89.66	1,788.71	-1,382.21	2,473.37	2,190.40	282.98	8.741
13,500.00	9,570.00	9,519.19	9,515.85	77.81	239.52	-89.65	1,788.71	-1,382.21	2,558.51	2,275.81	282.70	9.050
13,600.00	9,570.00	9,518.89	9,515.55	79.70	239.51	-89.63	1,788.71	-1,382.21	2,644.68	2,362.25	282.43	9.364
13,700.00	9,570.00	9,518.59	9,515.25	81.59	239.50	-89.62	1,788.71	-1,382.21	2,731.80	2,449.63	282.17	9.681

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 306H - Wellbore #1 - Plan 1													Offset Site Error:	0.00 usft
Survey Program:		0-MWD+IGRF						Rule Assigned:				Offset Well Error:	0.50 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.50	0.50	-20.92	79.80	-30.50	85.44					
100.00	100.00	99.00	99.00	0.64	0.64	-20.92	79.80	-30.50	85.43	84.14	1.29	66.468		
200.00	200.00	199.00	199.00	1.34	1.33	-20.92	79.80	-30.50	85.43	82.76	2.67	32.033		
300.00	300.00	299.00	299.00	1.81	1.80	-20.92	79.80	-30.50	85.43	81.82	3.61	23.648		
400.00	400.00	399.00	399.00	2.18	2.18	-20.92	79.80	-30.50	85.43	81.07	4.36	19.580		
500.00	500.00	499.00	499.00	2.51	2.50	-20.92	79.80	-30.50	85.43	80.42	5.01	17.061		
600.00	600.00	599.00	599.00	2.79	2.79	-20.92	79.80	-30.50	85.43	79.85	5.58	15.303		
700.00	700.00	699.00	699.00	3.06	3.05	-20.92	79.80	-30.50	85.43	79.32	6.11	13.986		
800.00	800.00	799.00	799.00	3.30	3.30	-20.92	79.80	-30.50	85.43	78.83	6.60	12.952		
900.00	900.00	899.00	899.00	3.53	3.53	-20.92	79.80	-30.50	85.43	78.38	7.05	12.111		
1,000.00	1,000.00	999.00	999.00	3.74	3.74	-20.92	79.80	-30.50	85.43	77.94	7.49	11.410		
1,100.00	1,100.00	1,099.00	1,099.00	3.95	3.95	-20.92	79.80	-30.50	85.43	77.53	7.90	10.813		
1,200.00	1,200.00	1,199.00	1,199.00	4.15	4.15	-20.92	79.80	-30.50	85.43	77.13	8.30	10.297		
1,300.00	1,300.00	1,299.00	1,299.00	4.34	4.34	-20.92	79.80	-30.50	85.43	76.75	8.68	9.845		
1,400.00	1,400.00	1,399.00	1,399.00	4.52	4.52	-20.92	79.80	-30.50	85.43	76.39	9.04	9.445		
1,500.00	1,500.00	1,499.00	1,499.00	4.70	4.70	-20.92	79.80	-30.50	85.43	76.03	9.40	9.087 CC, ES		
1,600.00	1,599.99	1,598.56	1,598.55	4.82	4.84	169.14	79.74	-31.35	86.54	76.88	9.66	8.958		
1,700.00	1,699.96	1,698.01	1,697.97	4.96	5.01	167.88	79.56	-33.91	89.90	79.95	9.96	9.031		
1,800.00	1,799.86	1,797.26	1,797.13	5.13	5.18	165.97	79.26	-38.19	95.60	85.33	10.27	9.311		
1,900.00	1,899.68	1,896.21	1,895.89	5.31	5.38	163.65	78.85	-44.16	103.72	93.12	10.60	9.784		
2,000.00	1,999.37	1,994.77	1,994.15	5.52	5.60	161.16	78.31	-51.80	114.36	103.40	10.96	10.435		
2,100.00	2,098.90	2,092.83	2,091.77	5.75	5.83	158.67	77.67	-61.07	127.58	116.23	11.35	11.245		
2,200.00	2,198.26	2,190.30	2,188.64	6.00	6.09	156.33	76.91	-71.93	143.41	131.65	11.76	12.193		
2,200.31	2,198.57	2,190.61	2,188.93	6.00	6.09	156.32	76.91	-71.97	143.46	131.70	11.76	12.196		
2,300.00	2,297.51	2,287.22	2,284.75	6.27	6.36	154.13	76.04	-84.36	161.09	148.88	12.20	13.199		
2,400.00	2,396.77	2,383.65	2,380.15	6.56	6.65	151.93	75.07	-98.34	179.88	167.21	12.67	14.196		
2,500.00	2,496.02	2,479.52	2,474.76	6.86	6.96	149.78	73.99	-113.82	199.87	186.71	13.16	15.183		
2,600.00	2,595.28	2,574.80	2,568.51	7.17	7.28	147.69	72.80	-130.77	221.10	207.42	13.68	16.162		
2,700.00	2,694.53	2,669.44	2,661.34	7.50	7.62	145.68	71.52	-149.14	243.63	229.41	14.22	17.135		
2,742.07	2,736.29	2,709.05	2,700.10	7.61	7.76	144.86	70.95	-157.29	253.50	239.08	14.42	17.581		
2,800.00	2,793.83	2,763.86	2,753.64	7.78	7.93	143.82	70.14	-168.98	267.12	252.43	14.69	18.182		
2,900.00	2,893.39	2,860.83	2,848.31	8.20	8.28	141.95	68.68	-189.92	289.47	274.16	15.31	18.907		
3,000.00	2,993.16	2,958.07	2,943.24	8.67	8.66	140.06	67.21	-210.92	310.17	294.19	15.98	19.409		
3,100.00	3,093.07	3,055.50	3,038.37	9.10	9.05	138.12	65.74	-231.96	329.32	312.70	16.63	19.808		
3,200.00	3,193.05	3,153.08	3,133.63	9.25	9.44	136.10	64.27	-253.03	347.01	329.92	17.09	20.300		
3,208.95	3,202.00	3,161.81	3,142.16	9.27	9.48	-54.57	64.14	-254.92	348.53	331.39	17.14	20.338		
3,300.00	3,293.05	3,250.71	3,228.94	9.38	9.85	-56.52	62.80	-274.11	364.11	346.56	17.55	20.750		
3,400.00	3,393.05	3,348.34	3,324.26	9.46	10.26	-58.49	61.33	-295.20	381.66	363.66	18.00	21.204		
3,500.00	3,493.05	3,445.97	3,419.57	9.53	10.67	-60.28	59.86	-316.28	399.62	381.15	18.47	21.639		
3,600.00	3,593.05	3,543.60	3,514.89	9.61	11.09	-61.91	58.39	-337.36	417.92	398.98	18.95	22.058		
3,700.00	3,693.05	3,641.22	3,610.20	9.69	11.51	-63.41	56.91	-358.45	436.53	417.10	19.44	22.460		
3,800.00	3,793.05	3,738.85	3,705.51	9.77	11.93	-64.79	55.44	-379.53	455.41	435.48	19.93	22.846		
3,900.00	3,893.05	3,836.48	3,800.83	9.85	12.36	-66.06	53.97	-400.61	474.53	454.09	20.44	23.216		
4,000.00	3,993.05	3,934.11	3,896.14	9.93	12.79	-67.23	52.50	-421.70	493.85	472.90	20.95	23.570		
4,100.00	4,093.05	4,031.74	3,991.45	10.01	13.23	-68.31	51.03	-442.78	513.37	491.89	21.47	23.910		
4,200.00	4,193.05	4,129.37	4,086.77	10.08	13.66	-69.32	49.56	-463.86	533.04	511.05	21.99	24.236		
4,300.00	4,293.05	4,227.00	4,182.08	10.16	14.10	-70.25	48.09	-484.94	552.86	530.34	22.52	24.548		
4,400.00	4,393.05	4,324.63	4,277.40	10.24	14.54	-71.12	46.62	-506.03	572.82	549.77	23.05	24.847		
4,500.00	4,493.05	4,422.26	4,372.71	10.32	14.98	-71.93	45.14	-527.11	592.89	569.30	23.59	25.135		
4,600.00	4,593.05	4,519.88	4,468.02	10.40	15.43	-72.69	43.67	-548.19	613.07	588.95	24.13	25.410		
4,700.00	4,693.05	4,617.51	4,563.34	10.48	15.87	-73.40	42.20	-569.28	633.35	608.68	24.67	25.675		
4,800.00	4,793.05	4,715.14	4,658.65	10.56	16.32	-74.06	40.73	-590.36	653.72	628.50	25.21	25.929		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 306H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.00	4,893.05	4,812.77	4,753.96	10.64	16.76	-74.69	39.26	-611.44	674.16	648.40	25.76	26.173	
5,000.00	4,993.05	4,910.40	4,849.28	10.72	17.21	-75.28	37.79	-632.53	694.68	668.38	26.31	26.408	
5,100.00	5,093.05	5,008.03	4,944.59	10.79	17.66	-75.83	36.32	-653.61	715.27	688.41	26.86	26.634	
5,200.00	5,193.05	5,105.66	5,039.91	10.87	18.11	-76.36	34.85	-674.69	735.91	708.51	27.41	26.852	
5,300.00	5,293.05	5,203.29	5,135.22	10.95	18.56	-76.85	33.37	-695.78	756.61	728.65	27.96	27.062	
5,400.00	5,393.05	5,300.91	5,230.53	11.03	19.02	-77.32	31.90	-716.86	777.37	748.85	28.51	27.264	
5,500.00	5,493.05	5,398.54	5,325.85	11.11	19.47	-77.77	30.43	-737.94	798.17	769.10	29.07	27.458	
5,600.00	5,593.05	5,496.17	5,421.16	11.19	19.92	-78.19	28.96	-759.02	819.01	789.39	29.62	27.646	
5,700.00	5,693.05	5,593.80	5,516.48	11.27	20.38	-78.59	27.49	-780.11	839.90	809.72	30.18	27.828	
5,800.00	5,793.05	5,691.43	5,611.79	11.35	20.83	-78.97	26.02	-801.19	860.82	830.08	30.74	28.003	
5,900.00	5,893.05	5,789.06	5,707.10	11.43	21.29	-79.34	24.55	-822.27	881.78	850.48	31.30	28.172	
6,000.00	5,993.05	5,886.69	5,802.42	11.51	21.75	-79.68	23.08	-843.36	902.77	870.91	31.86	28.336	
6,100.00	6,093.05	5,984.32	5,897.73	11.59	22.20	-80.01	21.60	-864.44	923.79	891.37	32.42	28.494	
6,200.00	6,193.05	6,081.94	5,993.04	11.67	22.66	-80.33	20.13	-885.52	944.84	911.86	32.98	28.647	
6,300.00	6,293.05	6,179.57	6,088.36	11.75	23.12	-80.63	18.66	-906.61	965.92	932.37	33.54	28.795	
6,400.00	6,393.05	6,277.20	6,183.67	11.82	23.58	-80.92	17.19	-927.69	987.02	952.91	34.11	28.938	
12,700.00	9,570.00	12,708.32	9,570.00	62.74	71.94	-90.04	3,180.63	-1,391.79	1,319.91	1,187.85	132.06	9.995	
12,800.00	9,570.00	12,808.32	9,570.00	64.62	73.56	-90.04	3,280.63	-1,392.45	1,319.91	1,184.32	135.59	9.735	
12,900.00	9,570.00	12,908.32	9,570.00	66.50	75.20	-90.04	3,380.62	-1,393.11	1,319.91	1,180.78	139.13	9.487	
13,000.00	9,570.00	13,008.32	9,570.00	68.38	76.85	-90.04	3,480.62	-1,393.78	1,319.91	1,177.22	142.69	9.250	
13,100.00	9,570.00	13,108.32	9,570.00	70.26	78.50	-90.04	3,580.62	-1,394.44	1,319.91	1,173.65	146.26	9.024	
13,200.00	9,570.00	13,208.32	9,570.00	72.15	80.17	-90.04	3,680.62	-1,395.10	1,319.91	1,170.07	149.84	8.809	
13,300.00	9,570.00	13,308.32	9,570.00	74.03	81.85	-90.04	3,780.62	-1,395.77	1,319.91	1,166.48	153.44	8.602	
13,400.00	9,570.00	13,408.32	9,570.00	75.92	83.54	-90.04	3,880.61	-1,396.43	1,319.91	1,162.87	157.04	8.405	
13,500.00	9,570.00	13,508.32	9,570.00	77.81	85.23	-90.04	3,980.61	-1,397.09	1,319.91	1,159.26	160.65	8.216	
13,600.00	9,570.00	13,608.32	9,570.00	79.70	86.93	-90.04	4,080.61	-1,397.76	1,319.91	1,155.63	164.28	8.035	
13,700.00	9,570.00	13,708.32	9,570.00	81.59	88.64	-90.04	4,180.61	-1,398.42	1,319.91	1,152.00	167.91	7.861	
13,800.00	9,570.00	13,808.32	9,570.00	83.48	90.36	-90.04	4,280.60	-1,399.08	1,319.91	1,148.36	171.55	7.694	
13,900.00	9,570.00	13,908.32	9,570.00	85.37	92.09	-90.04	4,380.60	-1,399.75	1,319.91	1,144.71	175.20	7.534	
14,000.00	9,570.00	14,008.32	9,570.00	87.27	93.82	-90.04	4,480.60	-1,400.41	1,319.91	1,141.05	178.86	7.380	
14,100.00	9,570.00	14,108.32	9,570.00	89.16	95.56	-90.04	4,580.60	-1,401.07	1,319.91	1,137.39	182.52	7.232	
14,200.00	9,570.00	14,208.32	9,570.00	91.06	97.30	-90.04	4,680.60	-1,401.74	1,319.91	1,133.72	186.19	7.089	
14,300.00	9,570.00	14,308.32	9,570.00	92.95	99.05	-90.04	4,780.59	-1,402.40	1,319.91	1,130.05	189.86	6.952	
14,400.00	9,570.00	14,408.32	9,570.00	94.85	100.81	-90.04	4,880.59	-1,403.06	1,319.91	1,126.37	193.55	6.820	
14,500.00	9,570.00	14,508.32	9,570.00	96.75	102.57	-90.04	4,980.59	-1,403.73	1,319.91	1,122.68	197.23	6.692	
14,600.00	9,570.00	14,608.32	9,570.00	98.65	104.34	-90.04	5,080.59	-1,404.39	1,319.91	1,118.99	200.92	6.569	
14,700.00	9,570.00	14,708.32	9,570.00	100.55	106.11	-90.04	5,180.58	-1,405.05	1,319.91	1,115.29	204.62	6.451	
14,800.00	9,570.00	14,808.32	9,570.00	102.44	107.88	-90.04	5,280.58	-1,405.72	1,319.91	1,111.59	208.32	6.336	
14,900.00	9,570.00	14,908.32	9,570.00	104.34	109.66	-90.04	5,380.58	-1,406.38	1,319.91	1,107.88	212.03	6.225	
15,000.00	9,570.00	15,008.32	9,570.00	106.25	111.45	-90.04	5,480.58	-1,407.04	1,319.91	1,104.17	215.74	6.118	
15,100.00	9,570.00	15,108.32	9,570.00	108.15	113.23	-90.04	5,580.58	-1,407.71	1,319.91	1,100.46	219.45	6.015	
15,200.00	9,570.00	15,208.32	9,570.00	110.05	115.03	-90.04	5,680.57	-1,408.37	1,319.91	1,096.74	223.17	5.914	
15,300.00	9,570.00	15,308.32	9,570.00	111.95	116.82	-90.04	5,780.57	-1,409.03	1,319.91	1,093.02	226.89	5.817	
15,400.00	9,570.00	15,408.32	9,570.00	113.85	118.62	-90.04	5,880.57	-1,409.70	1,319.91	1,089.30	230.62	5.723	
15,500.00	9,570.00	15,508.32	9,570.00	115.75	120.42	-90.04	5,980.57	-1,410.36	1,319.91	1,085.57	234.34	5.632	
15,600.00	9,570.00	15,608.32	9,570.00	117.66	122.23	-90.04	6,080.57	-1,411.02	1,319.91	1,081.84	238.07	5.544	
15,700.00	9,570.00	15,708.32	9,570.00	119.56	124.04	-90.04	6,180.56	-1,411.68	1,319.91	1,078.10	241.81	5.458	
15,800.00	9,570.00	15,808.32	9,570.00	121.47	125.85	-90.04	6,280.56	-1,412.35	1,319.91	1,074.37	245.55	5.375	
15,900.00	9,570.00	15,908.32	9,570.00	123.37	127.66	-90.04	6,380.56	-1,413.01	1,319.91	1,070.63	249.29	5.295	
16,000.00	9,570.00	16,008.32	9,570.00	125.27	129.48	-90.04	6,480.56	-1,413.67	1,319.91	1,066.88	253.03	5.216	
16,100.00	9,570.00	16,108.32	9,570.00	127.18	131.30	-90.04	6,580.55	-1,414.34	1,319.91	1,063.14	256.77	5.140	
16,200.00	9,570.00	16,208.32	9,570.00	129.08	133.12	-90.04	6,680.55	-1,415.00	1,319.91	1,059.39	260.52	5.066	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 306H - Wellbore #1 - Plan 1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF														Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
16,300.00	9,570.00	16,308.32	9,570.00	130.99	134.95	-90.04	6,780.55	-1,415.66	1,319.91	1,055.64	264.27	4.995			
16,400.00	9,570.00	16,408.32	9,570.00	132.89	136.77	-90.04	6,880.55	-1,416.33	1,319.91	1,051.89	268.02	4.925			
16,500.00	9,570.00	16,508.32	9,570.00	134.80	138.60	-90.04	6,980.55	-1,416.99	1,319.91	1,048.14	271.78	4.857			
16,600.00	9,570.00	16,608.32	9,570.00	136.71	140.43	-90.04	7,080.54	-1,417.65	1,319.91	1,044.38	275.53	4.790			
16,700.00	9,570.00	16,708.32	9,570.00	138.61	142.27	-90.04	7,180.54	-1,418.32	1,319.91	1,040.62	279.29	4.726			
16,800.00	9,570.00	16,808.32	9,570.00	140.52	144.10	-90.04	7,280.54	-1,418.98	1,319.91	1,036.86	283.05	4.663			
16,900.00	9,570.00	16,908.32	9,570.00	142.43	145.94	-90.04	7,380.54	-1,419.64	1,319.91	1,033.10	286.81	4.602			
17,000.00	9,570.00	17,008.32	9,570.00	144.33	147.78	-90.04	7,480.53	-1,420.31	1,319.91	1,029.34	290.57	4.542			
17,100.00	9,570.00	17,108.32	9,570.00	146.24	149.62	-90.04	7,580.53	-1,420.97	1,319.91	1,025.57	294.34	4.484			
17,200.00	9,570.00	17,208.32	9,570.00	148.15	151.46	-90.04	7,680.53	-1,421.63	1,319.91	1,021.81	298.11	4.428			
17,300.00	9,570.00	17,308.32	9,570.00	150.05	153.31	-90.04	7,780.53	-1,422.30	1,319.91	1,018.04	301.87	4.372			
17,400.00	9,570.00	17,408.32	9,570.00	151.96	155.15	-90.04	7,880.53	-1,422.96	1,319.91	1,014.27	305.64	4.318			
17,500.00	9,570.00	17,508.32	9,570.00	153.87	157.00	-90.04	7,980.52	-1,423.62	1,319.91	1,010.50	309.41	4.266			
17,600.00	9,570.00	17,608.32	9,570.00	155.78	158.85	-90.04	8,080.52	-1,424.29	1,319.91	1,006.72	313.19	4.214			
17,700.00	9,570.00	17,708.32	9,570.00	157.69	160.70	-90.04	8,180.52	-1,424.95	1,319.91	1,002.95	316.96	4.164			
17,800.00	9,570.00	17,808.32	9,570.00	159.59	162.55	-90.04	8,280.52	-1,425.61	1,319.91	999.18	320.74	4.115			
17,900.00	9,570.00	17,908.32	9,570.00	161.50	164.41	-90.04	8,380.51	-1,426.28	1,319.91	995.40	324.51	4.067			
18,000.00	9,570.00	18,008.32	9,570.00	163.41	166.26	-90.04	8,480.51	-1,426.94	1,319.91	991.62	328.29	4.021			
18,100.00	9,570.00	18,108.32	9,570.00	165.32	168.12	-90.04	8,580.51	-1,427.60	1,319.91	987.84	332.07	3.975			
18,200.00	9,570.00	18,208.32	9,570.00	167.23	169.97	-90.04	8,680.51	-1,428.27	1,319.91	984.06	335.85	3.930			
18,300.00	9,570.00	18,308.32	9,570.00	169.14	171.83	-90.04	8,780.51	-1,428.93	1,319.91	980.28	339.63	3.886			
18,400.00	9,570.00	18,408.32	9,570.00	171.05	173.69	-90.04	8,880.50	-1,429.59	1,319.91	976.50	343.41	3.844			
18,500.00	9,570.00	18,508.32	9,570.00	172.95	175.55	-90.04	8,980.50	-1,430.25	1,319.91	972.72	347.19	3.802			
18,600.00	9,570.00	18,608.32	9,570.00	174.86	177.42	-90.04	9,080.50	-1,430.92	1,319.91	968.93	350.98	3.761			
18,700.00	9,570.00	18,708.32	9,570.00	176.77	179.28	-90.04	9,180.50	-1,431.58	1,319.91	965.15	354.76	3.721			
18,800.00	9,570.00	18,808.32	9,570.00	178.68	181.14	-90.04	9,280.49	-1,432.24	1,319.91	961.36	358.55	3.681			
18,900.00	9,570.00	18,908.32	9,570.00	180.59	183.01	-90.04	9,380.49	-1,432.91	1,319.91	957.58	362.33	3.643			
19,000.00	9,570.00	19,008.32	9,570.00	182.50	184.87	-90.04	9,480.49	-1,433.57	1,319.91	953.79	366.12	3.605			
19,100.00	9,570.00	19,108.32	9,570.00	184.41	186.74	-90.04	9,580.49	-1,434.23	1,319.91	950.00	369.91	3.568			
19,200.00	9,570.00	19,208.32	9,570.00	186.32	188.61	-90.04	9,680.49	-1,434.90	1,319.91	946.21	373.70	3.532			
19,300.00	9,570.00	19,308.32	9,570.00	188.23	190.48	-90.04	9,780.48	-1,435.56	1,319.91	942.42	377.49	3.497			
19,400.00	9,570.00	19,408.32	9,570.00	190.14	192.35	-90.04	9,880.48	-1,436.22	1,319.91	938.63	381.28	3.462			
19,500.00	9,570.00	19,508.32	9,570.00	192.05	194.22	-90.04	9,980.48	-1,436.89	1,319.91	934.84	385.07	3.428			
19,600.00	9,570.00	19,608.32	9,570.00	193.96	196.09	-90.04	10,080.48	-1,437.55	1,319.91	931.05	388.86	3.394			
19,700.00	9,570.00	19,708.32	9,570.00	195.87	197.95	-90.04	10,180.47	-1,438.21	1,319.91	927.27	392.64	3.362			
19,785.67	9,570.00	19,794.00	9,570.00	197.51	199.45	-90.04	10,266.15	-1,438.78	1,319.91	924.15	395.76	3.335 SF			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 403H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,000.00	9,570.00	13,012.14	9,570.00	68.38	67.74	89.78	3,498.20	1,256.49	1,330.42	1,194.45	135.98	9.784	
13,100.00	9,570.00	13,112.14	9,570.00	70.26	69.60	89.78	3,598.20	1,255.83	1,330.42	1,190.70	139.72	9.522	
13,200.00	9,570.00	13,212.14	9,570.00	72.15	71.46	89.78	3,698.20	1,255.16	1,330.42	1,186.95	143.47	9.273	
13,300.00	9,570.00	13,312.14	9,570.00	74.03	73.32	89.78	3,798.19	1,254.50	1,330.42	1,183.20	147.22	9.037	
13,400.00	9,570.00	13,412.14	9,570.00	75.92	75.18	89.78	3,898.19	1,253.84	1,330.42	1,179.44	150.98	8.812	
13,500.00	9,570.00	13,512.14	9,570.00	77.81	77.05	89.78	3,998.19	1,253.17	1,330.42	1,175.68	154.74	8.598	
13,600.00	9,570.00	13,612.14	9,570.00	79.70	78.92	89.78	4,098.19	1,252.51	1,330.42	1,171.92	158.50	8.394	
13,700.00	9,570.00	13,712.14	9,570.00	81.59	80.79	89.78	4,198.18	1,251.85	1,330.42	1,168.16	162.27	8.199	
13,800.00	9,570.00	13,812.14	9,570.00	83.48	82.67	89.78	4,298.18	1,251.18	1,330.42	1,164.39	166.04	8.013	
13,900.00	9,570.00	13,912.14	9,570.00	85.37	84.54	89.78	4,398.18	1,250.52	1,330.42	1,160.61	169.81	7.835	
14,000.00	9,570.00	14,012.14	9,570.00	87.27	86.42	89.78	4,498.18	1,249.86	1,330.42	1,156.84	173.58	7.664	
14,100.00	9,570.00	14,112.14	9,570.00	89.16	88.30	89.78	4,598.18	1,249.19	1,330.42	1,153.06	177.36	7.501	
14,200.00	9,570.00	14,212.14	9,570.00	91.06	90.18	89.78	4,698.17	1,248.53	1,330.42	1,149.29	181.14	7.345	
14,300.00	9,570.00	14,312.14	9,570.00	92.95	92.06	89.78	4,798.17	1,247.87	1,330.42	1,145.50	184.92	7.195	
14,400.00	9,570.00	14,412.14	9,570.00	94.85	93.95	89.78	4,898.17	1,247.20	1,330.42	1,141.72	188.70	7.050	
14,500.00	9,570.00	14,512.14	9,570.00	96.75	95.83	89.78	4,998.17	1,246.54	1,330.42	1,137.94	192.49	6.912	
14,600.00	9,570.00	14,612.14	9,570.00	98.65	97.72	89.78	5,098.16	1,245.88	1,330.42	1,134.15	196.27	6.778	
14,700.00	9,570.00	14,712.14	9,570.00	100.55	99.61	89.78	5,198.16	1,245.21	1,330.42	1,130.36	200.06	6.650	
14,800.00	9,570.00	14,812.14	9,570.00	102.44	101.49	89.78	5,298.16	1,244.55	1,330.42	1,126.57	203.85	6.527	
14,900.00	9,570.00	14,912.14	9,570.00	104.34	103.38	89.78	5,398.16	1,243.89	1,330.42	1,122.78	207.64	6.407	
15,000.00	9,570.00	15,012.14	9,570.00	106.25	105.27	89.78	5,498.16	1,243.22	1,330.42	1,118.99	211.43	6.292	
15,100.00	9,570.00	15,112.14	9,570.00	108.15	107.16	89.78	5,598.15	1,242.56	1,330.42	1,115.20	215.23	6.182	
15,200.00	9,570.00	15,212.14	9,570.00	110.05	109.06	89.78	5,698.15	1,241.90	1,330.42	1,111.40	219.02	6.074	
15,300.00	9,570.00	15,312.14	9,570.00	111.95	110.95	89.78	5,798.15	1,241.23	1,330.42	1,107.61	222.82	5.971	
15,400.00	9,570.00	15,412.14	9,570.00	113.85	112.84	89.78	5,898.15	1,240.57	1,330.42	1,103.81	226.61	5.871	
15,500.00	9,570.00	15,512.14	9,570.00	115.75	114.74	89.78	5,998.14	1,239.91	1,330.42	1,100.01	230.41	5.774	
15,600.00	9,570.00	15,612.14	9,570.00	117.66	116.63	89.78	6,098.14	1,239.24	1,330.42	1,096.21	234.21	5.680	
15,700.00	9,570.00	15,712.14	9,570.00	119.56	118.52	89.78	6,198.14	1,238.58	1,330.42	1,092.41	238.01	5.590	
15,800.00	9,570.00	15,812.14	9,570.00	121.47	120.42	89.78	6,298.14	1,237.92	1,330.42	1,088.61	241.81	5.502	
15,900.00	9,570.00	15,912.14	9,570.00	123.37	122.32	89.78	6,398.14	1,237.26	1,330.42	1,084.81	245.61	5.417	
16,000.00	9,570.00	16,012.14	9,570.00	125.27	124.21	89.78	6,498.13	1,236.59	1,330.42	1,081.01	249.41	5.334	
16,100.00	9,570.00	16,112.14	9,570.00	127.18	126.11	89.78	6,598.13	1,235.93	1,330.42	1,077.21	253.22	5.254	
16,200.00	9,570.00	16,212.14	9,570.00	129.08	128.01	89.78	6,698.13	1,235.27	1,330.42	1,073.40	257.02	5.176	
16,300.00	9,570.00	16,312.14	9,570.00	130.99	129.91	89.78	6,798.13	1,234.60	1,330.42	1,069.60	260.83	5.101	
16,400.00	9,570.00	16,412.14	9,570.00	132.89	131.81	89.78	6,898.12	1,233.94	1,330.42	1,065.79	264.63	5.027	
16,500.00	9,570.00	16,512.14	9,570.00	134.80	133.71	89.78	6,998.12	1,233.28	1,330.42	1,061.99	268.44	4.956	
16,600.00	9,570.00	16,612.14	9,570.00	136.71	135.61	89.78	7,098.12	1,232.61	1,330.42	1,058.18	272.24	4.887	
16,700.00	9,570.00	16,712.14	9,570.00	138.61	137.51	89.78	7,198.12	1,231.95	1,330.42	1,054.37	276.05	4.819	
16,800.00	9,570.00	16,812.14	9,570.00	140.52	139.41	89.78	7,298.12	1,231.29	1,330.42	1,050.56	279.86	4.754	
16,900.00	9,570.00	16,912.14	9,570.00	142.43	141.31	89.78	7,398.11	1,230.62	1,330.42	1,046.76	283.67	4.690	
17,000.00	9,570.00	17,012.14	9,570.00	144.33	143.21	89.78	7,498.11	1,229.96	1,330.42	1,042.95	287.48	4.628	
17,100.00	9,570.00	17,112.14	9,570.00	146.24	145.11	89.78	7,598.11	1,229.30	1,330.42	1,039.14	291.29	4.567	
17,200.00	9,570.00	17,212.14	9,570.00	148.15	147.01	89.78	7,698.11	1,228.63	1,330.42	1,035.33	295.10	4.508	
17,300.00	9,570.00	17,312.14	9,570.00	150.05	148.92	89.78	7,798.11	1,227.97	1,330.42	1,031.52	298.91	4.451	
17,400.00	9,570.00	17,412.14	9,570.00	151.96	150.82	89.78	7,898.10	1,227.31	1,330.42	1,027.71	302.72	4.395	
17,500.00	9,570.00	17,512.14	9,570.00	153.87	152.72	89.78	7,998.10	1,226.64	1,330.42	1,023.89	306.53	4.340	
17,600.00	9,570.00	17,612.14	9,570.00	155.78	154.62	89.78	8,098.10	1,225.98	1,330.42	1,020.08	310.34	4.287	
17,700.00	9,570.00	17,712.14	9,570.00	157.69	156.53	89.78	8,198.10	1,225.32	1,330.42	1,016.27	314.15	4.235	
17,800.00	9,570.00	17,812.14	9,570.00	159.59	158.43	89.78	8,298.09	1,224.65	1,330.42	1,012.46	317.97	4.184	
17,900.00	9,570.00	17,912.14	9,570.00	161.50	160.34	89.78	8,398.09	1,223.99	1,330.42	1,008.64	321.78	4.135	
18,000.00	9,570.00	18,012.14	9,570.00	163.41	162.24	89.78	8,498.09	1,223.33	1,330.42	1,004.83	325.59	4.086	
18,100.00	9,570.00	18,112.14	9,570.00	165.32	164.14	89.78	8,598.09	1,222.66	1,330.42	1,001.02	329.41	4.039	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 403H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,200.00	9,570.00	18,212.14	9,570.00	167.23	166.05	89.78	8,698.09	1,222.00	1,330.42	997.20	333.22	3.993	
18,300.00	9,570.00	18,312.14	9,570.00	169.14	167.95	89.78	8,798.08	1,221.34	1,330.42	993.39	337.03	3.947	
18,400.00	9,570.00	18,412.14	9,570.00	171.05	169.86	89.78	8,898.08	1,220.67	1,330.42	989.57	340.85	3.903	
18,500.00	9,570.00	18,512.14	9,570.00	172.95	171.76	89.78	8,998.08	1,220.01	1,330.42	985.76	344.66	3.860	
18,600.00	9,570.00	18,612.14	9,570.00	174.86	173.67	89.78	9,098.08	1,219.35	1,330.42	981.94	348.48	3.818	
18,700.00	9,570.00	18,712.14	9,570.00	176.77	175.57	89.78	9,198.07	1,218.69	1,330.42	978.13	352.29	3.776	
18,800.00	9,570.00	18,812.14	9,570.00	178.68	177.48	89.78	9,298.07	1,218.02	1,330.42	974.31	356.11	3.736	
18,900.00	9,570.00	18,912.14	9,570.00	180.59	179.39	89.78	9,398.07	1,217.36	1,330.42	970.50	359.93	3.696	
19,000.00	9,570.00	19,012.14	9,570.00	182.50	181.29	89.78	9,498.07	1,216.70	1,330.42	966.68	363.74	3.658	
19,100.00	9,570.00	19,112.14	9,570.00	184.41	183.20	89.78	9,598.07	1,216.03	1,330.42	962.86	367.56	3.620	
19,200.00	9,570.00	19,212.14	9,570.00	186.32	185.11	89.78	9,698.06	1,215.37	1,330.42	959.05	371.38	3.582	
19,300.00	9,570.00	19,312.14	9,570.00	188.23	187.01	89.78	9,798.06	1,214.71	1,330.42	955.23	375.19	3.546	
19,400.00	9,570.00	19,412.14	9,570.00	190.14	188.92	89.78	9,898.06	1,214.04	1,330.42	951.41	379.01	3.510	
19,500.00	9,570.00	19,512.14	9,570.00	192.05	190.83	89.78	9,998.06	1,213.38	1,330.42	947.60	382.83	3.475	
19,600.00	9,570.00	19,612.14	9,570.00	193.96	192.73	89.78	10,098.05	1,212.72	1,330.42	943.78	386.65	3.441	
19,700.00	9,570.00	19,712.14	9,570.00	195.87	194.64	89.78	10,198.05	1,212.05	1,330.42	939.96	390.46	3.407	
19,722.05	9,570.00	19,734.19	9,570.00	196.29	195.06	89.78	10,220.10	1,211.91	1,330.42	939.12	391.31	3.400 CC	
19,785.67	9,570.00	19,795.49	9,570.00	197.51	196.23	89.78	10,281.40	1,211.50	1,330.43	936.74	393.68	3.379 ES, SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 501H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,300.00	9,570.00	15,209.39	10,470.00	92.95	92.15	123.93	4,798.17	1,247.87	1,603.44	1,440.73	162.71	9.854	
14,362.13	9,570.00	15,271.52	10,470.00	94.13	93.32	123.93	4,860.30	1,247.45	1,603.44	1,438.72	164.72	9.734	
14,400.00	9,570.00	15,309.39	10,470.00	94.85	94.03	123.93	4,898.17	1,247.20	1,603.44	1,437.50	165.94	9.663	
14,500.00	9,570.00	15,409.39	10,470.00	96.75	95.92	123.93	4,998.17	1,246.54	1,603.44	1,434.26	169.18	9.478	
14,600.00	9,570.00	15,509.39	10,470.00	98.65	97.80	123.93	5,098.16	1,245.88	1,603.44	1,431.03	172.41	9.300	
14,700.00	9,570.00	15,609.39	10,470.00	100.55	99.69	123.93	5,198.16	1,245.21	1,603.44	1,427.79	175.65	9.129	
14,800.00	9,570.00	15,709.39	10,470.00	102.44	101.58	123.93	5,298.16	1,244.55	1,603.44	1,424.55	178.89	8.963	
14,900.00	9,570.00	15,809.39	10,470.00	104.34	103.47	123.93	5,398.16	1,243.89	1,603.44	1,421.31	182.13	8.804	
15,000.00	9,570.00	15,909.39	10,470.00	106.25	105.36	123.93	5,498.16	1,243.22	1,603.44	1,418.06	185.38	8.650	
15,100.00	9,570.00	16,009.39	10,470.00	108.15	107.25	123.93	5,598.15	1,242.56	1,603.44	1,414.82	188.62	8.501	
15,200.00	9,570.00	16,109.39	10,470.00	110.05	109.15	123.93	5,698.15	1,241.90	1,603.44	1,411.57	191.87	8.357	
15,300.00	9,570.00	16,209.39	10,470.00	111.95	111.04	123.93	5,798.15	1,241.23	1,603.44	1,408.32	195.12	8.218	
15,400.00	9,570.00	16,309.39	10,470.00	113.85	112.93	123.93	5,898.15	1,240.57	1,603.44	1,405.07	198.37	8.083	
15,500.00	9,570.00	16,409.39	10,470.00	115.75	114.83	123.93	5,998.14	1,239.91	1,603.44	1,401.82	201.62	7.953	
15,600.00	9,570.00	16,509.39	10,470.00	117.66	116.72	123.93	6,098.14	1,239.24	1,603.44	1,398.57	204.88	7.826	
15,700.00	9,570.00	16,609.39	10,470.00	119.56	118.62	123.93	6,198.14	1,238.58	1,603.44	1,395.31	208.13	7.704	
15,800.00	9,570.00	16,709.39	10,470.00	121.47	120.52	123.93	6,298.14	1,237.92	1,603.44	1,392.05	211.39	7.585	
15,900.00	9,570.00	16,809.39	10,470.00	123.37	122.41	123.93	6,398.14	1,237.26	1,603.44	1,388.80	214.64	7.470	
16,000.00	9,570.00	16,909.39	10,470.00	125.27	124.31	123.93	6,498.13	1,236.59	1,603.44	1,385.54	217.90	7.359	
16,100.00	9,570.00	17,009.39	10,470.00	127.18	126.21	123.93	6,598.13	1,235.93	1,603.44	1,382.28	221.16	7.250	
16,200.00	9,570.00	17,109.39	10,470.00	129.08	128.11	123.93	6,698.13	1,235.27	1,603.44	1,379.02	224.42	7.145	
16,300.00	9,570.00	17,209.39	10,470.00	130.99	130.01	123.93	6,798.13	1,234.60	1,603.44	1,375.76	227.68	7.042	
16,400.00	9,570.00	17,309.39	10,470.00	132.89	131.91	123.93	6,898.12	1,233.94	1,603.44	1,372.50	230.95	6.943	
16,500.00	9,570.00	17,409.39	10,470.00	134.80	133.81	123.93	6,998.12	1,233.28	1,603.44	1,369.23	234.21	6.846	
16,600.00	9,570.00	17,509.39	10,470.00	136.71	135.71	123.93	7,098.12	1,232.61	1,603.44	1,365.97	237.47	6.752	
16,700.00	9,570.00	17,609.39	10,470.00	138.61	137.61	123.93	7,198.12	1,231.95	1,603.44	1,362.70	240.74	6.661	
16,800.00	9,570.00	17,709.39	10,470.00	140.52	139.51	123.93	7,298.12	1,231.29	1,603.44	1,359.44	244.00	6.571	
16,900.00	9,570.00	17,809.39	10,470.00	142.43	141.41	123.93	7,398.11	1,230.62	1,603.44	1,356.17	247.27	6.485	
17,000.00	9,570.00	17,909.39	10,470.00	144.33	143.31	123.93	7,498.11	1,229.96	1,603.44	1,352.91	250.54	6.400	
17,100.00	9,570.00	18,009.39	10,470.00	146.24	145.21	123.93	7,598.11	1,229.30	1,603.44	1,349.64	253.80	6.318	
17,200.00	9,570.00	18,109.39	10,470.00	148.15	147.12	123.93	7,698.11	1,228.63	1,603.44	1,346.37	257.07	6.237	
17,300.00	9,570.00	18,209.39	10,470.00	150.05	149.02	123.93	7,798.11	1,227.97	1,603.44	1,343.10	260.34	6.159	
17,354.51	9,570.00	18,263.90	10,470.00	151.09	150.06	123.93	7,852.61	1,227.61	1,603.44	1,341.32	262.12	6.117 CC	
17,400.00	9,570.00	18,309.39	10,470.00	151.96	150.92	123.93	7,898.10	1,227.31	1,603.44	1,339.83	263.61	6.083	
