

Well Name: GAVILON FED COM	Well Location: T20S / R33E / SEC 33 / SESW / 32.522775 / -103.670171	County or Parish/State: LEA / NM
Well Number: 505H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM057683, NMNM57683	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547860	Well Status: Approved Application for Permit to Drill	Operator: MATADOR PRODUCTION COMPANY

Notice of Intent

Sundry ID: 2664881

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/01/2022

Time Sundry Submitted: 09:59

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 505H: • 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 155’ FSL and 2051’ FWL to 265’ FSL and 2031’ FWL. The new SHL remains on the existing drill pad. • BHL change from 50’ FNL and 1980’ FWL to 100’ FNL and 1980’ FWL. Updated Directional Plot attached.

NOI Attachments

Procedure Description

- Gavilon_Fed_Com_505H__Plan_1__20220331211917.pdf
- Gavilon_Fed_Com_505H__Plan_1__Plot_20220331211917.pdf
- Gavilon_Fed_Com_505H__Plan_1__AC_Report_20220331211910.pdf
- Casing_Specs_7.0_29_P110EC_DWC_C__20220331211910.pdf
- Casing_Specs_5.5in_20lb_Hunting_TLW_SC_20220331211910.pdf
- 2022030494_MATADOR_GAVILON_505H_LEA_C102_FINAL_03_25_2022_20220331211910.pdf
- Gavilon_505H_Drill_Plan__Casing_Cement_Mud_Sundry_20220331211910.pdf
- BLM_Casing_Design_Assumptions_4_string_20220331211910.pdf

Received by OCD: 6/27/2022 10:16:59 AM

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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 09:18 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
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District II

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District III

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Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
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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 -47860	² Pool Code 30213	³ Pool Name HAT MESA; BONE SPRING
⁴ Property Code 332434	⁵ Property Name GAVILON FED COM	⁶ Well Number 505H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3,667'

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		265	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.

¹⁶	SHL (NAD83 NME) Y = 554,662.0 X = 745,715.7 LAT. = 32.523077 °N LONG. = 103.670237 °W FTP (NAD83 NME) Y = 554,496.7 X = 745,666.2 LAT. = 32.522624 °N LONG. = 103.670401 °W CORNER COORDINATES (NAD83 NME) <table border="0"> <tr><td>A - Y = 564,960.1 N</td><td>X = 746,261.4 E</td></tr> <tr><td>B - Y = 562,320.6 N</td><td>X = 746,279.0 E</td></tr> <tr><td>C - Y = 559,680.3 N</td><td>X = 746,296.5 E</td></tr> <tr><td>D - Y = 557,040.9 N</td><td>X = 746,313.9 E</td></tr> <tr><td>E - Y = 554,400.4 N</td><td>X = 746,331.3 E</td></tr> <tr><td>F - Y = 564,954.1 N</td><td>X = 744,938.9 E</td></tr> <tr><td>G - Y = 562,313.8 N</td><td>X = 744,956.5 E</td></tr> <tr><td>H - Y = 559,673.1 N</td><td>X = 744,974.2 E</td></tr> <tr><td>I - Y = 557,033.7 N</td><td>X = 744,991.7 E</td></tr> <tr><td>J - Y = 554,393.0 N</td><td>X = 745,009.1 E</td></tr> </table> SHL (NAD27 NME) Y = 554,600.9 X = 704,535.0 LAT. = 32.522957 °N LONG. = 103.669744 °W FTP (NAD27 NME) Y = 554,435.6 X = 704,485.5 LAT. = 32.522503 °N LONG. = 103.669908 °W CORNER COORDINATES (NAD27 NME) <table border="0"> <tr><td>A - Y = 564,898.8 N</td><td>X = 705,081.1 E</td></tr> <tr><td>B - Y = 562,259.3 N</td><td>X = 705,098.5 E</td></tr> <tr><td>C - Y = 559,619.1 N</td><td>X = 705,115.9 E</td></tr> <tr><td>D - Y = 556,979.8 N</td><td>X = 705,133.2 E</td></tr> <tr><td>E - Y = 554,339.3 N</td><td>X = 705,150.5 E</td></tr> <tr><td>F - Y = 564,892.8 N</td><td>X = 703,758.5 E</td></tr> <tr><td>G - Y = 562,252.5 N</td><td>X = 703,776.1 E</td></tr> <tr><td>H - Y = 559,611.9 N</td><td>X = 703,793.7 E</td></tr> <tr><td>I - Y = 556,972.5 N</td><td>X = 703,811.1 E</td></tr> <tr><td>J - Y = 554,331.9 N</td><td>X = 703,828.4 E</td></tr> </table>	A - Y = 564,960.1 N	X = 746,261.4 E	B - Y = 562,320.6 N	X = 746,279.0 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	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>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.</i> <i>Nicky Fitzgerald</i> 3/31/2022 Signature _____ Date _____ Nicky Fitzgerald Printed Name _____ nicky.fitzgerald@matadorresources.com E-mail Address _____ ¹⁸ SURVEYOR CERTIFICATION <i>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.</i> 03-25-2022 Date of Survey _____ Signature and Seal of Professional Surveyor: _____ MARK DILLON HARP 23786 Certificate Number _____ BK 2022030494
A - Y = 564,960.1 N	X = 746,261.4 E																																									
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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)

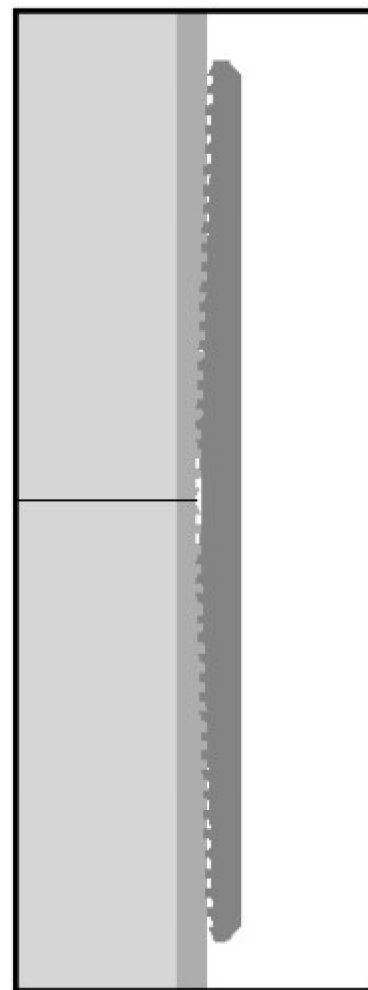
	Connection Dimensions
7.875	Connection O.D. (in)
6.184	Connection I.D. (in)
6.125	Connection Drift Diameter (in)
4.50	Make-up Loss (in)
8.449	Critical Area (sq in)
100.0	Joint Efficiency (%)

	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
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E-mail: VAMUSAsales@na.vallourec.com



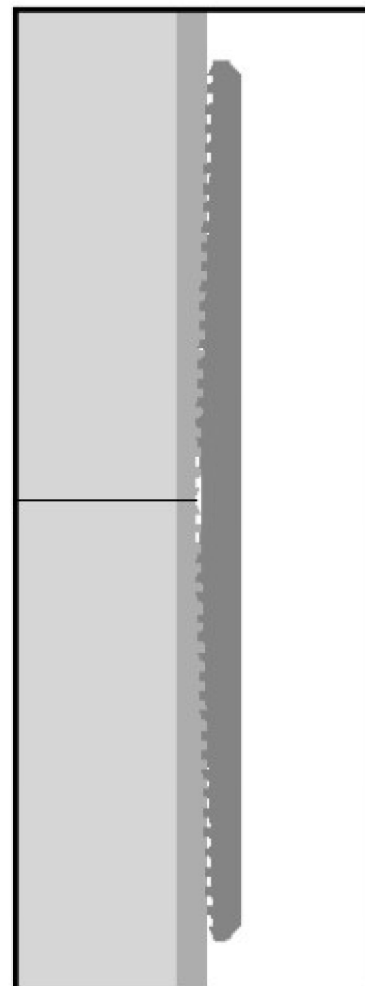
For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

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.

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**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 #505H**

- Matador respectfully requests the option to amend the well design of the Gavilon Fed Com #505H 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 - 1555	0 - 1555	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 3298	0 - 3298	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 5003	0 - 5003	9.625	40	J-55	BUTT	1.125	1.125	1.8
Production Top	8.75	0 - 9900	0 - 9886	7	29	P-110	VAM DWC/C	1.125	1.125	1.8
Production Bottom	8.75	9900 - 20691	9886 - 10470	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	3630	1.35	4902	14.8	100%	0	C	5% NaCl + LCM
Intermediate 1	Lead	1970	1.78	3506	13.5	50%	0	C	5% NaCl + LCM
	Tail	530	1.35	722	14.8	50%	2638	C	5% NaCl + LCM
Intermediate 2	Lead	1190	1.78	2126	13.5	50%	0	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	370	1.35	504	14.8	50%	4003	C	5% NaCl + LCM
Production	Lead	280	3.66	1042	10.3	25%	3762	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	2380	1.35	3214	13.2	15%	9500	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 - 1555	8.4 - 8.8	28-30	NC
Intermediate 1	17.5	Brine Water	1555 - 3298	9.5 - 10.2	28-32	NC
Intermediate 2	12.25	Fresh Water	3298 - 5003	8.4 - 8.6	28-30	NC
Production	8.75	OBM/Cut Brine	5003 - 20691	8.6 - 9.4	28-30	NC



Matador Resources

Lea County, NM (NAD27)

Gavilon Fed Com Pads (Grid)

Gavilon Fed Com 505H

Wellbore #1

Plan 1

Anticollision Report

28 March, 2022





Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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 20,691.52usft	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	20,690.88	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	12,212.39	10,429.61	1,319.57	1,009.17	4.251	CC, ES
Galivan Federal 001 - Wellbore #1 - Actual	12,300.00	10,429.61	1,322.48	1,010.52	4.239	SF
Gavilon Fed Com 305H - Wellbore #1 - Plan 1	1,416.33	1,417.33	80.00	70.90	8.785	CC
Gavilon Fed Com 305H - Wellbore #1 - Plan 1	1,600.21	1,600.00	80.12	70.48	8.311	ES
Gavilon Fed Com 305H - Wellbore #1 - Plan 1	20,691.52	19,785.67	901.00	732.29	5.341	SF
Gavilon Fed Com 306H - Wellbore #1 - Plan 1	1,500.00	1,500.00	30.00	20.60	3.191	CC, ES
Gavilon Fed Com 306H - Wellbore #1 - Plan 1	1,600.00	1,599.47	30.43	20.77	3.149	SF
Gavilon Fed Com 403H - Wellbore #1 - Plan 1	20,200.00	19,306.30	1,609.61	1,290.52	5.044	CC
Gavilon Fed Com 403H - Wellbore #1 - Plan 1	20,691.52	19,795.49	1,609.61	1,274.65	4.805	ES, SF
Gavilon Fed Com 501H - Wellbore #1 - Plan 1	20,200.00	20,203.55	1,330.43	956.68	3.560	CC
Gavilon Fed Com 501H - Wellbore #1 - Plan 1	20,691.52	20,692.74	1,330.43	938.12	3.391	ES, SF
Gavilon Fed Com 602H - Wellbore #1 - Actual	9,992.96	9,993.53	917.93	885.18	28.032	CC
Gavilon Fed Com 602H - Wellbore #1 - Actual	9,999.75	9,999.15	917.93	885.18	28.026	ES
Gavilon Fed Com 602H - Wellbore #1 - Actual	20,691.52	21,490.53	1,330.86	1,019.91	4.280	SF
Gavilon Fed Com 603H - Wellbore #1 - Plan 1	3,580.20	3,575.27	65.72	49.97	4.172	CC
Gavilon Fed Com 603H - Wellbore #1 - Plan 1	10,125.00	10,116.91	73.62	46.41	2.706	ES, SF
Gavilon Fed Com 604H - Wellbore #1 - Plan 1	14,000.00	14,780.04	1,252.32	1,125.47	9.873	CC
Gavilon Fed Com 604H - Wellbore #1 - Plan 1	20,691.52	21,470.20	1,252.73	916.54	3.726	ES, SF
Gavilon Fed Com 704H - Wellbore #1 - Actual						Out of range
Gavilon Fed Com 704H - Wellbore #1 - Plan 4	16,000.00	16,997.81	1,883.45	1,694.73	9.980	CC
Gavilon Fed Com 704H - Wellbore #1 - Plan 4	20,691.52	21,696.47	1,896.62	1,554.03	5.536	ES, SF
Gavilon Fed Com 706H - Wellbore #1 - Plan 1	2,265.95	2,258.56	66.51	54.27	5.435	CC, ES
Gavilon Fed Com 706H - Wellbore #1 - Plan 1	20,691.52	20,683.98	1,319.91	923.50	3.330	SF
Gavilon Fed Com 708H - Wellbore #1 - Plan 1	16,000.00	16,966.32	1,919.15	1,726.88	9.982	CC
Gavilon Fed Com 708H - Wellbore #1 - Plan 1	20,691.52	21,655.68	1,919.47	1,569.03	5.477	ES, SF
Tomahawk 28 Federal Com 001 - Wellbore #1 - Actual	19,141.90	10,375.87	0.17	-376.06	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		Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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)				
8,800.00	8,786.25	8,761.71	8,758.72	15.51	218.26	-33.18	1,707.12	-1,381.71	2,296.55	2,065.05	231.50	9.920		
8,806.78	8,793.03	8,768.99	8,766.00	15.52	218.42	-33.18	1,707.05	-1,381.71	2,296.50	2,064.83	231.67	9.913		

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



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Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance			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		
8,900.00	8,886.25	8,844.31	8,841.25	15.58	220.48	-33.18	1,707.20	-1,381.71	2,296.56	2,062.75	233.80	9.823		
9,000.00	8,986.25	8,944.31	8,941.25	15.64	223.13	-33.18	1,707.20	-1,381.71	2,296.56	2,060.04	236.52	9.710		
9,100.00	9,086.25	9,050.08	9,047.00	15.71	225.92	-33.16	1,708.38	-1,381.71	2,297.55	2,058.16	239.39	9.597		
9,200.00	9,186.25	9,159.97	9,156.88	15.77	228.83	-33.17	1,707.77	-1,381.71	2,297.09	2,054.72	242.37	9.478		
9,300.00	9,286.25	9,244.50	9,241.25	15.84	231.12	-33.18	1,707.20	-1,381.71	2,296.56	2,051.82	244.74	9.384		
9,400.00	9,386.25	9,344.55	9,341.25	15.90	234.10	-33.18	1,707.20	-1,381.71	2,296.56	2,048.76	247.80	9.268		
9,500.00	9,486.25	9,444.55	9,441.25	15.97	237.20	-33.18	1,707.20	-1,381.71	2,296.56	2,045.58	250.98	9.151		
9,600.00	9,586.25	9,559.12	9,555.78	16.03	240.76	-33.16	1,708.49	-1,381.71	2,297.68	2,043.07	254.61	9.024		
9,700.00	9,686.25	9,682.05	9,678.66	16.10	244.58	-33.18	1,706.83	-1,381.71	2,296.55	2,038.08	258.47	8.885		
9,717.04	9,703.28	9,702.99	9,699.60	16.11	245.23	-33.19	1,706.40	-1,381.71	2,296.26	2,037.13	259.13	8.861		
9,800.00	9,786.25	9,744.83	9,741.25	16.16	246.99	-33.18	1,707.20	-1,381.71	2,296.56	2,035.57	260.99	8.800		
9,900.00	9,886.25	9,860.96	9,857.33	16.23	251.24	-33.16	1,708.54	-1,381.71	2,297.73	2,032.42	265.31	8.661		
9,999.75	9,986.00	10,002.07	9,998.36	16.29	256.41	-33.19	1,705.85	-1,381.71	2,296.15	2,025.66	270.49	8.489		
10,000.00	9,986.25	10,002.42	9,998.71	16.29	256.42	-33.19	1,705.84	-1,381.71	2,296.14	2,025.64	270.50	8.489		
10,003.32	9,989.56	10,007.11	10,003.39	16.29	256.60	-47.40	1,705.70	-1,381.71	2,296.05	2,025.38	270.67	8.483		
10,025.00	10,011.23	9,970.18	9,966.23	16.28	255.31	-47.43	1,707.20	-1,381.71	2,296.10	2,026.65	269.46	8.521		
10,050.00	10,036.15	9,995.10	9,991.15	16.26	256.30	-47.58	1,707.20	-1,381.71	2,294.77	2,024.33	270.44	8.485		
10,075.00	10,060.94	10,054.00	10,049.89	16.23	258.65	-47.94	1,707.20	-1,381.71	2,292.81	2,020.05	272.75	8.406		
10,100.00	10,085.51	10,054.00	10,049.89	16.20	258.65	-48.24	1,707.20	-1,381.71	2,289.49	2,016.73	272.76	8.394		
10,125.00	10,109.82	10,068.93	10,064.82	16.16	259.26	-48.66	1,707.20	-1,381.71	2,285.53	2,012.18	273.35	8.361		
10,150.00	10,133.78	10,092.89	10,088.78	16.13	260.25	-49.24	1,707.20	-1,381.71	2,280.75	2,006.44	274.30	8.315		
10,175.00	10,157.34	10,116.45	10,112.34	16.09	261.22	-49.92	1,707.20	-1,381.71	2,275.14	1,999.90	275.24	8.266		
10,200.00	10,180.43	10,139.54	10,135.43	16.05	262.17	-50.71	1,707.20	-1,381.71	2,268.74	1,992.59	276.15	8.216		
10,225.00	10,202.99	10,162.10	10,157.99	16.01	263.10	-51.61	1,707.20	-1,381.71	2,261.57	1,984.53	277.04	8.163		
10,250.00	10,224.95	10,184.06	10,179.95	15.97	264.00	-52.62	1,707.20	-1,381.71	2,253.65	1,975.75	277.90	8.110		
10,275.00	10,246.26	10,209.77	10,205.59	15.93	265.06	-53.77	1,709.23	-1,381.71	2,246.69	1,967.78	278.92	8.055		
10,300.00	10,266.85	10,242.07	10,237.87	15.89	266.39	-55.17	1,709.05	-1,381.71	2,237.29	1,957.09	280.20	7.985		
10,325.00	10,286.68	10,272.88	10,268.67	15.86	267.66	-56.71	1,708.68	-1,381.71	2,227.16	1,945.74	281.41	7.914		
10,350.00	10,305.68	10,302.11	10,297.88	15.82	268.86	-58.39	1,708.17	-1,381.71	2,216.34	1,933.78	282.56	7.844		
10,375.00	10,323.80	10,329.67	10,325.41	15.79	270.00	-60.20	1,707.53	-1,381.71	2,204.91	1,921.27	283.63	7.774		
10,398.38	10,339.92	10,353.87	10,349.58	15.76	271.00	-62.01	1,706.84	-1,381.71	2,193.71	1,909.13	284.57	7.709		
10,400.00	10,341.00	10,355.49	10,351.20	15.76	271.06	-62.05	1,706.79	-1,381.71	2,192.91	1,908.27	284.64	7.704		
10,425.00	10,357.27	10,379.55	10,375.24	15.72	272.05	-62.82	1,705.99	-1,381.71	2,180.23	1,894.66	285.57	7.635		
10,450.00	10,372.58	10,331.84	10,327.58	15.70	270.09	-62.25	1,707.20	-1,381.71	2,167.29	1,883.63	283.67	7.640		
10,475.00	10,386.90	10,346.51	10,341.90	15.67	270.70	-63.25	1,707.20	-1,381.71	2,153.59	1,869.33	284.26	7.576		
10,500.00	10,400.18	10,359.80	10,355.18	15.66	271.27	-64.49	1,707.20	-1,381.71	2,139.22	1,854.40	284.82	7.511		
10,525.00	10,412.40	10,372.01	10,367.40	15.64	271.80	-65.95	1,707.20	-1,381.71	2,124.23	1,838.89	285.34	7.445		
10,550.00	10,423.51	10,383.13	10,378.51	15.63	272.28	-67.63	1,707.20	-1,381.71	2,108.67	1,822.86	285.82	7.378		
10,575.00	10,433.49	10,393.11	10,388.49	15.63	272.71	-69.53	1,707.20	-1,381.71	2,092.60	1,806.34	286.26	7.310		
10,600.00	10,442.31	10,401.92	10,397.31	15.63	273.09	-71.63	1,707.20	-1,381.71	2,076.05	1,789.40	286.65	7.242		
10,625.00	10,449.94	10,409.56	10,404.94	15.64	273.42	-73.93	1,707.20	-1,381.71	2,059.09	1,772.08	287.01	7.174		
10,650.00	10,456.37	10,415.99	10,411.37	15.66	273.69	-76.42	1,707.20	-1,381.71	2,041.75	1,754.43	287.32	7.106		
10,675.00	10,461.58	10,421.19	10,416.58	15.69	273.92	-79.08	1,707.20	-1,381.71	2,024.09	1,736.50	287.59	7.038		
10,700.00	10,465.54	10,425.16	10,420.54	15.73	274.09	-81.90	1,707.20	-1,381.71	2,006.15	1,718.34	287.81	6.970		
10,725.00	10,468.26	10,427.88	10,423.26	15.79	274.21	-84.86	1,707.20	-1,381.71	1,988.00	1,700.01	287.99	6.903		
10,750.00	10,469.73	10,429.34	10,424.73	15.85	274.27	-87.92	1,707.20	-1,381.71	1,969.68	1,681.55	288.13	6.836		
10,766.52	10,470.00	10,429.61	10,425.00	15.91	274.28	-90.00	1,707.20	-1,381.71	1,957.50	1,669.30	288.19	6.792		
10,800.00	10,470.00	10,429.61	10,425.00	16.04	274.28	-90.00	1,707.20	-1,381.71	1,932.90	1,644.59	288.31	6.704		
10,900.00	10,470.00	10,429.61	10,425.00	16.61	274.28	-90.00	1,707.20	-1,381.71	1,861.08	1,572.29	288.79	6.444		
11,000.00	10,470.00	10,429.61	10,425.00	17.47	274.28	-90.00	1,707.20	-1,381.71	1,791.97	1,502.50	289.46	6.191		
11,100.00	10,470.00	10,429.61	10,425.00	18.55	274.28	-90.00	1,707.20	-1,381.71	1,725.88	1,435.53	290.35	5.944		
11,200.00	10,470.00	10,429.61	10,425.00	19.80	274.28	-90.00	1,707.20	-1,381.71	1,663.19	1,371.74	291.45	5.707		

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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
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		
11,300.00	10,470.00	10,429.61	10,425.00	21.16	274.28	-90.00	1,707.20	-1,381.71	1,604.28	1,311.52	292.76	5.480			
11,400.00	10,470.00	10,429.61	10,425.00	22.62	274.28	-90.00	1,707.20	-1,381.71	1,549.59	1,255.32	294.28	5.266			
11,500.00	10,470.00	10,429.61	10,425.00	24.14	274.28	-90.00	1,707.20	-1,381.71	1,499.59	1,203.61	295.98	5.067			
11,600.00	10,470.00	10,429.61	10,425.00	25.72	274.28	-90.00	1,707.20	-1,381.71	1,454.74	1,156.90	297.84	4.884			
11,700.00	10,470.00	10,429.61	10,425.00	27.35	274.28	-90.00	1,707.20	-1,381.71	1,415.56	1,115.72	299.84	4.721			
11,800.00	10,470.00	10,429.61	10,425.00	29.01	274.28	-90.00	1,707.20	-1,381.71	1,382.51	1,080.59	301.92	4.579			
11,900.00	10,470.00	10,429.61	10,425.00	30.70	274.28	-90.00	1,707.20	-1,381.71	1,356.04	1,052.00	304.05	4.460			
12,000.00	10,470.00	10,429.61	10,425.00	32.42	274.28	-90.00	1,707.20	-1,381.71	1,336.55	1,030.39	306.16	4.365			
12,100.00	10,470.00	10,429.61	10,425.00	34.16	274.28	-90.00	1,707.20	-1,381.71	1,324.35	1,016.13	308.22	4.297			
12,200.00	10,470.00	10,429.61	10,425.00	35.92	274.28	-90.00	1,707.20	-1,381.71	1,319.63	1,009.46	310.17	4.255			
12,212.39	10,470.00	10,429.61	10,425.00	36.14	274.28	-90.00	1,707.20	-1,381.71	1,319.57	1,009.17	310.40	4.251	CC, ES		
12,300.00	10,470.00	10,429.61	10,425.00	37.69	274.28	-90.00	1,707.20	-1,381.71	1,322.48	1,010.52	311.96	4.239	SF		
12,400.00	10,470.00	10,429.61	10,425.00	39.48	274.28	-90.00	1,707.20	-1,381.71	1,332.84	1,019.28	313.56	4.251			
12,500.00	10,470.00	10,429.61	10,425.00	41.28	274.28	-90.00	1,707.20	-1,381.71	1,350.55	1,035.60	314.95	4.288			
12,600.00	10,470.00	10,429.61	10,425.00	43.08	274.28	-90.00	1,707.20	-1,381.71	1,375.32	1,059.20	316.12	4.351			
12,700.00	10,470.00	10,429.61	10,425.00	44.90	274.28	-90.00	1,707.20	-1,381.71	1,406.78	1,089.71	317.07	4.437			
12,800.00	10,470.00	10,429.61	10,425.00	46.73	274.28	-90.00	1,707.20	-1,381.71	1,444.49	1,126.67	317.82	4.545			
12,900.00	10,470.00	10,429.61	10,425.00	48.56	274.28	-90.00	1,707.20	-1,381.71	1,487.98	1,169.60	318.38	4.674			
13,000.00	10,470.00	10,429.61	10,425.00	50.40	274.28	-90.00	1,707.20	-1,381.71	1,536.75	1,217.98	318.77	4.821			
13,100.00	10,470.00	10,429.61	10,425.00	52.24	274.28	-90.00	1,707.20	-1,381.71	1,590.32	1,271.31	319.01	4.985			
13,200.00	10,470.00	10,429.61	10,425.00	54.09	274.28	-90.00	1,707.20	-1,381.71	1,648.23	1,329.08	319.14	5.165			
13,300.00	10,470.00	10,429.61	10,425.00	55.94	274.28	-90.00	1,707.20	-1,381.71	1,710.02	1,390.85	319.17	5.358			
13,400.00	10,470.00	10,429.61	10,425.00	57.80	274.28	-90.00	1,707.20	-1,381.71	1,775.30	1,456.18	319.13	5.563			
13,500.00	10,470.00	10,429.61	10,425.00	59.66	274.28	-90.00	1,707.20	-1,381.71	1,843.70	1,524.68	319.02	5.779			
13,600.00	10,470.00	10,429.61	10,425.00	61.52	274.28	-90.00	1,707.20	-1,381.71	1,914.87	1,596.01	318.86	6.005			
13,700.00	10,470.00	10,429.61	10,425.00	63.39	274.28	-90.00	1,707.20	-1,381.71	1,988.53	1,669.86	318.67	6.240			
13,800.00	10,470.00	10,429.61	10,425.00	65.26	274.28	-90.00	1,707.20	-1,381.71	2,064.41	1,745.95	318.46	6.483			
13,900.00	10,470.00	10,429.61	10,425.00	67.13	274.28	-90.00	1,707.20	-1,381.71	2,142.27	1,824.04	318.23	6.732			
14,000.00	10,470.00	10,429.61	10,425.00	69.01	274.28	-90.00	1,707.20	-1,381.71	2,221.90	1,903.92	317.98	6.987			
14,100.00	10,470.00	10,429.61	10,425.00	70.88	274.28	-90.00	1,707.20	-1,381.71	2,303.12	1,985.39	317.73	7.249			
14,200.00	10,470.00	10,429.61	10,425.00	72.76	274.28	-90.00	1,707.20	-1,381.71	2,385.77	2,068.28	317.48	7.515			
14,300.00	10,470.00	10,429.61	10,425.00	74.64	274.28	-90.00	1,707.20	-1,381.71	2,469.70	2,152.46	317.23	7.785			
14,400.00	10,470.00	10,429.61	10,425.00	76.52	274.28	-90.00	1,707.20	-1,381.71	2,554.79	2,237.80	316.99	8.060			
14,500.00	10,470.00	10,429.61	10,425.00	78.41	274.28	-90.00	1,707.20	-1,381.71	2,640.92	2,324.17	316.75	8.338			
14,600.00	10,470.00	10,429.61	10,425.00	80.29	274.28	-90.00	1,707.20	-1,381.71	2,728.00	2,411.49	316.51	8.619			
14,700.00	10,470.00	10,429.61	10,425.00	82.18	274.28	-90.00	1,707.20	-1,381.71	2,815.94	2,499.65	316.29	8.903			
14,800.00	10,470.00	10,429.61	10,425.00	84.07	274.28	-90.00	1,707.20	-1,381.71	2,904.66	2,588.59	316.07	9.190			
14,900.00	10,470.00	10,429.61	10,425.00	85.96	274.28	-90.00	1,707.20	-1,381.71	2,994.09	2,678.23	315.86	9.479			
15,000.00	10,470.00	10,429.61	10,425.00	87.85	274.28	-90.00	1,707.20	-1,381.71	3,084.16	2,768.51	315.66	9.771			