17,500.00	9,570.00	18,409.39	10,470.00	153.87	152.83	123.93	7,998.10	1,226.64	1,603.44	1,336.56	266.88	6.008	
17,600.00	9,570.00	18,509.39	10,470.00	155.78	154.73	123.93	8,098.10	1,225.98	1,603.44	1,333.29	270.15	5.935	
17,700.00	9,570.00	18,609.39	10,470.00	157.69	156.63	123.93	8,198.10	1,225.32	1,603.44	1,330.02	273.42	5.864	
17,800.00	9,570.00	18,709.39	10,470.00	159.59	158.54	123.93	8,298.09	1,224.65	1,603.44	1,326.75	276.70	5.795	
17,900.00	9,570.00	18,809.39	10,470.00	161.50	160.44	123.93	8,398.09	1,223.99	1,603.44	1,323.47	279.97	5.727	
18,000.00	9,570.00	18,909.39	10,470.00	163.41	162.35	123.93	8,498.09	1,223.33	1,603.44	1,320.20	283.24	5.661	
18,100.00	9,570.00	19,009.39	10,470.00	165.32	164.25	123.93	8,598.09	1,222.66	1,603.44	1,316.93	286.52	5.596	
18,200.00	9,570.00	19,109.39	10,470.00	167.23	166.16	123.93	8,698.09	1,222.00	1,603.44	1,313.65	289.79	5.533	
18,300.00	9,570.00	19,209.39	10,470.00	169.14	168.06	123.93	8,798.08	1,221.34	1,603.44	1,310.38	293.06	5.471	
18,400.00	9,570.00	19,309.39	10,470.00	171.05	169.97	123.93	8,898.08	1,220.67	1,603.44	1,307.10	296.34	5.411	
18,500.00	9,570.00	19,409.39	10,470.00	172.95	171.87	123.93	8,998.08	1,220.01	1,603.44	1,303.83	299.61	5.352	
18,600.00	9,570.00	19,509.39	10,470.00	174.86	173.78	123.93	9,098.08	1,219.35	1,603.44	1,300.55	302.89	5.294	
18,700.00	9,570.00	19,609.39	10,470.00	176.77	175.68	123.93	9,198.07	1,218.69	1,603.44	1,297.28	306.17	5.237	
18,800.00	9,570.00	19,709.39	10,470.00	178.68	177.59	123.93	9,298.07	1,218.02	1,603.44	1,294.00	309.44	5.182	
18,900.00	9,570.00	19,809.39	10,470.00	180.59	179.50	123.93	9,398.07	1,217.36	1,603.44	1,290.72	312.72	5.127	
19,000.00	9,570.00	19,909.39	10,470.00	182.50	181.40	123.93	9,498.07	1,216.70	1,603.44	1,287.45	316.00	5.074	
19,100.00	9,570.00	20,009.39	10,470.00	184.41	183.31	123.93	9,598.07	1,216.03	1,603.44	1,284.17	319.27	5.022	
19,200.00	9,570.00	20,109.39	10,470.00	186.32	185.22	123.93	9,698.06	1,215.37	1,603.44	1,280.89	322.55	4.971	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 501H - Wellbore #1 - Plan 1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF														Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
19,300.00	9,570.00	20,209.39	10,470.00	188.23	187.12	123.93	9,798.06	1,214.71	1,603.44	1,277.61	325.83	4.921			
19,400.00	9,570.00	20,309.39	10,470.00	190.14	189.03	123.93	9,898.06	1,214.04	1,603.44	1,274.33	329.11	4.872			
19,500.00	9,570.00	20,409.39	10,470.00	192.05	190.94	123.93	9,998.06	1,213.38	1,603.44	1,271.05	332.39	4.824			
19,600.00	9,570.00	20,509.39	10,470.00	193.96	192.85	123.93	10,098.05	1,212.72	1,603.44	1,267.77	335.67	4.777			
19,700.00	9,570.00	20,609.39	10,470.00	195.87	194.75	123.93	10,198.05	1,212.05	1,603.44	1,264.49	338.95	4.731			
19,747.75	9,570.00	20,657.15	10,470.00	196.78	195.66	123.93	10,245.80	1,211.74	1,603.44	1,262.93	340.51	4.709			
19,785.67	9,570.00	20,692.74	10,470.00	197.51	196.34	123.93	10,281.40	1,211.50	1,603.44	1,261.74	341.70	4.692 ES, SF			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 505H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.50	-0.36	80.00	-0.50	80.01				
100.00	100.00	99.00	99.00	0.64	0.64	-0.36	80.00	-0.50	80.00	78.72	1.29	62.245	
200.00	200.00	199.00	199.00	1.34	1.33	-0.36	80.00	-0.50	80.00	77.33	2.67	29.998	
300.00	300.00	299.00	299.00	1.81	1.80	-0.36	80.00	-0.50	80.00	76.39	3.61	22.146	
400.00	400.00	399.00	399.00	2.18	2.18	-0.36	80.00	-0.50	80.00	75.64	4.36	18.336	
500.00	500.00	499.00	499.00	2.51	2.50	-0.36	80.00	-0.50	80.00	74.99	5.01	15.977	
600.00	600.00	599.00	599.00	2.79	2.79	-0.36	80.00	-0.50	80.00	74.42	5.58	14.330	
700.00	700.00	699.00	699.00	3.06	3.05	-0.36	80.00	-0.50	80.00	73.89	6.11	13.097	
800.00	800.00	799.00	799.00	3.30	3.30	-0.36	80.00	-0.50	80.00	73.41	6.60	12.129	
900.00	900.00	899.00	899.00	3.53	3.53	-0.36	80.00	-0.50	80.00	72.95	7.05	11.341	
1,000.00	1,000.00	999.00	999.00	3.74	3.74	-0.36	80.00	-0.50	80.00	72.51	7.49	10.685	
1,100.00	1,100.00	1,099.00	1,099.00	3.95	3.95	-0.36	80.00	-0.50	80.00	72.10	7.90	10.126	
1,200.00	1,200.00	1,199.00	1,199.00	4.15	4.15	-0.36	80.00	-0.50	80.00	71.71	8.30	9.643	
1,300.00	1,300.00	1,299.00	1,299.00	4.34	4.34	-0.36	80.00	-0.50	80.00	71.32	8.68	9.220	
1,400.00	1,400.00	1,399.00	1,399.00	4.52	4.52	-0.36	80.00	-0.50	80.00	70.96	9.04	8.845	
1,500.00	1,500.00	1,499.00	1,499.00	4.70	4.70	-0.36	80.00	-0.50	80.00	70.60	9.40	8.510 CC	
1,600.00	1,599.99	1,600.20	1,600.20	4.82	4.82	-170.30	79.24	-0.94	80.12	70.48	9.64	8.311 ES	
1,700.00	1,699.96	1,701.39	1,701.35	4.96	4.97	-171.59	76.94	-2.28	80.46	70.53	9.93	8.104	
1,800.00	1,799.86	1,802.54	1,802.40	5.13	5.14	-173.72	73.10	-4.51	81.11	70.87	10.24	7.917	
1,900.00	1,899.68	1,903.62	1,903.28	5.31	5.33	-176.64	67.72	-7.64	82.20	71.61	10.59	7.761	
2,000.00	1,999.37	2,004.60	2,003.95	5.52	5.54	-179.73	60.80	-11.66	83.90	72.93	10.97	7.648	
2,100.00	2,098.90	2,105.47	2,104.35	5.75	5.78	175.52	52.37	-16.56	86.40	75.03	11.37	7.598	
2,200.00	2,198.26	2,206.15	2,204.36	6.00	6.03	170.88	42.43	-22.34	89.92	78.13	11.79	7.625	
2,200.31	2,198.57	2,206.46	2,204.67	6.00	6.03	170.86	42.40	-22.36	89.93	78.14	11.79	7.626	
2,300.00	2,297.51	2,305.79	2,303.26	6.27	6.31	166.41	31.94	-28.44	94.37	82.14	12.22	7.720	
2,400.00	2,396.77	2,405.43	2,402.16	6.56	6.59	162.36	21.44	-34.54	99.34	86.68	12.66	7.850	
2,500.00	2,496.02	2,505.07	2,501.06	6.86	6.90	158.71	10.95	-40.65	104.76	91.68	13.09	8.005	
2,600.00	2,595.28	2,604.71	2,599.96	7.17	7.21	155.43	0.45	-46.75	110.57	97.05	13.52	8.180	
2,700.00	2,694.53	2,704.35	2,698.86	7.50	7.53	152.49	-10.04	-52.85	116.69	102.75	13.95	8.368	
2,742.07	2,736.29	2,746.27	2,740.47	7.61	7.67	151.34	-14.46	-55.42	119.36	105.26	14.10	8.464	
2,800.00	2,793.83	2,804.00	2,797.77	7.78	7.86	149.77	-20.54	-58.95	122.72	108.40	14.32	8.570	
2,900.00	2,893.39	2,903.69	2,896.70	8.20	8.20	146.74	-31.04	-65.06	127.01	112.23	14.78	8.595	
3,000.00	2,993.16	3,003.34	2,995.61	8.67	8.55	143.23	-41.53	-71.16	129.53	114.31	15.22	8.511	
3,100.00	3,093.07	3,102.89	3,094.42	9.10	8.90	139.12	-52.02	-77.25	130.53	114.96	15.57	8.384	
3,200.00	3,193.05	3,202.27	3,193.06	9.25	9.26	134.29	-62.48	-83.34	130.37	114.68	15.69	8.311	
3,208.95	3,202.00	3,211.15	3,201.88	9.27	9.29	-56.68	-63.42	-83.88	130.31	114.61	15.70	8.302	
3,268.13	3,261.19	3,269.90	3,260.19	9.34	9.51	-59.83	-69.61	-87.48	130.11	114.36	15.74	8.264	
3,300.00	3,293.05	3,301.53	3,291.58	9.38	9.62	-61.52	-72.94	-89.42	130.17	114.39	15.78	8.251	
3,400.00	3,393.05	3,400.78	3,390.10	9.46	9.99	-66.81	-83.39	-95.49	131.10	115.20	15.90	8.245	
3,500.00	3,493.05	3,500.04	3,488.61	9.53	10.36	-71.99	-93.84	-101.57	133.14	117.04	16.10	8.271	
3,600.00	3,593.05	3,599.29	3,587.13	9.61	10.73	-76.97	-104.30	-107.65	136.25	119.88	16.37	8.323	
3,700.00	3,693.05	3,699.12	3,686.24	9.69	11.08	-81.64	-114.62	-113.65	140.26	123.58	16.68	8.411	
3,800.00	3,793.05	3,800.16	3,786.79	9.77	11.50	-85.29	-123.16	-118.61	144.20	127.13	17.07	8.448	
3,900.00	3,893.05	3,901.66	3,888.03	9.85	11.96	-87.83	-129.42	-122.26	147.42	129.94	17.48	8.434	
4,000.00	3,993.05	4,003.47	3,989.73	9.93	12.39	-89.37	-133.36	-124.55	149.58	131.72	17.85	8.377	
4,100.00	4,093.05	4,105.45	4,091.69	10.01	12.74	-89.99	-134.96	-125.48	150.48	132.32	18.16	8.288	
4,200.00	4,193.05	4,205.81	4,192.05	10.08	12.78	-90.00	-135.00	-125.50	150.50	132.21	18.29	8.227	
4,300.00	4,293.05	4,305.81	4,292.05	10.16	12.84	-90.00	-135.00	-125.50	150.50	132.05	18.45	8.157	
4,400.00	4,393.05	4,405.81	4,392.05	10.24	12.89	-90.00	-135.00	-125.50	150.50	131.89	18.61	8.087	
4,500.00	4,493.05	4,505.81	4,492.05	10.32	12.94	-90.00	-135.00	-125.50	150.50	131.73	18.77	8.017	
4,600.00	4,593.05	4,605.81	4,592.05	10.40	13.00	-90.00	-135.00	-125.50	150.50	131.57	18.93	7.949	
4,700.00	4,693.05	4,705.81	4,692.05	10.48	13.05	-90.00	-135.00	-125.50	150.50	131.41	19.09	7.882	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 505H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,793.05	4,805.81	4,792.05	10.56	13.11	-90.00	-135.00	-125.50	150.50	131.25	19.25	7.817	
4,900.00	4,893.05	4,905.81	4,892.05	10.64	13.17	-90.00	-135.00	-125.50	150.50	131.09	19.41	7.752	
5,000.00	4,993.05	5,005.81	4,992.05	10.72	13.22	-90.00	-135.00	-125.50	150.50	130.93	19.57	7.688	
5,100.00	5,093.05	5,105.81	5,092.05	10.79	13.28	-90.00	-135.00	-125.50	150.50	130.76	19.74	7.626	
5,200.00	5,193.05	5,205.81	5,192.05	10.87	13.33	-90.00	-135.00	-125.50	150.50	130.60	19.90	7.564	
5,300.00	5,293.05	5,305.81	5,292.05	10.95	13.39	-90.00	-135.00	-125.50	150.50	130.44	20.06	7.504	
5,400.00	5,393.05	5,405.81	5,392.05	11.03	13.45	-90.00	-135.00	-125.50	150.50	130.28	20.22	7.444	
5,500.00	5,493.05	5,505.81	5,492.05	11.11	13.50	-90.00	-135.00	-125.50	150.50	130.12	20.38	7.386	
5,600.00	5,593.05	5,605.81	5,592.05	11.19	13.56	-90.00	-135.00	-125.50	150.50	129.96	20.54	7.328	
5,700.00	5,693.05	5,705.81	5,692.05	11.27	13.62	-90.00	-135.00	-125.50	150.50	129.80	20.70	7.271	
5,800.00	5,793.05	5,805.81	5,792.05	11.35	13.68	-90.00	-135.00	-125.50	150.50	129.64	20.86	7.215	
5,900.00	5,893.05	5,905.81	5,892.05	11.43	13.74	-90.00	-135.00	-125.50	150.50	129.48	21.02	7.160	
6,000.00	5,993.05	6,005.81	5,992.05	11.51	13.79	-90.00	-135.00	-125.50	150.50	129.32	21.18	7.106	
6,100.00	6,093.05	6,105.81	6,092.05	11.59	13.85	-90.00	-135.00	-125.50	150.50	129.16	21.34	7.052	
6,200.00	6,193.05	6,205.81	6,192.05	11.67	13.91	-90.00	-135.00	-125.50	150.50	129.00	21.50	7.000	
6,300.00	6,293.05	6,305.81	6,292.05	11.75	13.97	-90.00	-135.00	-125.50	150.50	128.84	21.66	6.948	
6,400.00	6,393.05	6,405.81	6,392.05	11.82	14.03	-90.00	-135.00	-125.50	150.50	128.68	21.82	6.897	
6,500.00	6,493.05	6,505.81	6,492.05	11.90	14.09	-90.00	-135.00	-125.50	150.50	128.52	21.98	6.846	
6,600.00	6,593.05	6,605.81	6,592.05	11.98	14.15	-90.00	-135.00	-125.50	150.50	128.36	22.14	6.797	
6,700.00	6,693.05	6,705.81	6,692.05	12.06	14.21	-90.00	-135.00	-125.50	150.50	128.20	22.30	6.748	
6,800.00	6,793.05	6,805.81	6,792.05	12.14	14.27	-90.00	-135.00	-125.50	150.50	128.04	22.46	6.700	
6,900.00	6,893.05	6,905.81	6,892.05	12.22	14.33	-90.00	-135.00	-125.50	150.50	127.88	22.62	6.652	
7,000.00	6,993.05	7,005.81	6,992.05	12.30	14.39	-90.00	-135.00	-125.50	150.50	127.72	22.78	6.605	
7,100.00	7,093.05	7,105.81	7,092.05	12.38	14.45	-90.00	-135.00	-125.50	150.50	127.56	22.94	6.559	
7,200.00	7,193.05	7,205.81	7,192.05	12.46	14.51	-90.00	-135.00	-125.50	150.50	127.39	23.11	6.514	
7,300.00	7,293.05	7,305.81	7,292.05	12.54	14.58	-90.00	-135.00	-125.50	150.50	127.23	23.27	6.469	
7,400.00	7,393.05	7,405.81	7,392.05	12.62	14.64	-90.00	-135.00	-125.50	150.50	127.07	23.43	6.424	
7,500.00	7,493.05	7,505.81	7,492.05	12.70	14.70	-90.00	-135.00	-125.50	150.50	126.91	23.59	6.381	
7,600.00	7,593.05	7,605.81	7,592.05	12.78	14.76	-90.00	-135.00	-125.50	150.50	126.75	23.75	6.338	
7,700.00	7,693.05	7,705.81	7,692.05	12.86	14.82	-90.00	-135.00	-125.50	150.50	126.59	23.91	6.295	
7,800.00	7,793.05	7,805.81	7,792.05	12.94	14.88	-90.00	-135.00	-125.50	150.50	126.43	24.07	6.253	
7,900.00	7,893.05	7,905.81	7,892.05	13.02	14.95	-90.00	-135.00	-125.50	150.50	126.27	24.23	6.212	
8,000.00	7,993.05	8,005.81	7,992.05	13.10	15.01	-90.00	-135.00	-125.50	150.50	126.11	24.39	6.171	
8,100.00	8,093.05	8,105.81	8,092.05	13.18	15.07	-90.00	-135.00	-125.50	150.50	125.95	24.55	6.130	
8,200.00	8,193.05	8,205.81	8,192.05	13.26	15.14	-90.00	-135.00	-125.50	150.50	125.79	24.71	6.091	
8,300.00	8,293.05	8,305.81	8,292.05	13.34	15.20	-90.00	-135.00	-125.50	150.50	125.63	24.87	6.051	
8,400.00	8,393.05	8,405.81	8,392.05	13.42	15.26	-90.00	-135.00	-125.50	150.50	125.47	25.03	6.012	
8,500.00	8,493.05	8,505.81	8,492.05	13.50	15.33	-90.00	-135.00	-125.50	150.50	125.31	25.19	5.974	
8,600.00	8,593.05	8,605.81	8,592.05	13.58	15.39	-90.00	-135.00	-125.50	150.50	125.15	25.35	5.936	
8,700.00	8,693.05	8,705.81	8,692.05	13.66	15.45	-90.00	-135.00	-125.50	150.50	124.99	25.51	5.899	
8,800.00	8,793.05	8,805.81	8,792.05	13.74	15.52	-90.00	-135.00	-125.50	150.50	124.83	25.67	5.862	
8,900.00	8,893.05	8,905.81	8,892.05	13.82	15.58	-90.00	-135.00	-125.50	150.50	124.67	25.83	5.825	
9,000.00	8,993.05	9,005.81	8,992.05	13.90	15.65	-90.00	-135.00	-125.50	150.50	124.50	26.00	5.789	
9,093.95	9,087.00	9,099.75	9,086.00	13.97	15.71	-90.00	-135.00	-125.50	150.50	124.36	26.14	5.757	
9,100.00	9,093.05	9,105.81	9,092.05	13.97	15.71	-76.49	-135.00	-125.50	150.49	124.34	26.15	5.755	
9,125.00	9,118.03	9,130.79	9,117.03	13.96	15.73	-76.87	-135.00	-125.50	150.27	124.08	26.19	5.738	
9,150.00	9,142.93	9,155.68	9,141.93	13.96	15.74	-77.78	-135.00	-125.50	149.77	123.53	26.24	5.708	
9,175.00	9,167.67	9,180.42	9,166.67	13.95	15.76	-79.19	-135.00	-125.50	149.04	122.73	26.31	5.665	
9,200.00	9,192.18	9,204.94	9,191.18	13.95	15.77	-81.11	-135.00	-125.50	148.20	121.80	26.40	5.614	
9,225.00	9,216.42	9,229.17	9,215.42	13.94	15.79	-83.50	-135.00	-125.50	147.35	120.83	26.51	5.557	
9,250.00	9,240.29	9,253.05	9,239.29	13.93	15.81	-86.32	-135.00	-125.50	146.66	120.00	26.66	5.501	
9,275.00	9,263.75	9,276.50	9,262.75	13.92	15.82	-89.53	-135.00	-125.50	146.33	119.49	26.84	5.452	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 505H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,278.46	9,266.96	9,279.71	9,265.96	13.92	15.82	-90.00	-135.00	-125.50	146.32	119.46	26.87	5.447	
9,300.00	9,286.72	9,299.47	9,285.72	13.91	15.84	-93.04	-135.00	-125.50	146.58	119.52	27.05	5.418	
9,325.00	9,309.14	9,321.90	9,308.14	13.90	15.85	-96.77	-135.00	-125.50	147.63	120.33	27.30	5.408	
9,350.00	9,330.96	9,343.71	9,329.96	13.89	15.86	-100.59	-135.00	-125.50	149.74	122.17	27.58	5.430	
9,375.00	9,352.11	9,364.86	9,351.11	13.89	15.88	-104.39	-135.00	-125.50	153.13	125.26	27.87	5.494	
9,400.00	9,372.53	9,385.28	9,371.53	13.88	15.89	-108.07	-135.00	-125.50	157.98	129.81	28.17	5.608	
9,425.00	9,392.17	9,404.92	9,391.17	13.87	15.90	-111.52	-135.00	-125.50	164.44	135.98	28.45	5.779	
9,450.00	9,410.97	9,423.72	9,409.97	13.87	15.92	-114.67	-135.00	-125.50	172.58	143.86	28.71	6.010	
9,475.00	9,428.89	9,441.64	9,427.89	13.86	15.93	-117.46	-135.00	-125.50	182.42	153.48	28.94	6.303	
9,500.00	9,445.86	9,458.62	9,444.86	13.86	15.94	-119.85	-135.00	-125.50	193.93	164.81	29.13	6.658	
9,525.00	9,461.86	9,474.61	9,460.86	13.86	15.95	-121.81	-135.00	-125.50	207.05	177.77	29.28	7.072	
9,542.69	9,472.56	9,485.31	9,471.56	13.85	15.96	-122.92	-135.00	-125.50	217.24	187.88	29.36	7.400	
9,550.00	9,476.83	9,489.58	9,475.83	13.85	15.96	-123.72	-135.00	-125.50	221.68	192.29	29.39	7.543	
9,575.00	9,490.79	9,503.54	9,489.79	13.84	15.97	-126.12	-135.00	-125.50	237.88	208.41	29.46	8.073	
9,600.00	9,503.71	9,516.47	9,502.71	13.84	15.98	-128.04	-135.00	-125.50	255.55	226.02	29.52	8.656	
9,625.00	9,515.57	9,528.32	9,514.57	13.84	15.98	-129.46	-135.00	-125.50	274.50	244.93	29.56	9.286	
9,650.00	9,526.33	9,539.08	9,525.33	13.83	15.99	-130.37	-135.00	-125.50	294.57	264.98	29.59	9.956	
9,675.00	9,535.95	9,548.71	9,534.95	13.83	16.00	-130.74	-135.00	-125.50	315.61	286.01	29.60	10.662	
9,700.00	9,544.42	9,557.18	9,543.42	13.84	16.00	-130.48	-135.00	-125.50	337.49	307.88	29.61	11.398	
9,725.00	9,551.71	9,564.47	9,550.71	13.84	16.01	-129.46	-135.00	-125.50	360.08	330.47	29.61	12.160	
9,750.00	9,557.80	9,570.56	9,556.80	13.85	16.01	-127.47	-135.00	-125.50	383.27	353.65	29.61	12.942	
9,775.00	9,562.68	9,575.43	9,561.68	13.87	16.02	-124.11	-135.00	-125.50	406.94	377.33	29.61	13.742	
9,800.00	9,566.32	9,579.08	9,565.32	13.96	16.02	-118.76	-135.00	-125.50	431.01	401.40	29.61	14.556	
9,825.00	9,568.73	9,581.48	9,567.73	14.15	16.02	-110.34	-135.00	-125.50	455.38	425.77	29.61	15.380	
9,850.00	9,569.89	9,582.64	9,568.89	14.37	16.02	-97.31	-135.00	-125.50	479.96	450.35	29.61	16.211	
9,860.67	9,570.00	9,582.75	9,569.00	14.46	16.02	-90.00	-135.00	-125.50	490.49	460.89	29.61	16.567	
9,900.00	9,570.00	9,582.75	9,569.00	14.84	16.02	-90.00	-135.00	-125.50	529.39	499.78	29.60	17.883	
10,000.00	9,570.00	9,582.75	9,569.00	15.93	16.02	-90.00	-135.00	-125.50	628.52	598.92	29.60	21.235	
10,100.00	9,570.00	9,582.75	9,569.00	17.17	16.02	-90.00	-135.00	-125.50	727.89	698.30	29.60	24.592	
10,200.00	9,570.00	9,582.75	9,569.00	18.53	16.02	-90.00	-135.00	-125.50	827.42	797.81	29.60	27.949	
10,300.00	9,570.00	11,205.84	10,470.00	19.98	19.88	180.00	789.44	-55.99	901.00	859.61	41.39	21.770	
10,400.00	9,570.00	11,305.84	10,470.00	21.50	21.25	180.00	889.43	-56.65	901.00	858.99	42.01	21.446	
10,500.00	9,570.00	11,405.84	10,470.00	23.08	22.71	180.00	989.43	-57.32	901.00	858.32	42.68	21.108	
10,600.00	9,570.00	11,505.84	10,470.00	24.71	24.24	180.00	1,089.43	-57.98	901.00	857.60	43.40	20.758	
10,700.00	9,570.00	11,605.84	10,470.00	26.38	25.82	180.00	1,189.43	-58.64	901.00	856.83	44.17	20.399	
10,800.00	9,570.00	11,705.84	10,470.00	28.07	27.45	180.00	1,289.42	-59.31	901.00	856.03	44.97	20.034	
10,900.00	9,570.00	11,805.84	10,470.00	29.80	29.11	180.00	1,389.42	-59.97	901.00	855.18	45.82	19.664	
11,000.00	9,570.00	11,905.84	10,470.00	31.54	30.80	180.00	1,489.42	-60.63	901.00	854.30	46.70	19.292	
11,100.00	9,570.00	12,005.84	10,470.00	33.31	32.52	180.00	1,589.42	-61.29	901.00	853.38	47.62	18.920	
11,200.00	9,570.00	12,105.84	10,470.00	35.09	34.26	180.00	1,689.42	-61.96	901.00	852.43	48.57	18.550	
11,300.00	9,570.00	12,205.84	10,470.00	36.88	36.02	180.00	1,789.41	-62.62	901.00	851.44	49.56	18.182	
11,353.97	9,570.00	12,259.82	10,470.00	37.86	36.98	180.00	1,843.38	-62.98	901.00	850.90	50.10	17.984	
11,400.00	9,570.00	12,305.84	10,470.00	38.69	37.80	180.00	1,889.41	-63.28	901.00	850.43	50.57	17.818	
11,500.00	9,570.00	12,405.84	10,470.00	40.50	39.58	180.00	1,989.41	-63.95	901.00	849.39	51.61	17.458	
11,600.00	9,570.00	12,505.84	10,470.00	42.33	41.38	180.00	2,089.41	-64.61	901.00	848.33	52.67	17.105	
11,700.00	9,570.00	12,605.84	10,470.00	44.16	43.19	180.00	2,189.40	-65.27	901.00	847.23	53.77	16.758	
11,800.00	9,570.00	12,705.84	10,470.00	46.00	45.01	180.00	2,289.40	-65.94	901.00	846.12	54.88	16.417	
11,900.00	9,570.00	12,805.84	10,470.00	47.84	46.83	180.00	2,389.40	-66.60	901.00	844.98	56.02	16.084	
12,000.00	9,570.00	12,905.84	10,470.00	49.69	48.67	180.00	2,489.40	-67.26	901.00	843.83	57.17	15.759	
12,100.00	9,570.00	13,005.84	10,470.00	51.54	50.50	180.00	2,589.40	-67.93	901.00	842.65	58.35	15.441	
12,200.00	9,570.00	13,105.84	10,470.00	53.40	52.35	180.00	2,689.39	-68.59	901.00	841.46	59.54	15.132	
12,300.00	9,570.00	13,205.84	10,470.00	55.26	54.20	180.00	2,789.39	-69.25	901.00	840.25	60.75	14.830	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 505H - Wellbore #1 - Plan 1													Offset Site Error:	0.00 usft
Survey Program:		0-MWD+IGRF						Rule Assigned:					Offset Well Error:	0.50 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,400.00	9,570.00	13,305.84	10,470.00	57.13	56.05	180.00	2,889.39	-69.92	901.00	839.02	61.98	14.537		
12,500.00	9,570.00	13,405.84	10,470.00	59.00	57.91	180.00	2,989.39	-70.58	901.00	837.78	63.22	14.251		
12,600.00	9,570.00	13,505.84	10,470.00	60.87	59.77	180.00	3,089.38	-71.24	901.00	836.52	64.48	13.973		
12,700.00	9,570.00	13,605.84	10,470.00	62.74	61.63	180.00	3,189.38	-71.91	901.00	835.25	65.75	13.703		
12,800.00	9,570.00	13,705.84	10,470.00	64.62	63.50	180.00	3,289.38	-72.57	901.00	833.97	67.03	13.441		
12,900.00	9,570.00	13,805.84	10,470.00	66.50	65.37	180.00	3,389.38	-73.23	901.00	832.67	68.33	13.186		
13,000.00	9,570.00	13,905.84	10,470.00	68.38	67.24	180.00	3,489.38	-73.90	901.00	831.37	69.63	12.939		
13,100.00	9,570.00	14,005.84	10,470.00	70.26	69.12	180.00	3,589.37	-74.56	901.00	830.05	70.95	12.699		
13,200.00	9,570.00	14,105.84	10,470.00	72.15	70.99	180.00	3,689.37	-75.22	901.00	828.72	72.28	12.466		
13,300.00	9,570.00	14,205.84	10,470.00	74.03	72.87	180.00	3,789.37	-75.89	901.00	827.39	73.61	12.240		
13,400.00	9,570.00	14,305.84	10,470.00	75.92	74.75	180.00	3,889.37	-76.55	901.00	826.04	74.96	12.020		
13,500.00	9,570.00	14,405.84	10,470.00	77.81	76.63	180.00	3,989.37	-77.21	901.00	824.69	76.31	11.807		
13,600.00	9,570.00	14,505.84	10,470.00	79.70	78.52	180.00	4,089.36	-77.88	901.00	823.33	77.67	11.600		
13,700.00	9,570.00	14,605.84	10,470.00	81.59	80.40	180.00	4,189.36	-78.54	901.00	821.96	79.04	11.399		
13,800.00	9,570.00	14,705.84	10,470.00	83.48	82.29	180.00	4,289.36	-79.20	901.00	820.58	80.42	11.204		
13,900.00	9,570.00	14,805.84	10,470.00	85.37	84.18	180.00	4,389.36	-79.87	901.00	819.20	81.80	11.014		
14,000.00	9,570.00	14,905.84	10,470.00	87.27	86.07	180.00	4,489.35	-80.53	901.00	817.81	83.19	10.830		
14,100.00	9,570.00	15,005.84	10,470.00	89.16	87.96	180.00	4,589.35	-81.19	901.00	816.41	84.59	10.651		
14,200.00	9,570.00	15,105.84	10,470.00	91.06	89.85	180.00	4,689.35	-81.85	901.00	815.01	85.99	10.478		
14,300.00	9,570.00	15,205.84	10,470.00	92.95	91.74	180.00	4,789.35	-82.52	901.00	813.60	87.40	10.309		
14,353.97	9,570.00	15,259.82	10,470.00	93.98	92.76	180.00	4,843.32	-82.88	901.00	812.84	88.16	10.220		
14,400.00	9,570.00	15,305.84	10,470.00	94.85	93.63	180.00	4,889.35	-83.18	901.00	812.19	88.81	10.145		
14,500.00	9,570.00	15,405.84	10,470.00	96.75	95.53	180.00	4,989.34	-83.84	901.00	810.77	90.23	9.985		
14,600.00	9,570.00	15,505.84	10,470.00	98.65	97.42	180.00	5,089.34	-84.51	901.00	809.34	91.66	9.830		
14,700.00	9,570.00	15,605.84	10,470.00	100.55	99.32	180.00	5,189.34	-85.17	901.00	807.92	93.08	9.679		
14,800.00	9,570.00	15,705.84	10,470.00	102.44	101.21	180.00	5,289.34	-85.83	901.00	806.48	94.52	9.533		
14,900.00	9,570.00	15,805.84	10,470.00	104.34	103.11	180.00	5,389.33	-86.50	901.00	805.05	95.95	9.390		
15,000.00	9,570.00	15,905.84	10,470.00	106.25	105.01	180.00	5,489.33	-87.16	901.00	803.60	97.40	9.251		
15,100.00	9,570.00	16,005.84	10,470.00	108.15	106.91	180.00	5,589.33	-87.82	901.00	802.16	98.84	9.116		
15,200.00	9,570.00	16,105.84	10,470.00	110.05	108.80	180.00	5,689.33	-88.49	901.00	800.71	100.29	8.984		
15,300.00	9,570.00	16,205.84	10,470.00	111.95	110.70	180.00	5,789.33	-89.15	901.00	799.26	101.74	8.856		
15,400.00	9,570.00	16,305.84	10,470.00	113.85	112.60	180.00	5,889.32	-89.81	901.00	797.80	103.20	8.731		
15,500.00	9,570.00	16,405.84	10,470.00	115.75	114.50	180.00	5,989.32	-90.48	901.00	796.34	104.66	8.609		
15,600.00	9,570.00	16,505.84	10,470.00	117.66	116.40	180.00	6,089.32	-91.14	901.00	794.88	106.12	8.491		
15,700.00	9,570.00	16,605.84	10,470.00	119.56	118.30	180.00	6,189.32	-91.80	901.00	793.42	107.58	8.375		
15,800.00	9,570.00	16,705.84	10,470.00	121.47	120.21	180.00	6,289.31	-92.47	901.00	791.95	109.05	8.262		
15,900.00	9,570.00	16,805.84	10,470.00	123.37	122.11	180.00	6,389.31	-93.13	901.00	790.48	110.52	8.152		
16,000.00	9,570.00	16,905.84	10,470.00	125.27	124.01	180.00	6,489.31	-93.79	901.00	789.00	112.00	8.045		
16,100.00	9,570.00	17,005.84	10,470.00	127.18	125.91	180.00	6,589.31	-94.46	901.00	787.53	113.47	7.940		
16,200.00	9,570.00	17,105.84	10,470.00	129.08	127.82	180.00	6,689.31	-95.12	901.00	786.05	114.95	7.838		
16,300.00	9,570.00	17,205.84	10,470.00	130.99	129.72	180.00	6,789.30	-95.78	901.00	784.57	116.43	7.738		
16,400.00	9,570.00	17,305.84	10,470.00	132.89	131.62	180.00	6,889.30	-96.45	901.00	783.08	117.92	7.641		
16,500.00	9,570.00	17,405.84	10,470.00	134.80	133.53	180.00	6,989.30	-97.11	901.00	781.60	119.40	7.546		
16,600.00	9,570.00	17,505.84	10,470.00	136.71	135.43	180.00	7,089.30	-97.77	901.00	780.11	120.89	7.453		
16,700.00	9,570.00	17,605.84	10,470.00	138.61	137.33	180.00	7,189.29	-98.44	901.00	778.62	122.38	7.362		
16,800.00	9,570.00	17,705.84	10,470.00	140.52	139.24	180.00	7,289.29	-99.10	901.00	777.13	123.87	7.274		
16,900.00	9,570.00	17,805.84	10,470.00	142.43	141.14	180.00	7,389.29	-99.76	901.00	775.64	125.36	7.187		
17,000.00	9,570.00	17,905.84	10,470.00	144.33	143.05	180.00	7,489.29	-100.42	901.00	774.14	126.86	7.102		
17,100.00	9,570.00	18,005.84	10,470.00	146.24	144.96	180.00	7,589.29	-101.09	901.00	772.64	128.36	7.020		
17,200.00	9,570.00	18,105.84	10,470.00	148.15	146.86	180.00	7,689.28	-101.75	901.00	771.15	129.85	6.939		
17,300.00	9,570.00	18,205.84	10,470.00	150.05	148.77	180.00	7,789.28	-102.41	901.00	769.64	131.36	6.859		
17,353.97	9,570.00	18,259.82	10,470.00	151.08	149.80	180.00	7,843.25	-102.77	901.00	768.83	132.17	6.817		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 505H - Wellbore #1 - Plan 1													Offset Site Error:	0.00 usft
Survey Program:		0-MWD+IGRF		Rule Assigned:									Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,400.00	9,570.00	18,305.84	10,470.00	151.96	150.67	180.00	7,889.28	-103.08	901.00	768.14	132.86	6.782		
17,500.00	9,570.00	18,405.84	10,470.00	153.87	152.58	180.00	7,989.28	-103.74	901.00	766.64	134.36	6.706		
17,600.00	9,570.00	18,505.84	10,470.00	155.78	154.49	180.00	8,089.28	-104.40	901.00	765.13	135.87	6.632		
17,700.00	9,570.00	18,605.84	10,470.00	157.69	156.39	180.00	8,189.27	-105.07	901.00	763.63	137.37	6.559		
17,800.00	9,570.00	18,705.84	10,470.00	159.59	158.30	180.00	8,289.27	-105.73	901.00	762.12	138.88	6.488		
17,900.00	9,570.00	18,805.84	10,470.00	161.50	160.21	180.00	8,389.27	-106.39	901.00	760.61	140.39	6.418		
18,000.00	9,570.00	18,905.84	10,470.00	163.41	162.11	180.00	8,489.27	-107.06	901.00	759.10	141.90	6.350		
18,100.00	9,570.00	19,005.84	10,470.00	165.32	164.02	180.00	8,589.26	-107.72	901.00	757.59	143.41	6.283		
18,200.00	9,570.00	19,105.84	10,470.00	167.23	165.93	180.00	8,689.26	-108.38	901.00	756.07	144.93	6.217		
18,300.00	9,570.00	19,205.84	10,470.00	169.14	167.84	180.00	8,789.26	-109.05	901.00	754.56	146.44	6.153		
18,400.00	9,570.00	19,305.84	10,470.00	171.05	169.74	180.00	8,889.26	-109.71	901.00	753.05	147.95	6.090		
18,500.00	9,570.00	19,405.84	10,470.00	172.95	171.65	180.00	8,989.26	-110.37	901.00	751.53	149.47	6.028		
18,600.00	9,570.00	19,505.84	10,470.00	174.86	173.56	180.00	9,089.25	-111.04	901.00	750.01	150.99	5.967		
18,700.00	9,570.00	19,605.84	10,470.00	176.77	175.47	180.00	9,189.25	-111.70	901.00	748.49	152.51	5.908		
18,800.00	9,570.00	19,705.84	10,470.00	178.68	177.38	180.00	9,289.25	-112.36	901.00	746.97	154.03	5.850		
18,900.00	9,570.00	19,805.84	10,470.00	180.59	179.29	180.00	9,389.25	-113.03	901.00	745.45	155.55	5.792		
19,000.00	9,570.00	19,905.84	10,470.00	182.50	181.19	180.00	9,489.24	-113.69	901.00	743.93	157.07	5.736		
19,100.00	9,570.00	20,005.84	10,470.00	184.41	183.10	180.00	9,589.24	-114.35	901.00	742.41	158.59	5.681		
19,200.00	9,570.00	20,105.84	10,470.00	186.32	185.01	180.00	9,689.24	-115.02	901.00	740.88	160.12	5.627		
19,300.00	9,570.00	20,205.84	10,470.00	188.23	186.92	180.00	9,789.24	-115.68	901.00	739.36	161.64	5.574		
19,400.00	9,570.00	20,305.84	10,470.00	190.14	188.83	180.00	9,889.24	-116.34	901.00	737.83	163.17	5.522		
19,500.00	9,570.00	20,405.84	10,470.00	192.05	190.74	180.00	9,989.23	-117.01	901.00	736.31	164.69	5.471		
19,600.00	9,570.00	20,505.84	10,470.00	193.96	192.65	180.00	10,089.23	-117.67	901.00	734.78	166.22	5.421		
19,700.00	9,570.00	20,605.84	10,470.00	195.87	194.55	180.00	10,189.23	-118.33	901.00	733.28	167.72	5.372		
19,785.67	9,570.00	20,691.52	10,470.00	197.51	196.05	180.00	10,274.90	-118.90	901.00	732.29	168.71	5.341 SF		