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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 305H - 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 (°)	Offset Wellbore Centre +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	179.64	-80.00	0.50	80.00				
100.00	100.00	101.00	101.00	0.64	0.65	179.64	-80.00	0.50	80.00	78.71	1.29	61.867	
200.00	200.00	201.00	201.00	1.34	1.34	179.64	-80.00	0.50	80.00	77.32	2.68	29.860	
300.00	300.00	301.00	301.00	1.81	1.81	179.64	-80.00	0.50	80.00	76.38	3.62	22.094	
400.00	400.00	401.00	401.00	2.18	2.19	179.64	-80.00	0.50	80.00	75.63	4.37	18.307	
500.00	500.00	501.00	501.00	2.51	2.51	179.64	-80.00	0.50	80.00	74.99	5.01	15.957	
600.00	600.00	601.00	601.00	2.79	2.80	179.64	-80.00	0.50	80.00	74.41	5.59	14.316	
700.00	700.00	701.00	701.00	3.06	3.06	179.64	-80.00	0.50	80.00	73.89	6.11	13.087	
800.00	800.00	801.00	801.00	3.30	3.30	179.64	-80.00	0.50	80.00	73.40	6.60	12.120	
900.00	900.00	901.00	901.00	3.53	3.53	179.64	-80.00	0.50	80.00	72.94	7.06	11.334	
1,000.00	1,000.00	1,001.00	1,001.00	3.74	3.75	179.64	-80.00	0.50	80.00	72.51	7.49	10.679	
1,100.00	1,100.00	1,101.00	1,101.00	3.95	3.95	179.64	-80.00	0.50	80.00	72.10	7.90	10.121	
1,200.00	1,200.00	1,201.00	1,201.00	4.15	4.15	179.64	-80.00	0.50	80.00	71.70	8.30	9.639	
1,300.00	1,300.00	1,301.00	1,301.00	4.34	4.34	179.64	-80.00	0.50	80.00	71.32	8.68	9.216	
1,400.00	1,400.00	1,401.00	1,401.00	4.52	4.53	179.64	-80.00	0.50	80.00	70.95	9.05	8.842	
1,416.33	1,416.33	1,417.33	1,417.33	4.55	4.55	179.64	-80.00	0.50	80.00	70.90	9.11	8.785 CC	
1,500.00	1,500.00	1,500.99	1,500.99	4.70	4.70	179.64	-80.00	0.50	80.00	70.60	9.40	8.507	
1,600.00	1,599.99	1,600.00	1,599.99	4.82	4.82	-30.96	-80.86	0.66	80.12	70.48	9.64	8.311	
1,600.21	1,600.20	1,600.00	1,599.99	4.82	4.82	-30.96	-80.86	0.66	80.12	70.48	9.64	8.311 ES	
1,700.00	1,699.96	1,698.25	1,698.21	4.97	4.96	-32.20	-83.37	1.12	80.45	70.53	9.92	8.108	
1,800.00	1,799.86	1,796.82	1,796.69	5.14	5.12	-34.26	-87.56	1.90	81.09	70.86	10.23	7.924	
1,900.00	1,899.68	1,895.34	1,895.02	5.32	5.30	-37.08	-93.41	2.98	82.15	71.58	10.57	7.771	
2,000.00	1,999.37	1,993.76	1,993.15	5.53	5.51	-40.58	-100.91	4.37	83.79	72.85	10.94	7.661	
2,100.00	2,098.90	2,092.09	2,091.04	5.76	5.73	-44.65	-110.05	6.07	86.21	74.88	11.32	7.612	
2,199.78	2,198.04	2,190.07	2,188.40	6.02	5.98	-49.13	-120.81	8.06	89.59	77.86	11.73	7.639	
2,200.00	2,198.26	2,190.29	2,188.62	6.02	5.98	-49.14	-120.84	8.06	89.59	77.87	11.73	7.640	
2,300.00	2,297.52	2,289.77	2,287.36	6.29	6.25	-53.64	-132.76	10.27	93.99	81.84	12.15	7.733	
2,400.00	2,396.77	2,389.42	2,386.26	6.58	6.53	-57.72	-144.70	12.48	98.92	86.34	12.59	7.860	
2,500.00	2,496.03	2,489.06	2,485.16	6.88	6.83	-61.40	-156.65	14.69	104.31	91.29	13.02	8.013	
2,600.00	2,595.28	2,588.70	2,584.06	7.19	7.14	-64.70	-168.59	16.91	110.09	96.64	13.45	8.186	
2,700.00	2,694.54	2,688.34	2,682.96	7.52	7.46	-67.67	-180.54	19.12	116.19	102.31	13.88	8.372	
2,800.00	2,793.79	2,789.29	2,783.19	7.85	7.75	-70.44	-192.36	21.31	122.33	108.06	14.27	8.573	
2,900.00	2,893.05	2,891.82	2,885.24	8.19	8.17	-73.55	-202.06	23.10	126.80	112.06	14.74	8.602	
3,000.00	2,992.30	2,994.30	2,987.47	8.54	8.64	-77.14	-209.07	24.40	129.45	114.25	15.20	8.518	
3,100.00	3,091.56	3,096.58	3,089.65	8.89	9.08	-81.34	-213.37	25.20	130.52	114.96	15.56	8.389	
3,200.00	3,190.81	3,198.51	3,191.56	9.25	9.25	-86.27	-214.99	25.50	130.38	114.69	15.68	8.313	
3,269.88	3,260.17	3,268.12	3,261.17	9.51	9.34	-90.00	-215.00	25.50	130.11	114.36	15.74	8.264	
3,300.00	3,290.07	3,298.01	3,291.07	9.62	9.38	-91.60	-215.00	25.50	130.16	114.39	15.77	8.251	
3,400.00	3,389.32	3,397.27	3,390.32	9.99	9.45	-96.90	-215.00	25.50	131.07	115.17	15.90	8.242	
3,500.00	3,488.58	3,496.52	3,489.58	10.36	9.53	-102.07	-215.00	25.50	133.09	117.00	16.10	8.267	
3,600.00	3,587.83	3,595.78	3,588.83	10.74	9.61	-107.06	-215.00	25.50	136.18	119.81	16.37	8.318	
3,657.24	3,644.64	3,652.59	3,645.64	10.93	9.65	-109.80	-215.00	25.50	138.40	121.86	16.54	8.367	
3,700.00	3,687.11	3,695.06	3,688.11	11.08	9.69	-111.73	-215.00	25.50	140.18	123.50	16.67	8.407	
3,800.00	3,786.63	3,794.58	3,787.63	11.50	9.77	-115.37	-215.00	25.50	144.10	127.04	17.06	8.447	
3,900.00	3,886.37	3,894.32	3,887.37	11.95	9.84	-117.93	-215.00	25.50	147.32	129.85	17.46	8.436	
4,000.00	3,986.27	3,994.21	3,987.27	12.37	9.92	-119.50	-215.00	25.50	149.50	131.67	17.83	8.383	
4,100.00	4,086.25	4,094.19	4,087.25	12.73	10.00	-120.15	-215.00	25.50	150.46	132.32	18.15	8.291	
4,123.75	4,110.00	4,117.95	4,111.00	12.76	10.02	90.00	-215.00	25.50	150.50	132.32	18.18	8.278	
4,200.00	4,186.25	4,194.19	4,187.25	12.78	10.08	90.00	-215.00	25.50	150.50	132.22	18.28	8.231	
4,300.00	4,286.25	4,294.19	4,287.25	12.83	10.16	90.00	-215.00	25.50	150.50	132.06	18.44	8.161	
4,400.00	4,386.25	4,394.19	4,387.25	12.89	10.24	90.00	-215.00	25.50	150.50	131.90	18.60	8.091	
4,500.00	4,486.25	4,494.19	4,487.25	12.94	10.32	90.00	-215.00	25.50	150.50	131.74	18.76	8.021	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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 305H - 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
4,600.00	4,586.25	4,594.19	4,587.25	13.00	10.39	90.00	-215.00	25.50	150.50	131.58	18.92	7.953	
4,700.00	4,686.25	4,694.19	4,687.25	13.05	10.47	90.00	-215.00	25.50	150.50	131.42	19.08	7.886	
4,800.00	4,786.25	4,794.19	4,787.25	13.11	10.55	90.00	-215.00	25.50	150.50	131.26	19.24	7.820	
4,900.00	4,886.25	4,894.19	4,887.25	13.16	10.63	90.00	-215.00	25.50	150.50	131.09	19.41	7.756	
5,000.00	4,986.25	4,994.19	4,987.25	13.22	10.71	90.00	-215.00	25.50	150.50	130.93	19.57	7.692	
5,100.00	5,086.25	5,094.19	5,087.25	13.27	10.79	90.00	-215.00	25.50	150.50	130.77	19.73	7.629	
5,200.00	5,186.25	5,194.19	5,187.25	13.33	10.87	90.00	-215.00	25.50	150.50	130.61	19.89	7.568	
5,300.00	5,286.25	5,294.19	5,287.25	13.39	10.95	90.00	-215.00	25.50	150.50	130.45	20.05	7.507	
5,400.00	5,386.25	5,394.19	5,387.25	13.44	11.03	90.00	-215.00	25.50	150.50	130.29	20.21	7.448	
5,500.00	5,486.25	5,494.19	5,487.25	13.50	11.11	90.00	-215.00	25.50	150.50	130.13	20.37	7.389	
5,600.00	5,586.25	5,594.19	5,587.25	13.56	11.19	90.00	-215.00	25.50	150.50	129.97	20.53	7.331	
5,700.00	5,686.25	5,694.19	5,687.25	13.62	11.26	90.00	-215.00	25.50	150.50	129.81	20.69	7.274	
5,800.00	5,786.25	5,794.19	5,787.25	13.67	11.34	90.00	-215.00	25.50	150.50	129.65	20.85	7.218	
5,900.00	5,886.25	5,894.19	5,887.25	13.73	11.42	90.00	-215.00	25.50	150.50	129.49	21.01	7.163	
6,000.00	5,986.25	5,994.19	5,987.25	13.79	11.50	90.00	-215.00	25.50	150.50	129.33	21.17	7.109	
6,100.00	6,086.25	6,094.19	6,087.25	13.85	11.58	90.00	-215.00	25.50	150.50	129.17	21.33	7.055	
6,200.00	6,186.25	6,194.19	6,187.25	13.91	11.66	90.00	-215.00	25.50	150.50	129.01	21.49	7.003	
6,300.00	6,286.25	6,294.19	6,287.25	13.97	11.74	90.00	-215.00	25.50	150.50	128.85	21.65	6.951	
6,400.00	6,386.25	6,394.19	6,387.25	14.03	11.82	90.00	-215.00	25.50	150.50	128.69	21.81	6.900	
6,500.00	6,486.25	6,494.19	6,487.25	14.09	11.90	90.00	-215.00	25.50	150.50	128.53	21.97	6.849	
6,600.00	6,586.25	6,594.19	6,587.25	14.15	11.98	90.00	-215.00	25.50	150.50	128.37	22.13	6.800	
6,700.00	6,686.25	6,694.19	6,687.25	14.21	12.06	90.00	-215.00	25.50	150.50	128.21	22.29	6.751	
6,800.00	6,786.25	6,794.19	6,787.25	14.27	12.14	90.00	-215.00	25.50	150.50	128.05	22.45	6.703	
6,900.00	6,886.25	6,894.19	6,887.25	14.33	12.22	90.00	-215.00	25.50	150.50	127.89	22.61	6.655	
7,000.00	6,986.25	6,994.19	6,987.25	14.39	12.30	90.00	-215.00	25.50	150.50	127.72	22.78	6.608	
7,100.00	7,086.25	7,094.19	7,087.25	14.45	12.38	90.00	-215.00	25.50	150.50	127.56	22.94	6.562	
7,200.00	7,186.25	7,194.19	7,187.25	14.51	12.46	90.00	-215.00	25.50	150.50	127.40	23.10	6.516	
7,300.00	7,286.25	7,294.19	7,287.25	14.57	12.54	90.00	-215.00	25.50	150.50	127.24	23.26	6.471	
7,400.00	7,386.25	7,394.19	7,387.25	14.63	12.62	90.00	-215.00	25.50	150.50	127.08	23.42	6.427	
7,500.00	7,486.25	7,494.19	7,487.25	14.69	12.70	90.00	-215.00	25.50	150.50	126.92	23.58	6.383	
7,600.00	7,586.25	7,594.19	7,587.25	14.76	12.78	90.00	-215.00	25.50	150.50	126.76	23.74	6.340	
7,700.00	7,686.25	7,694.19	7,687.25	14.82	12.86	90.00	-215.00	25.50	150.50	126.60	23.90	6.297	
7,800.00	7,786.25	7,794.19	7,787.25	14.88	12.94	90.00	-215.00	25.50	150.50	126.44	24.06	6.255	
7,900.00	7,886.25	7,894.19	7,887.25	14.94	13.02	90.00	-215.00	25.50	150.50	126.28	24.22	6.214	
8,000.00	7,986.25	7,994.19	7,987.25	15.01	13.10	90.00	-215.00	25.50	150.50	126.12	24.38	6.173	
8,100.00	8,086.25	8,094.19	8,087.25	15.07	13.18	90.00	-215.00	25.50	150.50	125.96	24.54	6.133	
8,200.00	8,186.25	8,194.19	8,187.25	15.13	13.26	90.00	-215.00	25.50	150.50	125.80	24.70	6.093	
8,300.00	8,286.25	8,294.19	8,287.25	15.20	13.34	90.00	-215.00	25.50	150.50	125.64	24.86	6.053	
8,400.00	8,386.25	8,394.19	8,387.25	15.26	13.42	90.00	-215.00	25.50	150.50	125.48	25.02	6.015	
8,500.00	8,486.25	8,494.19	8,487.25	15.32	13.49	90.00	-215.00	25.50	150.50	125.32	25.18	5.976	
8,600.00	8,586.25	8,594.19	8,587.25	15.39	13.57	90.00	-215.00	25.50	150.50	125.16	25.34	5.938	
8,700.00	8,686.25	8,694.19	8,687.25	15.45	13.65	90.00	-215.00	25.50	150.50	125.00	25.50	5.901	
8,800.00	8,786.25	8,794.19	8,787.25	15.51	13.73	90.00	-215.00	25.50	150.50	124.84	25.66	5.864	
8,900.00	8,886.25	8,894.19	8,887.25	15.58	13.82	90.00	-215.00	25.50	150.50	124.67	25.83	5.828	
9,000.00	8,986.25	8,994.19	8,987.25	15.64	13.90	90.00	-215.00	25.50	150.50	124.51	25.99	5.792	
9,100.00	9,086.25	9,094.21	9,087.27	15.71	13.97	90.00	-215.00	25.50	150.50	124.36	26.14	5.757	
9,200.00	9,186.25	9,200.37	9,192.55	15.77	13.95	85.56	-203.52	22.74	148.28	121.86	26.42	5.613	
9,279.71	9,265.95	9,278.45	9,266.95	15.82	13.92	76.47	-180.77	17.27	146.32	119.46	26.87	5.447	
9,300.00	9,286.25	9,296.95	9,283.94	15.84	13.91	73.62	-173.68	15.56	146.54	119.52	27.02	5.423	
9,400.00	9,386.25	9,378.72	9,355.19	15.90	13.89	58.59	-134.86	6.22	157.06	128.94	28.12	5.585	
9,500.00	9,486.25	9,445.17	9,407.41	15.97	13.87	45.38	-94.98	-3.37	188.60	158.97	29.63	6.364	
9,600.00	9,586.25	9,500.00	9,445.86	16.03	13.86	35.46	-57.03	-12.50	240.00	208.95	31.05	7.729	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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 305H - 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
9,700.00	9,686.25	9,542.69	9,472.56	16.10	13.85	28.82	-24.66	-20.29	305.43	273.20	32.23	9.478	
9,800.00	9,786.25	9,575.00	9,490.79	16.16	13.84	24.56	1.36	-26.14	380.10	346.91	33.19	11.453	
9,900.00	9,886.25	9,600.00	9,503.71	16.23	13.84	21.75	22.35	-30.30	460.87	426.86	34.01	13.552	
9,999.75	9,986.00	9,625.00	9,515.57	16.29	13.84	19.33	44.02	-34.14	545.52	510.86	34.67	15.737	
10,000.00	9,986.25	9,625.00	9,515.57	16.29	13.84	19.33	44.02	-34.14	545.73	511.07	34.67	15.742	
10,025.00	10,011.23	9,625.00	9,515.57	16.28	13.84	4.70	44.02	-34.14	567.15	532.28	34.87	16.266	
10,050.00	10,036.15	9,635.64	9,520.28	16.26	13.84	3.58	53.43	-35.66	587.97	552.99	34.97	16.811	
10,075.00	10,060.94	9,641.58	9,522.83	16.23	13.83	2.95	58.74	-36.49	608.31	573.18	35.13	17.318	
10,100.00	10,085.51	9,650.00	9,526.33	16.20	13.83	2.28	66.31	-37.63	628.11	592.85	35.26	17.814	
10,125.00	10,109.82	9,650.00	9,526.33	16.16	13.83	2.14	66.31	-37.63	647.35	611.88	35.46	18.254	
10,150.00	10,133.78	9,660.69	9,530.58	16.13	13.83	1.51	76.02	-39.02	665.94	630.35	35.59	18.714	
10,175.00	10,157.34	9,667.43	9,533.16	16.09	13.83	1.14	82.19	-39.86	683.94	648.20	35.74	19.136	
10,200.00	10,180.43	9,675.00	9,535.95	16.05	13.83	0.79	89.17	-40.78	701.32	665.43	35.89	19.540	
10,225.00	10,202.99	9,675.00	9,535.95	16.01	13.83	0.75	89.17	-40.78	718.12	682.02	36.09	19.895	
10,250.00	10,224.95	9,688.63	9,540.72	15.97	13.84	0.24	101.84	-42.35	734.10	697.89	36.21	20.274	
10,275.00	10,246.26	9,700.00	9,544.42	15.93	13.84	-0.13	112.52	-43.57	749.50	713.16	36.34	20.623	
10,300.00	10,266.85	9,700.00	9,544.42	15.89	13.84	-0.13	112.52	-43.57	764.16	727.62	36.54	20.911	
10,325.00	10,286.68	9,711.06	9,547.80	15.86	13.84	-0.44	122.99	-44.69	778.10	741.42	36.68	21.212	
10,350.00	10,305.68	9,725.00	9,551.71	15.82	13.84	-0.80	136.31	-46.00	791.40	754.59	36.80	21.503	
10,375.00	10,323.80	9,725.00	9,551.71	15.79	13.84	-0.78	136.31	-46.00	803.83	766.82	37.00	21.723	
10,398.38	10,339.92	9,733.99	9,554.04	15.76	13.84	-0.98	144.95	-46.78	814.82	777.68	37.14	21.940	
10,400.00	10,341.00	9,734.50	9,554.17	15.76	13.84	-0.97	145.45	-46.82	815.56	778.41	37.15	21.956	
10,425.00	10,357.27	9,750.00	9,557.80	15.72	13.85	-0.91	160.46	-48.05	826.66	789.40	37.26	22.188	
10,450.00	10,372.58	9,750.00	9,557.80	15.70	13.85	-0.56	160.46	-48.05	836.87	799.42	37.45	22.347	
10,475.00	10,386.90	9,758.96	9,559.69	15.67	13.85	-0.43	169.19	-48.70	846.45	808.85	37.60	22.512	
10,500.00	10,400.18	9,775.00	9,562.68	15.66	13.87	-0.44	184.92	-49.73	855.38	817.66	37.72	22.676	
10,525.00	10,412.40	9,775.00	9,562.68	15.64	13.87	-0.23	184.92	-49.73	863.37	825.47	37.91	22.776	
10,550.00	10,423.51	9,784.35	9,564.19	15.63	13.89	-0.18	194.13	-50.26	870.70	832.64	38.06	22.880	
10,575.00	10,433.49	9,800.00	9,566.32	15.63	13.96	-0.20	209.62	-51.03	877.32	839.14	38.18	22.977	
10,600.00	10,442.31	9,800.00	9,566.32	15.63	13.96	-0.08	209.62	-51.03	883.02	844.66	38.36	23.020	
10,625.00	10,449.94	9,810.43	9,567.48	15.64	14.04	-0.06	219.98	-51.46	887.99	849.49	38.50	23.064	
10,650.00	10,456.37	9,825.00	9,568.73	15.66	14.15	-0.07	234.48	-51.94	892.22	853.59	38.63	23.095	
10,675.00	10,461.58	9,825.00	9,568.73	15.69	14.15	-0.01	234.48	-51.94	895.56	856.77	38.80	23.084	
10,700.00	10,465.54	9,836.96	9,569.44	15.73	14.25	-0.01	246.42	-52.24	898.12	859.19	38.93	23.069	
10,725.00	10,468.26	9,850.00	9,569.89	15.79	14.37	-0.01	259.45	-52.47	899.90	860.84	39.07	23.035	
10,750.00	10,469.73	9,854.78	9,569.97	15.85	14.41	0.00	264.22	-52.53	900.82	861.62	39.21	22.976	
10,766.52	10,470.00	9,860.67	9,570.00	15.91	14.46	0.00	270.12	-52.58	901.00	861.71	39.29	22.934	
10,800.00	10,470.00	9,894.16	9,570.00	16.04	14.78	0.00	303.60	-52.80	901.00	861.59	39.41	22.863	
10,900.00	10,470.00	9,994.16	9,570.00	16.61	15.86	0.00	403.60	-53.46	901.00	861.20	39.80	22.636	
11,000.00	10,470.00	10,094.16	9,570.00	17.47	17.10	0.00	503.60	-54.12	901.00	860.74	40.26	22.377	
11,100.00	10,470.00	10,194.16	9,570.00	18.55	18.45	0.00	603.59	-54.79	901.00	860.22	40.78	22.093	
11,200.00	10,470.00	10,294.16	9,570.00	19.80	19.89	0.00	703.59	-55.45	901.00	859.65	41.35	21.788	
11,300.00	10,470.00	10,394.16	9,570.00	21.16	21.41	0.00	803.59	-56.11	901.00	859.03	41.97	21.466	
11,400.00	10,470.00	10,494.16	9,570.00	22.62	22.99	0.00	903.59	-56.78	901.00	858.36	42.64	21.128	
11,500.00	10,470.00	10,594.16	9,570.00	24.14	24.61	0.00	1,003.59	-57.44	901.00	857.64	43.36	20.779	
11,600.00	10,470.00	10,694.16	9,570.00	25.72	26.28	0.00	1,103.58	-58.10	901.00	856.88	44.12	20.420	
11,700.00	10,470.00	10,794.16	9,570.00	27.35	27.97	0.00	1,203.58	-58.77	901.00	856.07	44.93	20.055	
11,800.00	10,470.00	10,894.16	9,570.00	29.01	29.70	0.00	1,303.58	-59.43	901.00	855.23	45.77	19.686	
11,900.00	10,470.00	10,994.16	9,570.00	30.70	31.44	0.00	1,403.58	-60.09	901.00	854.35	46.65	19.314	
12,000.00	10,470.00	11,094.16	9,570.00	32.42	33.20	0.00	1,503.57	-60.76	901.00	853.43	47.57	18.942	
12,100.00	10,470.00	11,194.16	9,570.00	34.16	34.98	0.00	1,603.57	-61.42	901.00	852.48	48.52	18.571	
12,200.00	10,470.00	11,294.16	9,570.00	35.92	36.78	0.00	1,703.57	-62.08	901.00	851.50	49.50	18.203	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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 305H - 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)			
12,266.46	10,470.00	11,360.62	9,570.00	37.10	37.98	0.00	1,770.03	-62.52	901.00	850.83	50.17	17.960	
12,300.00	10,470.00	11,394.16	9,570.00	37.69	38.58	0.00	1,803.57	-62.75	901.00	850.49	50.51	17.839	
12,400.00	10,470.00	11,494.16	9,570.00	39.48	40.40	0.00	1,903.57	-63.41	901.00	849.45	51.55	17.479	
12,500.00	10,470.00	11,594.16	9,570.00	41.28	42.22	0.00	2,003.56	-64.07	901.00	848.39	52.61	17.125	
12,600.00	10,470.00	11,694.16	9,570.00	43.08	44.05	0.00	2,103.56	-64.74	901.00	847.30	53.70	16.778	
12,700.00	10,470.00	11,794.16	9,570.00	44.90	45.89	0.00	2,203.56	-65.40	901.00	846.19	54.81	16.437	
12,800.00	10,470.00	11,894.16	9,570.00	46.73	47.73	0.00	2,303.56	-66.06	901.00	845.05	55.95	16.104	
12,900.00	10,470.00	11,994.16	9,570.00	48.56	49.58	0.00	2,403.55	-66.73	901.00	843.89	57.11	15.778	
13,000.00	10,470.00	12,094.16	9,570.00	50.40	51.43	0.00	2,503.55	-67.39	901.00	842.72	58.28	15.460	
13,100.00	10,470.00	12,194.16	9,570.00	52.24	53.29	0.00	2,603.55	-68.05	901.00	841.53	59.47	15.150	
13,200.00	10,470.00	12,294.16	9,570.00	54.09	55.15	0.00	2,703.55	-68.71	901.00	840.32	60.68	14.848	
13,300.00	10,470.00	12,394.16	9,570.00	55.94	57.02	0.00	2,803.55	-69.38	901.00	839.09	61.91	14.553	
13,400.00	10,470.00	12,494.16	9,570.00	57.80	58.89	0.00	2,903.54	-70.04	901.00	837.85	63.15	14.267	
13,500.00	10,470.00	12,594.16	9,570.00	59.66	60.76	0.00	3,003.54	-70.70	901.00	836.59	64.41	13.989	
13,600.00	10,470.00	12,694.16	9,570.00	61.52	62.63	0.00	3,103.54	-71.37	901.00	835.32	65.68	13.719	
13,700.00	10,470.00	12,794.16	9,570.00	63.39	64.51	0.00	3,203.54	-72.03	901.00	834.04	66.96	13.456	
13,800.00	10,470.00	12,894.16	9,570.00	65.26	66.39	0.00	3,303.54	-72.69	901.00	832.75	68.25	13.201	
13,900.00	10,470.00	12,994.16	9,570.00	67.13	68.27	0.00	3,403.53	-73.36	901.00	831.44	69.56	12.953	
14,000.00	10,470.00	13,094.16	9,570.00	69.01	70.15	0.00	3,503.53	-74.02	901.00	830.13	70.87	12.713	
14,100.00	10,470.00	13,194.16	9,570.00	70.88	72.04	0.00	3,603.53	-74.68	901.00	828.80	72.20	12.479	
14,200.00	10,470.00	13,294.16	9,570.00	72.76	73.92	0.00	3,703.53	-75.35	901.00	827.47	73.53	12.253	
14,300.00	10,470.00	13,394.16	9,570.00	74.64	75.81	0.00	3,803.52	-76.01	901.00	826.12	74.88	12.033	
14,400.00	10,470.00	13,494.16	9,570.00	76.52	77.70	0.00	3,903.52	-76.67	901.00	824.77	76.23	11.819	
14,500.00	10,470.00	13,594.16	9,570.00	78.41	79.59	0.00	4,003.52	-77.34	901.00	823.41	77.59	11.612	
14,600.00	10,470.00	13,694.16	9,570.00	80.29	81.48	0.00	4,103.52	-78.00	901.00	822.04	78.96	11.411	
14,700.00	10,470.00	13,794.16	9,570.00	82.18	83.37	0.00	4,203.52	-78.66	901.00	820.66	80.34	11.215	
14,800.00	10,470.00	13,894.16	9,570.00	84.07	85.26	0.00	4,303.51	-79.33	901.00	819.28	81.72	11.025	
14,900.00	10,470.00	13,994.16	9,570.00	85.96	87.16	0.00	4,403.51	-79.99	901.00	817.89	83.11	10.841	
15,000.00	10,470.00	14,094.16	9,570.00	87.85	89.05	0.00	4,503.51	-80.65	901.00	816.49	84.51	10.662	
15,100.00	10,470.00	14,194.16	9,570.00	89.74	90.95	0.00	4,603.51	-81.32	901.00	815.09	85.91	10.488	
15,200.00	10,470.00	14,294.16	9,570.00	91.63	92.84	0.00	4,703.50	-81.98	901.00	813.68	87.32	10.319	
15,300.00	10,470.00	14,394.16	9,570.00	93.52	94.74	0.00	4,803.50	-82.64	901.00	812.27	88.73	10.154	
15,400.00	10,470.00	14,494.16	9,570.00	95.42	96.64	0.00	4,903.50	-83.31	901.00	810.85	90.15	9.995	
15,500.00	10,470.00	14,594.16	9,570.00	97.31	98.54	0.00	5,003.50	-83.97	901.00	809.43	91.57	9.839	
15,600.00	10,470.00	14,694.16	9,570.00	99.21	100.43	0.00	5,103.50	-84.63	901.00	808.00	93.00	9.688	
15,700.00	10,470.00	14,794.16	9,570.00	101.10	102.33	0.00	5,203.49	-85.30	901.00	806.57	94.43	9.541	
15,800.00	10,470.00	14,894.16	9,570.00	103.00	104.23	0.00	5,303.49	-85.96	901.00	805.13	95.87	9.398	
15,900.00	10,470.00	14,994.16	9,570.00	104.90	106.13	0.00	5,403.49	-86.62	901.00	803.69	97.31	9.259	
16,000.00	10,470.00	15,094.16	9,570.00	106.79	108.04	0.00	5,503.49	-87.28	901.00	802.24	98.76	9.124	
16,100.00	10,470.00	15,194.16	9,570.00	108.69	109.94	0.00	5,603.48	-87.95	901.00	800.80	100.20	8.992	
16,200.00	10,470.00	15,294.16	9,570.00	110.59	111.84	0.00	5,703.48	-88.61	901.00	799.34	101.66	8.863	
16,300.00	10,470.00	15,394.16	9,570.00	112.49	113.74	0.00	5,803.48	-89.27	901.00	797.89	103.11	8.738	
16,400.00	10,470.00	15,494.16	9,570.00	114.39	115.64	0.00	5,903.48	-89.94	901.00	796.43	104.57	8.616	
16,500.00	10,470.00	15,594.16	9,570.00	116.29	117.55	0.00	6,003.48	-90.60	901.00	794.97	106.03	8.497	
16,600.00	10,470.00	15,694.16	9,570.00	118.19	119.45	0.00	6,103.47	-91.26	901.00	793.50	107.50	8.382	
16,700.00	10,470.00	15,794.16	9,570.00	120.09	121.35	0.00	6,203.47	-91.93	901.00	792.03	108.97	8.269	
16,800.00	10,470.00	15,894.16	9,570.00	122.00	123.26	0.00	6,303.47	-92.59	901.00	790.56	110.44	8.159	
16,900.00	10,470.00	15,994.16	9,570.00	123.90	125.16	0.00	6,403.47	-93.25	901.00	789.09	111.91	8.051	
17,000.00	10,470.00	16,094.16	9,570.00	125.80	127.07	0.00	6,503.46	-93.92	901.00	787.61	113.39	7.946	
17,100.00	10,470.00	16,194.16	9,570.00	127.70	128.97	0.00	6,603.46	-94.58	901.00	786.14	114.86	7.844	
17,200.00	10,470.00	16,294.16	9,570.00	129.61	130.88	0.00	6,703.46	-95.24	901.00	784.65	116.35	7.744	
17,300.00	10,470.00	16,394.16	9,570.00	131.51	132.78	0.00	6,803.46	-95.91	901.00	783.17	117.83	7.647	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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 305H - 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	10,470.00	16,494.16	9,570.00	133.42	134.69	0.00	6,903.46	-96.57	901.00	781.69	119.31	7.551		
17,500.00	10,470.00	16,594.16	9,570.00	135.32	136.59	0.00	7,003.45	-97.23	901.00	780.20	120.80	7.459		
17,600.00	10,470.00	16,694.16	9,570.00	137.22	138.50	0.00	7,103.45	-97.90	901.00	778.71	122.29	7.368		
17,700.00	10,470.00	16,794.16	9,570.00	139.13	140.41	0.00	7,203.45	-98.56	901.00	777.22	123.78	7.279		
17,800.00	10,470.00	16,894.16	9,570.00	141.03	142.31	0.00	7,303.45	-99.22	901.00	775.72	125.28	7.192		
17,900.00	10,470.00	16,994.16	9,570.00	142.94	144.22	0.00	7,403.44	-99.89	901.00	774.23	126.77	7.107		
18,000.00	10,470.00	17,094.16	9,570.00	144.84	146.13	0.00	7,503.44	-100.55	901.00	772.73	128.27	7.024		
18,100.00	10,470.00	17,194.16	9,570.00	146.75	148.04	0.00	7,603.44	-101.21	901.00	771.23	129.77	6.943		
18,200.00	10,470.00	17,294.16	9,570.00	148.66	149.94	0.00	7,703.44	-101.88	901.00	769.73	131.27	6.864		
18,266.46	10,470.00	17,360.62	9,570.00	149.92	151.21	0.00	7,769.90	-102.32	901.00	768.73	132.27	6.812		
18,300.00	10,470.00	17,394.16	9,570.00	150.56	151.85	0.00	7,803.44	-102.54	901.00	768.23	132.77	6.786		
18,400.00	10,470.00	17,494.16	9,570.00	152.47	153.76	0.00	7,903.43	-103.20	901.00	766.73	134.27	6.710		
18,500.00	10,470.00	17,594.16	9,570.00	154.37	155.67	0.00	8,003.43	-103.87	901.00	765.22	135.78	6.636		
18,600.00	10,470.00	17,694.16	9,570.00	156.28	157.57	0.00	8,103.43	-104.53	901.00	763.72	137.28	6.563		
18,700.00	10,470.00	17,794.16	9,570.00	158.19	159.48	0.00	8,203.43	-105.19	901.00	762.21	138.79	6.492		
18,800.00	10,470.00	17,894.16	9,570.00	160.10	161.39	0.00	8,303.43	-105.86	901.00	760.70	140.30	6.422		
18,900.00	10,470.00	17,994.16	9,570.00	162.00	163.30	0.00	8,403.42	-106.52	901.00	759.19	141.81	6.353		
19,000.00	10,470.00	18,094.16	9,570.00	163.91	165.21	0.00	8,503.42	-107.18	901.00	757.68	143.32	6.286		
19,100.00	10,470.00	18,194.16	9,570.00	165.82	167.12	0.00	8,603.42	-107.84	901.00	756.16	144.84	6.221		
19,200.00	10,470.00	18,294.16	9,570.00	167.73	169.03	0.00	8,703.42	-108.51	901.00	754.65	146.35	6.156		
19,300.00	10,470.00	18,394.16	9,570.00	169.63	170.93	0.00	8,803.41	-109.17	901.00	753.13	147.87	6.093		
19,400.00	10,470.00	18,494.16	9,570.00	171.54	172.84	0.00	8,903.41	-109.83	901.00	751.62	149.38	6.031		
19,500.00	10,470.00	18,594.16	9,570.00	173.45	174.75	0.00	9,003.41	-110.50	901.00	750.10	150.90	5.971		
19,600.00	10,470.00	18,694.16	9,570.00	175.36	176.66	0.00	9,103.41	-111.16	901.00	748.58	152.42	5.911		
19,700.00	10,470.00	18,794.16	9,570.00	177.27	178.57	0.00	9,203.41	-111.82	901.00	747.06	153.94	5.853		
19,800.00	10,470.00	18,894.16	9,570.00	179.17	180.48	0.00	9,303.40	-112.49	901.00	745.54	155.46	5.796		
19,900.00	10,470.00	18,994.16	9,570.00	181.08	182.39	0.00	9,403.40	-113.15	901.00	744.02	156.98	5.740		
20,000.00	10,470.00	19,094.16	9,570.00	182.99	184.30	0.00	9,503.40	-113.81	901.00	742.50	158.50	5.684		
20,100.00	10,470.00	19,194.16	9,570.00	184.90	186.21	0.00	9,603.40	-114.48	901.00	740.97	160.03	5.630		
20,200.00	10,470.00	19,294.16	9,570.00	186.81	188.12	0.00	9,703.39	-115.14	901.00	739.45	161.55	5.577		
20,300.00	10,470.00	19,394.16	9,570.00	188.72	190.03	0.00	9,803.39	-115.80	901.00	737.92	163.08	5.525		
20,400.00	10,470.00	19,494.16	9,570.00	190.63	191.94	0.00	9,903.39	-116.47	901.00	736.40	164.60	5.474		
20,500.00	10,470.00	19,594.16	9,570.00	192.54	193.85	0.00	10,003.39	-117.13	901.00	734.87	166.13	5.423		
20,600.00	10,470.00	19,694.16	9,570.00	194.45	195.76	0.00	10,103.39	-117.79	901.00	733.34	167.66	5.374		
20,691.52	10,470.00	19,785.67	9,570.00	196.05	197.51	0.00	10,194.90	-118.40	901.00	732.29	168.71	5.341 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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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)			
0.00	0.00	0.00	0.00	0.50	0.50	-90.38	-0.20	-30.00	30.00				
100.00	100.00	100.00	100.00	0.64	0.64	-90.38	-0.20	-30.00	30.00	28.71	1.29	23.296	
200.00	200.00	200.00	200.00	1.34	1.34	-90.38	-0.20	-30.00	30.00	27.33	2.67	11.217	
300.00	300.00	300.00	300.00	1.81	1.81	-90.38	-0.20	-30.00	30.00	26.38	3.62	8.294	
400.00	400.00	400.00	400.00	2.18	2.18	-90.38	-0.20	-30.00	30.00	25.63	4.37	6.870	
500.00	500.00	500.00	500.00	2.51	2.51	-90.38	-0.20	-30.00	30.00	24.99	5.01	5.987	
600.00	600.00	600.00	600.00	2.79	2.79	-90.38	-0.20	-30.00	30.00	24.42	5.59	5.371	
700.00	700.00	700.00	700.00	3.06	3.06	-90.38	-0.20	-30.00	30.00	23.89	6.11	4.909	
800.00	800.00	800.00	800.00	3.30	3.30	-90.38	-0.20	-30.00	30.00	23.40	6.60	4.547	
900.00	900.00	900.00	900.00	3.53	3.53	-90.38	-0.20	-30.00	30.00	22.94	7.06	4.252	
1,000.00	1,000.00	1,000.00	1,000.00	3.74	3.74	-90.38	-0.20	-30.00	30.00	22.51	7.49	4.006	
1,100.00	1,100.00	1,100.00	1,100.00	3.95	3.95	-90.38	-0.20	-30.00	30.00	22.10	7.90	3.796	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	-90.38	-0.20	-30.00	30.00	21.70	8.30	3.615	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	-90.38	-0.20	-30.00	30.00	21.32	8.68	3.457	
1,400.00	1,400.00	1,400.00	1,400.00	4.52	4.52	-90.38	-0.20	-30.00	30.00	20.95	9.05	3.316	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	-90.38	-0.20	-30.00	30.00	20.60	9.40	3.191 CC, ES	
1,600.00	1,599.99	1,599.47	1,599.47	4.82	4.84	60.75	-0.26	-30.86	30.43	20.77	9.66	3.149 SF	
1,700.00	1,699.96	1,698.91	1,698.87	4.97	5.01	64.43	-0.44	-33.44	31.81	21.86	9.96	3.195	
1,800.00	1,799.86	1,798.26	1,798.13	5.14	5.19	69.86	-0.74	-37.74	34.38	24.11	10.26	3.350	
1,900.00	1,899.68	1,897.50	1,897.18	5.32	5.38	76.14	-1.16	-43.75	38.40	27.82	10.58	3.630	
2,000.00	1,999.37	1,996.58	1,995.96	5.53	5.60	82.43	-1.70	-51.45	44.11	33.21	10.90	4.046	
2,100.00	2,098.90	2,095.47	2,094.39	5.76	5.84	88.12	-2.35	-60.84	51.63	40.39	11.23	4.595	
2,199.78	2,198.04	2,193.90	2,192.20	6.02	6.10	92.95	-3.12	-71.87	60.96	49.38	11.58	5.263	
2,200.00	2,198.26	2,194.12	2,192.42	6.02	6.10	92.96	-3.12	-71.89	60.98	49.40	11.58	5.265	
2,300.00	2,297.52	2,292.54	2,290.02	6.29	6.38	96.36	-4.01	-84.59	72.06	60.11	11.96	6.027	
2,400.00	2,396.77	2,390.74	2,387.15	6.58	6.67	98.06	-5.01	-98.93	84.57	72.22	12.36	6.845	
2,500.00	2,496.03	2,488.63	2,483.74	6.88	6.99	98.63	-6.12	-114.88	98.36	85.58	12.78	7.697	
2,600.00	2,595.28	2,586.19	2,579.69	7.19	7.32	98.47	-7.35	-132.40	113.39	100.16	13.23	8.570	
2,700.00	2,694.54	2,683.34	2,674.94	7.52	7.67	97.85	-8.68	-151.47	129.64	115.93	13.71	9.458	
2,800.00	2,793.79	2,780.61	2,769.99	7.85	7.99	96.95	-10.12	-172.09	147.09	132.92	14.17	10.378	
2,900.00	2,893.05	2,878.99	2,866.04	8.19	8.35	96.14	-11.60	-193.34	164.87	150.17	14.70	11.215	
3,000.00	2,992.30	2,977.37	2,962.09	8.54	8.73	95.48	-13.08	-214.59	182.68	167.42	15.26	11.971	
3,100.00	3,091.56	3,075.75	3,058.14	8.89	9.13	94.94	-14.56	-235.83	200.51	184.67	15.83	12.663	
3,200.00	3,190.81	3,174.14	3,154.19	9.25	9.53	94.49	-16.05	-257.08	218.35	201.92	16.42	13.297	
3,300.00	3,290.07	3,272.52	3,250.24	9.62	9.94	94.11	-17.53	-278.32	236.20	219.18	17.02	13.881	
3,400.00	3,389.32	3,370.90	3,346.29	9.99	10.35	93.78	-19.01	-299.57	254.05	236.43	17.62	14.418	
3,500.00	3,488.58	3,469.28	3,442.34	10.36	10.77	93.50	-20.49	-320.82	271.92	253.69	18.23	14.913	
3,600.00	3,587.83	3,567.67	3,538.39	10.74	11.19	93.25	-21.98	-342.06	289.79	270.94	18.85	15.370	
3,657.24	3,644.64	3,623.98	3,593.36	10.93	11.43	93.12	-22.83	-354.22	300.02	280.84	19.19	15.636	
3,700.00	3,687.11	3,666.05	3,634.43	11.08	11.62	93.10	-23.46	-363.31	307.66	288.22	19.43	15.832	
3,800.00	3,786.63	3,764.40	3,730.45	11.50	12.05	92.74	-24.94	-384.54	325.43	305.38	20.04	16.236	
3,900.00	3,886.37	3,862.64	3,826.37	11.95	12.48	92.01	-26.42	-405.76	343.14	322.49	20.65	16.614	
4,000.00	3,986.27	3,960.72	3,922.12	12.37	12.91	90.95	-27.90	-426.94	360.91	339.65	21.25	16.981	
4,100.00	4,086.25	4,058.56	4,017.64	12.73	13.35	89.63	-29.37	-448.07	378.86	357.02	21.85	17.342	
4,123.75	4,110.00	4,081.76	4,040.29	12.76	13.45	-60.55	-29.72	-453.08	383.18	361.21	21.97	17.442	
4,200.00	4,186.25	4,156.20	4,112.96	12.78	13.78	-61.85	-30.85	-469.16	397.15	374.77	22.38	17.744	
4,300.00	4,286.25	4,253.83	4,208.28	12.83	14.22	-63.43	-32.32	-490.24	415.75	392.80	22.95	18.113	
4,400.00	4,386.25	4,351.46	4,303.59	12.89	14.66	-64.87	-33.79	-511.32	434.64	411.11	23.53	18.471	
4,500.00	4,486.25	4,449.09	4,398.90	12.94	15.10	-66.19	-35.26	-532.40	453.78	429.67	24.11	18.820	
4,600.00	4,586.25	4,546.71	4,494.22	13.00	15.55	-67.41	-36.73	-553.49	473.13	448.44	24.69	19.160	
4,700.00	4,686.25	4,644.34	4,589.53	13.05	15.99	-68.53	-38.20	-574.57	492.67	467.40	25.28	19.492	
4,800.00	4,786.25	4,741.97	4,684.85	13.11	16.44	-69.57	-39.67	-595.65	512.38	486.53	25.86	19.816	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.00	4,886.25	4,839.60	4,780.16	13.16	16.89	-70.53	-41.14	-616.74	532.25	505.81	26.44	20.132	
5,000.00	4,986.25	4,937.23	4,875.47	13.22	17.34	-71.42	-42.62	-637.82	552.24	525.22	27.02	20.440	
5,100.00	5,086.25	5,034.86	4,970.79	13.27	17.79	-72.25	-44.09	-658.90	572.36	544.76	27.60	20.739	
5,200.00	5,186.25	5,132.49	5,066.10	13.33	18.24	-73.02	-45.56	-679.99	592.58	564.41	28.18	21.032	
5,300.00	5,286.25	5,230.12	5,161.41	13.39	18.69	-73.74	-47.03	-701.07	612.91	584.15	28.75	21.316	
5,400.00	5,386.25	5,327.74	5,256.73	13.44	19.14	-74.42	-48.50	-722.15	633.32	603.99	29.33	21.593	
5,500.00	5,486.25	5,425.37	5,352.04	13.50	19.59	-75.05	-49.97	-743.24	653.80	623.90	29.90	21.863	
5,600.00	5,586.25	5,523.00	5,447.36	13.56	20.05	-75.65	-51.44	-764.32	674.37	643.89	30.48	22.125	
5,700.00	5,686.25	5,620.63	5,542.67	13.62	20.50	-76.21	-52.92	-785.40	694.99	663.94	31.05	22.381	
5,800.00	5,786.25	5,718.26	5,637.98	13.67	20.96	-76.74	-54.39	-806.49	715.68	684.06	31.63	22.630	
5,900.00	5,886.25	5,815.89	5,733.30	13.73	21.42	-77.24	-55.86	-827.57	736.42	704.23	32.20	22.873	
6,000.00	5,986.25	5,913.52	5,828.61	13.79	21.87	-77.71	-57.33	-848.65	757.22	724.45	32.77	23.109	
6,100.00	6,086.25	6,011.15	5,923.92	13.85	22.33	-78.15	-58.80	-869.73	778.06	744.72	33.34	23.338	
6,200.00	6,186.25	6,108.77	6,019.24	13.91	22.79	-78.58	-60.27	-890.82	798.94	765.03	33.91	23.562	
6,300.00	6,286.25	6,206.40	6,114.55	13.97	23.25	-78.98	-61.74	-911.90	819.87	785.39	34.48	23.780	
6,400.00	6,386.25	6,304.03	6,209.87	14.03	23.70	-79.36	-63.21	-932.98	840.82	805.78	35.05	23.993	
6,500.00	6,486.25	6,401.66	6,305.18	14.09	24.16	-79.72	-64.69	-954.07	861.82	826.21	35.61	24.199	
6,600.00	6,586.25	6,499.29	6,400.49	14.15	24.62	-80.07	-66.16	-975.15	882.84	846.66	36.18	24.401	
6,700.00	6,686.25	6,596.92	6,495.81	14.21	25.08	-80.40	-67.63	-996.23	903.90	867.15	36.75	24.597	
6,800.00	6,786.25	6,694.55	6,591.12	14.27	25.54	-80.71	-69.10	-1,017.32	924.98	887.67	37.31	24.789	
6,900.00	6,886.25	6,792.18	6,686.43	14.33	26.00	-81.01	-70.57	-1,038.40	946.09	908.21	37.88	24.975	
7,000.00	6,986.25	6,889.80	6,781.75	14.39	26.46	-81.30	-72.04	-1,059.48	967.22	928.77	38.45	25.157	
7,100.00	7,086.25	6,987.43	6,877.06	14.45	26.93	-81.58	-73.51	-1,080.57	988.37	949.36	39.01	25.334	
14,900.00	10,470.00	14,002.48	9,570.00	85.96	93.72	-55.71	4,394.76	-1,399.87	1,597.55	1,434.81	162.74	9.817	
15,000.00	10,470.00	14,102.48	9,570.00	87.85	95.46	-55.71	4,494.75	-1,400.53	1,597.55	1,431.69	165.86	9.632	
15,100.00	10,470.00	14,202.48	9,570.00	89.74	97.20	-55.71	4,594.75	-1,401.20	1,597.55	1,428.56	168.99	9.454	
15,200.00	10,470.00	14,302.48	9,570.00	91.63	98.95	-55.71	4,694.75	-1,401.86	1,597.55	1,425.43	172.12	9.282	
15,300.00	10,470.00	14,402.48	9,570.00	93.52	100.71	-55.71	4,794.75	-1,402.52	1,597.55	1,422.29	175.26	9.115	
15,366.67	10,470.00	14,469.15	9,570.00	94.78	101.88	-55.71	4,861.41	-1,402.97	1,597.55	1,420.19	177.36	9.008	
15,400.00	10,470.00	14,502.48	9,570.00	95.42	102.47	-55.71	4,894.75	-1,403.19	1,597.55	1,419.15	178.40	8.955	
15,500.00	10,470.00	14,602.48	9,570.00	97.31	104.23	-55.71	4,994.74	-1,403.85	1,597.55	1,416.00	181.55	8.799	
15,600.00	10,470.00	14,702.48	9,570.00	99.21	106.00	-55.71	5,094.74	-1,404.51	1,597.55	1,412.84	184.71	8.649	
15,700.00	10,470.00	14,802.48	9,570.00	101.10	107.78	-55.71	5,194.74	-1,405.18	1,597.55	1,409.69	187.86	8.504	
15,800.00	10,470.00	14,902.48	9,570.00	103.00	109.56	-55.71	5,294.74	-1,405.84	1,597.55	1,406.53	191.02	8.363	
15,900.00	10,470.00	15,002.48	9,570.00	104.90	111.34	-55.71	5,394.73	-1,406.50	1,597.55	1,403.36	194.19	8.227	
16,000.00	10,470.00	15,102.48	9,570.00	106.79	113.13	-55.71	5,494.73	-1,407.17	1,597.55	1,400.19	197.36	8.095	
16,100.00	10,470.00	15,202.48	9,570.00	108.69	114.92	-55.71	5,594.73	-1,407.83	1,597.55	1,397.02	200.53	7.967	
16,200.00	10,470.00	15,302.48	9,570.00	110.59	116.72	-55.71	5,694.73	-1,408.49	1,597.55	1,393.84	203.71	7.842	
16,300.00	10,470.00	15,402.48	9,570.00	112.49	118.51	-55.71	5,794.73	-1,409.16	1,597.55	1,390.66	206.89	7.722	
16,400.00	10,470.00	15,502.48	9,570.00	114.39	120.32	-55.71	5,894.72	-1,409.82	1,597.55	1,387.48	210.07	7.605	
16,500.00	10,470.00	15,602.48	9,570.00	116.29	122.12	-55.71	5,994.72	-1,410.48	1,597.55	1,384.29	213.26	7.491	
16,600.00	10,470.00	15,702.48	9,570.00	118.19	123.93	-55.71	6,094.72	-1,411.15	1,597.55	1,381.11	216.44	7.381	
16,700.00	10,470.00	15,802.48	9,570.00	120.09	125.74	-55.71	6,194.72	-1,411.81	1,597.55	1,377.91	219.64	7.274	
16,800.00	10,470.00	15,902.48	9,570.00	122.00	127.56	-55.71	6,294.72	-1,412.47	1,597.55	1,374.72	222.83	7.169	
16,900.00	10,470.00	16,002.48	9,570.00	123.90	129.37	-55.71	6,394.71	-1,413.14	1,597.55	1,371.52	226.03	7.068	
17,000.00	10,470.00	16,102.48	9,570.00	125.80	131.19	-55.71	6,494.71	-1,413.80	1,597.55	1,368.33	229.22	6.969	
17,100.00	10,470.00	16,202.48	9,570.00	127.70	133.01	-55.71	6,594.71	-1,414.46	1,597.55	1,365.12	232.43	6.873	
17,200.00	10,470.00	16,302.48	9,570.00	129.61	134.84	-55.71	6,694.71	-1,415.13	1,597.55	1,361.92	235.63	6.780	
17,300.00	10,470.00	16,402.48	9,570.00	131.51	136.67	-55.71	6,794.70	-1,415.79	1,597.55	1,358.72	238.83	6.689	
17,400.00	10,470.00	16,502.48	9,570.00	133.42	138.49	-55.71	6,894.70	-1,416.45	1,597.55	1,355.51	242.04	6.600	
17,500.00	10,470.00	16,602.48	9,570.00	135.32	140.33	-55.71	6,994.70	-1,417.11	1,597.55	1,352.30	245.25	6.514	
17,600.00	10,470.00	16,702.48	9,570.00	137.22	142.16	-55.71	7,094.70	-1,417.78	1,597.55	1,349.09	248.46	6.430	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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)			
17,700.00	10,470.00	16,802.48	9,570.00	139.13	143.99	-55.71	7,194.70	-1,418.44	1,597.55	1,345.87	251.67	6.348	
17,800.00	10,470.00	16,902.48	9,570.00	141.03	145.83	-55.71	7,294.69	-1,419.10	1,597.55	1,342.66	254.89	6.268	
17,900.00	10,470.00	17,002.48	9,570.00	142.94	147.67	-55.71	7,394.69	-1,419.77	1,597.55	1,339.44	258.11	6.190	
18,000.00	10,470.00	17,102.48	9,570.00	144.84	149.51	-55.71	7,494.69	-1,420.43	1,597.55	1,336.22	261.32	6.113	
18,100.00	10,470.00	17,202.48	9,570.00	146.75	151.35	-55.71	7,594.69	-1,421.09	1,597.55	1,333.01	264.54	6.039	
18,200.00	10,470.00	17,302.48	9,570.00	148.66	153.20	-55.71	7,694.68	-1,421.76	1,597.55	1,329.78	267.77	5.966	
18,300.00	10,470.00	17,402.48	9,570.00	150.56	155.05	-55.71	7,794.68	-1,422.42	1,597.55	1,326.56	270.99	5.895	
18,366.67	10,470.00	17,469.15	9,570.00	151.83	156.28	-55.71	7,861.35	-1,422.86	1,597.55	1,324.41	273.14	5.849	
18,400.00	10,470.00	17,502.48	9,570.00	152.47	156.89	-55.71	7,894.68	-1,423.08	1,597.55	1,323.34	274.21	5.826	
18,500.00	10,470.00	17,602.48	9,570.00	154.37	158.74	-55.71	7,994.68	-1,423.75	1,597.55	1,320.11	277.44	5.758	
18,600.00	10,470.00	17,702.48	9,570.00	156.28	160.59	-55.71	8,094.68	-1,424.41	1,597.55	1,316.88	280.66	5.692	
18,700.00	10,470.00	17,802.48	9,570.00	158.19	162.44	-55.71	8,194.67	-1,425.07	1,597.55	1,313.66	283.89	5.627	
18,800.00	10,470.00	17,902.48	9,570.00	160.10	164.30	-55.71	8,294.67	-1,425.74	1,597.55	1,310.43	287.12	5.564	
18,900.00	10,470.00	18,002.48	9,570.00	162.00	166.15	-55.71	8,394.67	-1,426.40	1,597.55	1,307.20	290.35	5.502	
19,000.00	10,470.00	18,102.48	9,570.00	163.91	168.01	-55.71	8,494.67	-1,427.06	1,597.55	1,303.96	293.58	5.442	
19,100.00	10,470.00	18,202.48	9,570.00	165.82	169.87	-55.71	8,594.66	-1,427.73	1,597.55	1,300.73	296.82	5.382	
19,200.00	10,470.00	18,302.48	9,570.00	167.73	171.72	-55.71	8,694.66	-1,428.39	1,597.55	1,297.50	300.05	5.324	
19,300.00	10,470.00	18,402.48	9,570.00	169.63	173.58	-55.71	8,794.66	-1,429.05	1,597.55	1,294.26	303.29	5.267	
19,400.00	10,470.00	18,502.48	9,570.00	171.54	175.45	-55.71	8,894.66	-1,429.72	1,597.55	1,291.03	306.52	5.212	
19,500.00	10,470.00	18,602.48	9,570.00	173.45	177.31	-55.71	8,994.66	-1,430.38	1,597.55	1,287.79	309.76	5.157	
19,600.00	10,470.00	18,702.48	9,570.00	175.36	179.17	-55.71	9,094.65	-1,431.04	1,597.55	1,284.55	313.00	5.104	
19,700.00	10,470.00	18,802.48	9,570.00	177.27	181.03	-55.71	9,194.65	-1,431.71	1,597.55	1,281.31	316.24	5.052	
19,800.00	10,470.00	18,902.48	9,570.00	179.17	182.90	-55.71	9,294.65	-1,432.37	1,597.55	1,278.07	319.48	5.001	
19,900.00	10,470.00	19,002.48	9,570.00	181.08	184.77	-55.71	9,394.65	-1,433.03	1,597.55	1,274.83	322.72	4.950	
20,000.00	10,470.00	19,102.48	9,570.00	182.99	186.63	-55.71	9,494.64	-1,433.70	1,597.55	1,271.59	325.96	4.901	
20,100.00	10,470.00	19,202.48	9,570.00	184.90	188.50	-55.71	9,594.64	-1,434.36	1,597.55	1,268.35	329.20	4.853	
20,200.00	10,470.00	19,302.48	9,570.00	186.81	190.37	-55.71	9,694.64	-1,435.02	1,597.55	1,265.11	332.44	4.805	
20,300.00	10,470.00	19,402.48	9,570.00	188.72	192.24	-55.71	9,794.64	-1,435.69	1,597.55	1,261.86	335.69	4.759	
20,400.00	10,470.00	19,502.48	9,570.00	190.63	194.11	-55.71	9,894.64	-1,436.35	1,597.55	1,258.62	338.93	4.713	
20,500.00	10,470.00	19,602.48	9,570.00	192.54	195.98	-55.71	9,994.63	-1,437.01	1,597.55	1,255.37	342.18	4.669	
20,600.00	10,470.00	19,702.48	9,570.00	194.45	197.85	-55.71	10,094.63	-1,437.67	1,597.55	1,252.13	345.42	4.625	
20,691.52	10,470.00	19,794.00	9,570.00	196.05	199.45	-55.71	10,186.15	-1,438.28	1,597.55	1,249.53	348.02	4.590	