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 602H - Wellbore #1 - Actual													Offset Site Error: 0.00 usft
Survey Program: 80-GYRO-NS, 3393-MWD+IGRF							Rule Assigned:						Offset Well Error: 0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,300.00	9,570.00	20,173.34	11,402.26	169.14	172.83	-152.50	8,898.02	-1,067.33	2,076.78	1,866.84	209.94	9.892	
18,400.00	9,570.00	20,277.02	11,399.21	171.05	174.78	-152.63	9,001.47	-1,061.24	2,071.15	1,859.41	211.74	9.781	
18,500.00	9,570.00	20,345.39	11,396.94	172.95	176.07	-152.68	9,069.74	-1,058.46	2,066.08	1,852.66	213.42	9.681	
18,600.00	9,570.00	20,420.61	11,394.84	174.86	177.51	-152.69	9,144.93	-1,057.52	2,062.66	1,847.37	215.29	9.581	
18,700.00	9,570.00	20,515.41	11,391.40	176.77	179.32	-152.62	9,239.65	-1,058.85	2,059.78	1,842.16	217.61	9.465	
18,800.00	9,570.00	20,613.85	11,388.06	178.68	181.19	-152.56	9,338.02	-1,060.27	2,057.12	1,837.13	219.99	9.351	
18,900.00	9,570.00	20,716.23	11,384.66	180.59	183.13	-152.51	9,440.34	-1,061.35	2,054.36	1,831.95	222.40	9.237	
19,000.00	9,570.00	20,812.49	11,381.12	182.50	184.96	-152.44	9,536.52	-1,063.06	2,051.61	1,826.81	224.80	9.126	
19,100.00	9,570.00	20,903.61	11,378.05	184.41	186.69	-152.37	9,627.57	-1,064.79	2,049.19	1,822.07	227.13	9.022	
19,200.00	9,570.00	20,989.76	11,375.39	186.32	188.33	-152.30	9,713.65	-1,066.92	2,047.31	1,817.91	229.40	8.925	
19,300.00	9,570.00	21,069.59	11,373.50	188.23	189.85	-152.23	9,793.42	-1,069.24	2,046.27	1,814.70	231.57	8.837	
19,340.30	9,570.00	21,099.39	11,373.02	189.00	190.42	-152.20	9,823.20	-1,070.19	2,046.16	1,813.78	232.39	8.805 CC	
19,400.00	9,570.00	21,146.00	11,372.57	190.14	191.31	-152.16	9,869.79	-1,071.76	2,046.39	1,812.76	233.64	8.759	
19,500.00	9,570.00	21,232.13	11,372.13	192.05	192.95	-152.09	9,955.86	-1,075.11	2,047.44	1,811.55	235.90	8.679	
19,600.00	9,570.00	21,303.48	11,372.18	193.96	194.31	-152.02	10,027.12	-1,078.45	2,049.41	1,811.54	237.87	8.616 ES	
19,700.00	9,570.00	21,394.81	11,373.33	195.87	196.05	-151.93	10,118.33	-1,083.15	2,052.61	1,812.35	240.26	8.543	
19,785.67	9,570.00	21,480.51	11,374.55	197.51	197.68	-151.87	10,203.93	-1,086.97	2,055.22	1,812.80	242.41	8.478 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 603H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	1.00	0.50	0.50	-135.77	-30.20	-29.40	42.15				
100.00	100.00	101.00	101.00	0.64	0.65	-135.77	-30.20	-29.40	42.15	40.85	1.29	32.594	
200.00	200.00	201.00	201.00	1.34	1.34	-135.77	-30.20	-29.40	42.15	39.47	2.68	15.731	
300.00	300.00	301.00	301.00	1.81	1.81	-135.77	-30.20	-29.40	42.15	38.53	3.62	11.640	
400.00	400.00	401.00	401.00	2.18	2.19	-135.77	-30.20	-29.40	42.15	37.78	4.37	9.645	
500.00	500.00	501.00	501.00	2.51	2.51	-135.77	-30.20	-29.40	42.15	37.13	5.01	8.407	
600.00	600.00	601.00	601.00	2.79	2.80	-135.77	-30.20	-29.40	42.15	36.56	5.59	7.542	
700.00	700.00	701.00	701.00	3.06	3.06	-135.77	-30.20	-29.40	42.15	36.03	6.11	6.894	
800.00	800.00	801.00	801.00	3.30	3.30	-135.77	-30.20	-29.40	42.15	35.55	6.60	6.385	
900.00	900.00	901.00	901.00	3.53	3.53	-135.77	-30.20	-29.40	42.15	35.09	7.06	5.971	
1,000.00	1,000.00	1,001.00	1,001.00	3.74	3.75	-135.77	-30.20	-29.40	42.15	34.66	7.49	5.626	
1,100.00	1,100.00	1,101.00	1,101.00	3.95	3.95	-135.77	-30.20	-29.40	42.15	34.24	7.90	5.332	
1,200.00	1,200.00	1,201.00	1,201.00	4.15	4.15	-135.77	-30.20	-29.40	42.15	33.85	8.30	5.078	
1,300.00	1,300.00	1,301.00	1,301.00	4.34	4.34	-135.77	-30.20	-29.40	42.15	33.47	8.68	4.855	
1,400.00	1,400.00	1,401.00	1,401.00	4.52	4.53	-135.77	-30.20	-29.40	42.15	33.10	9.05	4.658	
1,416.33	1,416.33	1,417.33	1,417.33	4.55	4.55	-135.77	-30.20	-29.40	42.15	33.04	9.11	4.628 CC	
1,500.00	1,500.00	1,500.99	1,500.99	4.70	4.70	-135.77	-30.20	-29.40	42.15	32.74	9.40	4.482 ES	
1,600.00	1,599.99	1,600.38	1,600.38	4.82	4.82	55.02	-31.06	-29.57	42.38	32.75	9.64	4.399	
1,700.00	1,699.96	1,700.00	1,699.96	4.96	4.96	55.94	-33.63	-30.06	43.07	33.16	9.91	4.346	
1,800.00	1,799.86	1,799.13	1,799.00	5.13	5.13	57.40	-37.87	-30.88	44.23	34.03	10.19	4.339	
1,900.00	1,899.68	1,898.48	1,898.16	5.31	5.31	59.33	-43.80	-32.02	45.89	35.39	10.49	4.373	
2,000.00	1,999.37	1,997.81	1,997.18	5.52	5.52	61.62	-51.42	-33.49	48.09	37.28	10.80	4.451	
2,100.00	2,098.90	2,097.11	2,096.03	5.75	5.74	64.14	-60.72	-35.28	50.87	39.74	11.13	4.571	
2,200.00	2,198.26	2,196.37	2,194.65	6.00	5.99	66.77	-71.70	-37.40	54.27	42.80	11.46	4.734	
2,200.31	2,198.57	2,196.67	2,194.96	6.00	5.99	66.78	-71.74	-37.41	54.28	42.81	11.46	4.735	
2,300.00	2,297.51	2,296.24	2,293.78	6.27	6.26	69.26	-83.65	-39.71	58.08	46.26	11.82	4.915	
2,400.00	2,396.77	2,396.14	2,392.94	6.56	6.55	71.45	-95.60	-42.01	61.98	49.80	12.18	5.089	
2,500.00	2,496.02	2,496.05	2,492.11	6.86	6.84	73.37	-107.56	-44.31	65.97	53.43	12.54	5.261	
2,600.00	2,595.28	2,597.02	2,592.47	7.17	7.18	76.01	-118.30	-46.38	69.23	56.34	12.89	5.370	
2,700.00	2,694.53	2,697.88	2,693.00	7.50	7.65	80.20	-126.42	-47.95	71.22	57.98	13.24	5.380	
2,742.07	2,736.29	2,740.26	2,735.29	7.61	7.84	82.44	-129.05	-48.46	71.78	58.45	13.32	5.387	
2,800.00	2,793.83	2,798.55	2,793.50	7.78	8.11	85.66	-131.92	-49.01	72.43	58.99	13.44	5.390	
2,900.00	2,893.39	2,899.07	2,893.98	8.20	8.52	90.96	-134.83	-49.57	73.31	59.66	13.65	5.372	
3,000.00	2,993.16	2,999.25	2,994.16	8.67	8.60	95.87	-135.32	-49.67	73.87	60.10	13.77	5.365	
3,100.00	3,093.07	3,099.16	3,094.07	9.10	8.68	99.07	-135.32	-49.67	74.41	60.43	13.98	5.323	
3,200.00	3,193.05	3,199.15	3,194.05	9.25	8.76	100.24	-135.32	-49.67	74.67	60.48	14.18	5.264	
3,208.95	3,202.00	3,208.09	3,203.00	9.27	8.77	-90.25	-135.32	-49.67	74.67	60.47	14.20	5.258	
3,300.00	3,293.05	3,299.15	3,294.05	9.38	8.85	-90.25	-135.32	-49.67	74.67	60.29	14.38	5.192	
3,400.00	3,393.05	3,399.15	3,394.05	9.46	8.94	-90.25	-135.32	-49.67	74.67	60.09	14.58	5.121	
3,500.00	3,493.05	3,499.15	3,494.05	9.53	9.02	-90.25	-135.32	-49.67	74.67	59.88	14.78	5.050	
3,600.00	3,593.05	3,599.15	3,594.05	9.61	9.11	-90.25	-135.32	-49.67	74.67	59.68	14.99	4.982	
3,700.00	3,693.05	3,699.15	3,694.05	9.69	9.19	-90.25	-135.32	-49.67	74.67	59.48	15.19	4.916	
3,800.00	3,793.05	3,799.15	3,794.05	9.77	9.28	-90.25	-135.32	-49.67	74.67	59.28	15.39	4.853	
3,900.00	3,893.05	3,899.15	3,894.05	9.85	9.37	-90.25	-135.32	-49.67	74.67	59.08	15.59	4.791	
4,000.00	3,993.05	3,999.15	3,994.05	9.93	9.45	-90.25	-135.32	-49.67	74.67	58.88	15.78	4.730	
4,100.00	4,093.05	4,099.15	4,094.05	10.01	9.54	-90.25	-135.32	-49.67	74.67	58.69	15.98	4.672	
4,200.00	4,193.05	4,199.15	4,194.05	10.08	9.62	-90.25	-135.32	-49.67	74.67	58.49	16.18	4.615	
4,300.00	4,293.05	4,299.15	4,294.05	10.16	9.71	-90.25	-135.32	-49.67	74.67	58.29	16.38	4.560	
4,400.00	4,393.05	4,399.15	4,394.05	10.24	9.79	-90.25	-135.32	-49.67	74.67	58.10	16.57	4.506	
4,500.00	4,493.05	4,499.15	4,494.05	10.32	9.88	-90.25	-135.32	-49.67	74.67	57.90	16.77	4.454	
4,600.00	4,593.05	4,599.15	4,594.05	10.40	9.96	-90.25	-135.32	-49.67	74.67	57.71	16.96	4.403	
4,700.00	4,693.05	4,699.15	4,694.05	10.48	10.05	-90.25	-135.32	-49.67	74.67	57.52	17.15	4.353	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 603H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,800.00	4,793.05	4,799.15	4,794.05	10.56	10.14	-90.25	-135.32	-49.67	74.67	57.32	17.35	4.305	
4,900.00	4,893.05	4,899.15	4,894.05	10.64	10.22	-90.25	-135.32	-49.67	74.67	57.13	17.54	4.258	
5,000.00	4,993.05	4,999.15	4,994.05	10.72	10.31	-90.25	-135.32	-49.67	74.67	56.94	17.73	4.212	
5,100.00	5,093.05	5,099.15	5,094.05	10.79	10.39	-90.25	-135.32	-49.67	74.67	56.75	17.92	4.167	
5,200.00	5,193.05	5,199.15	5,194.05	10.87	10.48	-90.25	-135.32	-49.67	74.67	56.56	18.11	4.123	
5,300.00	5,293.05	5,299.15	5,294.05	10.95	10.56	-90.25	-135.32	-49.67	74.67	56.37	18.30	4.080	
5,400.00	5,393.05	5,399.15	5,394.05	11.03	10.64	-90.25	-135.32	-49.67	74.67	56.18	18.49	4.038	
5,500.00	5,493.05	5,499.15	5,494.05	11.11	10.73	-90.25	-135.32	-49.67	74.67	55.99	18.68	3.998	
5,600.00	5,593.05	5,599.15	5,594.05	11.19	10.81	-90.25	-135.32	-49.67	74.67	55.80	18.87	3.958	
5,700.00	5,693.05	5,699.15	5,694.05	11.27	10.90	-90.25	-135.32	-49.67	74.67	55.61	19.05	3.919	
5,800.00	5,793.05	5,799.15	5,794.05	11.35	10.98	-90.25	-135.32	-49.67	74.67	55.43	19.24	3.881	
5,900.00	5,893.05	5,899.15	5,894.05	11.43	11.07	-90.25	-135.32	-49.67	74.67	55.24	19.43	3.843	
6,000.00	5,993.05	5,999.15	5,994.05	11.51	11.15	-90.25	-135.32	-49.67	74.67	55.05	19.62	3.807	
6,100.00	6,093.05	6,099.15	6,094.05	11.59	11.24	-90.25	-135.32	-49.67	74.67	54.87	19.80	3.771	
6,200.00	6,193.05	6,199.15	6,194.05	11.67	11.32	-90.25	-135.32	-49.67	74.67	54.68	19.99	3.736	
6,300.00	6,293.05	6,299.15	6,294.05	11.75	11.41	-90.25	-135.32	-49.67	74.67	54.50	20.17	3.701	
6,400.00	6,393.05	6,399.15	6,394.05	11.82	11.49	-90.25	-135.32	-49.67	74.67	54.31	20.36	3.668	
6,500.00	6,493.05	6,499.15	6,494.05	11.90	11.57	-90.25	-135.32	-49.67	74.67	54.13	20.54	3.635	
6,600.00	6,593.05	6,599.15	6,594.05	11.98	11.66	-90.25	-135.32	-49.67	74.67	53.94	20.73	3.603	
6,700.00	6,693.05	6,699.15	6,694.05	12.06	11.74	-90.25	-135.32	-49.67	74.67	53.76	20.91	3.571	
6,800.00	6,793.05	6,799.15	6,794.05	12.14	11.83	-90.25	-135.32	-49.67	74.67	53.57	21.09	3.540	
6,900.00	6,893.05	6,899.15	6,894.05	12.22	11.91	-90.25	-135.32	-49.67	74.67	53.39	21.28	3.509	
7,000.00	6,993.05	6,999.15	6,994.05	12.30	12.00	-90.25	-135.32	-49.67	74.67	53.21	21.46	3.479	
7,100.00	7,093.05	7,099.15	7,094.05	12.38	12.08	-90.25	-135.32	-49.67	74.67	53.03	21.64	3.450	
7,200.00	7,193.05	7,199.15	7,194.05	12.46	12.16	-90.25	-135.32	-49.67	74.67	52.84	21.83	3.421	
7,300.00	7,293.05	7,299.15	7,294.05	12.54	12.25	-90.25	-135.32	-49.67	74.67	52.66	22.01	3.393	
7,400.00	7,393.05	7,399.15	7,394.05	12.62	12.33	-90.25	-135.32	-49.67	74.67	52.48	22.19	3.365	
7,500.00	7,493.05	7,499.15	7,494.05	12.70	12.42	-90.25	-135.32	-49.67	74.67	52.30	22.37	3.338	
7,600.00	7,593.05	7,599.15	7,594.05	12.78	12.50	-90.25	-135.32	-49.67	74.67	52.12	22.55	3.311	
7,700.00	7,693.05	7,699.15	7,694.05	12.86	12.58	-90.25	-135.32	-49.67	74.67	51.94	22.73	3.285	
7,800.00	7,793.05	7,799.15	7,794.05	12.94	12.67	-90.25	-135.32	-49.67	74.67	51.76	22.91	3.259	
7,900.00	7,893.05	7,899.15	7,894.05	13.02	12.75	-90.25	-135.32	-49.67	74.67	51.57	23.09	3.233	
8,000.00	7,993.05	7,999.15	7,994.05	13.10	12.84	-90.25	-135.32	-49.67	74.67	51.39	23.27	3.208	
8,100.00	8,093.05	8,099.15	8,094.05	13.18	12.92	-90.25	-135.32	-49.67	74.67	51.21	23.45	3.184	
8,200.00	8,193.05	8,199.15	8,194.05	13.26	13.00	-90.25	-135.32	-49.67	74.67	51.04	23.63	3.160	
8,300.00	8,293.05	8,299.15	8,294.05	13.34	13.09	-90.25	-135.32	-49.67	74.67	50.86	23.81	3.136	
8,400.00	8,393.05	8,399.15	8,394.05	13.42	13.17	-90.25	-135.32	-49.67	74.67	50.68	23.99	3.112	
8,500.00	8,493.05	8,499.15	8,494.05	13.50	13.25	-90.25	-135.32	-49.67	74.67	50.50	24.17	3.089	
8,600.00	8,593.05	8,599.15	8,594.05	13.58	13.34	-90.25	-135.32	-49.67	74.67	50.32	24.35	3.067	
8,700.00	8,693.05	8,699.15	8,694.05	13.66	13.42	-90.25	-135.32	-49.67	74.67	50.14	24.53	3.044	
8,800.00	8,793.05	8,799.15	8,794.05	13.74	13.51	-90.25	-135.32	-49.67	74.67	49.96	24.71	3.022	
8,900.00	8,893.05	8,899.15	8,894.05	13.82	13.59	-90.25	-135.32	-49.67	74.67	49.78	24.88	3.001	
9,000.00	8,993.05	8,999.15	8,994.05	13.90	13.67	-90.25	-135.32	-49.67	74.67	49.61	25.06	2.979	
9,093.95	9,087.00	9,093.09	9,088.00	13.97	13.75	-90.25	-135.32	-49.67	74.67	49.44	25.22	2.960	
9,100.00	9,093.05	9,099.15	9,094.05	13.97	13.76	-76.75	-135.32	-49.67	74.66	49.43	25.23	2.959	
9,125.00	9,118.03	9,124.13	9,119.03	13.96	13.78	-77.50	-135.32	-49.67	74.44	49.18	25.26	2.947	
9,150.00	9,142.93	9,149.02	9,143.93	13.96	13.80	-79.27	-135.32	-49.67	73.98	48.69	25.29	2.926	
9,175.00	9,167.67	9,173.76	9,168.67	13.95	13.82	-82.05	-135.32	-49.67	73.40	48.07	25.32	2.898	
9,200.00	9,192.18	9,198.28	9,193.18	13.95	13.84	-85.83	-135.32	-49.67	72.87	47.50	25.38	2.872	
9,222.34	9,213.86	9,219.95	9,214.86	13.94	13.86	-90.00	-135.32	-49.67	72.67	47.21	25.46	2.855	
9,225.00	9,216.42	9,222.51	9,217.42	13.94	13.86	-90.54	-135.32	-49.67	72.67	47.21	25.47	2.854 SF	
9,250.00	9,240.29	9,246.39	9,241.29	13.93	13.88	-96.04	-135.32	-49.67	73.12	47.51	25.61	2.855	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 603H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,275.00	9,263.75	9,269.84	9,264.75	13.92	13.90	-102.09	-135.32	-49.67	74.58	48.76	25.82	2.888	
9,300.00	9,286.72	9,292.81	9,287.72	13.91	13.92	-108.40	-135.32	-49.67	77.39	51.30	26.09	2.966	
9,325.00	9,309.14	9,315.24	9,310.14	13.90	13.94	-114.64	-135.32	-49.67	81.85	55.46	26.39	3.101	
9,350.00	9,330.96	9,337.05	9,331.96	13.89	13.95	-120.53	-135.32	-49.67	88.13	61.44	26.70	3.301	
9,375.00	9,352.11	9,358.20	9,353.11	13.89	13.97	-125.88	-135.32	-49.67	96.30	69.33	26.97	3.570	
9,400.00	9,372.53	9,378.62	9,373.53	13.88	13.99	-130.56	-135.32	-49.67	106.32	79.11	27.21	3.907	
9,425.00	9,392.17	9,398.26	9,393.17	13.87	14.01	-134.57	-135.32	-49.67	118.08	90.69	27.40	4.310	
9,450.00	9,410.97	9,417.06	9,411.97	13.87	14.02	-137.92	-135.32	-49.67	131.46	103.92	27.54	4.773	
9,475.00	9,428.89	9,434.98	9,429.89	13.86	14.04	-140.66	-135.32	-49.67	146.30	118.65	27.65	5.292	
9,500.00	9,445.86	9,451.96	9,446.86	13.86	14.05	-142.84	-135.32	-49.67	162.48	134.75	27.73	5.860	
9,525.00	9,461.86	9,467.95	9,462.86	13.86	14.06	-144.51	-135.32	-49.67	179.87	152.08	27.79	6.473	
9,542.69	9,472.56	9,478.65	9,473.56	13.85	14.07	-145.41	-135.32	-49.67	192.83	165.01	27.82	6.932	
9,550.00	9,476.83	9,482.92	9,477.83	13.85	14.08	-146.29	-135.32	-49.67	198.35	170.52	27.83	7.127	
9,575.00	9,490.79	9,496.88	9,491.79	13.84	14.09	-149.02	-135.32	-49.67	217.90	190.05	27.86	7.822	
9,600.00	9,503.71	9,509.81	9,504.71	13.84	14.10	-151.36	-135.32	-49.67	238.42	210.54	27.88	8.551	
9,625.00	9,515.57	9,521.66	9,516.57	13.84	14.11	-153.37	-135.32	-49.67	259.78	231.87	27.90	9.311	
9,650.00	9,526.33	9,532.42	9,527.33	13.83	14.12	-155.11	-135.32	-49.67	281.87	253.95	27.92	10.097	
9,675.00	9,535.95	9,542.05	9,536.95	13.83	14.13	-156.61	-135.32	-49.67	304.60	276.67	27.93	10.907	
9,700.00	9,544.42	9,550.52	9,545.42	13.84	14.13	-157.91	-135.32	-49.67	327.89	299.95	27.94	11.737	
9,725.00	9,551.71	9,557.81	9,552.71	13.84	14.14	-159.03	-135.32	-49.67	351.64	323.69	27.94	12.583	
9,750.00	9,557.80	9,563.90	9,558.80	13.85	14.14	-160.01	-135.32	-49.67	375.78	347.83	27.95	13.444	
9,775.00	9,562.68	9,568.77	9,563.68	13.87	14.15	-160.86	-135.32	-49.67	400.24	372.28	27.96	14.316	
9,800.00	9,566.32	9,572.42	9,567.32	13.96	14.15	-161.61	-135.32	-49.67	424.94	396.98	27.96	15.197	
9,825.00	9,568.73	9,574.82	9,569.73	14.15	14.15	-162.33	-135.32	-49.67	449.81	421.84	27.97	16.083	
9,850.00	9,569.89	9,575.98	9,570.89	14.37	14.15	-163.50	-135.32	-49.67	474.78	446.81	27.97	16.974	
9,860.67	9,570.00	9,576.09	9,571.00	14.46	14.15	90.00	-135.32	-49.67	485.45	457.48	27.97	17.354	
9,900.00	9,570.00	9,576.09	9,571.00	14.84	14.15	90.00	-135.32	-49.67	524.78	496.80	27.98	18.756	
10,000.00	9,570.00	9,576.09	9,571.00	15.93	14.15	90.00	-135.32	-49.67	624.78	596.78	27.99	22.318	
10,100.00	9,570.00	9,576.09	9,571.00	17.17	14.15	90.00	-135.32	-49.67	724.78	696.76	28.01	25.874	
10,200.00	9,570.00	9,576.09	9,571.00	18.53	14.15	90.00	-135.32	-49.67	824.78	796.74	28.03	29.423	
10,300.00	9,570.00	9,576.09	9,571.00	19.98	14.15	90.00	-135.32	-49.67	924.78	896.72	28.05	32.963	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 604H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,100.00	6,093.05	6,245.21	6,213.29	11.59	21.42	88.46	-108.51	1,009.77	991.84	960.94	30.90	32.095	
6,200.00	6,193.05	6,344.46	6,311.80	11.67	21.83	88.68	-112.52	998.35	980.23	948.85	31.38	31.235	
6,300.00	6,293.05	6,443.72	6,410.31	11.75	22.23	88.90	-116.52	986.93	968.64	936.78	31.86	30.402	
6,400.00	6,393.05	6,541.12	6,506.99	11.82	22.63	89.12	-120.45	975.73	957.06	924.74	32.32	29.610	
6,500.00	6,493.05	6,621.51	6,586.90	11.90	22.95	89.29	-123.36	967.43	946.68	913.96	32.72	28.936	
6,600.00	6,593.05	6,700.00	6,665.07	11.98	23.28	89.43	-125.67	960.86	938.30	905.19	33.11	28.340	
6,700.00	6,693.05	6,783.25	6,748.13	12.06	23.63	89.54	-127.53	955.54	931.92	898.41	33.51	27.814	
6,800.00	6,793.05	6,864.44	6,829.24	12.14	23.94	89.62	-128.78	952.01	927.55	893.69	33.86	27.394	
6,900.00	6,893.05	6,945.76	6,910.53	12.22	24.15	89.66	-129.45	950.09	925.20	891.08	34.11	27.121	
7,000.00	6,993.05	7,033.29	6,998.05	12.30	24.24	89.66	-129.57	949.73	924.74	890.47	34.28	26.980	
7,100.00	7,093.05	7,133.29	7,098.05	12.38	24.28	89.66	-129.57	949.73	924.74	890.35	34.39	26.886	
7,200.00	7,193.05	7,233.29	7,198.05	12.46	24.31	89.66	-129.57	949.73	924.74	890.23	34.51	26.793	
7,300.00	7,293.05	7,333.29	7,298.05	12.54	24.34	89.66	-129.57	949.73	924.74	890.11	34.63	26.700	
7,400.00	7,393.05	7,433.29	7,398.05	12.62	24.37	89.66	-129.57	949.73	924.74	889.99	34.76	26.607	
7,500.00	7,493.05	7,533.29	7,498.05	12.70	24.40	89.66	-129.57	949.73	924.74	889.87	34.88	26.516	
7,600.00	7,593.05	7,633.29	7,598.05	12.78	24.43	89.66	-129.57	949.73	924.74	889.75	35.00	26.424	
7,700.00	7,693.05	7,733.29	7,698.05	12.86	24.46	89.66	-129.57	949.73	924.74	889.63	35.12	26.334	
7,800.00	7,793.05	7,833.29	7,798.05	12.94	24.49	89.66	-129.57	949.73	924.74	889.51	35.24	26.243	
7,900.00	7,893.05	7,933.29	7,898.05	13.02	24.52	89.66	-129.57	949.73	924.74	889.39	35.36	26.154	
8,000.00	7,993.05	8,033.29	7,998.05	13.10	24.55	89.66	-129.57	949.73	924.74	889.27	35.48	26.065	
8,100.00	8,093.05	8,133.29	8,098.05	13.18	24.58	89.66	-129.57	949.73	924.74	889.14	35.60	25.976	
8,200.00	8,193.05	8,233.29	8,198.05	13.26	24.62	89.66	-129.57	949.73	924.74	889.02	35.72	25.888	
8,300.00	8,293.05	8,333.29	8,298.05	13.34	24.65	89.66	-129.57	949.73	924.74	888.90	35.84	25.800	
8,400.00	8,393.05	8,433.29	8,398.05	13.42	24.68	89.66	-129.57	949.73	924.74	888.78	35.96	25.713	
8,500.00	8,493.05	8,533.29	8,498.05	13.50	24.71	89.66	-129.57	949.73	924.74	888.66	36.09	25.626	
8,600.00	8,593.05	8,633.29	8,598.05	13.58	24.75	89.66	-129.57	949.73	924.74	888.54	36.21	25.540	
8,700.00	8,693.05	8,733.29	8,698.05	13.66	24.78	89.66	-129.57	949.73	924.74	888.41	36.33	25.455	
8,800.00	8,793.05	8,833.29	8,798.05	13.74	24.81	89.66	-129.57	949.73	924.74	888.29	36.45	25.369	
8,900.00	8,893.05	8,933.29	8,898.05	13.82	24.85	89.66	-129.57	949.73	924.74	888.17	36.57	25.285	
9,000.00	8,993.05	9,033.29	8,998.05	13.90	24.88	89.66	-129.57	949.73	924.74	888.05	36.70	25.200	
9,093.95	9,087.00	9,127.23	9,092.00	13.97	24.91	89.66	-129.57	949.73	924.74	887.94	36.81	25.124 CC, ES	
9,100.00	9,093.05	9,133.29	9,098.05	13.97	24.92	103.19	-129.57	949.73	924.75	887.94	36.81	25.122	
9,125.00	9,118.03	9,158.27	9,123.03	13.96	24.93	103.22	-129.57	949.73	924.97	888.15	36.82	25.121	
9,150.00	9,142.93	9,183.16	9,147.93	13.96	24.93	103.30	-129.57	949.73	925.50	888.68	36.82	25.134	
9,175.00	9,167.67	9,207.90	9,172.67	13.95	24.94	103.42	-129.57	949.73	926.33	889.52	36.82	25.162	
9,200.00	9,192.18	9,232.42	9,197.18	13.95	24.95	103.57	-129.57	949.73	927.49	890.69	36.80	25.204	
9,225.00	9,216.42	9,256.65	9,221.42	13.94	24.96	103.75	-129.57	949.73	928.99	892.21	36.77	25.262	
9,250.00	9,240.29	9,280.53	9,245.29	13.93	24.97	103.96	-129.57	949.73	930.84	894.10	36.74	25.336	
9,275.00	9,263.75	9,303.98	9,268.75	13.92	24.98	104.18	-129.57	949.73	933.07	896.37	36.70	25.425	
9,300.00	9,286.72	9,326.95	9,291.72	13.91	24.98	104.42	-129.57	949.73	935.70	899.05	36.65	25.530	
9,325.00	9,309.14	9,349.38	9,314.14	13.90	24.99	104.65	-129.57	949.73	938.77	902.17	36.60	25.650	
9,350.00	9,330.96	9,371.20	9,335.96	13.89	25.00	104.87	-129.57	949.73	942.30	905.76	36.54	25.788	
9,375.00	9,352.11	9,392.34	9,357.11	13.89	25.01	105.07	-129.57	949.73	946.32	909.84	36.48	25.941	
9,400.00	9,372.53	9,412.76	9,377.53	13.88	25.01	105.23	-129.57	949.73	950.86	914.44	36.42	26.111	
9,425.00	9,392.17	9,432.40	9,397.17	13.87	25.02	105.35	-129.57	949.73	955.94	919.59	36.35	26.298	
9,450.00	9,410.97	9,451.21	9,415.97	13.87	25.03	105.41	-129.57	949.73	961.60	925.32	36.29	26.501	
9,475.00	9,428.89	9,469.12	9,433.89	13.86	25.03	105.40	-129.57	949.73	967.86	931.64	36.22	26.720	
9,500.00	9,445.86	9,486.10	9,450.86	13.86	25.04	105.31	-129.57	949.73	974.74	938.58	36.16	26.956	
9,525.00	9,461.86	9,502.09	9,466.86	13.86	25.05	105.12	-129.57	949.73	982.26	946.16	36.10	27.208	
9,542.69	9,472.56	9,512.79	9,477.56	13.85	25.05	104.93	-129.57	949.73	987.98	951.92	36.06	27.396	
9,550.00	9,476.83	9,517.06	9,481.83	13.85	25.05	104.59	-129.57	949.73	990.42	954.37	36.05	27.476	
9,575.00	9,490.79	9,531.02	9,495.79	13.84	25.06	103.48	-129.57	949.73	998.89	962.90	36.00	27.751	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 604H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,200.00	9,570.00	18,885.89	11,230.00	148.15	148.81	148.85	7,695.84	898.44	1,933.76	1,738.07	195.70	9.881	
17,300.00	9,570.00	18,985.89	11,230.00	150.05	150.69	148.85	7,795.84	897.78	1,933.77	1,735.73	198.04	9.765	
17,400.00	9,570.00	19,085.89	11,230.00	151.96	152.58	148.85	7,895.84	897.12	1,933.77	1,733.39	200.38	9.651	
17,500.00	9,570.00	19,185.89	11,230.00	153.87	154.46	148.85	7,995.83	896.47	1,933.78	1,731.05	202.72	9.539	
17,600.00	9,570.00	19,285.89	11,230.00	155.78	156.35	148.85	8,095.83	895.81	1,933.78	1,728.71	205.07	9.430	
17,700.00	9,570.00	19,385.89	11,230.00	157.69	158.24	148.85	8,195.83	895.16	1,933.78	1,726.37	207.41	9.323	
17,800.00	9,570.00	19,485.89	11,230.00	159.59	160.13	148.85	8,295.83	894.50	1,933.79	1,724.03	209.76	9.219	
17,900.00	9,570.00	19,585.89	11,230.00	161.50	162.01	148.85	8,395.82	893.85	1,933.79	1,721.68	212.11	9.117	
18,000.00	9,570.00	19,685.89	11,230.00	163.41	163.90	148.85	8,495.82	893.19	1,933.80	1,719.34	214.46	9.017	
18,100.00	9,570.00	19,785.89	11,230.00	165.32	165.79	148.85	8,595.82	892.54	1,933.80	1,716.99	216.81	8.919	
18,200.00	9,570.00	19,885.89	11,230.00	167.23	167.68	148.85	8,695.82	891.88	1,933.80	1,714.64	219.16	8.824	
18,300.00	9,570.00	19,985.89	11,230.00	169.14	169.57	148.85	8,795.82	891.23	1,933.81	1,712.30	221.51	8.730	
18,400.00	9,570.00	20,085.89	11,230.00	171.05	171.46	148.85	8,895.81	890.57	1,933.81	1,709.95	223.87	8.638	
18,500.00	9,570.00	20,185.89	11,230.00	172.95	173.36	148.85	8,995.81	889.91	1,933.82	1,707.60	226.22	8.548	
18,600.00	9,570.00	20,285.89	11,230.00	174.86	175.25	148.85	9,095.81	889.26	1,933.82	1,705.25	228.57	8.460	
18,700.00	9,570.00	20,385.89	11,230.00	176.77	177.14	148.85	9,195.81	888.60	1,933.82	1,702.90	230.93	8.374	
18,800.00	9,570.00	20,485.89	11,230.00	178.68	179.03	148.85	9,295.81	887.95	1,933.83	1,700.54	233.28	8.290	
18,900.00	9,570.00	20,585.89	11,230.00	180.59	180.93	148.85	9,395.80	887.29	1,933.83	1,698.19	235.64	8.207	
19,000.00	9,570.00	20,685.89	11,230.00	182.50	182.82	148.85	9,495.80	886.64	1,933.84	1,695.84	238.00	8.125	
19,100.00	9,570.00	20,785.89	11,230.00	184.41	184.72	148.85	9,595.80	885.98	1,933.84	1,693.48	240.36	8.046	
19,200.00	9,570.00	20,885.89	11,230.00	186.32	186.61	148.85	9,695.80	885.33	1,933.84	1,691.13	242.72	7.968	
19,300.00	9,570.00	20,985.89	11,230.00	188.23	188.51	148.85	9,795.79	884.67	1,933.85	1,688.77	245.08	7.891	
19,400.00	9,570.00	21,085.89	11,230.00	190.14	190.40	148.85	9,895.79	884.02	1,933.85	1,686.42	247.44	7.816	
19,500.00	9,570.00	21,185.89	11,230.00	192.05	192.30	148.85	9,995.79	883.36	1,933.86	1,684.06	249.80	7.742	
19,600.00	9,570.00	21,285.89	11,230.00	193.96	194.19	148.85	10,095.79	882.70	1,933.86	1,681.70	252.16	7.669	
19,700.00	9,570.00	21,385.89	11,230.00	195.87	196.09	148.85	10,195.79	882.05	1,933.86	1,679.34	254.52	7.598	
19,706.48	9,570.00	21,392.37	11,230.00	196.00	196.21	148.85	10,202.27	882.01	1,933.86	1,679.19	254.67	7.594	
19,785.67	9,570.00	21,470.20	11,230.00	197.51	197.70	148.85	10,280.09	881.50	1,933.87	1,677.35	256.52	7.539 SF	