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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	
15,400.00	10,470.00	14,506.30	9,570.00	95.42	95.72	55.75	4,912.32	1,247.08	1,609.61	1,446.71	162.90	9.881	
15,500.00	10,470.00	14,606.30	9,570.00	97.31	97.61	55.75	5,012.32	1,246.42	1,609.61	1,443.49	166.12	9.689	
15,600.00	10,470.00	14,706.30	9,570.00	99.21	99.50	55.75	5,112.32	1,245.75	1,609.61	1,440.26	169.35	9.505	
15,700.00	10,470.00	14,806.30	9,570.00	101.10	101.38	55.75	5,212.32	1,245.09	1,609.61	1,437.03	172.58	9.327	
15,800.00	10,470.00	14,906.30	9,570.00	103.00	103.27	55.75	5,312.31	1,244.43	1,609.61	1,433.80	175.81	9.155	
15,900.00	10,470.00	15,006.30	9,570.00	104.90	105.16	55.75	5,412.31	1,243.76	1,609.61	1,430.57	179.04	8.990	
16,000.00	10,470.00	15,106.30	9,570.00	106.79	107.05	55.75	5,512.31	1,243.10	1,609.61	1,427.33	182.28	8.831	
16,100.00	10,470.00	15,206.30	9,570.00	108.69	108.94	55.75	5,612.31	1,242.44	1,609.61	1,424.09	185.51	8.677	
16,200.00	10,470.00	15,306.30	9,570.00	110.59	110.84	55.75	5,712.31	1,241.77	1,609.61	1,420.86	188.75	8.528	
16,300.00	10,470.00	15,406.30	9,570.00	112.49	112.73	55.75	5,812.30	1,241.11	1,609.61	1,417.62	191.99	8.384	
16,400.00	10,470.00	15,506.30	9,570.00	114.39	114.62	55.75	5,912.30	1,240.45	1,609.61	1,414.37	195.23	8.245	
16,500.00	10,470.00	15,606.30	9,570.00	116.29	116.52	55.75	6,012.30	1,239.78	1,609.61	1,411.13	198.48	8.110	
16,600.00	10,470.00	15,706.30	9,570.00	118.19	118.41	55.75	6,112.30	1,239.12	1,609.61	1,407.89	201.72	7.979	
16,700.00	10,470.00	15,806.30	9,570.00	120.09	120.31	55.75	6,212.29	1,238.46	1,609.61	1,404.64	204.97	7.853	
16,800.00	10,470.00	15,906.30	9,570.00	122.00	122.21	55.75	6,312.29	1,237.79	1,609.61	1,401.39	208.21	7.731	
16,900.00	10,470.00	16,006.30	9,570.00	123.90	124.10	55.75	6,412.29	1,237.13	1,609.61	1,398.15	211.46	7.612	
17,000.00	10,470.00	16,106.30	9,570.00	125.80	126.00	55.75	6,512.29	1,236.47	1,609.61	1,394.90	214.71	7.497	
17,100.00	10,470.00	16,206.30	9,570.00	127.70	127.90	55.75	6,612.29	1,235.80	1,609.61	1,391.65	217.96	7.385	
17,200.00	10,470.00	16,306.30	9,570.00	129.61	129.80	55.75	6,712.28	1,235.14	1,609.61	1,388.39	221.21	7.276	
17,300.00	10,470.00	16,406.30	9,570.00	131.51	131.70	55.75	6,812.28	1,234.48	1,609.61	1,385.14	224.47	7.171	
17,400.00	10,470.00	16,506.30	9,570.00	133.42	133.60	55.75	6,912.28	1,233.81	1,609.61	1,381.89	227.72	7.068	
17,500.00	10,470.00	16,606.30	9,570.00	135.32	135.50	55.75	7,012.28	1,233.15	1,609.61	1,378.63	230.97	6.969	
17,600.00	10,470.00	16,706.30	9,570.00	137.22	137.40	55.75	7,112.28	1,232.49	1,609.61	1,375.38	234.23	6.872	
17,700.00	10,470.00	16,806.30	9,570.00	139.13	139.30	55.75	7,212.27	1,231.82	1,609.61	1,372.12	237.49	6.778	
17,800.00	10,470.00	16,906.30	9,570.00	141.03	141.20	55.75	7,312.27	1,231.16	1,609.61	1,368.86	240.74	6.686	
17,900.00	10,470.00	17,006.30	9,570.00	142.94	143.10	55.75	7,412.27	1,230.50	1,609.61	1,365.61	244.00	6.597	
18,000.00	10,470.00	17,106.30	9,570.00	144.84	145.00	55.75	7,512.27	1,229.84	1,609.61	1,362.35	247.26	6.510	
18,100.00	10,470.00	17,206.30	9,570.00	146.75	146.90	55.75	7,612.26	1,229.17	1,609.61	1,359.09	250.52	6.425	
18,166.09	10,470.00	17,272.39	9,570.00	148.01	148.16	55.75	7,678.36	1,228.73	1,609.61	1,356.93	252.67	6.370	
18,200.00	10,470.00	17,306.30	9,570.00	148.66	148.80	55.75	7,712.26	1,228.51	1,609.61	1,355.83	253.78	6.343	
18,300.00	10,470.00	17,406.30	9,570.00	150.56	150.71	55.75	7,812.26	1,227.85	1,609.61	1,352.57	257.04	6.262	
18,400.00	10,470.00	17,506.30	9,570.00	152.47	152.61	55.75	7,912.26	1,227.18	1,609.61	1,349.31	260.30	6.184	
18,500.00	10,470.00	17,606.30	9,570.00	154.37	154.51	55.75	8,012.26	1,226.52	1,609.61	1,346.05	263.56	6.107	
18,600.00	10,470.00	17,706.30	9,570.00	156.28	156.42	55.75	8,112.25	1,225.86	1,609.61	1,342.78	266.83	6.032	
18,700.00	10,470.00	17,806.30	9,570.00	158.19	158.32	55.75	8,212.25	1,225.19	1,609.61	1,339.52	270.09	5.960	
18,800.00	10,470.00	17,906.30	9,570.00	160.10	160.22	55.75	8,312.25	1,224.53	1,609.61	1,336.26	273.35	5.888	
18,900.00	10,470.00	18,006.30	9,570.00	162.00	162.13	55.75	8,412.25	1,223.87	1,609.61	1,332.99	276.62	5.819	
19,000.00	10,470.00	18,106.30	9,570.00	163.91	164.03	55.75	8,512.24	1,223.20	1,609.61	1,329.73	279.88	5.751	
19,100.00	10,470.00	18,206.30	9,570.00	165.82	165.94	55.75	8,612.24	1,222.54	1,609.61	1,326.46	283.15	5.685	
19,200.00	10,470.00	18,306.30	9,570.00	167.73	167.84	55.75	8,712.24	1,221.88	1,609.61	1,323.20	286.41	5.620	
19,300.00	10,470.00	18,406.30	9,570.00	169.63	169.75	55.75	8,812.24	1,221.21	1,609.61	1,319.93	289.68	5.557	
19,400.00	10,470.00	18,506.30	9,570.00	171.54	171.65	55.75	8,912.24	1,220.55	1,609.61	1,316.66	292.94	5.495	
19,500.00	10,470.00	18,606.30	9,570.00	173.45	173.56	55.75	9,012.23	1,219.89	1,609.61	1,313.40	296.21	5.434	
19,600.00	10,470.00	18,706.30	9,570.00	175.36	175.46	55.75	9,112.23	1,219.22	1,609.61	1,310.13	299.48	5.375	
19,700.00	10,470.00	18,806.30	9,570.00	177.27	177.37	55.75	9,212.23	1,218.56	1,609.61	1,306.86	302.75	5.317	
19,800.00	10,470.00	18,906.30	9,570.00	179.17	179.28	55.75	9,312.23	1,217.90	1,609.61	1,303.59	306.02	5.260	
19,900.00	10,470.00	19,006.30	9,570.00	181.08	181.18	55.75	9,412.22	1,217.23	1,609.61	1,300.32	309.28	5.204	
20,000.00	10,470.00	19,106.30	9,570.00	182.99	183.09	55.75	9,512.22	1,216.57	1,609.61	1,297.06	312.55	5.150	
20,100.00	10,470.00	19,206.30	9,570.00	184.90	184.99	55.75	9,612.22	1,215.91	1,609.61	1,293.79	315.82	5.097	
20,200.00	10,470.00	19,306.30	9,570.00	186.81	186.90	55.75	9,712.22	1,215.24	1,609.61	1,290.52	319.09	5.044 CC	
20,300.00	10,470.00	19,406.30	9,570.00	188.72	188.81	55.75	9,812.22	1,214.58	1,609.61	1,287.25	322.36	4.993	
20,400.00	10,470.00	19,506.30	9,570.00	190.63	190.72	55.75	9,912.21	1,213.92	1,609.61	1,283.98	325.63	4.943	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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		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		
20,500.00	10,470.00	19,606.30	9,570.00	192.54	192.62	55.75	10,012.21	1,213.25	1,609.61	1,280.70	328.90	4.894		
20,600.00	10,470.00	19,706.30	9,570.00	194.45	194.53	55.75	10,112.21	1,212.59	1,609.61	1,277.43	332.17	4.846		
20,660.22	10,470.00	19,766.52	9,570.00	195.50	195.68	55.75	10,172.42	1,212.19	1,609.61	1,275.58	334.03	4.819		
20,691.52	10,470.00	19,795.49	9,570.00	196.05	196.23	55.75	10,201.40	1,212.00	1,609.61	1,274.65	334.96	4.805 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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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	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)			
13,900.00	10,470.00	13,903.55	10,470.00	67.13	67.69	89.74	3,412.36	1,257.03	1,330.43	1,195.80	134.63	9.882	
14,000.00	10,470.00	14,003.55	10,470.00	69.01	69.55	89.74	3,512.35	1,256.36	1,330.43	1,192.06	138.37	9.615	
14,100.00	10,470.00	14,103.55	10,470.00	70.88	71.41	89.74	3,612.35	1,255.70	1,330.43	1,188.31	142.12	9.362	
14,200.00	10,470.00	14,203.55	10,470.00	72.76	73.28	89.74	3,712.35	1,255.04	1,330.43	1,184.56	145.86	9.121	
14,300.00	10,470.00	14,303.55	10,470.00	74.64	75.14	89.74	3,812.35	1,254.37	1,330.43	1,180.81	149.62	8.892	
14,400.00	10,470.00	14,403.55	10,470.00	76.52	77.01	89.74	3,912.35	1,253.71	1,330.43	1,177.06	153.37	8.674	
14,500.00	10,470.00	14,503.55	10,470.00	78.41	78.88	89.74	4,012.34	1,253.05	1,330.43	1,173.30	157.13	8.467	
14,600.00	10,470.00	14,603.55	10,470.00	80.29	80.76	89.74	4,112.34	1,252.38	1,330.43	1,169.53	160.89	8.269	
14,700.00	10,470.00	14,703.55	10,470.00	82.18	82.63	89.74	4,212.34	1,251.72	1,330.43	1,165.77	164.66	8.080	
14,800.00	10,470.00	14,803.55	10,470.00	84.07	84.51	89.74	4,312.34	1,251.06	1,330.43	1,162.00	168.43	7.899	
14,900.00	10,470.00	14,903.55	10,470.00	85.96	86.39	89.74	4,412.33	1,250.40	1,330.43	1,158.23	172.20	7.726	
15,000.00	10,470.00	15,003.55	10,470.00	87.85	88.27	89.74	4,512.33	1,249.73	1,330.43	1,154.45	175.97	7.560	
15,100.00	10,470.00	15,103.55	10,470.00	89.74	90.15	89.74	4,612.33	1,249.07	1,330.43	1,150.68	179.75	7.401	
15,200.00	10,470.00	15,203.55	10,470.00	91.63	92.04	89.74	4,712.33	1,248.41	1,330.43	1,146.90	183.53	7.249	
15,300.00	10,470.00	15,303.55	10,470.00	93.52	93.92	89.74	4,812.33	1,247.74	1,330.43	1,143.12	187.31	7.103	
15,400.00	10,470.00	15,403.55	10,470.00	95.42	95.81	89.74	4,912.32	1,247.08	1,330.43	1,139.34	191.09	6.962	
15,500.00	10,470.00	15,503.55	10,470.00	97.31	97.69	89.74	5,012.32	1,246.42	1,330.43	1,135.55	194.88	6.827	
15,600.00	10,470.00	15,603.55	10,470.00	99.21	99.58	89.74	5,112.32	1,245.75	1,330.43	1,131.77	198.66	6.697	
15,700.00	10,470.00	15,703.55	10,470.00	101.10	101.47	89.74	5,212.32	1,245.09	1,330.43	1,127.98	202.45	6.572	
15,800.00	10,470.00	15,803.55	10,470.00	103.00	103.36	89.74	5,312.31	1,244.43	1,330.43	1,124.19	206.24	6.451	
15,900.00	10,470.00	15,903.55	10,470.00	104.90	105.25	89.74	5,412.31	1,243.76	1,330.43	1,120.40	210.03	6.335	
16,000.00	10,470.00	16,003.55	10,470.00	106.79	107.14	89.74	5,512.31	1,243.10	1,330.43	1,116.61	213.82	6.222	
16,100.00	10,470.00	16,103.55	10,470.00	108.69	109.03	89.74	5,612.31	1,242.44	1,330.43	1,112.81	217.61	6.114	
16,200.00	10,470.00	16,203.55	10,470.00	110.59	110.93	89.74	5,712.31	1,241.77	1,330.43	1,109.02	221.41	6.009	
16,300.00	10,470.00	16,303.55	10,470.00	112.49	112.82	89.74	5,812.30	1,241.11	1,330.43	1,105.22	225.20	5.908	
16,400.00	10,470.00	16,403.55	10,470.00	114.39	114.72	89.74	5,912.30	1,240.45	1,330.43	1,101.43	229.00	5.810	
16,500.00	10,470.00	16,503.55	10,470.00	116.29	116.61	89.74	6,012.30	1,239.78	1,330.43	1,097.63	232.80	5.715	
16,600.00	10,470.00	16,603.55	10,470.00	118.19	118.51	89.74	6,112.30	1,239.12	1,330.43	1,093.83	236.60	5.623	
16,700.00	10,470.00	16,703.55	10,470.00	120.09	120.40	89.74	6,212.29	1,238.46	1,330.43	1,090.03	240.39	5.534	
16,800.00	10,470.00	16,803.55	10,470.00	122.00	122.30	89.74	6,312.29	1,237.79	1,330.43	1,086.23	244.20	5.448	
16,900.00	10,470.00	16,903.55	10,470.00	123.90	124.20	89.74	6,412.29	1,237.13	1,330.43	1,082.43	248.00	5.365	
17,000.00	10,470.00	17,003.55	10,470.00	125.80	126.10	89.74	6,512.29	1,236.47	1,330.43	1,078.63	251.80	5.284	
17,100.00	10,470.00	17,103.55	10,470.00	127.70	128.00	89.74	6,612.29	1,235.80	1,330.43	1,074.83	255.60	5.205	
17,200.00	10,470.00	17,203.55	10,470.00	129.61	129.90	89.74	6,712.28	1,235.14	1,330.43	1,071.02	259.41	5.129	
17,300.00	10,470.00	17,303.55	10,470.00	131.51	131.79	89.74	6,812.28	1,234.48	1,330.43	1,067.22	263.21	5.055	
17,400.00	10,470.00	17,403.55	10,470.00	133.42	133.69	89.74	6,912.28	1,233.81	1,330.43	1,063.41	267.01	4.983	
17,500.00	10,470.00	17,503.55	10,470.00	135.32	135.59	89.74	7,012.28	1,233.15	1,330.43	1,059.61	270.82	4.913	
17,600.00	10,470.00	17,603.55	10,470.00	137.22	137.50	89.74	7,112.28	1,232.49	1,330.43	1,055.80	274.63	4.844	
17,700.00	10,470.00	17,703.55	10,470.00	139.13	139.40	89.74	7,212.27	1,231.82	1,330.43	1,051.99	278.43	4.778	
17,800.00	10,470.00	17,803.55	10,470.00	141.03	141.30	89.74	7,312.27	1,231.16	1,330.43	1,048.19	282.24	4.714	
17,900.00	10,470.00	17,903.55	10,470.00	142.94	143.20	89.74	7,412.27	1,230.50	1,330.43	1,044.38	286.05	4.651	
18,000.00	10,470.00	18,003.55	10,470.00	144.84	145.10	89.74	7,512.27	1,229.84	1,330.43	1,040.57	289.86	4.590	
18,100.00	10,470.00	18,103.55	10,470.00	146.75	147.00	89.74	7,612.26	1,229.17	1,330.43	1,036.76	293.67	4.530	
18,200.00	10,470.00	18,203.55	10,470.00	148.66	148.91	89.74	7,712.26	1,228.51	1,330.43	1,032.95	297.48	4.472	
18,300.00	10,470.00	18,303.55	10,470.00	150.56	150.81	89.74	7,812.26	1,227.85	1,330.43	1,029.14	301.29	4.416	
18,400.00	10,470.00	18,403.55	10,470.00	152.47	152.71	89.74	7,912.26	1,227.18	1,330.43	1,025.33	305.10	4.361	
18,500.00	10,470.00	18,503.55	10,470.00	154.37	154.62	89.74	8,012.26	1,226.52	1,330.43	1,021.52	308.91	4.307	
18,600.00	10,470.00	18,603.55	10,470.00	156.28	156.52	89.74	8,112.25	1,225.86	1,330.43	1,017.71	312.72	4.254	
18,700.00	10,470.00	18,703.55	10,470.00	158.19	158.43	89.74	8,212.25	1,225.19	1,330.43	1,013.90	316.53	4.203	
18,800.00	10,470.00	18,803.55	10,470.00	160.10	160.33	89.74	8,312.25	1,224.53	1,330.43	1,010.08	320.34	4.153	
18,900.00	10,470.00	18,903.55	10,470.00	162.00	162.23	89.74	8,412.25	1,223.87	1,330.43	1,006.27	324.16	4.104	
19,000.00	10,470.00	19,003.55	10,470.00	163.91	164.14	89.74	8,512.24	1,223.20	1,330.43	1,002.46	327.97	4.057	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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		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)			
19,100.00	10,470.00	19,103.55	10,470.00	165.82	166.04	89.74	8,612.24	1,222.54	1,330.43	998.65	331.78	4.010	
19,200.00	10,470.00	19,203.55	10,470.00	167.73	167.95	89.74	8,712.24	1,221.88	1,330.43	994.83	335.60	3.964	
19,300.00	10,470.00	19,303.55	10,470.00	169.63	169.86	89.74	8,812.24	1,221.21	1,330.43	991.02	339.41	3.920	
19,400.00	10,470.00	19,403.55	10,470.00	171.54	171.76	89.74	8,912.24	1,220.55	1,330.43	987.20	343.22	3.876	
19,500.00	10,470.00	19,503.55	10,470.00	173.45	173.67	89.74	9,012.23	1,219.89	1,330.43	983.39	347.04	3.834	
19,600.00	10,470.00	19,603.55	10,470.00	175.36	175.57	89.74	9,112.23	1,219.22	1,330.43	979.57	350.85	3.792	
19,700.00	10,470.00	19,703.55	10,470.00	177.27	177.48	89.74	9,212.23	1,218.56	1,330.43	975.76	354.67	3.751	
19,800.00	10,470.00	19,803.55	10,470.00	179.17	179.39	89.74	9,312.23	1,217.90	1,330.43	971.94	358.48	3.711	
19,900.00	10,470.00	19,903.55	10,470.00	181.08	181.29	89.74	9,412.22	1,217.23	1,330.43	968.13	362.30	3.672	
20,000.00	10,470.00	20,003.55	10,470.00	182.99	183.20	89.74	9,512.22	1,216.57	1,330.43	964.31	366.12	3.634	
20,100.00	10,470.00	20,103.55	10,470.00	184.90	185.11	89.74	9,612.22	1,215.91	1,330.43	960.49	369.93	3.596	
20,200.00	10,470.00	20,203.55	10,470.00	186.81	187.01	89.74	9,712.22	1,215.24	1,330.43	956.68	373.75	3.560 CC	
20,300.00	10,470.00	20,303.55	10,470.00	188.72	188.92	89.74	9,812.22	1,214.58	1,330.43	952.86	377.57	3.524	
20,400.00	10,470.00	20,403.55	10,470.00	190.63	190.83	89.74	9,912.21	1,213.92	1,330.43	949.04	381.38	3.488	
20,500.00	10,470.00	20,503.55	10,470.00	192.54	192.73	89.74	10,012.21	1,213.25	1,330.43	945.23	385.20	3.454	
20,600.00	10,470.00	20,603.55	10,470.00	194.45	194.64	89.74	10,112.21	1,212.59	1,330.43	941.41	389.02	3.420	
20,623.61	10,470.00	20,627.16	10,470.00	194.86	195.09	89.74	10,135.82	1,212.43	1,330.43	940.55	389.88	3.412	
20,691.52	10,470.00	20,692.74	10,470.00	196.05	196.34	89.74	10,201.40	1,212.00	1,330.43	938.12	392.31	3.391 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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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		
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		
7,600.00	7,586.25	7,706.72	7,690.46	14.76	16.20	-88.66	-191.93	-1,111.80	993.21	965.25	27.96	35.521		
7,700.00	7,686.25	7,799.95	7,783.00	14.82	16.40	-88.97	-197.51	-1,101.89	982.44	954.22	28.22	34.817		
7,800.00	7,786.25	7,894.05	7,876.43	14.88	16.62	-89.31	-203.36	-1,092.43	972.27	943.79	28.48	34.144		
7,900.00	7,886.25	7,989.16	7,970.93	14.94	16.84	-89.65	-209.17	-1,083.33	962.63	933.89	28.74	33.498		
8,000.00	7,986.25	8,086.46	8,067.64	15.01	17.07	-90.00	-215.05	-1,074.36	953.37	924.37	29.00	32.871		
8,100.00	8,086.25	8,176.62	8,157.26	15.07	17.29	-90.34	-220.56	-1,066.25	944.41	915.14	29.27	32.270		
8,200.00	8,186.25	8,245.00	8,225.36	15.13	17.48	-90.59	-224.58	-1,061.48	937.61	908.11	29.50	31.785		
8,300.00	8,286.25	8,340.00	8,320.12	15.20	17.77	-90.89	-229.50	-1,057.01	932.98	903.22	29.76	31.351		
8,400.00	8,386.25	8,428.36	8,408.34	15.26	17.98	-91.13	-233.36	-1,054.04	929.64	899.67	29.97	31.016		
8,500.00	8,486.25	8,520.77	8,500.68	15.32	18.19	-91.30	-235.99	-1,051.56	927.02	896.82	30.20	30.693		
8,600.00	8,586.25	8,610.15	8,590.04	15.39	18.34	-91.33	-236.56	-1,050.07	925.37	894.94	30.43	30.414		
8,700.00	8,686.25	8,704.88	8,684.77	15.45	18.47	-91.34	-236.59	-1,049.40	924.66	894.04	30.62	30.200		
8,800.00	8,786.25	8,801.47	8,781.37	15.51	18.60	-91.37	-237.13	-1,049.09	924.36	893.58	30.78	30.035		
8,826.48	8,812.73	8,826.84	8,806.73	15.53	18.64	-91.38	-237.34	-1,049.07	924.34	893.53	30.81	29.999		
8,900.00	8,886.25	8,895.76	8,875.65	15.58	18.71	-91.43	-238.07	-1,049.22	924.52	893.63	30.89	29.931		
9,000.00	8,986.25	8,985.91	8,965.78	15.64	18.79	-91.52	-239.58	-1,050.07	925.51	894.55	30.96	29.890		
9,100.00	9,086.25	9,079.29	9,059.12	15.71	18.84	-91.65	-241.72	-1,051.87	927.50	896.48	31.01	29.908		
9,200.00	9,186.25	9,213.52	9,193.33	15.77	18.92	-91.72	-242.95	-1,053.03	928.55	897.45	31.10	29.857		
9,300.00	9,286.25	9,324.03	9,303.79	15.84	19.05	-91.63	-241.36	-1,050.72	926.40	895.03	31.37	29.528		
9,400.00	9,386.25	9,417.06	9,396.80	15.90	19.12	-91.55	-239.97	-1,048.76	924.25	892.66	31.59	29.261		
9,500.00	9,486.25	9,512.59	9,492.31	15.97	19.22	-91.52	-239.50	-1,047.35	922.76	890.96	31.79	29.023		
9,600.00	9,586.25	9,612.97	9,592.68	16.03	19.37	-91.53	-239.68	-1,046.01	921.43	889.41	32.01	28.782		
9,700.00	9,686.25	9,712.66	9,692.36	16.10	19.54	-91.57	-240.25	-1,044.64	920.07	887.83	32.23	28.544		
9,800.00	9,786.25	9,808.89	9,788.57	16.16	19.71	-91.64	-241.27	-1,043.48	918.89	886.46	32.43	28.333		
9,900.00	9,886.25	9,904.52	9,884.20	16.23	19.88	-91.71	-242.35	-1,042.92	918.33	885.73	32.61	28.165		
9,992.96	9,979.20	9,993.53	9,973.21	16.29	20.01	-91.75	-243.00	-1,042.50	917.93	885.18	32.75	28.032 CC		
9,999.75	9,986.00	9,999.15	9,978.82	16.29	20.02	-91.75	-243.04	-1,042.50	917.93	885.18	32.75	28.026 ES		
10,000.00	9,986.25	9,999.35	9,979.03	16.29	20.02	-91.75	-243.04	-1,042.50	917.93	885.18	32.75	28.026		
10,025.00	10,011.23	10,019.99	9,999.67	16.28	20.04	-105.96	-243.19	-1,042.57	918.21	885.45	32.76	28.026		
10,050.00	10,036.15	10,040.57	10,020.24	16.26	20.06	-105.98	-243.36	-1,042.74	918.96	886.20	32.76	28.050		
10,075.00	10,060.94	10,064.00	10,043.67	16.23	20.08	-106.04	-243.56	-1,043.05	920.21	887.46	32.75	28.096		
10,100.00	10,085.51	10,083.58	10,063.25	16.20	20.08	-106.07	-243.70	-1,043.38	921.91	889.19	32.72	28.179		
10,125.00	10,109.82	10,106.35	10,086.01	16.16	20.07	-106.14	-243.75	-1,043.80	924.05	891.38	32.67	28.284		
10,150.00	10,133.78	10,128.84	10,108.50	16.13	20.06	-106.22	-243.68	-1,044.25	926.63	894.01	32.62	28.408		
10,175.00	10,157.34	10,151.01	10,130.67	16.09	20.06	-106.29	-243.50	-1,044.74	929.66	897.10	32.56	28.549		
10,200.00	10,180.43	10,173.11	10,152.75	16.05	20.04	-106.37	-243.23	-1,045.26	933.17	900.66	32.51	28.707		
10,225.00	10,202.99	10,194.91	10,174.55	16.01	20.01	-106.45	-242.95	-1,045.80	937.15	904.71	32.45	28.883		
10,250.00	10,224.95	10,216.15	10,195.78	15.97	19.98	-106.51	-242.67	-1,046.34	941.64	909.25	32.39	29.074		
10,275.00	10,246.26	10,236.76	10,216.38	15.93	19.95	-106.55	-242.40	-1,046.89	946.64	914.31	32.33	29.280		
10,300.00	10,266.85	10,256.74	10,236.35	15.89	19.93	-106.55	-242.13	-1,047.43	952.20	919.92	32.28	29.502		
10,325.00	10,286.68	10,277.37	10,256.98	15.86	19.90	-106.55	-241.84	-1,047.99	958.30	926.08	32.22	29.740		
10,350.00	10,305.68	10,297.20	10,276.79	15.82	19.87	-106.50	-241.54	-1,048.52	964.96	932.78	32.17	29.991		
10,375.00	10,323.80	10,316.16	10,295.75	15.79	19.85	-106.39	-241.24	-1,049.02	972.19	940.06	32.13	30.255		
10,398.38	10,339.92	10,333.07	10,312.64	15.76	19.82	-106.21	-240.95	-1,049.45	979.50	947.40	32.10	30.512		
10,400.00	10,341.00	10,334.21	10,313.79	15.76	19.82	-106.13	-240.93	-1,049.48	980.03	947.93	32.10	30.530		
10,425.00	10,357.27	10,351.34	10,330.91	15.72	19.80	-104.94	-240.63	-1,049.91	988.22	956.14	32.07	30.810		
10,450.00	10,372.58	10,366.64	10,346.20	15.70	19.78	-103.80	-240.36	-1,050.28	996.60	964.53	32.06	31.082		
14,700.00	10,470.00	15,525.09	11,378.54	82.18	85.44	-132.08	4,173.56	-1,091.48	1,364.95	1,226.24	138.71	9.840		
14,800.00	10,470.00	15,649.26	11,378.98	84.07	87.74	-132.07	4,297.72	-1,092.99	1,365.55	1,223.50	142.05	9.613		
14,805.68	10,470.00	15,654.00	11,378.96	84.17	87.83	-132.07	4,302.47	-1,093.03	1,365.55	1,223.35	142.19	9.603		
14,900.00	10,470.00	15,742.26	11,378.67	85.96	89.47	-132.04	4,390.71	-1,094.53	1,366.04	1,221.20	144.84	9.431		
15,000.00	10,470.00	15,875.20	11,377.65	87.85	91.95	-132.04	4,523.64	-1,094.10	1,364.64	1,216.34	148.31	9.201		

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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												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)			
15,100.00	10,470.00	15,998.57	11,376.38	89.74	94.24	-132.09	4,646.98	-1,091.80	1,362.13	1,210.64	151.50	8.991	
15,200.00	10,470.00	16,085.41	11,374.39	91.63	95.85	-132.09	4,733.78	-1,090.22	1,358.78	1,204.58	154.19	8.812	
15,300.00	10,470.00	16,164.61	11,372.96	93.52	97.33	-132.07	4,812.97	-1,089.92	1,356.79	1,200.02	156.78	8.654	
15,400.00	10,470.00	16,257.95	11,371.68	95.42	99.07	-132.02	4,906.30	-1,090.84	1,356.10	1,196.46	159.64	8.495	
15,478.51	10,470.00	16,326.99	11,370.78	96.90	100.36	-131.98	4,975.32	-1,091.54	1,355.65	1,193.84	161.81	8.378	
15,500.00	10,470.00	16,342.80	11,370.69	97.31	100.66	-131.98	4,991.13	-1,091.77	1,355.69	1,193.35	162.34	8.351	
15,600.00	10,470.00	16,443.30	11,371.06	99.21	102.54	-131.96	5,091.61	-1,093.50	1,356.73	1,191.43	165.30	8.208	
15,700.00	10,470.00	16,560.22	11,371.08	101.10	104.73	-131.98	5,208.53	-1,093.44	1,356.16	1,187.66	168.50	8.048	
15,800.00	10,470.00	16,648.84	11,370.98	103.00	106.39	-131.99	5,297.15	-1,093.43	1,355.60	1,184.41	171.19	7.919	
15,900.00	10,470.00	16,755.37	11,370.91	104.90	108.38	-131.99	5,403.68	-1,094.16	1,355.59	1,181.35	174.25	7.780	
16,000.00	10,470.00	16,849.04	11,370.39	106.79	110.14	-131.98	5,497.35	-1,094.76	1,355.21	1,178.12	177.09	7.653	
16,005.48	10,470.00	16,853.98	11,370.37	106.90	110.23	-131.98	5,502.28	-1,094.80	1,355.20	1,177.97	177.24	7.646	
16,100.00	10,470.00	16,934.43	11,370.35	108.69	111.74	-131.96	5,582.73	-1,095.89	1,355.67	1,175.91	179.76	7.541	
16,200.00	10,470.00	17,023.87	11,370.93	110.59	113.42	-131.94	5,672.15	-1,097.76	1,357.16	1,174.65	182.51	7.436	
16,300.00	10,470.00	17,117.10	11,371.94	112.49	115.17	-131.92	5,765.34	-1,100.08	1,359.24	1,173.90	185.34	7.334	
16,400.00	10,470.00	17,209.29	11,372.54	114.39	116.91	-131.87	5,857.47	-1,103.33	1,361.82	1,173.60	188.21	7.235	
16,500.00	10,470.00	17,321.55	11,373.15	116.29	119.02	-131.79	5,969.65	-1,107.63	1,364.57	1,172.97	191.60	7.122	
16,600.00	10,470.00	17,420.45	11,372.88	118.19	120.89	-131.70	6,068.48	-1,110.99	1,366.43	1,171.73	194.70	7.018	
16,700.00	10,470.00	17,527.57	11,371.67	120.09	122.91	-131.56	6,175.51	-1,115.48	1,368.32	1,170.22	198.11	6.907	
16,800.00	10,470.00	17,682.60	11,366.78	122.00	125.84	-131.34	6,300.41	-1,118.96	1,367.18	1,164.61	202.57	6.749	
16,900.00	10,470.00	17,831.66	11,359.76	123.90	128.65	-131.16	6,479.29	-1,118.27	1,363.37	1,156.79	206.58	6.600	
17,000.00	10,470.00	17,912.00	11,357.13	125.80	130.17	-131.17	6,559.53	-1,115.47	1,358.08	1,148.77	209.32	6.488	
17,100.00	10,470.00	17,980.55	11,357.32	127.70	131.45	-131.28	6,628.00	-1,112.38	1,354.45	1,142.82	211.63	6.400	
17,200.00	10,470.00	18,059.11	11,360.75	129.61	132.92	-131.51	6,706.40	-1,108.59	1,353.16	1,139.42	213.74	6.331	
17,276.25	10,470.00	18,125.92	11,364.64	131.06	134.17	-131.74	6,773.01	-1,105.23	1,352.87	1,137.55	215.32	6.283	
17,300.00	10,470.00	18,146.07	11,365.93	131.51	134.55	-131.81	6,793.10	-1,104.24	1,352.90	1,137.11	215.79	6.269	
17,400.00	10,470.00	18,262.79	11,373.39	133.42	136.73	-132.22	6,909.44	-1,098.74	1,353.29	1,135.15	218.14	6.204	
17,500.00	10,470.00	18,372.44	11,377.60	135.32	138.79	-132.53	7,018.88	-1,093.22	1,351.62	1,131.08	220.55	6.128	
17,600.00	10,470.00	18,469.38	11,380.57	137.22	140.61	-132.76	7,115.68	-1,089.14	1,350.11	1,127.22	222.90	6.057	
17,700.00	10,470.00	18,551.87	11,382.63	139.13	142.16	-132.91	7,198.11	-1,086.84	1,349.30	1,124.14	225.15	5.993	
17,706.13	10,470.00	18,556.79	11,382.75	139.25	142.25	-132.92	7,203.02	-1,086.75	1,349.29	1,124.00	225.29	5.989	
17,800.00	10,470.00	18,639.39	11,384.84	141.03	143.81	-133.02	7,285.60	-1,085.92	1,349.76	1,122.20	227.56	5.932	
17,900.00	10,470.00	18,722.02	11,386.80	142.94	145.38	-133.09	7,368.21	-1,086.16	1,351.12	1,121.20	229.93	5.876	
18,000.00	10,470.00	18,814.83	11,389.39	144.84	147.13	-133.14	7,460.96	-1,087.84	1,353.84	1,121.28	232.57	5.821	
18,100.00	10,470.00	18,920.14	11,390.57	146.75	149.13	-133.11	7,566.22	-1,090.78	1,356.15	1,120.45	235.71	5.754	
18,200.00	10,470.00	19,043.50	11,390.27	148.66	151.47	-133.01	7,689.51	-1,094.72	1,357.91	1,118.48	239.43	5.671	
18,300.00	10,470.00	19,185.80	11,387.34	150.56	154.16	-132.92	7,831.77	-1,095.79	1,356.43	1,113.02	243.41	5.573	
18,400.00	10,470.00	19,273.46	11,384.41	152.47	155.83	-132.83	7,919.39	-1,096.09	1,353.97	1,107.60	246.37	5.496	
18,468.57	10,470.00	19,319.50	11,383.76	153.78	156.70	-132.81	7,965.42	-1,096.48	1,353.40	1,105.36	248.03	5.457	
18,500.00	10,470.00	19,342.48	11,383.78	154.37	157.13	-132.81	7,988.39	-1,096.74	1,353.52	1,104.72	248.79	5.440	
18,600.00	10,470.00	19,462.21	11,384.20	156.28	159.40	-132.83	8,108.13	-1,097.13	1,353.54	1,101.45	252.08	5.369	
18,700.00	10,470.00	19,577.34	11,386.56	158.19	161.59	-133.05	8,223.15	-1,093.00	1,351.77	1,097.05	254.72	5.307	
18,800.00	10,470.00	19,662.04	11,388.65	160.10	163.19	-133.22	8,307.75	-1,089.76	1,350.21	1,093.32	256.89	5.256	
18,842.77	10,470.00	19,694.00	11,389.68	160.91	163.79	-133.29	8,339.69	-1,088.83	1,350.04	1,092.29	257.75	5.238	
18,900.00	10,470.00	19,736.86	11,391.35	162.00	164.60	-133.38	8,382.50	-1,087.85	1,350.34	1,091.48	258.87	5.216	
19,000.00	10,470.00	19,814.00	11,395.41	163.91	166.05	-133.55	8,459.53	-1,086.65	1,352.34	1,091.60	260.74	5.187	
19,100.00	10,470.00	19,981.44	11,403.42	165.82	169.22	-134.03	8,626.60	-1,079.84	1,351.97	1,088.29	263.68	5.127	
19,200.00	10,470.00	20,145.33	11,402.94	167.73	172.30	-134.38	8,790.07	-1,068.68	1,345.75	1,079.42	266.33	5.053	
19,300.00	10,470.00	20,241.96	11,400.35	169.63	174.12	-134.50	8,886.48	-1,062.63	1,338.93	1,070.10	268.83	4.981	
19,400.00	10,470.00	20,323.32	11,397.63	171.54	175.66	-134.55	8,967.69	-1,058.66	1,332.69	1,061.30	271.38	4.911	
19,500.00	10,470.00	20,385.00	11,395.84	173.45	176.83	-134.55	9,029.33	-1,057.20	1,328.63	1,054.87	273.75	4.853	
19,600.00	10,470.00	20,480.00	11,392.75	175.36	178.64	-134.46	9,124.27	-1,057.66	1,326.23	1,049.37	276.86	4.790	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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														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			
19,700.00	10,470.00	20,576.94	11,389.27	177.27	180.49	-134.32	9,221.14	-1,059.31	1,324.45	1,044.29	280.16	4.728			
19,800.00	10,470.00	20,680.54	11,385.88	179.17	182.45	-134.21	9,324.67	-1,060.43	1,322.46	1,038.95	283.51	4.665			
19,900.00	10,470.00	20,775.62	11,382.47	181.08	184.26	-134.08	9,419.68	-1,061.86	1,320.57	1,033.81	286.76	4.605			
20,000.00	10,470.00	20,871.79	11,379.09	182.99	186.09	-133.94	9,515.78	-1,063.65	1,318.99	1,028.91	290.08	4.547			
20,100.00	10,470.00	20,962.55	11,376.19	184.90	187.82	-133.80	9,606.46	-1,065.69	1,317.92	1,024.64	293.27	4.494			
20,178.55	10,470.00	21,031.77	11,374.31	186.40	189.13	-133.70	9,675.63	-1,067.60	1,317.64	1,021.91	295.73	4.456			
20,200.00	10,470.00	21,051.00	11,373.88	186.81	189.50	-133.67	9,694.85	-1,068.17	1,317.66	1,021.26	296.40	4.446			
20,300.00	10,470.00	21,134.03	11,372.65	188.72	191.08	-133.57	9,777.83	-1,070.84	1,318.48	1,019.19	299.29	4.405			
20,400.00	10,470.00	21,223.32	11,372.17	190.63	192.78	-133.47	9,867.05	-1,074.23	1,320.38	1,018.08	302.30	4.368			
20,500.00	10,470.00	21,304.00	11,372.19	192.54	194.32	-133.38	9,947.65	-1,077.98	1,323.31	1,018.27	305.04	4.338			
20,600.00	10,470.00	21,402.97	11,373.45	194.45	196.20	-133.29	10,046.47	-1,083.02	1,327.41	1,019.13	308.28	4.306			
20,691.52	10,470.00	21,490.53	11,374.67	196.05	197.87	-133.22	10,133.93	-1,086.98	1,330.86	1,019.91	310.95	4.280 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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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)			
0.00	0.00	2.00	2.00	0.50	0.50	-165.31	-110.20	-28.90	113.93				
100.00	100.00	102.00	102.00	0.64	0.65	-165.31	-110.20	-28.90	113.93	112.63	1.30	87.739	
200.00	200.00	202.00	202.00	1.34	1.35	-165.31	-110.20	-28.90	113.93	111.24	2.68	42.448	
300.00	300.00	302.00	302.00	1.81	1.82	-165.31	-110.20	-28.90	113.93	110.30	3.62	31.430	
400.00	400.00	402.00	402.00	2.18	2.19	-165.31	-110.20	-28.90	113.93	109.55	4.37	26.051	
500.00	500.00	502.00	502.00	2.51	2.51	-165.31	-110.20	-28.90	113.93	108.91	5.02	22.711	
600.00	600.00	602.00	602.00	2.79	2.80	-165.31	-110.20	-28.90	113.93	108.34	5.59	20.378	
700.00	700.00	702.00	702.00	3.06	3.06	-165.31	-110.20	-28.90	113.93	107.81	6.12	18.629	
800.00	800.00	802.00	802.00	3.30	3.30	-165.31	-110.20	-28.90	113.93	107.32	6.60	17.254	
900.00	900.00	902.00	902.00	3.53	3.53	-165.31	-110.20	-28.90	113.93	106.87	7.06	16.136	
1,000.00	1,000.00	1,002.00	1,002.00	3.74	3.75	-165.31	-110.20	-28.90	113.93	106.43	7.49	15.203	
1,100.00	1,100.00	1,102.00	1,102.00	3.95	3.96	-165.31	-110.20	-28.90	113.93	106.02	7.91	14.409	
1,200.00	1,200.00	1,202.00	1,202.00	4.15	4.15	-165.31	-110.20	-28.90	113.93	105.62	8.30	13.723	
1,300.00	1,300.00	1,302.00	1,302.00	4.34	4.34	-165.31	-110.20	-28.90	113.93	105.24	8.68	13.121	
1,400.00	1,400.00	1,402.00	1,402.00	4.52	4.53	-165.31	-110.20	-28.90	113.93	104.88	9.05	12.588	
1,415.99	1,415.99	1,417.99	1,417.99	4.55	4.56	-165.31	-110.20	-28.90	113.93	104.82	9.11	12.510	
1,500.00	1,500.00	1,501.96	1,501.96	4.70	4.70	-165.31	-110.20	-28.90	113.93	104.52	9.41	12.113	
1,600.00	1,599.99	1,600.00	1,599.99	4.82	4.82	-15.62	-111.06	-29.07	113.97	104.33	9.64	11.823	
1,700.00	1,699.96	1,698.06	1,698.02	4.97	4.96	-16.05	-113.56	-29.55	114.05	104.13	9.93	11.490	
1,800.00	1,799.86	1,796.10	1,795.97	5.14	5.12	-16.76	-117.71	-30.35	114.17	103.93	10.24	11.146	
1,900.00	1,899.68	1,894.13	1,893.82	5.32	5.30	-17.76	-123.51	-31.47	114.36	103.76	10.60	10.792	
2,000.00	1,999.37	1,992.14	1,991.53	5.53	5.50	-19.03	-130.94	-32.90	114.64	103.65	10.99	10.432	
2,100.00	2,098.90	2,090.12	2,089.08	5.76	5.73	-20.57	-140.01	-34.65	115.06	103.64	11.42	10.075	
2,199.78	2,198.04	2,187.86	2,186.21	6.02	5.97	-22.37	-150.69	-36.71	115.65	103.76	11.89	9.729	
2,200.00	2,198.26	2,188.08	2,186.43	6.02	5.97	-22.37	-150.72	-36.71	115.65	103.76	11.89	9.728	
2,300.00	2,297.52	2,287.76	2,285.36	6.29	6.24	-24.32	-162.64	-39.01	116.61	104.20	12.41	9.400	
2,400.00	2,396.77	2,387.68	2,384.54	6.58	6.53	-26.24	-174.59	-41.31	117.72	104.77	12.95	9.093	
2,500.00	2,496.03	2,487.59	2,483.71	6.88	6.82	-28.12	-186.54	-43.62	118.95	105.46	13.50	8.813	
2,600.00	2,595.28	2,590.46	2,585.95	7.19	7.16	-30.12	-197.68	-45.77	119.17	105.06	14.11	8.448	
2,700.00	2,694.54	2,693.44	2,688.57	7.52	7.63	-32.42	-206.12	-47.39	116.90	102.07	14.83	7.884	
2,800.00	2,793.79	2,796.17	2,791.13	7.85	8.09	-35.18	-211.82	-48.49	112.23	96.74	15.49	7.244	
2,900.00	2,893.05	2,898.51	2,893.42	8.19	8.51	-38.65	-214.82	-49.07	105.29	89.24	16.05	6.560	
3,000.00	2,992.30	2,999.39	2,994.30	8.54	8.60	-43.13	-215.32	-49.17	96.52	80.30	16.22	5.951	
3,100.00	3,091.56	3,098.65	3,093.56	8.89	8.68	-48.54	-215.32	-49.17	87.99	71.69	16.30	5.399	
3,200.00	3,190.81	3,197.91	3,192.81	9.25	8.76	-55.02	-215.32	-49.17	80.40	64.12	16.28	4.938	
3,300.00	3,290.07	3,297.16	3,292.07	9.62	8.85	-62.73	-215.32	-49.17	74.06	57.90	16.15	4.585	
3,400.00	3,389.32	3,396.42	3,391.32	9.99	8.93	-71.66	-215.32	-49.17	69.29	53.34	15.95	4.345	
3,500.00	3,488.58	3,495.67	3,490.58	10.36	9.02	-81.61	-215.32	-49.17	66.44	50.67	15.77	4.213	
3,580.20	3,568.18	3,575.27	3,570.18	10.66	9.09	-90.00	-215.32	-49.17	65.72	49.97	15.75	4.172 CC	
3,600.00	3,587.83	3,594.93	3,589.83	10.74	9.11	-92.09	-215.32	-49.17	65.76	49.99	15.78	4.169	
3,657.24	3,644.64	3,651.74	3,646.64	10.93	9.15	-98.07	-215.32	-49.17	66.39	50.50	15.89	4.178	
3,700.00	3,687.11	3,694.21	3,689.11	11.08	9.19	-102.25	-215.32	-49.17	67.27	51.24	16.03	4.196	
3,800.00	3,786.63	3,793.73	3,788.63	11.50	9.28	-110.09	-215.32	-49.17	70.01	53.47	16.54	4.233	
3,900.00	3,886.37	3,893.47	3,888.37	11.95	9.36	-115.42	-215.32	-49.17	72.79	55.68	17.10	4.255	
4,000.00	3,986.27	3,993.36	3,988.27	12.37	9.45	-118.59	-215.32	-49.17	74.85	57.25	17.61	4.251	
4,100.00	4,086.25	4,093.34	4,088.25	12.73	9.53	-119.88	-215.32	-49.17	75.80	57.81	17.98	4.215	
4,123.75	4,110.00	4,117.09	4,112.00	12.76	9.55	90.24	-215.32	-49.17	75.83	57.81	18.02	4.208	
4,200.00	4,186.25	4,193.34	4,188.25	12.78	9.62	90.24	-215.32	-49.17	75.83	57.71	18.13	4.183	
4,300.00	4,286.25	4,293.34	4,288.25	12.83	9.70	90.24	-215.32	-49.17	75.83	57.54	18.29	4.146	
4,400.00	4,386.25	4,393.34	4,388.25	12.89	9.79	90.24	-215.32	-49.17	75.83	57.38	18.46	4.109	
4,500.00	4,486.25	4,493.34	4,488.25	12.94	9.87	90.24	-215.32	-49.17	75.83	57.21	18.62	4.072	
4,600.00	4,586.25	4,593.34	4,588.25	13.00	9.96	90.24	-215.32	-49.17	75.83	57.04	18.79	4.036	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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:													
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
4,700.00	4,686.25	4,693.34	4,688.25	13.05	10.05	90.24	-215.32	-49.17	75.83	56.88	18.95	4.001	
4,800.00	4,786.25	4,793.34	4,788.25	13.11	10.13	90.24	-215.32	-49.17	75.83	56.71	19.12	3.966	
4,900.00	4,886.25	4,893.34	4,888.25	13.16	10.22	90.24	-215.32	-49.17	75.83	56.55	19.29	3.932	
5,000.00	4,986.25	4,993.34	4,988.25	13.22	10.30	90.24	-215.32	-49.17	75.83	56.38	19.45	3.899	
5,100.00	5,086.25	5,093.34	5,088.25	13.27	10.39	90.24	-215.32	-49.17	75.83	56.22	19.62	3.866	
5,200.00	5,186.25	5,193.34	5,188.25	13.33	10.47	90.24	-215.32	-49.17	75.83	56.05	19.78	3.833	
5,300.00	5,286.25	5,293.34	5,288.25	13.39	10.56	90.24	-215.32	-49.17	75.83	55.89	19.95	3.802	
5,400.00	5,386.25	5,393.34	5,388.25	13.44	10.64	90.24	-215.32	-49.17	75.83	55.72	20.11	3.771	
5,500.00	5,486.25	5,493.34	5,488.25	13.50	10.72	90.24	-215.32	-49.17	75.83	55.56	20.28	3.740	
5,600.00	5,586.25	5,593.34	5,588.25	13.56	10.81	90.24	-215.32	-49.17	75.83	55.39	20.44	3.710	
5,700.00	5,686.25	5,693.34	5,688.25	13.62	10.89	90.24	-215.32	-49.17	75.83	55.23	20.61	3.680	
5,800.00	5,786.25	5,793.34	5,788.25	13.67	10.98	90.24	-215.32	-49.17	75.83	55.06	20.77	3.651	
5,900.00	5,886.25	5,893.34	5,888.25	13.73	11.06	90.24	-215.32	-49.17	75.83	54.90	20.94	3.622	
6,000.00	5,986.25	5,993.34	5,988.25	13.79	11.15	90.24	-215.32	-49.17	75.83	54.73	21.10	3.594	
6,100.00	6,086.25	6,093.34	6,088.25	13.85	11.23	90.24	-215.32	-49.17	75.83	54.57	21.26	3.566	
6,200.00	6,186.25	6,193.34	6,188.25	13.91	11.32	90.24	-215.32	-49.17	75.83	54.40	21.43	3.539	
6,300.00	6,286.25	6,293.34	6,288.25	13.97	11.40	90.24	-215.32	-49.17	75.83	54.24	21.59	3.512	
6,400.00	6,386.25	6,393.34	6,388.25	14.03	11.49	90.24	-215.32	-49.17	75.83	54.08	21.76	3.486	
6,500.00	6,486.25	6,493.34	6,488.25	14.09	11.57	90.24	-215.32	-49.17	75.83	53.91	21.92	3.459	
6,600.00	6,586.25	6,593.34	6,588.25	14.15	11.65	90.24	-215.32	-49.17	75.83	53.75	22.08	3.434	
6,700.00	6,686.25	6,693.34	6,688.25	14.21	11.74	90.24	-215.32	-49.17	75.83	53.58	22.25	3.408	
6,800.00	6,786.25	6,793.34	6,788.25	14.27	11.82	90.24	-215.32	-49.17	75.83	53.42	22.41	3.384	
6,900.00	6,886.25	6,893.34	6,888.25	14.33	11.91	90.24	-215.32	-49.17	75.83	53.26	22.58	3.359	
7,000.00	6,986.25	6,993.34	6,988.25	14.39	11.99	90.24	-215.32	-49.17	75.83	53.09	22.74	3.335	
7,100.00	7,086.25	7,093.34	7,088.25	14.45	12.08	90.24	-215.32	-49.17	75.83	52.93	22.90	3.311	
7,200.00	7,186.25	7,193.34	7,188.25	14.51	12.16	90.24	-215.32	-49.17	75.83	52.77	23.07	3.287	
7,300.00	7,286.25	7,293.34	7,288.25	14.57	12.24	90.24	-215.32	-49.17	75.83	52.60	23.23	3.264	
7,400.00	7,386.25	7,393.34	7,388.25	14.63	12.33	90.24	-215.32	-49.17	75.83	52.44	23.39	3.241	
7,500.00	7,486.25	7,493.34	7,488.25	14.69	12.41	90.24	-215.32	-49.17	75.83	52.28	23.56	3.219	
7,600.00	7,586.25	7,593.34	7,588.25	14.76	12.50	90.24	-215.32	-49.17	75.83	52.11	23.72	3.197	
7,700.00	7,686.25	7,693.34	7,688.25	14.82	12.58	90.24	-215.32	-49.17	75.83	51.95	23.89	3.175	
7,800.00	7,786.25	7,793.34	7,788.25	14.88	12.66	90.24	-215.32	-49.17	75.83	51.78	24.05	3.153	
7,900.00	7,886.25	7,893.34	7,888.25	14.94	12.75	90.24	-215.32	-49.17	75.83	51.62	24.21	3.132	
8,000.00	7,986.25	7,993.34	7,988.25	15.01	12.83	90.24	-215.32	-49.17	75.83	51.46	24.38	3.111	
8,100.00	8,086.25	8,093.34	8,088.25	15.07	12.91	90.24	-215.32	-49.17	75.83	51.29	24.54	3.090	