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 704H - Wellbore #1 - Plan 4													Offset Site Error: 0.00 usft
Survey Program: 79-GYRO-NS, 3205-MWD+IGRF													Offset Well Error: 0.50 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,600.00	9,570.00	20,509.27	11,481.59	174.86	176.76	-140.16	9,075.41	-1,710.87	2,497.36	2,246.52	250.84	9.956 CC	
18,700.00	9,570.00	20,609.27	11,481.76	176.77	178.66	-140.16	9,175.41	-1,711.53	2,497.49	2,243.96	253.53	9.851	
18,800.00	9,570.00	20,709.27	11,481.92	178.68	180.56	-140.17	9,275.41	-1,712.19	2,497.62	2,241.39	256.22	9.748	
18,900.00	9,570.00	20,809.27	11,482.09	180.59	182.46	-140.17	9,375.40	-1,712.86	2,497.74	2,238.83	258.91	9.647	
19,000.00	9,570.00	20,909.27	11,482.26	182.50	184.36	-140.17	9,475.40	-1,713.52	2,497.87	2,236.26	261.61	9.548	
19,100.00	9,570.00	21,009.27	11,482.43	184.41	186.26	-140.17	9,575.40	-1,714.18	2,498.00	2,233.70	264.30	9.451	
19,200.00	9,570.00	21,109.27	11,482.60	186.32	188.16	-140.18	9,675.40	-1,714.84	2,498.13	2,231.13	267.00	9.356	
19,300.00	9,570.00	21,209.27	11,482.77	188.23	190.06	-140.18	9,775.39	-1,715.50	2,498.26	2,228.57	269.69	9.263	
19,400.00	9,570.00	21,309.74	11,482.94	190.14	191.97	-140.18	9,875.86	-1,716.17	2,498.39	2,225.99	272.40	9.172	
19,500.00	9,570.00	21,409.27	11,483.07	192.05	193.87	-140.18	9,975.39	-1,716.86	2,498.51	2,223.42	275.09	9.083	
19,600.00	9,570.00	21,509.27	11,483.24	193.96	195.77	-140.18	10,075.39	-1,717.52	2,498.64	2,220.85	277.79	8.995	
19,700.00	9,570.00	21,609.27	11,483.41	195.87	197.67	-140.19	10,175.38	-1,718.18	2,498.77	2,218.28	280.48	8.909	
19,785.67	9,570.00	21,694.94	11,483.55	197.51	199.30	-140.19	10,261.06	-1,718.75	2,498.88	2,216.09	282.79	8.836 ES, SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 706H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.50	0.50	-90.38	-0.20	-30.00	30.02				
100.00	100.00	99.00	99.00	0.64	0.64	-90.38	-0.20	-30.00	30.00	28.72	1.29	23.342	
200.00	200.00	199.00	199.00	1.34	1.33	-90.38	-0.20	-30.00	30.00	27.33	2.67	11.249	
300.00	300.00	299.00	299.00	1.81	1.80	-90.38	-0.20	-30.00	30.00	26.39	3.61	8.305	
400.00	400.00	399.00	399.00	2.18	2.18	-90.38	-0.20	-30.00	30.00	25.64	4.36	6.876	
500.00	500.00	499.00	499.00	2.51	2.50	-90.38	-0.20	-30.00	30.00	24.99	5.01	5.991	
600.00	600.00	599.00	599.00	2.79	2.79	-90.38	-0.20	-30.00	30.00	24.42	5.58	5.374	
700.00	700.00	699.00	699.00	3.06	3.05	-90.38	-0.20	-30.00	30.00	23.89	6.11	4.912	
800.00	800.00	799.00	799.00	3.30	3.30	-90.38	-0.20	-30.00	30.00	23.40	6.60	4.548	
900.00	900.00	899.00	899.00	3.53	3.53	-90.38	-0.20	-30.00	30.00	22.95	7.05	4.253	
1,000.00	1,000.00	999.00	999.00	3.74	3.74	-90.38	-0.20	-30.00	30.00	22.51	7.49	4.007	
1,100.00	1,100.00	1,099.00	1,099.00	3.95	3.95	-90.38	-0.20	-30.00	30.00	22.10	7.90	3.797	
1,200.00	1,200.00	1,199.00	1,199.00	4.15	4.15	-90.38	-0.20	-30.00	30.00	21.70	8.30	3.616	
1,300.00	1,300.00	1,299.00	1,299.00	4.34	4.34	-90.38	-0.20	-30.00	30.00	21.32	8.68	3.457	
1,400.00	1,400.00	1,399.00	1,399.00	4.52	4.52	-90.38	-0.20	-30.00	30.00	20.96	9.04	3.317	
1,500.00	1,500.00	1,499.00	1,499.00	4.70	4.70	-90.38	-0.20	-30.00	30.00	20.60	9.40	3.191 CC, ES, SF	
1,600.00	1,599.99	1,598.47	1,598.46	4.82	4.84	101.64	-0.23	-30.85	31.02	21.36	9.66	3.211	
1,700.00	1,699.96	1,697.83	1,697.79	4.96	5.01	105.65	-0.31	-33.41	34.21	24.26	9.95	3.438	
1,800.00	1,799.86	1,796.98	1,796.85	5.13	5.19	110.85	-0.45	-37.69	39.84	29.58	10.26	3.884	
1,900.00	1,899.68	1,895.82	1,895.51	5.31	5.38	116.01	-0.64	-43.66	48.12	37.54	10.58	4.546	
2,000.00	1,999.37	1,994.26	1,993.65	5.52	5.60	120.44	-0.89	-51.29	59.15	48.21	10.94	5.407	
2,100.00	2,098.90	2,092.19	2,091.13	5.75	5.83	124.00	-1.19	-60.56	72.93	61.60	11.32	6.441	
2,200.00	2,198.26	2,189.51	2,187.85	6.00	6.09	126.74	-1.55	-71.42	89.42	77.68	11.74	7.619	
2,200.31	2,198.57	2,189.81	2,188.15	6.00	6.09	126.75	-1.55	-71.45	89.48	77.74	11.74	7.623	
2,300.00	2,297.51	2,286.26	2,283.80	6.27	6.36	128.64	-1.95	-83.84	108.04	95.87	12.18	8.872	
2,400.00	2,396.77	2,382.50	2,379.02	6.56	6.65	129.59	-2.41	-97.79	128.15	115.51	12.64	10.137	
2,500.00	2,496.02	2,478.19	2,473.44	6.86	6.96	129.94	-2.91	-113.25	149.68	136.55	13.13	11.400	
2,600.00	2,595.28	2,575.13	2,568.92	7.17	7.29	130.00	-3.46	-130.04	172.17	158.52	13.66	12.608	
2,700.00	2,694.53	2,672.56	2,664.87	7.50	7.62	130.04	-4.01	-146.95	194.70	180.50	14.21	13.703	
2,742.07	2,736.29	2,713.55	2,705.23	7.61	7.77	130.06	-4.24	-154.06	204.18	189.76	14.42	14.160	
2,800.00	2,793.83	2,770.05	2,760.88	7.78	7.97	130.14	-4.56	-163.87	216.96	202.24	14.72	14.736	
2,900.00	2,893.39	2,867.85	2,857.19	8.20	8.33	129.88	-5.11	-180.84	237.72	222.40	15.33	15.510	
3,000.00	2,993.16	2,965.92	2,953.77	8.67	8.70	129.23	-5.67	-197.87	256.88	240.92	15.95	16.103	
3,100.00	3,093.07	3,064.21	3,050.56	9.10	9.08	128.25	-6.22	-214.92	274.49	257.94	16.55	16.583	
3,200.00	3,193.05	3,162.63	3,147.49	9.25	9.46	126.99	-6.78	-232.01	290.65	273.63	17.01	17.083	
3,208.95	3,202.00	3,171.44	3,156.17	9.27	9.49	-63.63	-6.83	-233.54	292.03	274.97	17.06	17.123	
3,300.00	3,293.05	3,261.11	3,244.48	9.38	9.85	-65.03	-7.33	-249.10	306.09	288.63	17.46	17.531	
3,400.00	3,393.05	3,359.59	3,341.46	9.46	10.24	-66.42	-7.89	-266.19	321.73	303.82	17.91	17.964	
3,500.00	3,493.05	3,458.07	3,438.45	9.53	10.64	-67.68	-8.45	-283.29	337.53	319.16	18.37	18.371	
3,600.00	3,593.05	3,556.55	3,535.43	9.61	11.04	-68.83	-9.00	-300.38	353.49	334.64	18.85	18.757	
3,700.00	3,693.05	3,655.03	3,632.42	9.69	11.45	-69.88	-9.56	-317.47	369.57	350.24	19.33	19.123	
3,800.00	3,793.05	3,753.52	3,729.40	9.77	11.86	-70.85	-10.12	-334.56	385.76	365.94	19.81	19.470	
3,900.00	3,893.05	3,852.00	3,826.39	9.85	12.27	-71.73	-10.67	-351.66	402.04	381.74	20.31	19.799	
4,000.00	3,993.05	3,950.48	3,923.37	9.93	12.68	-72.55	-11.23	-368.75	418.42	397.62	20.80	20.112	
4,100.00	4,093.05	4,048.96	4,020.35	10.01	13.10	-73.31	-11.79	-385.84	434.87	413.57	21.31	20.410	
4,200.00	4,193.05	4,147.44	4,117.34	10.08	13.52	-74.01	-12.34	-402.93	451.39	429.58	21.81	20.693	
4,300.00	4,293.05	4,245.92	4,214.32	10.16	13.94	-74.66	-12.90	-420.03	467.97	445.65	22.32	20.963	
4,400.00	4,393.05	4,344.40	4,311.31	10.24	14.36	-75.26	-13.46	-437.12	484.61	461.77	22.84	21.220	
4,500.00	4,493.05	4,442.88	4,408.29	10.32	14.78	-75.83	-14.01	-454.21	501.30	477.94	23.35	21.466	
4,600.00	4,593.05	4,541.36	4,505.28	10.40	15.21	-76.36	-14.57	-471.30	518.03	494.16	23.87	21.700	
4,700.00	4,693.05	4,639.84	4,602.26	10.48	15.64	-76.86	-15.12	-488.40	534.80	510.41	24.39	21.924	
4,800.00	4,793.05	4,738.32	4,699.24	10.56	16.07	-77.32	-15.68	-505.49	551.61	526.69	24.92	22.139	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 706H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.00	4,893.05	4,836.80	4,796.23	10.64	16.49	-77.76	-16.24	-522.58	568.45	543.01	25.44	22.345	
5,000.00	4,993.05	4,935.28	4,893.21	10.72	16.92	-78.18	-16.79	-539.68	585.32	559.35	25.97	22.542	
5,100.00	5,093.05	5,033.76	4,990.20	10.79	17.36	-78.57	-17.35	-556.77	602.22	575.73	26.49	22.731	
5,200.00	5,193.05	5,132.24	5,087.18	10.87	17.79	-78.94	-17.91	-573.86	619.15	592.12	27.02	22.912	
5,300.00	5,293.05	5,230.73	5,184.17	10.95	18.22	-79.29	-18.46	-590.95	636.10	608.54	27.55	23.086	
5,400.00	5,393.05	5,329.21	5,281.15	11.03	18.66	-79.62	-19.02	-608.05	653.07	624.98	28.08	23.254	
5,500.00	5,493.05	5,427.69	5,378.14	11.11	19.09	-79.93	-19.58	-625.14	670.06	641.44	28.62	23.415	
5,600.00	5,593.05	5,526.17	5,475.12	11.19	19.53	-80.23	-20.13	-642.23	687.07	657.92	29.15	23.571	
5,700.00	5,693.05	5,624.65	5,572.10	11.27	19.96	-80.52	-20.69	-659.32	704.10	674.41	29.68	23.720	
5,800.00	5,793.05	5,723.13	5,669.09	11.35	20.40	-80.79	-21.25	-676.42	721.14	690.92	30.22	23.865	
5,900.00	5,893.05	5,821.61	5,766.07	11.43	20.84	-81.05	-21.80	-693.51	738.20	707.45	30.75	24.004	
6,000.00	5,993.05	5,920.09	5,863.06	11.51	21.27	-81.29	-22.36	-710.60	755.27	723.98	31.29	24.138	
6,100.00	6,093.05	6,018.57	5,960.04	11.59	21.71	-81.53	-22.92	-727.69	772.36	740.53	31.83	24.268	
6,200.00	6,193.05	6,117.05	6,057.03	11.67	22.15	-81.76	-23.47	-744.79	789.46	757.09	32.36	24.393	
6,300.00	6,293.05	6,215.53	6,154.01	11.75	22.59	-81.97	-24.03	-761.88	806.57	773.67	32.90	24.514	
6,400.00	6,393.05	6,314.01	6,250.99	11.82	23.03	-82.18	-24.59	-778.97	823.69	790.25	33.44	24.632	
6,500.00	6,493.05	6,412.49	6,347.98	11.90	23.47	-82.38	-25.14	-796.07	840.82	806.84	33.98	24.745	
6,600.00	6,593.05	6,510.97	6,444.96	11.98	23.91	-82.57	-25.70	-813.16	857.96	823.44	34.52	24.855	
6,700.00	6,693.05	6,609.45	6,541.95	12.06	24.35	-82.75	-26.25	-830.25	875.11	840.05	35.06	24.961	
6,800.00	6,793.05	6,707.93	6,638.93	12.14	24.79	-82.93	-26.81	-847.34	892.26	856.66	35.60	25.065	
6,900.00	6,893.05	6,806.42	6,735.92	12.22	25.23	-83.10	-27.37	-864.44	909.43	873.29	36.14	25.165	
7,000.00	6,993.05	6,904.90	6,832.90	12.30	25.68	-83.26	-27.92	-881.53	926.60	889.92	36.68	25.262	
7,100.00	7,093.05	7,003.38	6,929.89	12.38	26.12	-83.42	-28.48	-898.62	943.78	906.56	37.22	25.356	
7,200.00	7,193.05	7,101.86	7,026.87	12.46	26.56	-83.57	-29.04	-915.71	960.97	923.20	37.76	25.447	
7,300.00	7,293.05	7,200.34	7,123.85	12.54	27.00	-83.72	-29.59	-932.81	978.16	939.85	38.31	25.536	
7,400.00	7,393.05	7,298.82	7,220.84	12.62	27.45	-83.86	-30.15	-949.90	995.36	956.51	38.85	25.622	
14,400.00	9,570.00	15,298.31	10,470.00	94.85	103.26	-124.32	4,880.59	-1,403.06	1,598.11	1,436.01	162.10	9.859	
14,500.00	9,570.00	15,398.31	10,470.00	96.75	105.01	-124.32	4,980.59	-1,403.73	1,598.11	1,432.87	165.24	9.672	
14,514.52	9,570.00	15,412.82	10,470.00	97.02	105.27	-124.32	4,995.10	-1,403.82	1,598.11	1,432.42	165.69	9.645	
14,600.00	9,570.00	15,498.31	10,470.00	98.65	106.77	-124.32	5,080.59	-1,404.39	1,598.11	1,429.73	168.38	9.491	
14,700.00	9,570.00	15,598.31	10,470.00	100.55	108.53	-124.32	5,180.58	-1,405.05	1,598.11	1,426.59	171.52	9.317	
14,800.00	9,570.00	15,698.31	10,470.00	102.44	110.29	-124.32	5,280.58	-1,405.72	1,598.11	1,423.44	174.68	9.149	
14,900.00	9,570.00	15,798.31	10,470.00	104.34	112.06	-124.32	5,380.58	-1,406.38	1,598.11	1,420.28	177.83	8.987	
15,000.00	9,570.00	15,898.31	10,470.00	106.25	113.83	-124.32	5,480.58	-1,407.04	1,598.11	1,417.12	180.99	8.830	
15,100.00	9,570.00	15,998.31	10,470.00	108.15	115.61	-124.32	5,580.58	-1,407.71	1,598.11	1,413.96	184.15	8.678	
15,200.00	9,570.00	16,098.31	10,470.00	110.05	117.39	-124.32	5,680.57	-1,408.37	1,598.11	1,410.79	187.32	8.531	
15,300.00	9,570.00	16,198.31	10,470.00	111.95	119.18	-124.32	5,780.57	-1,409.03	1,598.11	1,407.62	190.50	8.389	
15,400.00	9,570.00	16,298.31	10,470.00	113.85	120.97	-124.32	5,880.57	-1,409.70	1,598.11	1,404.44	193.67	8.252	
15,500.00	9,570.00	16,398.31	10,470.00	115.75	122.76	-124.32	5,980.57	-1,410.36	1,598.11	1,401.26	196.85	8.118	
15,600.00	9,570.00	16,498.31	10,470.00	117.66	124.56	-124.32	6,080.57	-1,411.02	1,598.11	1,398.08	200.03	7.989	
15,700.00	9,570.00	16,598.31	10,470.00	119.56	126.36	-124.32	6,180.56	-1,411.68	1,598.11	1,394.89	203.22	7.864	
15,800.00	9,570.00	16,698.31	10,470.00	121.47	128.16	-124.32	6,280.56	-1,412.35	1,598.11	1,391.70	206.41	7.742	
15,900.00	9,570.00	16,798.31	10,470.00	123.37	129.97	-124.32	6,380.56	-1,413.01	1,598.11	1,388.51	209.60	7.624	
16,000.00	9,570.00	16,898.31	10,470.00	125.27	131.78	-124.32	6,480.56	-1,413.67	1,598.11	1,385.31	212.80	7.510	
16,100.00	9,570.00	16,998.31	10,470.00	127.18	133.59	-124.32	6,580.55	-1,414.34	1,598.11	1,382.12	216.00	7.399	
16,200.00	9,570.00	17,098.31	10,470.00	129.08	135.40	-124.32	6,680.55	-1,415.00	1,598.11	1,378.92	219.20	7.291	
16,300.00	9,570.00	17,198.31	10,470.00	130.99	137.22	-124.32	6,780.55	-1,415.66	1,598.11	1,375.71	222.40	7.186	
16,400.00	9,570.00	17,298.31	10,470.00	132.89	139.04	-124.32	6,880.55	-1,416.33	1,598.11	1,372.51	225.60	7.084	
16,500.00	9,570.00	17,398.31	10,470.00	134.80	140.86	-124.32	6,980.55	-1,416.99	1,598.11	1,369.30	228.81	6.984	
16,600.00	9,570.00	17,498.31	10,470.00	136.71	142.68	-124.32	7,080.54	-1,417.65	1,598.11	1,366.09	232.02	6.888	
16,700.00	9,570.00	17,598.31	10,470.00	138.61	144.51	-124.32	7,180.54	-1,418.32	1,598.11	1,362.88	235.23	6.794	
16,800.00	9,570.00	17,698.31	10,470.00	140.52	146.34	-124.32	7,280.54	-1,418.98	1,598.11	1,359.67	238.45	6.702	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 706H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
16,900.00	9,570.00	17,798.31	10,470.00	142.43	148.17	-124.32	7,380.54	-1,419.64	1,598.11	1,356.45	241.66	6.613	
17,000.00	9,570.00	17,898.31	10,470.00	144.33	150.00	-124.32	7,480.53	-1,420.31	1,598.11	1,353.23	244.88	6.526	
17,100.00	9,570.00	17,998.31	10,470.00	146.24	151.83	-124.32	7,580.53	-1,420.97	1,598.11	1,350.01	248.10	6.441	
17,200.00	9,570.00	18,098.31	10,470.00	148.15	153.67	-124.32	7,680.53	-1,421.63	1,598.11	1,346.79	251.32	6.359	
17,300.00	9,570.00	18,198.31	10,470.00	150.05	155.51	-124.32	7,780.53	-1,422.30	1,598.11	1,343.57	254.54	6.278	
17,400.00	9,570.00	18,298.31	10,470.00	151.96	157.35	-124.32	7,880.53	-1,422.96	1,598.11	1,340.35	257.77	6.200	
17,500.00	9,570.00	18,398.31	10,470.00	153.87	159.19	-124.32	7,980.52	-1,423.62	1,598.11	1,337.12	260.99	6.123	
17,534.35	9,570.00	18,432.65	10,470.00	154.52	159.82	-124.32	8,014.87	-1,423.85	1,598.11	1,336.01	262.10	6.097	
17,600.00	9,570.00	18,498.31	10,470.00	155.78	161.03	-124.32	8,080.52	-1,424.29	1,598.11	1,333.89	264.22	6.048	
17,700.00	9,570.00	18,598.31	10,470.00	157.69	162.88	-124.32	8,180.52	-1,424.95	1,598.11	1,330.66	267.45	5.975	
17,800.00	9,570.00	18,698.31	10,470.00	159.59	164.72	-124.32	8,280.52	-1,425.61	1,598.11	1,327.43	270.68	5.904	
17,900.00	9,570.00	18,798.31	10,470.00	161.50	166.57	-124.32	8,380.51	-1,426.28	1,598.11	1,324.20	273.91	5.834	
18,000.00	9,570.00	18,898.31	10,470.00	163.41	168.42	-124.32	8,480.51	-1,426.94	1,598.11	1,320.97	277.14	5.766	
18,100.00	9,570.00	18,998.31	10,470.00	165.32	170.27	-124.32	8,580.51	-1,427.60	1,598.11	1,317.74	280.38	5.700	
18,200.00	9,570.00	19,098.31	10,470.00	167.23	172.12	-124.32	8,680.51	-1,428.27	1,598.11	1,314.50	283.61	5.635	
18,300.00	9,570.00	19,198.31	10,470.00	169.14	173.97	-124.32	8,780.51	-1,428.93	1,598.11	1,311.27	286.85	5.571	
18,400.00	9,570.00	19,298.31	10,470.00	171.05	175.83	-124.32	8,880.50	-1,429.59	1,598.11	1,308.03	290.08	5.509	
18,500.00	9,570.00	19,398.31	10,470.00	172.95	177.68	-124.32	8,980.50	-1,430.25	1,598.11	1,304.79	293.32	5.448	
18,600.00	9,570.00	19,498.31	10,470.00	174.86	179.54	-124.32	9,080.50	-1,430.92	1,598.11	1,301.55	296.56	5.389	
18,700.00	9,570.00	19,598.31	10,470.00	176.77	181.40	-124.32	9,180.50	-1,431.58	1,598.11	1,298.31	299.80	5.331	
18,800.00	9,570.00	19,698.31	10,470.00	178.68	183.26	-124.32	9,280.49	-1,432.24	1,598.11	1,295.07	303.04	5.274	
18,900.00	9,570.00	19,798.31	10,470.00	180.59	185.12	-124.32	9,380.49	-1,432.91	1,598.11	1,291.83	306.28	5.218	
19,000.00	9,570.00	19,898.31	10,470.00	182.50	186.98	-124.32	9,480.49	-1,433.57	1,598.11	1,288.59	309.53	5.163	
19,100.00	9,570.00	19,998.31	10,470.00	184.41	188.84	-124.32	9,580.49	-1,434.23	1,598.11	1,285.34	312.77	5.110	
19,200.00	9,570.00	20,098.31	10,470.00	186.32	190.70	-124.32	9,680.49	-1,434.90	1,598.11	1,282.10	316.01	5.057	
19,300.00	9,570.00	20,198.31	10,470.00	188.23	192.57	-124.32	9,780.48	-1,435.56	1,598.11	1,278.85	319.26	5.006	
19,400.00	9,570.00	20,298.31	10,470.00	190.14	194.43	-124.32	9,880.48	-1,436.22	1,598.11	1,275.61	322.51	4.955	
19,500.00	9,570.00	20,398.31	10,470.00	192.05	196.30	-124.32	9,980.48	-1,436.89	1,598.11	1,272.36	325.75	4.906	
19,600.00	9,570.00	20,498.31	10,470.00	193.96	198.17	-124.32	10,080.48	-1,437.55	1,598.11	1,269.11	329.00	4.857	
19,700.00	9,570.00	20,598.31	10,470.00	195.87	200.03	-124.32	10,180.47	-1,438.21	1,598.11	1,265.86	332.25	4.810	
19,785.67	9,570.00	20,683.98	10,470.00	197.51	201.54	-124.32	10,266.15	-1,438.78	1,598.11	1,263.21	334.90	4.772	