8,200.00	8,186.25	8,193.34	8,188.25	15.13	13.00	90.24	-215.32	-49.17	75.83	51.13	24.70	3.070	
8,300.00	8,286.25	8,293.34	8,288.25	15.20	13.08	90.24	-215.32	-49.17	75.83	50.97	24.87	3.050	
8,400.00	8,386.25	8,393.34	8,388.25	15.26	13.17	90.24	-215.32	-49.17	75.83	50.80	25.03	3.030	
8,500.00	8,486.25	8,493.34	8,488.25	15.32	13.25	90.24	-215.32	-49.17	75.83	50.64	25.19	3.010	
8,600.00	8,586.25	8,593.34	8,588.25	15.39	13.33	90.24	-215.32	-49.17	75.83	50.48	25.35	2.991	
8,700.00	8,686.25	8,693.34	8,688.25	15.45	13.42	90.24	-215.32	-49.17	75.83	50.32	25.52	2.972	
8,800.00	8,786.25	8,793.34	8,788.25	15.51	13.50	90.24	-215.32	-49.17	75.83	50.15	25.68	2.953	
8,900.00	8,886.25	8,893.34	8,888.25	15.58	13.58	90.24	-215.32	-49.17	75.83	49.99	25.84	2.934	
9,000.00	8,986.25	8,993.34	8,988.25	15.64	13.67	90.24	-215.32	-49.17	75.83	49.83	26.01	2.916	
9,100.00	9,086.25	9,093.34	9,088.25	15.71	13.75	90.24	-215.32	-49.17	75.83	49.66	26.17	2.898	
9,200.00	9,186.25	9,193.34	9,188.25	15.77	13.83	90.24	-215.32	-49.17	75.83	49.50	26.33	2.880	
9,300.00	9,286.25	9,293.34	9,288.25	15.84	13.92	90.24	-215.32	-49.17	75.83	49.34	26.50	2.862	
9,400.00	9,386.25	9,393.34	9,388.25	15.90	14.00	90.24	-215.32	-49.17	75.83	49.17	26.66	2.844	
9,500.00	9,486.25	9,493.34	9,488.25	15.97	14.08	90.24	-215.32	-49.17	75.83	49.01	26.82	2.827	
9,600.00	9,586.25	9,593.34	9,588.25	16.03	14.17	90.24	-215.32	-49.17	75.83	48.85	26.99	2.810	
9,700.00	9,686.25	9,693.34	9,688.25	16.10	14.25	90.24	-215.32	-49.17	75.83	48.68	27.15	2.793	
9,800.00	9,786.25	9,793.34	9,788.25	16.16	14.34	90.24	-215.32	-49.17	75.83	48.52	27.31	2.777	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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:													
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
9,900.00	9,886.25	9,893.34	9,888.25	16.23	14.42	90.24	-215.32	-49.17	75.83	48.36	27.47	2.760	
9,999.75	9,986.00	9,993.09	9,988.00	16.29	14.50	90.24	-215.32	-49.17	75.83	48.20	27.64	2.744	
10,000.00	9,986.25	9,993.34	9,988.25	16.29	14.50	90.24	-215.32	-49.17	75.83	48.20	27.64	2.744	
10,025.00	10,011.23	10,018.33	10,013.23	16.28	14.52	76.55	-215.32	-49.17	75.68	48.04	27.64	2.738	
10,050.00	10,036.15	10,043.25	10,038.15	16.26	14.54	78.06	-215.32	-49.17	75.24	47.66	27.58	2.728	
10,075.00	10,060.94	10,068.03	10,062.94	16.23	14.56	80.57	-215.32	-49.17	74.63	47.14	27.48	2.715	
10,100.00	10,085.51	10,092.61	10,087.51	16.20	14.58	84.08	-215.32	-49.17	74.01	46.66	27.35	2.706	
10,125.00	10,109.82	10,116.91	10,111.82	16.16	14.60	88.53	-215.32	-49.17	73.62	46.41	27.21	2.706 ES, SF	
10,132.35	10,116.90	10,124.00	10,118.90	16.15	14.61	90.00	-215.32	-49.17	73.59	46.42	27.17	2.708	
10,150.00	10,133.78	10,140.87	10,135.78	16.13	14.62	93.81	-215.32	-49.17	73.78	46.68	27.10	2.723	
10,175.00	10,157.34	10,164.43	10,159.34	16.09	14.64	99.72	-215.32	-49.17	74.82	47.77	27.05	2.766	
10,200.00	10,180.43	10,187.52	10,182.43	16.05	14.66	105.99	-215.32	-49.17	77.13	50.02	27.11	2.845	
10,225.00	10,202.99	10,210.08	10,204.99	16.01	14.68	112.28	-215.32	-49.17	81.01	53.72	27.29	2.969	
10,250.00	10,224.95	10,232.04	10,226.95	15.97	14.70	118.31	-215.32	-49.17	86.68	59.11	27.56	3.145	
10,275.00	10,246.26	10,253.35	10,248.26	15.93	14.72	123.85	-215.32	-49.17	94.24	66.34	27.90	3.378	
10,300.00	10,266.85	10,273.95	10,268.85	15.89	14.74	128.75	-215.32	-49.17	103.68	75.44	28.24	3.671	
10,325.00	10,286.68	10,293.77	10,288.68	15.86	14.75	132.97	-215.32	-49.17	114.91	86.36	28.56	4.024	
10,350.00	10,305.68	10,312.77	10,307.68	15.82	14.77	136.53	-215.32	-49.17	127.81	98.98	28.84	4.432	
10,375.00	10,323.80	10,330.90	10,325.80	15.79	14.78	139.45	-215.32	-49.17	142.23	113.16	29.07	4.893	
10,398.38	10,339.92	10,347.01	10,341.92	15.76	14.80	141.67	-215.32	-49.17	156.97	127.72	29.25	5.367	
10,400.00	10,341.00	10,348.10	10,343.00	15.76	14.80	141.92	-215.32	-49.17	158.03	128.77	29.26	5.401	
10,425.00	10,357.27	10,364.36	10,359.27	15.72	14.81	145.53	-215.32	-49.17	175.17	145.77	29.40	5.958	
10,450.00	10,372.58	10,379.67	10,374.58	15.70	14.82	148.59	-215.32	-49.17	193.53	164.02	29.51	6.557	
10,475.00	10,386.90	10,393.99	10,388.90	15.67	14.84	151.21	-215.32	-49.17	212.98	183.38	29.60	7.196	
10,500.00	10,400.18	10,407.28	10,402.18	15.66	14.85	153.45	-215.32	-49.17	233.38	203.72	29.66	7.868	
10,525.00	10,412.40	10,419.49	10,414.40	15.64	14.86	155.37	-215.32	-49.17	254.61	224.90	29.71	8.570	
10,550.00	10,423.51	10,430.61	10,425.51	15.63	14.87	157.02	-215.32	-49.17	276.59	246.84	29.75	9.298	
10,575.00	10,433.49	10,440.59	10,435.49	15.63	14.87	158.44	-215.32	-49.17	299.20	269.43	29.77	10.049	
10,600.00	10,442.31	10,449.40	10,444.31	15.63	14.88	159.66	-215.32	-49.17	322.38	292.59	29.79	10.820	
10,625.00	10,449.94	10,457.04	10,451.94	15.64	14.89	160.70	-215.32	-49.17	346.04	316.23	29.81	11.608	
10,650.00	10,456.37	10,463.47	10,458.37	15.66	14.89	161.60	-215.32	-49.17	370.11	340.29	29.82	12.411	
10,675.00	10,461.58	10,468.67	10,463.58	15.69	14.90	162.36	-215.32	-49.17	394.50	364.67	29.83	13.225	
10,700.00	10,465.54	10,472.64	10,467.54	15.73	14.90	162.98	-215.32	-49.17	419.15	389.31	29.84	14.049	
10,725.00	10,468.26	10,475.36	10,470.26	15.79	14.90	163.46	-215.32	-49.17	443.99	414.15	29.84	14.878	
10,750.00	10,469.73	10,476.82	10,471.73	15.85	14.90	163.57	-215.32	-49.17	468.94	439.09	29.85	15.712	
10,766.52	10,470.00	10,477.09	10,472.00	15.91	14.90	90.00	-215.32	-49.17	485.45	455.60	29.85	16.264	
10,800.00	10,470.00	10,477.09	10,472.00	16.04	14.90	90.00	-215.32	-49.17	518.93	489.08	29.85	17.383	
10,900.00	10,470.00	10,477.09	10,472.00	16.61	14.90	90.00	-215.32	-49.17	618.93	589.07	29.87	20.723	
11,000.00	10,470.00	10,477.09	10,472.00	17.47	14.90	90.00	-215.32	-49.17	718.93	689.05	29.88	24.057	
11,100.00	10,470.00	10,477.09	10,472.00	18.55	14.90	90.00	-215.32	-49.17	818.93	789.03	29.90	27.386	
11,200.00	10,470.00	10,477.09	10,472.00	19.80	14.90	90.00	-215.32	-49.17	918.93	889.01	29.93	30.707	
11,300.00	10,470.00	12,219.10	11,400.00	21.16	22.59	179.99	803.59	-55.94	928.00	880.63	47.37	19.589	
11,400.00	10,470.00	12,319.10	11,400.00	22.62	24.10	179.99	903.59	-56.61	928.00	880.03	47.97	19.347	
11,500.00	10,470.00	12,419.10	11,400.00	24.14	25.67	179.99	1,003.59	-57.27	928.00	879.40	48.60	19.095	
11,600.00	10,470.00	12,519.10	11,400.00	25.72	27.28	179.99	1,103.58	-57.94	928.00	878.72	49.28	18.833	
11,700.00	10,470.00	12,619.10	11,400.00	27.35	28.93	179.99	1,203.58	-58.60	928.00	878.01	49.99	18.563	
11,800.00	10,470.00	12,719.10	11,400.00	29.01	30.61	179.99	1,303.58	-59.27	928.00	877.25	50.75	18.287	
11,900.00	10,470.00	12,819.10	11,400.00	30.70	32.32	179.99	1,403.58	-59.93	928.00	876.46	51.54	18.006	
12,000.00	10,470.00	12,919.10	11,400.00	32.42	34.05	179.99	1,503.58	-60.60	928.00	875.64	52.36	17.722	
12,100.00	10,470.00	13,019.10	11,400.00	34.16	35.80	179.99	1,603.57	-61.26	928.00	874.78	53.22	17.436	
12,200.00	10,470.00	13,119.10	11,400.00	35.92	37.56	179.99	1,703.57	-61.93	928.00	873.88	54.12	17.148	
12,300.00	10,470.00	13,219.10	11,400.00	37.69	39.34	179.99	1,803.57	-62.59	928.00	872.96	55.04	16.861	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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)	Offset Measured Depth (usft)	Offset 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	
12,400.00	10,470.00	13,319.10	11,400.00	39.48	41.13	179.99	1,903.57	-63.26	928.00	872.01	55.99	16.575	
12,500.00	10,470.00	13,419.10	11,400.00	41.28	42.93	179.99	2,003.56	-63.92	928.00	871.03	56.97	16.290	
12,600.00	10,470.00	13,519.10	11,400.00	43.08	44.74	179.99	2,103.56	-64.59	928.00	870.03	57.97	16.008	
12,700.00	10,470.00	13,619.10	11,400.00	44.90	46.56	179.99	2,203.56	-65.25	928.00	869.00	59.00	15.729	
12,800.00	10,470.00	13,719.10	11,400.00	46.73	48.38	179.99	2,303.56	-65.92	928.00	867.95	60.05	15.454	
12,900.00	10,470.00	13,819.10	11,400.00	48.56	50.22	179.99	2,403.56	-66.58	928.00	866.88	61.12	15.182	
13,000.00	10,470.00	13,919.10	11,400.00	50.40	52.05	179.99	2,503.55	-67.25	928.00	865.78	62.22	14.915	
13,100.00	10,470.00	14,019.10	11,400.00	52.24	53.90	179.99	2,603.55	-67.91	928.00	864.67	63.33	14.653	
13,200.00	10,470.00	14,119.10	11,400.00	54.09	55.75	179.99	2,703.55	-68.58	928.00	863.53	64.47	14.395	
13,300.00	10,470.00	14,219.10	11,400.00	55.94	57.60	179.99	2,803.55	-69.24	928.00	862.38	65.62	14.142	
13,400.00	10,470.00	14,319.10	11,400.00	57.80	59.46	179.99	2,903.54	-69.91	928.00	861.21	66.79	13.895	
13,500.00	10,470.00	14,419.10	11,400.00	59.66	61.32	179.99	3,003.54	-70.57	928.00	860.03	67.97	13.653	
13,600.00	10,470.00	14,519.10	11,400.00	61.52	63.18	179.99	3,103.54	-71.24	928.00	858.83	69.17	13.416	
13,700.00	10,470.00	14,619.10	11,400.00	63.39	65.05	179.99	3,203.54	-71.90	928.00	857.61	70.39	13.184	
13,800.00	10,470.00	14,719.10	11,400.00	65.26	66.92	179.99	3,303.54	-72.57	928.00	856.39	71.61	12.958	
13,900.00	10,470.00	14,819.10	11,400.00	67.13	68.79	179.99	3,403.53	-73.23	928.00	855.14	72.86	12.737	
14,000.00	10,470.00	14,919.10	11,400.00	69.01	70.66	179.99	3,503.53	-73.90	928.00	853.89	74.11	12.522	
14,100.00	10,470.00	15,019.10	11,400.00	70.88	72.54	179.99	3,603.53	-74.56	928.00	852.62	75.38	12.312	
14,200.00	10,470.00	15,119.10	11,400.00	72.76	74.41	179.99	3,703.53	-75.23	928.00	851.35	76.65	12.107	
14,300.00	10,470.00	15,219.10	11,400.00	74.64	76.29	179.99	3,803.52	-75.89	928.00	850.06	77.94	11.907	
14,400.00	10,470.00	15,319.10	11,400.00	76.52	78.18	179.99	3,903.52	-76.56	928.00	848.76	79.24	11.712	
14,500.00	10,470.00	15,419.10	11,400.00	78.41	80.06	179.99	4,003.52	-77.22	928.00	847.46	80.54	11.522	
14,600.00	10,470.00	15,519.10	11,400.00	80.29	81.94	179.99	4,103.52	-77.89	928.00	846.14	81.86	11.336	
14,700.00	10,470.00	15,619.10	11,400.00	82.18	83.83	179.99	4,203.52	-78.55	928.00	844.81	83.19	11.156	
14,800.00	10,470.00	15,719.10	11,400.00	84.07	85.72	179.99	4,303.51	-79.22	928.00	843.48	84.52	10.980	
14,900.00	10,470.00	15,819.10	11,400.00	85.96	87.60	179.99	4,403.51	-79.88	928.00	842.14	85.86	10.808	
15,000.00	10,470.00	15,919.10	11,400.00	87.85	89.49	179.99	4,503.51	-80.55	928.00	840.79	87.21	10.641	
15,100.00	10,470.00	16,019.10	11,400.00	89.74	91.38	179.99	4,603.51	-81.21	928.00	839.43	88.57	10.478	
15,200.00	10,470.00	16,119.10	11,400.00	91.63	93.28	179.99	4,703.50	-81.88	928.00	838.07	89.93	10.319	
15,300.00	10,470.00	16,219.10	11,400.00	93.52	95.17	179.99	4,803.50	-82.54	928.00	836.70	91.30	10.164	
15,400.00	10,470.00	16,319.10	11,400.00	95.42	97.06	179.99	4,903.50	-83.21	928.00	835.32	92.68	10.013	
15,500.00	10,470.00	16,419.10	11,400.00	97.31	98.96	179.99	5,003.50	-83.87	928.00	833.94	94.06	9.866	
15,600.00	10,470.00	16,519.10	11,400.00	99.21	100.85	179.99	5,103.50	-84.54	928.00	832.55	95.45	9.723	
15,700.00	10,470.00	16,619.10	11,400.00	101.10	102.75	179.99	5,203.49	-85.20	928.00	831.16	96.84	9.583	
15,800.00	10,470.00	16,719.10	11,400.00	103.00	104.64	179.99	5,303.49	-85.87	928.00	829.76	98.24	9.446	
15,900.00	10,470.00	16,819.10	11,400.00	104.90	106.54	179.99	5,403.49	-86.53	928.00	828.36	99.64	9.313	
16,000.00	10,470.00	16,919.10	11,400.00	106.79	108.44	179.99	5,503.49	-87.20	928.00	826.95	101.05	9.184	
16,100.00	10,470.00	17,019.10	11,400.00	108.69	110.33	179.99	5,603.49	-87.87	928.00	825.54	102.46	9.057	
16,200.00	10,470.00	17,119.10	11,400.00	110.59	112.23	179.99	5,703.48	-88.53	928.00	824.12	103.88	8.933	
16,300.00	10,470.00	17,219.10	11,400.00	112.49	114.13	180.00	5,803.48	-89.20	928.00	822.70	105.30	8.813	
16,400.00	10,470.00	17,319.10	11,400.00	114.39	116.03	180.00	5,903.48	-89.86	928.00	821.27	106.73	8.695	
16,500.00	10,470.00	17,419.10	11,400.00	116.29	117.93	180.00	6,003.48	-90.53	928.00	819.84	108.16	8.580	
16,600.00	10,470.00	17,519.10	11,400.00	118.19	119.83	180.00	6,103.47	-91.19	928.00	818.41	109.59	8.468	
16,700.00	10,470.00	17,619.10	11,400.00	120.09	121.73	180.00	6,203.47	-91.86	928.00	816.97	111.03	8.358	
16,800.00	10,470.00	17,719.10	11,400.00	122.00	123.63	180.00	6,303.47	-92.52	928.00	815.53	112.47	8.251	
16,900.00	10,470.00	17,819.10	11,400.00	123.90	125.53	180.00	6,403.47	-93.19	928.00	814.08	113.92	8.146	
17,000.00	10,470.00	17,919.10	11,400.00	125.80	127.44	180.00	6,503.47	-93.85	928.00	812.63	115.37	8.044	
17,100.00	10,470.00	18,019.10	11,400.00	127.70	129.34	180.00	6,603.46	-94.52	928.00	811.18	116.82	7.944	
17,200.00	10,470.00	18,119.10	11,400.00	129.61	131.24	180.00	6,703.46	-95.18	928.00	809.73	118.27	7.846	
17,300.00	10,470.00	18,219.10	11,400.00	131.51	133.15	180.00	6,803.46	-95.85	928.00	808.27	119.73	7.751	
17,400.00	10,470.00	18,319.10	11,400.00	133.42	135.05	180.00	6,903.46	-96.51	928.00	806.81	121.19	7.658	
17,500.00	10,470.00	18,419.10	11,400.00	135.32	136.95	180.00	7,003.45	-97.18	928.00	805.35	122.65	7.566	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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)			
17,600.00	10,470.00	18,519.10	11,400.00	137.22	138.86	180.00	7,103.45	-97.84	928.00	803.88	124.12	7.477	
17,700.00	10,470.00	18,619.10	11,400.00	139.13	140.76	180.00	7,203.45	-98.51	928.00	802.42	125.58	7.390	
17,800.00	10,470.00	18,719.10	11,400.00	141.03	142.67	180.00	7,303.45	-99.17	928.00	800.95	127.05	7.304	
17,900.00	10,470.00	18,819.10	11,400.00	142.94	144.57	180.00	7,403.45	-99.84	928.00	799.47	128.53	7.220	
18,000.00	10,470.00	18,919.10	11,400.00	144.84	146.48	180.00	7,503.44	-100.50	928.00	798.00	130.00	7.138	
18,100.00	10,470.00	19,019.10	11,400.00	146.75	148.38	180.00	7,603.44	-101.17	928.00	796.52	131.48	7.058	
18,200.00	10,470.00	19,119.10	11,400.00	148.66	150.29	180.00	7,703.44	-101.83	928.00	795.04	132.96	6.980	
18,300.00	10,470.00	19,219.10	11,400.00	150.56	152.19	180.00	7,803.44	-102.50	928.00	793.56	134.44	6.903	
18,400.00	10,470.00	19,319.10	11,400.00	152.47	154.10	180.00	7,903.43	-103.16	928.00	792.08	135.92	6.828	
18,500.00	10,470.00	19,419.10	11,400.00	154.37	156.00	180.00	8,003.43	-103.83	928.00	790.59	137.41	6.754	
18,600.00	10,470.00	19,519.10	11,400.00	156.28	157.91	180.00	8,103.43	-104.49	928.00	789.11	138.89	6.681	
18,700.00	10,470.00	19,619.10	11,400.00	158.19	159.82	180.00	8,203.43	-105.16	928.00	787.62	140.38	6.611	
18,800.00	10,470.00	19,719.10	11,400.00	160.10	161.72	180.00	8,303.43	-105.82	928.00	786.13	141.87	6.541	
18,900.00	10,470.00	19,819.10	11,400.00	162.00	163.63	180.00	8,403.42	-106.49	928.00	784.64	143.36	6.473	
19,000.00	10,470.00	19,919.10	11,400.00	163.91	165.54	180.00	8,503.42	-107.15	928.00	783.14	144.86	6.406	
19,100.00	10,470.00	20,019.10	11,400.00	165.82	167.44	180.00	8,603.42	-107.82	928.00	781.65	146.35	6.341	
19,200.00	10,470.00	20,119.10	11,400.00	167.73	169.35	180.00	8,703.42	-108.48	928.00	780.15	147.85	6.277	
19,300.00	10,470.00	20,219.10	11,400.00	169.63	171.26	180.00	8,803.41	-109.15	928.00	778.65	149.35	6.214	
19,400.00	10,470.00	20,319.10	11,400.00	171.54	173.17	180.00	8,903.41	-109.81	928.00	777.15	150.85	6.152	
19,500.00	10,470.00	20,419.10	11,400.00	173.45	175.08	180.00	9,003.41	-110.48	928.00	775.65	152.35	6.091	
19,600.00	10,470.00	20,519.10	11,400.00	175.36	176.98	180.00	9,103.41	-111.14	928.00	774.15	153.85	6.032	
19,700.00	10,470.00	20,619.10	11,400.00	177.27	178.89	180.00	9,203.41	-111.81	928.00	772.65	155.35	5.973	
19,800.00	10,470.00	20,719.10	11,400.00	179.17	180.80	180.00	9,303.40	-112.47	928.00	771.14	156.86	5.916	
19,900.00	10,470.00	20,819.10	11,400.00	181.08	182.71	180.00	9,403.40	-113.14	928.00	769.63	158.37	5.860	
20,000.00	10,470.00	20,919.10	11,400.00	182.99	184.62	180.00	9,503.40	-113.80	928.00	768.13	159.87	5.805	
20,100.00	10,470.00	21,019.10	11,400.00	184.90	186.53	180.00	9,603.40	-114.47	928.00	766.62	161.38	5.750	
20,200.00	10,470.00	21,119.10	11,400.00	186.81	188.43	180.00	9,703.39	-115.13	928.00	765.11	162.89	5.697	
20,300.00	10,470.00	21,219.10	11,400.00	188.72	190.34	180.00	9,803.39	-115.80	928.00	763.60	164.40	5.645	
20,400.00	10,470.00	21,319.10	11,400.00	190.63	192.25	180.00	9,903.39	-116.46	928.00	762.08	165.92	5.593	
20,500.00	10,470.00	21,419.10	11,400.00	192.54	194.16	180.00	10,003.39	-117.13	928.00	760.57	167.43	5.543	
20,600.00	10,470.00	21,519.10	11,400.00	194.45	196.07	180.00	10,103.39	-117.79	928.00	759.06	168.94	5.493	
20,691.52	10,470.00	21,610.61	11,400.00	196.05	197.82	180.00	10,194.90	-118.40	928.00	758.02	169.98	5.459	