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 708H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,400.00	9,570.00	20,272.17	11,440.00	171.05	170.15	138.31	8,900.14	1,550.57	2,496.22	2,244.47	251.75	9.915	CC
18,500.00	9,570.00	20,372.17	11,440.00	172.95	172.06	138.31	9,000.14	1,549.91	2,496.23	2,241.70	254.53	9.807	
18,600.00	9,570.00	20,472.17	11,440.00	174.86	173.97	138.31	9,100.14	1,549.25	2,496.23	2,238.93	257.30	9.701	
18,700.00	9,570.00	20,572.17	11,440.00	176.77	175.88	138.31	9,200.13	1,548.60	2,496.24	2,236.16	260.08	9.598	
18,800.00	9,570.00	20,672.17	11,440.00	178.68	177.78	138.31	9,300.13	1,547.94	2,496.24	2,233.39	262.86	9.497	
18,900.00	9,570.00	20,772.17	11,440.00	180.59	179.69	138.31	9,400.13	1,547.29	2,496.25	2,230.62	265.63	9.397	
19,000.00	9,570.00	20,872.17	11,440.00	182.50	181.60	138.31	9,500.13	1,546.63	2,496.25	2,227.84	268.41	9.300	
19,100.00	9,570.00	20,972.17	11,440.00	184.41	183.51	138.31	9,600.13	1,545.98	2,496.26	2,225.07	271.19	9.205	
19,200.00	9,570.00	21,072.17	11,440.00	186.32	185.42	138.31	9,700.12	1,545.32	2,496.26	2,222.30	273.97	9.112	
19,300.00	9,570.00	21,172.17	11,440.00	188.23	187.33	138.31	9,800.12	1,544.67	2,496.27	2,219.52	276.74	9.020	
19,400.00	9,570.00	21,272.17	11,440.00	190.14	189.24	138.31	9,900.12	1,544.01	2,496.27	2,216.75	279.52	8.930	
19,500.00	9,570.00	21,372.17	11,440.00	192.05	191.15	138.31	10,000.12	1,543.35	2,496.28	2,213.98	282.30	8.843	
19,600.00	9,570.00	21,472.17	11,440.00	193.96	193.05	138.31	10,100.11	1,542.70	2,496.28	2,211.20	285.08	8.756	
19,700.00	9,570.00	21,572.17	11,440.00	195.87	194.96	138.31	10,200.11	1,542.04	2,496.29	2,208.43	287.86	8.672	
19,706.04	9,570.00	21,578.20	11,440.00	195.99	195.08	138.31	10,206.15	1,542.00	2,496.29	2,208.26	288.03	8.667	
19,785.67	9,570.00	21,655.68	11,440.00	197.51	196.56	138.31	10,283.62	1,541.50	2,496.30	2,206.09	290.21	8.602	ES, SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Tomahawk 28 Federal Com 001 - Wellbore #1 - Actual													Offset Site Error: 0.00 usft
Survey Program: 109-INC-ONLY							Rule Assigned:						Offset Well Error: 15.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,200.00	9,570.00	9,474.45	9,473.50	129.08	189.49	90.00	8,724.92	-108.46	2,035.65	1,827.42	208.23	9.776	
16,300.00	9,570.00	9,474.45	9,473.50	130.99	189.49	90.00	8,724.92	-108.46	1,935.65	1,727.30	208.36	9.290	
16,400.00	9,570.00	9,474.45	9,473.50	132.89	189.49	90.00	8,724.92	-108.46	1,835.65	1,627.17	208.48	8.805	
16,500.00	9,570.00	9,474.45	9,473.50	134.80	189.49	90.00	8,724.92	-108.46	1,735.65	1,527.05	208.61	8.320	
16,600.00	9,570.00	9,474.45	9,473.50	136.71	189.49	90.00	8,724.92	-108.46	1,635.65	1,426.92	208.73	7.836	
16,700.00	9,570.00	9,474.45	9,473.50	138.61	189.49	90.00	8,724.92	-108.46	1,535.65	1,326.79	208.86	7.352	
16,800.00	9,570.00	9,474.45	9,473.50	140.52	189.49	90.00	8,724.92	-108.46	1,435.65	1,226.66	208.99	6.869	
16,900.00	9,570.00	9,474.45	9,473.50	142.43	189.49	90.00	8,724.92	-108.46	1,335.65	1,126.53	209.12	6.387	
17,000.00	9,570.00	9,474.45	9,473.50	144.33	189.49	90.00	8,724.92	-108.46	1,235.65	1,026.40	209.25	5.905	
17,100.00	9,570.00	9,474.45	9,473.50	146.24	189.49	90.00	8,724.92	-108.46	1,135.65	926.27	209.39	5.424	
17,200.00	9,570.00	9,474.45	9,473.50	148.15	189.49	90.00	8,724.92	-108.46	1,035.65	826.14	209.52	4.943	
17,300.00	9,570.00	9,474.45	9,473.50	150.05	189.49	90.00	8,724.92	-108.46	935.65	726.00	209.65	4.463	
17,400.00	9,570.00	9,474.45	9,473.50	151.96	189.49	90.00	8,724.92	-108.46	835.65	625.87	209.79	3.983	
17,500.00	9,570.00	9,474.45	9,473.50	153.87	189.49	90.00	8,724.92	-108.46	735.65	525.73	209.92	3.504	
17,600.00	9,570.00	9,474.45	9,473.50	155.78	189.49	90.00	8,724.92	-108.46	635.65	425.60	210.06	3.026	
17,700.00	9,570.00	9,474.45	9,473.50	157.69	189.49	90.00	8,724.92	-108.46	535.65	325.46	210.19	2.548	
17,800.00	9,570.00	9,474.45	9,473.50	159.59	189.49	90.00	8,724.92	-108.46	435.65	225.32	210.33	2.071	
17,900.00	9,570.00	9,474.45	9,473.50	161.50	189.49	90.00	8,724.92	-108.46	335.65	125.18	210.47	1.595	Collision Risk Procedures Req.
18,000.00	9,570.00	9,474.45	9,473.50	163.41	189.49	90.00	8,724.92	-108.46	235.65	25.04	210.61	1.119	Collision Avoidance Req.
18,100.00	9,570.00	9,474.45	9,473.50	165.32	189.49	90.00	8,724.92	-108.46	135.65	-75.10	210.76	0.644	No-Go Zone - Stop Drilling
18,200.00	9,570.00	9,474.45	9,473.50	167.23	189.49	90.00	8,724.92	-108.46	35.65	-175.28	210.94	0.169	No-Go Zone - Stop Drilling
18,235.69	9,570.00	9,474.45	9,473.50	167.91	189.49	90.00	8,724.92	-108.46	0.16	-354.13	354.30	0.000	No-Go Zone - Stop Drilling, CC, ES, SF
18,300.00	9,570.00	9,474.45	9,473.50	169.14	189.49	90.00	8,724.92	-108.46	64.35	-146.66	211.01	0.305	No-Go Zone - Stop Drilling
18,400.00	9,570.00	9,474.45	9,473.50	171.05	189.49	90.00	8,724.92	-108.46	164.35	-46.81	211.16	0.778	No-Go Zone - Stop Drilling
18,500.00	9,570.00	9,474.45	9,473.50	172.95	189.49	90.00	8,724.92	-108.46	264.35	53.04	211.30	1.251	Collision Avoidance Req.
18,600.00	9,570.00	9,474.45	9,473.50	174.86	189.49	90.00	8,724.92	-108.46	364.35	152.90	211.45	1.723	Collision Risk Procedures Req.
18,700.00	9,570.00	9,474.45	9,473.50	176.77	189.49	90.00	8,724.92	-108.46	464.35	252.75	211.59	2.195	
18,800.00	9,570.00	9,474.45	9,473.50	178.68	189.49	90.00	8,724.92	-108.46	564.35	352.61	211.74	2.665	
18,900.00	9,570.00	9,474.45	9,473.50	180.59	189.49	90.00	8,724.92	-108.46	664.35	452.46	211.88	3.135	
19,000.00	9,570.00	9,474.45	9,473.50	182.50	189.49	90.00	8,724.92	-108.46	764.35	552.32	212.03	3.605	
19,100.00	9,570.00	9,474.45	9,473.50	184.41	189.49	90.00	8,724.92	-108.46	864.35	652.17	212.17	4.074	
19,200.00	9,570.00	9,474.45	9,473.50	186.32	189.49	90.00	8,724.92	-108.46	964.35	752.03	212.32	4.542	
19,300.00	9,570.00	9,474.45	9,473.50	188.23	189.49	90.00	8,724.92	-108.46	1,064.35	851.88	212.47	5.010	
19,400.00	9,570.00	9,474.45	9,473.50	190.14	189.49	90.00	8,724.92	-108.46	1,164.35	951.73	212.61	5.476	
19,500.00	9,570.00	9,474.45	9,473.50	192.05	189.49	90.00	8,724.92	-108.46	1,264.35	1,051.59	212.76	5.943	
19,600.00	9,570.00	9,474.45	9,473.50	193.96	189.49	90.00	8,724.92	-108.46	1,364.35	1,151.44	212.91	6.408	
19,700.00	9,570.00	9,474.45	9,473.50	195.87	189.49	90.00	8,724.92	-108.46	1,464.35	1,251.29	213.06	6.873	
19,785.67	9,570.00	9,474.45	9,473.50	197.51	189.49	90.00	8,724.92	-108.46	1,550.02	1,336.83	213.18	7.271	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB @ 3696.50usft (Patterson 813)

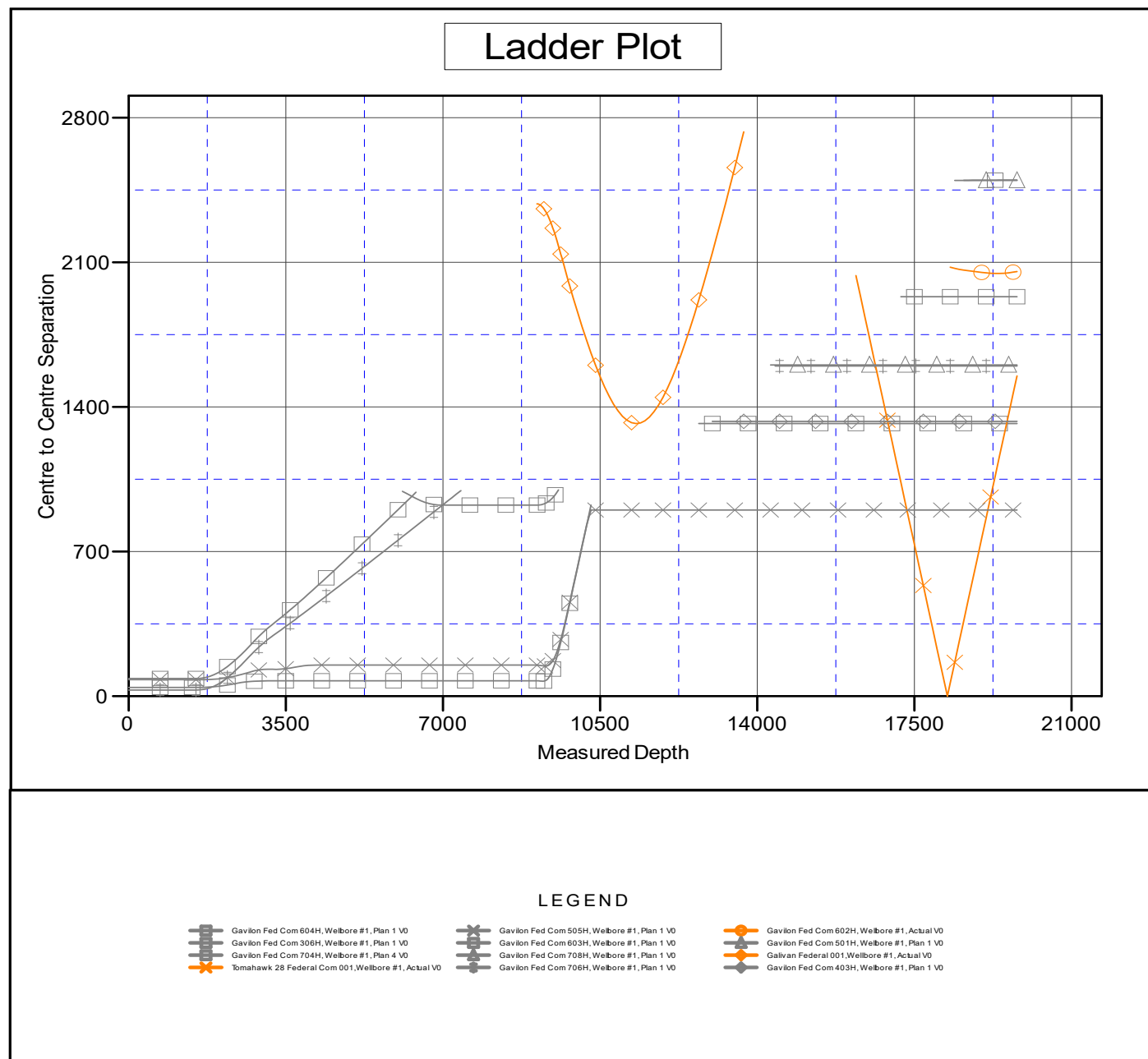
Offset Depths are relative to Offset Datum

Central Meridian is -104.33333334

Coordinates are relative to: Gavilon Fed Com 305H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 300

Grid Convergence at Surface is: 0.36°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB @ 3696.50usft (Patterson 813)

Offset Depths are relative to Offset Datum

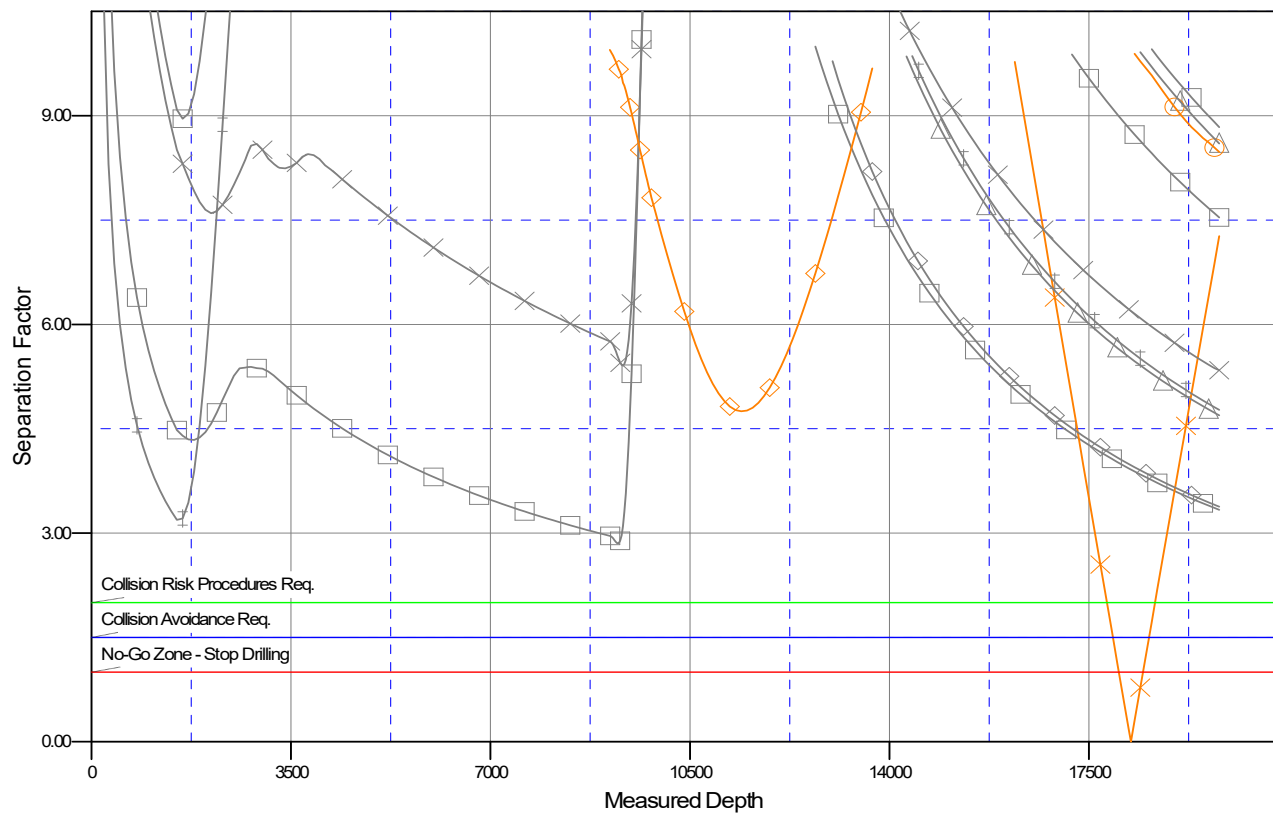
Central Meridian is -104.33333334

Coordinates are relative to: Gavilon Fed Com 305H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 300

Grid Convergence at Surface is: 0.36°

Separation Factor Plot



LEGEND

Gavilon Fed Com 604H, Wellbore #1, Plan 1 V0	Gavilon Fed Com 505H, Wellbore #1, Plan 1 V0	Gavilon Fed Com 602H, Wellbore #1, Actual V0
Gavilon Fed Com 306H, Wellbore #1, Plan 1 V0	Gavilon Fed Com 603H, Wellbore #1, Plan 1 V0	Gavilon Fed Com 501H, Wellbore #1, Plan 1 V0
Gavilon Fed Com 704H, Wellbore #1, Plan 4 V0	Gavilon Fed Com 708H, Wellbore #1, Plan 1 V0	Gavilon Fed Com 001, Wellbore #1, Actual V0
Tomahawk 28 Federal Com 001, Wellbore #1, Actual V0	Gavilon Fed Com 706H, Wellbore #1, Plan 1 V0	Gavilon Fed Com 403H, Wellbore #1, Plan 1 V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Matador Resources

Lea County, NM (NAD27)

Gavilon Fed Com Pads (Grid)

Gavilon Fed Com 305H

Wellbore #1

Plan: Plan 1

Standard Survey Report

28 March, 2022





Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Well:	Gavilon Fed Com 305H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

Project	Lea County, NM (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Gavilon Fed Com Pads (Grid)		
Site Position:		Northing:	554,459.00 usft
From:	Map	Easting:	703,322.30 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.52258733
		Longitude:	-103.67368119

Well	Gavilon Fed Com 305H					
Well Position	+N/-S	0.00 usft	Northing:	554,520.90 usft	Latitude:	32.52273677
	+E/-W	0.00 usft	Easting:	704,535.50 usft	Longitude:	-103.66974410
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,668.00 usft
Grid Convergence:		0.36 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/1/2022	6.51	60.13	47,567.04773631

Design	Plan 1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.62	

Survey Tool Program	Date	3/25/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	19,785.67	Plan 1 (Wellbore #1)	MWD+IGRF	OWSG MWD + IGRF or WMM	

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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Well:	Gavilon Fed Com 305H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

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)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge									
1,600.00	1.00	169.51	1,599.99	-0.86	0.16	-0.86	1.00	1.00	0.00
1,700.00	2.00	169.51	1,699.96	-3.43	0.64	-3.44	1.00	1.00	0.00
1,800.00	3.00	169.51	1,799.86	-7.72	1.43	-7.73	1.00	1.00	0.00
1,900.00	4.00	169.51	1,899.68	-13.72	2.54	-13.74	1.00	1.00	0.00
2,000.00	5.00	169.51	1,999.37	-21.44	3.97	-21.46	1.00	1.00	0.00
2,100.00	6.00	169.51	2,098.90	-30.86	5.72	-30.90	1.00	1.00	0.00
2,200.00	7.00	169.51	2,198.26	-41.99	7.78	-42.04	1.00	1.00	0.00
2,200.31	7.00	169.51	2,198.57	-42.03	7.78	-42.08	1.00	1.00	0.00
EOB									
2,300.00	7.00	169.51	2,297.51	-53.98	10.00	-54.05	0.00	0.00	0.00
2,400.00	7.00	169.51	2,396.77	-65.97	12.22	-66.05	0.00	0.00	0.00
2,500.00	7.00	169.51	2,496.02	-77.96	14.44	-78.05	0.00	0.00	0.00
2,600.00	7.00	169.51	2,595.28	-89.95	16.66	-90.06	0.00	0.00	0.00
2,700.00	7.00	169.51	2,694.53	-101.94	18.88	-102.06	0.00	0.00	0.00
2,742.07	7.00	169.51	2,736.29	-106.98	19.81	-107.11	0.00	0.00	0.00
EOH									
2,800.00	6.13	169.51	2,793.83	-113.50	21.02	-113.63	1.50	-1.50	0.00
2,900.00	4.63	169.51	2,893.39	-122.72	22.73	-122.87	1.50	-1.50	0.00
3,000.00	3.13	169.51	2,993.16	-129.38	23.96	-129.54	1.50	-1.50	0.00
3,100.00	1.63	169.51	3,093.07	-133.47	24.72	-133.63	1.50	-1.50	0.00
3,200.00	0.13	169.51	3,193.05	-134.99	25.00	-135.15	1.50	-1.50	0.00
3,208.95	0.00	0.00	3,202.00	-135.00	25.00	-135.16	1.50	-1.50	0.00
Vertical									
3,300.00	0.00	0.00	3,293.05	-135.00	25.00	-135.16	0.00	0.00	0.00
3,400.00	0.00	0.00	3,393.05	-135.00	25.00	-135.16	0.00	0.00	0.00
3,500.00	0.00	0.00	3,493.05	-135.00	25.00	-135.16	0.00	0.00	0.00
3,600.00	0.00	0.00	3,593.05	-135.00	25.00	-135.16	0.00	0.00	0.00
3,700.00	0.00	0.00	3,693.05	-135.00	25.00	-135.16	0.00	0.00	0.00
3,800.00	0.00	0.00	3,793.05	-135.00	25.00	-135.16	0.00	0.00	0.00
3,900.00	0.00	0.00	3,893.05	-135.00	25.00	-135.16	0.00	0.00	0.00
4,000.00	0.00	0.00	3,993.05	-135.00	25.00	-135.16	0.00	0.00	0.00
4,100.00	0.00	0.00	4,093.05	-135.00	25.00	-135.16	0.00	0.00	0.00
4,200.00	0.00	0.00	4,193.05	-135.00	25.00	-135.16	0.00	0.00	0.00
4,300.00	0.00	0.00	4,293.05	-135.00	25.00	-135.16	0.00	0.00	0.00
4,400.00	0.00	0.00	4,393.05	-135.00	25.00	-135.16	0.00	0.00	0.00
4,500.00	0.00	0.00	4,493.05	-135.00	25.00	-135.16	0.00	0.00	0.00
4,600.00	0.00	0.00	4,593.05	-135.00	25.00	-135.16	0.00	0.00	0.00



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Well:	Gavilon Fed Com 305H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

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)
4,700.00	0.00	0.00	4,693.05	-135.00	25.00	-135.16	0.00	0.00	0.00
4,800.00	0.00	0.00	4,793.05	-135.00	25.00	-135.16	0.00	0.00	0.00
4,900.00	0.00	0.00	4,893.05	-135.00	25.00	-135.16	0.00	0.00	0.00
5,000.00	0.00	0.00	4,993.05	-135.00	25.00	-135.16	0.00	0.00	0.00
5,100.00	0.00	0.00	5,093.05	-135.00	25.00	-135.16	0.00	0.00	0.00
5,200.00	0.00	0.00	5,193.05	-135.00	25.00	-135.16	0.00	0.00	0.00
5,300.00	0.00	0.00	5,293.05	-135.00	25.00	-135.16	0.00	0.00	0.00
5,400.00	0.00	0.00	5,393.05	-135.00	25.00	-135.16	0.00	0.00	0.00
5,500.00	0.00	0.00	5,493.05	-135.00	25.00	-135.16	0.00	0.00	0.00
5,600.00	0.00	0.00	5,593.05	-135.00	25.00	-135.16	0.00	0.00	0.00
5,700.00	0.00	0.00	5,693.05	-135.00	25.00	-135.16	0.00	0.00	0.00
5,800.00	0.00	0.00	5,793.05	-135.00	25.00	-135.16	0.00	0.00	0.00
5,900.00	0.00	0.00	5,893.05	-135.00	25.00	-135.16	0.00	0.00	0.00
6,000.00	0.00	0.00	5,993.05	-135.00	25.00	-135.16	0.00	0.00	0.00
6,100.00	0.00	0.00	6,093.05	-135.00	25.00	-135.16	0.00	0.00	0.00
6,200.00	0.00	0.00	6,193.05	-135.00	25.00	-135.16	0.00	0.00	0.00
6,300.00	0.00	0.00	6,293.05	-135.00	25.00	-135.16	0.00	0.00	0.00
6,400.00	0.00	0.00	6,393.05	-135.00	25.00	-135.16	0.00	0.00	0.00
6,500.00	0.00	0.00	6,493.05	-135.00	25.00	-135.16	0.00	0.00	0.00
6,600.00	0.00	0.00	6,593.05	-135.00	25.00	-135.16	0.00	0.00	0.00
6,700.00	0.00	0.00	6,693.05	-135.00	25.00	-135.16	0.00	0.00	0.00
6,800.00	0.00	0.00	6,793.05	-135.00	25.00	-135.16	0.00	0.00	0.00
6,900.00	0.00	0.00	6,893.05	-135.00	25.00	-135.16	0.00	0.00	0.00
7,000.00	0.00	0.00	6,993.05	-135.00	25.00	-135.16	0.00	0.00	0.00
7,100.00	0.00	0.00	7,093.05	-135.00	25.00	-135.16	0.00	0.00	0.00
7,200.00	0.00	0.00	7,193.05	-135.00	25.00	-135.16	0.00	0.00	0.00
7,300.00	0.00	0.00	7,293.05	-135.00	25.00	-135.16	0.00	0.00	0.00
7,400.00	0.00	0.00	7,393.05	-135.00	25.00	-135.16	0.00	0.00	0.00
7,500.00	0.00	0.00	7,493.05	-135.00	25.00	-135.16	0.00	0.00	0.00
7,600.00	0.00	0.00	7,593.05	-135.00	25.00	-135.16	0.00	0.00	0.00
7,700.00	0.00	0.00	7,693.05	-135.00	25.00	-135.16	0.00	0.00	0.00
7,800.00	0.00	0.00	7,793.05	-135.00	25.00	-135.16	0.00	0.00	0.00
7,900.00	0.00	0.00	7,893.05	-135.00	25.00	-135.16	0.00	0.00	0.00
8,000.00	0.00	0.00	7,993.05	-135.00	25.00	-135.16	0.00	0.00	0.00
8,100.00	0.00	0.00	8,093.05	-135.00	25.00	-135.16	0.00	0.00	0.00
8,200.00	0.00	0.00	8,193.05	-135.00	25.00	-135.16	0.00	0.00	0.00
8,300.00	0.00	0.00	8,293.05	-135.00	25.00	-135.16	0.00	0.00	0.00
8,400.00	0.00	0.00	8,393.05	-135.00	25.00	-135.16	0.00	0.00	0.00
8,500.00	0.00	0.00	8,493.05	-135.00	25.00	-135.16	0.00	0.00	0.00
8,600.00	0.00	0.00	8,593.05	-135.00	25.00	-135.16	0.00	0.00	0.00
8,700.00	0.00	0.00	8,693.05	-135.00	25.00	-135.16	0.00	0.00	0.00
8,800.00	0.00	0.00	8,793.05	-135.00	25.00	-135.16	0.00	0.00	0.00
8,900.00	0.00	0.00	8,893.05	-135.00	25.00	-135.16	0.00	0.00	0.00



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Well:	Gavilon Fed Com 305H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

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)
9,000.00	0.00	0.00	8,993.05	-135.00	25.00	-135.16	0.00	0.00	0.00
9,093.95	0.00	0.00	9,087.00	-135.00	25.00	-135.16	0.00	0.00	0.00
KOP									
9,100.00	0.73	346.47	9,093.05	-134.96	24.99	-135.13	12.00	12.00	0.00
9,200.00	12.72	346.47	9,192.18	-123.60	22.26	-123.74	12.00	12.00	0.00
9,300.00	24.72	346.47	9,286.72	-92.44	14.76	-92.54	12.00	12.00	0.00
9,400.00	36.72	346.47	9,372.53	-42.87	2.83	-42.88	12.00	12.00	0.00
9,500.00	48.72	346.47	9,445.86	22.97	-13.00	23.06	12.00	12.00	0.00
9,542.69	53.84	346.47	9,472.56	55.34	-20.79	55.48	12.00	12.00	0.00
EOB									
9,600.00	60.27	349.38	9,503.71	102.35	-30.80	102.55	12.00	11.22	5.08
9,700.00	71.62	353.68	9,544.42	192.52	-44.07	192.81	12.00	11.35	4.30
9,800.00	83.05	357.45	9,566.32	289.62	-51.53	289.95	12.00	11.43	3.76
9,860.67	90.00	359.62	9,570.00	350.12	-53.08	350.46	12.00	11.46	3.58
Land Point									
9,900.00	90.00	359.62	9,570.00	389.44	-53.34	389.79	0.00	0.00	0.00
10,000.00	90.00	359.62	9,570.00	489.44	-54.00	489.79	0.00	0.00	0.00
10,100.00	90.00	359.62	9,570.00	589.44	-54.66	589.79	0.00	0.00	0.00
10,200.00	90.00	359.62	9,570.00	689.44	-55.33	689.79	0.00	0.00	0.00
10,300.00	90.00	359.62	9,570.00	789.44	-55.99	789.79	0.00	0.00	0.00
10,400.00	90.00	359.62	9,570.00	889.43	-56.65	889.79	0.00	0.00	0.00
10,500.00	90.00	359.62	9,570.00	989.43	-57.32	989.79	0.00	0.00	0.00
10,600.00	90.00	359.62	9,570.00	1,089.43	-57.98	1,089.79	0.00	0.00	0.00
10,700.00	90.00	359.62	9,570.00	1,189.43	-58.64	1,189.79	0.00	0.00	0.00
10,800.00	90.00	359.62	9,570.00	1,289.42	-59.31	1,289.79	0.00	0.00	0.00
10,900.00	90.00	359.62	9,570.00	1,389.42	-59.97	1,389.79	0.00	0.00	0.00
11,000.00	90.00	359.62	9,570.00	1,489.42	-60.63	1,489.79	0.00	0.00	0.00
11,100.00	90.00	359.62	9,570.00	1,589.42	-61.29	1,589.79	0.00	0.00	0.00
11,200.00	90.00	359.62	9,570.00	1,689.42	-61.96	1,689.79	0.00	0.00	0.00
11,300.00	90.00	359.62	9,570.00	1,789.41	-62.62	1,789.79	0.00	0.00	0.00
11,400.00	90.00	359.62	9,570.00	1,889.41	-63.28	1,889.79	0.00	0.00	0.00
11,500.00	90.00	359.62	9,570.00	1,989.41	-63.95	1,989.79	0.00	0.00	0.00
11,600.00	90.00	359.62	9,570.00	2,089.41	-64.61	2,089.79	0.00	0.00	0.00
11,700.00	90.00	359.62	9,570.00	2,189.40	-65.27	2,189.79	0.00	0.00	0.00
11,800.00	90.00	359.62	9,570.00	2,289.40	-65.94	2,289.79	0.00	0.00	0.00
11,900.00	90.00	359.62	9,570.00	2,389.40	-66.60	2,389.79	0.00	0.00	0.00
12,000.00	90.00	359.62	9,570.00	2,489.40	-67.26	2,489.79	0.00	0.00	0.00
12,100.00	90.00	359.62	9,570.00	2,589.40	-67.93	2,589.79	0.00	0.00	0.00
12,200.00	90.00	359.62	9,570.00	2,689.39	-68.59	2,689.79	0.00	0.00	0.00
12,300.00	90.00	359.62	9,570.00	2,789.39	-69.25	2,789.79	0.00	0.00	0.00
12,400.00	90.00	359.62	9,570.00	2,889.39	-69.92	2,889.79	0.00	0.00	0.00
12,500.00	90.00	359.62	9,570.00	2,989.39	-70.58	2,989.79	0.00	0.00	0.00
12,600.00	90.00	359.62	9,570.00	3,089.38	-71.24	3,089.79	0.00	0.00	0.00
12,700.00	90.00	359.62	9,570.00	3,189.38	-71.91	3,189.79	0.00	0.00	0.00



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Well:	Gavilon Fed Com 305H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

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)
12,800.00	90.00	359.62	9,570.00	3,289.38	-72.57	3,289.79	0.00	0.00	0.00
12,900.00	90.00	359.62	9,570.00	3,389.38	-73.23	3,389.79	0.00	0.00	0.00
13,000.00	90.00	359.62	9,570.00	3,489.38	-73.90	3,489.79	0.00	0.00	0.00
13,100.00	90.00	359.62	9,570.00	3,589.37	-74.56	3,589.79	0.00	0.00	0.00
13,200.00	90.00	359.62	9,570.00	3,689.37	-75.22	3,689.79	0.00	0.00	0.00
13,300.00	90.00	359.62	9,570.00	3,789.37	-75.89	3,789.79	0.00	0.00	0.00
13,400.00	90.00	359.62	9,570.00	3,889.37	-76.55	3,889.79	0.00	0.00	0.00
13,500.00	90.00	359.62	9,570.00	3,989.37	-77.21	3,989.79	0.00	0.00	0.00
13,600.00	90.00	359.62	9,570.00	4,089.36	-77.88	4,089.79	0.00	0.00	0.00
13,700.00	90.00	359.62	9,570.00	4,189.36	-78.54	4,189.79	0.00	0.00	0.00
13,800.00	90.00	359.62	9,570.00	4,289.36	-79.20	4,289.79	0.00	0.00	0.00
13,900.00	90.00	359.62	9,570.00	4,389.36	-79.87	4,389.79	0.00	0.00	0.00
14,000.00	90.00	359.62	9,570.00	4,489.35	-80.53	4,489.79	0.00	0.00	0.00
14,100.00	90.00	359.62	9,570.00	4,589.35	-81.19	4,589.79	0.00	0.00	0.00
14,200.00	90.00	359.62	9,570.00	4,689.35	-81.85	4,689.79	0.00	0.00	0.00
14,300.00	90.00	359.62	9,570.00	4,789.35	-82.52	4,789.79	0.00	0.00	0.00
14,400.00	90.00	359.62	9,570.00	4,889.35	-83.18	4,889.79	0.00	0.00	0.00
14,500.00	90.00	359.62	9,570.00	4,989.34	-83.84	4,989.79	0.00	0.00	0.00
14,600.00	90.00	359.62	9,570.00	5,089.34	-84.51	5,089.79	0.00	0.00	0.00
14,700.00	90.00	359.62	9,570.00	5,189.34	-85.17	5,189.79	0.00	0.00	0.00
14,800.00	90.00	359.62	9,570.00	5,289.34	-85.83	5,289.79	0.00	0.00	0.00
14,900.00	90.00	359.62	9,570.00	5,389.33	-86.50	5,389.79	0.00	0.00	0.00
15,000.00	90.00	359.62	9,570.00	5,489.33	-87.16	5,489.79	0.00	0.00	0.00
15,100.00	90.00	359.62	9,570.00	5,589.33	-87.82	5,589.79	0.00	0.00	0.00
15,200.00	90.00	359.62	9,570.00	5,689.33	-88.49	5,689.79	0.00	0.00	0.00
15,300.00	90.00	359.62	9,570.00	5,789.33	-89.15	5,789.79	0.00	0.00	0.00
15,400.00	90.00	359.62	9,570.00	5,889.32	-89.81	5,889.79	0.00	0.00	0.00
15,500.00	90.00	359.62	9,570.00	5,989.32	-90.48	5,989.79	0.00	0.00	0.00
15,600.00	90.00	359.62	9,570.00	6,089.32	-91.14	6,089.79	0.00	0.00	0.00
15,700.00	90.00	359.62	9,570.00	6,189.32	-91.80	6,189.79	0.00	0.00	0.00
15,800.00	90.00	359.62	9,570.00	6,289.31	-92.47	6,289.79	0.00	0.00	0.00
15,900.00	90.00	359.62	9,570.00	6,389.31	-93.13	6,389.79	0.00	0.00	0.00
16,000.00	90.00	359.62	9,570.00	6,489.31	-93.79	6,489.79	0.00	0.00	0.00
16,100.00	90.00	359.62	9,570.00	6,589.31	-94.46	6,589.79	0.00	0.00	0.00
16,200.00	90.00	359.62	9,570.00	6,689.31	-95.12	6,689.79	0.00	0.00	0.00
16,300.00	90.00	359.62	9,570.00	6,789.30	-95.78	6,789.79	0.00	0.00	0.00
16,400.00	90.00	359.62	9,570.00	6,889.30	-96.45	6,889.79	0.00	0.00	0.00
16,500.00	90.00	359.62	9,570.00	6,989.30	-97.11	6,989.79	0.00	0.00	0.00
16,600.00	90.00	359.62	9,570.00	7,089.30	-97.77	7,089.79	0.00	0.00	0.00
16,700.00	90.00	359.62	9,570.00	7,189.29	-98.44	7,189.79	0.00	0.00	0.00
16,800.00	90.00	359.62	9,570.00	7,289.29	-99.10	7,289.79	0.00	0.00	0.00
16,900.00	90.00	359.62	9,570.00	7,389.29	-99.76	7,389.79	0.00	0.00	0.00
17,000.00	90.00	359.62	9,570.00	7,489.29	-100.42	7,489.79	0.00	0.00	0.00



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Well:	Gavilon Fed Com 305H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

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)
17,100.00	90.00	359.62	9,570.00	7,589.29	-101.09	7,589.79	0.00	0.00	0.00
17,200.00	90.00	359.62	9,570.00	7,689.28	-101.75	7,689.79	0.00	0.00	0.00
17,300.00	90.00	359.62	9,570.00	7,789.28	-102.41	7,789.79	0.00	0.00	0.00
17,400.00	90.00	359.62	9,570.00	7,889.28	-103.08	7,889.79	0.00	0.00	0.00
17,500.00	90.00	359.62	9,570.00	7,989.28	-103.74	7,989.79	0.00	0.00	0.00
17,600.00	90.00	359.62	9,570.00	8,089.28	-104.40	8,089.79	0.00	0.00	0.00
17,700.00	90.00	359.62	9,570.00	8,189.27	-105.07	8,189.79	0.00	0.00	0.00
17,800.00	90.00	359.62	9,570.00	8,289.27	-105.73	8,289.79	0.00	0.00	0.00
17,900.00	90.00	359.62	9,570.00	8,389.27	-106.39	8,389.79	0.00	0.00	0.00
18,000.00	90.00	359.62	9,570.00	8,489.27	-107.06	8,489.79	0.00	0.00	0.00
18,100.00	90.00	359.62	9,570.00	8,589.26	-107.72	8,589.79	0.00	0.00	0.00
18,200.00	90.00	359.62	9,570.00	8,689.26	-108.38	8,689.79	0.00	0.00	0.00
18,300.00	90.00	359.62	9,570.00	8,789.26	-109.05	8,789.79	0.00	0.00	0.00
18,400.00	90.00	359.62	9,570.00	8,889.26	-109.71	8,889.79	0.00	0.00	0.00
18,500.00	90.00	359.62	9,570.00	8,989.26	-110.37	8,989.79	0.00	0.00	0.00
18,600.00	90.00	359.62	9,570.00	9,089.25	-111.04	9,089.79	0.00	0.00	0.00
18,700.00	90.00	359.62	9,570.00	9,189.25	-111.70	9,189.79	0.00	0.00	0.00
18,800.00	90.00	359.62	9,570.00	9,289.25	-112.36	9,289.79	0.00	0.00	0.00
18,900.00	90.00	359.62	9,570.00	9,389.25	-113.03	9,389.79	0.00	0.00	0.00
19,000.00	90.00	359.62	9,570.00	9,489.24	-113.69	9,489.79	0.00	0.00	0.00
19,100.00	90.00	359.62	9,570.00	9,589.24	-114.35	9,589.79	0.00	0.00	0.00
19,200.00	90.00	359.62	9,570.00	9,689.24	-115.02	9,689.79	0.00	0.00	0.00
19,300.00	90.00	359.62	9,570.00	9,789.24	-115.68	9,789.79	0.00	0.00	0.00
19,400.00	90.00	359.62	9,570.00	9,889.24	-116.34	9,889.79	0.00	0.00	0.00
19,500.00	90.00	359.62	9,570.00	9,989.23	-117.01	9,989.79	0.00	0.00	0.00
19,600.00	90.00	359.62	9,570.00	10,089.23	-117.67	10,089.79	0.00	0.00	0.00
19,700.00	90.00	359.62	9,570.00	10,189.23	-118.33	10,189.79	0.00	0.00	0.00
19,785.67	90.00	359.62	9,570.00	10,274.90	-118.90	10,275.46	0.00	0.00	0.00
BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Gavilon Fed Com 305H - hit/miss target - Shape	0.00	0.00	0.00	-85.30	-50.00	554,435.60	704,485.50	32.52250317	-103.66990803
- plan misses target center by 98.87usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
Gavilon Fed Com 305H - hit/miss target - Shape	0.00	0.00	0.00	-135.32	-49.67	554,385.58	704,485.83	32.52236567	-103.66990796
- plan misses target center by 144.15usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
Gavilon Fed Com 305H - hit/miss target - Shape	0.00	0.00	0.00	10,274.90	-118.90	564,795.80	704,416.60	32.55098114	-103.66992223
- plan misses target center by 9570.00usft at 19785.67usft MD (9570.00 TVD, 10274.90 N, -118.90 E)									
- Point									



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 305H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3696.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3696.50usft (Patterson 813)
Well:	Gavilon Fed Com 305H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1500	1500	0	0	Begin Nudge
2200	2199	-42	8	EOB
2742	2736	-107	20	EOH
3209	3202	-135	25	Vertical
9094	9087	-135	25	KOP
9543	9473	55	-21	EOB
9861	9570	350	-53	Land Point
19,786	9570	10,275	-119	BHL

District I
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

CONDITIONS

Action 120556

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 120556
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	PREVIOUS COA's APPLY	7/29/2022