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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)	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
14,000.00	10,470.00	14,780.04	11,230.00	69.01	72.82	127.02	3,510.08	925.85	1,252.32	1,125.47	126.85	9.873	CC
14,100.00	10,470.00	14,880.04	11,230.00	70.88	74.61	127.02	3,610.08	925.19	1,252.32	1,122.45	129.87	9.643	
14,200.00	10,470.00	14,980.04	11,230.00	72.76	76.40	127.02	3,710.08	924.54	1,252.33	1,119.42	132.91	9.423	
14,300.00	10,470.00	15,080.04	11,230.00	74.64	78.20	127.02	3,810.08	923.88	1,252.33	1,116.39	135.94	9.212	
14,400.00	10,470.00	15,180.04	11,230.00	76.52	80.00	127.02	3,910.08	923.23	1,252.34	1,113.35	138.99	9.010	
14,500.00	10,470.00	15,280.04	11,230.00	78.41	81.81	127.02	4,010.07	922.57	1,252.35	1,110.30	142.05	8.817	
14,600.00	10,470.00	15,380.04	11,230.00	80.29	83.62	127.02	4,110.07	921.91	1,252.35	1,107.25	145.11	8.631	
14,700.00	10,470.00	15,480.04	11,230.00	82.18	85.44	127.02	4,210.07	921.26	1,252.36	1,104.19	148.17	8.452	
14,800.00	10,470.00	15,580.04	11,230.00	84.07	87.26	127.02	4,310.07	920.60	1,252.37	1,101.12	151.24	8.281	
14,900.00	10,470.00	15,680.04	11,230.00	85.96	89.09	127.02	4,410.07	919.95	1,252.37	1,098.05	154.32	8.116	
15,000.00	10,470.00	15,780.04	11,230.00	87.85	90.92	127.02	4,510.06	919.29	1,252.38	1,094.98	157.40	7.957	
15,100.00	10,470.00	15,880.04	11,230.00	89.74	92.75	127.02	4,610.06	918.64	1,252.38	1,091.90	160.48	7.804	
15,200.00	10,470.00	15,980.04	11,230.00	91.63	94.59	127.02	4,710.06	917.98	1,252.39	1,088.82	163.57	7.656	
15,300.00	10,470.00	16,080.04	11,230.00	93.52	96.43	127.02	4,810.06	917.33	1,252.40	1,085.73	166.67	7.514	
15,400.00	10,470.00	16,180.04	11,230.00	95.42	98.27	127.02	4,910.05	916.67	1,252.40	1,082.64	169.77	7.377	
15,500.00	10,470.00	16,280.04	11,230.00	97.31	100.11	127.02	5,010.05	916.02	1,252.41	1,079.54	172.87	7.245	
15,600.00	10,470.00	16,380.04	11,230.00	99.21	101.96	127.02	5,110.05	915.36	1,252.41	1,076.44	175.97	7.117	
15,700.00	10,470.00	16,480.04	11,230.00	101.10	103.81	127.02	5,210.05	914.70	1,252.42	1,073.34	179.08	6.994	
15,800.00	10,470.00	16,580.04	11,230.00	103.00	105.66	127.02	5,310.05	914.05	1,252.43	1,070.23	182.19	6.874	
15,900.00	10,470.00	16,680.04	11,230.00	104.90	107.52	127.02	5,410.04	913.39	1,252.43	1,067.13	185.31	6.759	
16,000.00	10,470.00	16,780.04	11,230.00	106.79	109.37	127.02	5,510.04	912.74	1,252.44	1,064.02	188.42	6.647	
16,100.00	10,470.00	16,880.04	11,230.00	108.69	111.23	127.01	5,610.04	912.08	1,252.45	1,060.90	191.54	6.539	
16,200.00	10,470.00	16,980.04	11,230.00	110.59	113.09	127.01	5,710.04	911.43	1,252.45	1,057.78	194.67	6.434	
16,300.00	10,470.00	17,080.04	11,230.00	112.49	114.95	127.01	5,810.04	910.77	1,252.46	1,054.67	197.79	6.332	
16,400.00	10,470.00	17,180.04	11,230.00	114.39	116.82	127.01	5,910.03	910.12	1,252.46	1,051.55	200.92	6.234	
16,500.00	10,470.00	17,280.04	11,230.00	116.29	118.68	127.01	6,010.03	909.46	1,252.47	1,048.42	204.05	6.138	
16,600.00	10,470.00	17,380.04	11,230.00	118.19	120.55	127.01	6,110.03	908.81	1,252.48	1,045.30	207.18	6.045	
16,700.00	10,470.00	17,480.04	11,230.00	120.09	122.42	127.01	6,210.03	908.15	1,252.48	1,042.17	210.31	5.955	
16,800.00	10,470.00	17,580.04	11,230.00	122.00	124.29	127.01	6,310.02	907.49	1,252.49	1,039.04	213.45	5.868	
16,900.00	10,470.00	17,680.04	11,230.00	123.90	126.16	127.01	6,410.02	906.84	1,252.50	1,035.91	216.59	5.783	
17,000.00	10,470.00	17,780.04	11,230.00	125.80	128.03	127.01	6,510.02	906.18	1,252.50	1,032.78	219.73	5.700	
17,100.00	10,470.00	17,880.04	11,230.00	127.70	129.91	127.01	6,610.02	905.53	1,252.51	1,029.64	222.87	5.620	
17,200.00	10,470.00	17,980.04	11,230.00	129.61	131.78	127.01	6,710.02	904.87	1,252.51	1,026.50	226.01	5.542	
17,300.00	10,470.00	18,080.04	11,230.00	131.51	133.66	127.01	6,810.01	904.22	1,252.52	1,023.37	229.15	5.466	
17,400.00	10,470.00	18,180.04	11,230.00	133.42	135.53	127.01	6,910.01	903.56	1,252.53	1,020.23	232.30	5.392	
17,500.00	10,470.00	18,280.04	11,230.00	135.32	137.41	127.01	7,010.01	902.91	1,252.53	1,017.09	235.45	5.320	
17,600.00	10,470.00	18,380.04	11,230.00	137.22	139.29	127.01	7,110.01	902.25	1,252.54	1,013.94	238.60	5.250	
17,700.00	10,470.00	18,480.04	11,230.00	139.13	141.17	127.01	7,210.00	901.60	1,252.55	1,010.80	241.75	5.181	
17,800.00	10,470.00	18,580.04	11,230.00	141.03	143.05	127.01	7,310.00	900.94	1,252.55	1,007.65	244.90	5.115	
17,900.00	10,470.00	18,680.04	11,230.00	142.94	144.93	127.01	7,410.00	900.28	1,252.56	1,004.51	248.05	5.050	
18,000.00	10,470.00	18,780.04	11,230.00	144.84	146.82	127.01	7,510.00	899.63	1,252.56	1,001.36	251.20	4.986	
18,100.00	10,470.00	18,880.04	11,230.00	146.75	148.70	127.01	7,610.00	898.97	1,252.57	998.21	254.36	4.924	
18,200.00	10,470.00	18,980.04	11,230.00	148.66	150.58	127.01	7,709.99	898.32	1,252.58	995.06	257.51	4.864	
18,300.00	10,470.00	19,080.04	11,230.00	150.56	152.47	127.01	7,809.99	897.66	1,252.58	991.91	260.67	4.805	
18,400.00	10,470.00	19,180.04	11,230.00	152.47	154.35	127.01	7,909.99	897.01	1,252.59	988.76	263.83	4.748	
18,500.00	10,470.00	19,280.04	11,230.00	154.37	156.24	127.01	8,009.99	896.35	1,252.59	985.61	266.99	4.692	
18,600.00	10,470.00	19,380.04	11,230.00	156.28	158.13	127.01	8,109.99	895.70	1,252.60	982.45	270.15	4.637	
18,700.00	10,470.00	19,480.04	11,230.00	158.19	160.02	127.01	8,209.98	895.04	1,252.61	979.30	273.31	4.583	
18,800.00	10,470.00	19,580.04	11,230.00	160.10	161.90	127.01	8,309.98	894.39	1,252.61	976.14	276.47	4.531	
18,900.00	10,470.00	19,680.04	11,230.00	162.00	163.79	127.01	8,409.98	893.73	1,252.62	972.99	279.63	4.480	
19,000.00	10,470.00	19,780.04	11,230.00	163.91	165.68	127.01	8,509.98	893.07	1,252.63	969.83	282.80	4.429	
19,100.00	10,470.00	19,880.04	11,230.00	165.82	167.57	127.01	8,609.97	892.42	1,252.63	966.67	285.96	4.380	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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)			
19,200.00	10,470.00	19,980.04	11,230.00	167.73	169.46	127.01	8,709.97	891.76	1,252.64	963.51	289.13	4.333	
19,300.00	10,470.00	20,080.04	11,230.00	169.63	171.35	127.01	8,809.97	891.11	1,252.64	960.35	292.29	4.286	
19,400.00	10,470.00	20,180.04	11,230.00	171.54	173.25	127.01	8,909.97	890.45	1,252.65	957.19	295.46	4.240	
19,500.00	10,470.00	20,280.04	11,230.00	173.45	175.14	127.01	9,009.97	889.80	1,252.66	954.03	298.62	4.195	
19,600.00	10,470.00	20,380.04	11,230.00	175.36	177.03	127.01	9,109.96	889.14	1,252.66	950.87	301.79	4.151	
19,700.00	10,470.00	20,480.04	11,230.00	177.27	178.92	127.01	9,209.96	888.49	1,252.67	947.71	304.96	4.108	
19,800.00	10,470.00	20,580.04	11,230.00	179.17	180.82	127.01	9,309.96	887.83	1,252.68	944.54	308.13	4.065	
19,900.00	10,470.00	20,680.04	11,230.00	181.08	182.71	127.01	9,409.96	887.18	1,252.68	941.38	311.30	4.024	
20,000.00	10,470.00	20,780.04	11,230.00	182.99	184.61	127.01	9,509.96	886.52	1,252.69	938.22	314.47	3.983	
20,100.00	10,470.00	20,880.04	11,230.00	184.90	186.50	127.01	9,609.95	885.86	1,252.69	935.05	317.64	3.944	
20,200.00	10,470.00	20,980.04	11,230.00	186.81	188.40	127.01	9,709.95	885.21	1,252.70	931.89	320.81	3.905	
20,300.00	10,470.00	21,080.04	11,230.00	188.72	190.29	127.01	9,809.95	884.55	1,252.71	928.72	323.99	3.867	
20,400.00	10,470.00	21,180.04	11,230.00	190.63	192.19	127.01	9,909.95	883.90	1,252.71	925.55	327.16	3.829	
20,500.00	10,470.00	21,280.04	11,230.00	192.54	194.08	127.01	10,009.94	883.24	1,252.72	922.39	330.33	3.792	
20,600.00	10,470.00	21,380.04	11,230.00	194.45	195.98	127.01	10,109.94	882.59	1,252.73	919.22	333.51	3.756	
20,606.96	10,470.00	21,387.01	11,230.00	194.57	196.11	127.01	10,116.90	882.54	1,252.73	919.01	333.71	3.754	
20,691.52	10,470.00	21,470.20	11,230.00	196.05	197.70	127.01	10,200.09	882.00	1,252.73	916.54	336.19	3.726 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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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		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	
16,000.00	10,470.00	16,997.81	11,458.83	106.79	110.36	-121.85	5,484.12	-1,687.08	1,883.45	1,694.73	188.73	9.980	CC
16,100.00	10,470.00	17,097.81	11,459.70	108.69	112.24	-121.87	5,584.11	-1,687.74	1,883.92	1,691.93	191.98	9.813	
16,200.00	10,470.00	17,197.81	11,460.58	110.59	114.12	-121.89	5,684.11	-1,688.40	1,884.38	1,689.14	195.24	9.652	
16,300.00	10,470.00	17,297.81	11,461.46	112.49	116.00	-121.92	5,784.10	-1,689.07	1,884.85	1,686.35	198.50	9.496	
16,400.00	10,470.00	17,397.81	11,462.34	114.39	117.88	-121.94	5,884.10	-1,689.73	1,885.31	1,683.56	201.76	9.344	
16,500.00	10,470.00	17,497.81	11,463.22	116.29	119.76	-121.96	5,984.09	-1,690.40	1,885.78	1,680.76	205.02	9.198	
16,600.00	10,470.00	17,597.81	11,464.09	118.19	121.64	-121.98	6,084.09	-1,691.06	1,886.24	1,677.97	208.28	9.056	
16,700.00	10,470.00	17,697.81	11,464.97	120.09	123.53	-122.01	6,184.08	-1,691.72	1,886.71	1,675.17	211.54	8.919	
16,800.00	10,470.00	17,797.81	11,465.85	122.00	125.41	-122.03	6,284.08	-1,692.39	1,887.17	1,672.38	214.80	8.786	
16,900.00	10,470.00	17,897.82	11,466.72	123.90	127.30	-122.05	6,384.07	-1,693.05	1,887.64	1,669.58	218.06	8.657	
17,000.00	10,470.00	17,997.82	11,467.60	125.80	129.18	-122.07	6,484.07	-1,693.72	1,888.10	1,666.79	221.32	8.531	
17,100.00	10,470.00	18,097.82	11,468.47	127.70	131.07	-122.10	6,584.06	-1,694.38	1,888.57	1,663.99	224.58	8.409	
17,200.00	10,470.00	18,197.82	11,469.35	129.61	132.96	-122.12	6,684.06	-1,695.04	1,889.03	1,661.20	227.84	8.291	
17,300.00	10,470.00	18,297.82	11,470.22	131.51	134.85	-122.14	6,784.05	-1,695.71	1,889.50	1,658.40	231.10	8.176	
17,400.00	10,470.00	18,397.82	11,471.09	133.42	136.74	-122.16	6,884.05	-1,696.37	1,889.97	1,655.61	234.36	8.064	
17,500.00	10,470.00	18,497.82	11,471.97	135.32	138.63	-122.19	6,984.04	-1,697.04	1,890.43	1,652.81	237.62	7.956	
17,600.00	10,470.00	18,597.82	11,472.84	137.22	140.52	-122.21	7,084.04	-1,697.70	1,890.90	1,650.02	240.88	7.850	
17,700.00	10,470.00	18,697.82	11,473.71	139.13	142.41	-122.23	7,184.03	-1,698.36	1,891.36	1,647.22	244.14	7.747	
17,800.00	10,470.00	18,797.82	11,474.58	141.03	144.30	-122.25	7,284.03	-1,699.03	1,891.83	1,644.43	247.40	7.647	
17,900.00	10,470.00	18,897.82	11,475.45	142.94	146.19	-122.28	7,384.02	-1,699.69	1,892.29	1,641.63	250.66	7.549	
18,000.00	10,470.00	18,997.81	11,476.32	144.84	148.09	-122.30	7,484.00	-1,700.36	1,892.76	1,638.84	253.92	7.454	
18,100.00	10,470.00	19,097.78	11,477.20	146.75	149.98	-122.32	7,583.97	-1,701.02	1,893.23	1,636.05	257.18	7.362	
18,200.00	10,470.00	19,197.75	11,478.08	148.66	151.87	-122.34	7,683.93	-1,701.68	1,893.70	1,633.26	260.43	7.271	
18,300.00	10,470.00	19,297.73	11,478.95	150.56	153.77	-122.36	7,783.90	-1,702.35	1,894.17	1,630.48	263.69	7.183	
18,400.00	10,470.00	19,404.96	11,479.71	152.47	155.80	-122.38	7,891.12	-1,703.06	1,894.55	1,627.49	267.06	7.094	
18,500.00	10,470.00	19,504.96	11,479.88	154.37	157.69	-122.39	7,991.12	-1,703.72	1,894.64	1,624.28	270.36	7.008	
18,600.00	10,470.00	19,604.96	11,480.05	156.28	159.59	-122.39	8,091.12	-1,704.38	1,894.73	1,621.07	273.66	6.924	
18,700.00	10,470.00	19,704.96	11,480.22	158.19	161.49	-122.40	8,191.12	-1,705.04	1,894.82	1,617.86	276.96	6.842	
18,800.00	10,470.00	19,804.95	11,480.39	160.10	163.39	-122.40	8,291.11	-1,705.71	1,894.91	1,614.65	280.26	6.761	
18,900.00	10,470.00	19,904.95	11,480.56	162.00	165.28	-122.41	8,391.11	-1,706.37	1,895.00	1,611.44	283.56	6.683	
19,000.00	10,470.00	20,004.95	11,480.73	163.91	167.18	-122.41	8,491.11	-1,707.03	1,895.09	1,608.23	286.86	6.606	
19,100.00	10,470.00	20,104.95	11,480.90	165.82	169.08	-122.41	8,591.11	-1,707.69	1,895.18	1,605.02	290.16	6.531	
19,200.00	10,470.00	20,204.95	11,481.07	167.73	170.98	-122.42	8,691.10	-1,708.35	1,895.27	1,601.81	293.47	6.458	
19,300.00	10,470.00	20,304.95	11,481.24	169.63	172.88	-122.42	8,791.10	-1,709.02	1,895.36	1,598.59	296.77	6.387	
19,400.00	10,470.00	20,404.95	11,481.41	171.54	174.78	-122.43	8,891.10	-1,709.68	1,895.45	1,595.38	300.07	6.317	
19,500.00	10,470.00	20,504.95	11,481.58	173.45	176.68	-122.43	8,991.10	-1,710.34	1,895.54	1,592.17	303.37	6.248	
19,600.00	10,470.00	20,604.95	11,481.75	175.36	178.58	-122.44	9,091.09	-1,711.00	1,895.63	1,588.95	306.68	6.181	
19,700.00	10,470.00	20,704.95	11,481.92	177.27	180.48	-122.44	9,191.09	-1,711.66	1,895.72	1,585.74	309.98	6.116	
19,800.00	10,470.00	20,804.95	11,482.09	179.17	182.38	-122.45	9,291.09	-1,712.33	1,895.81	1,582.53	313.29	6.051	
19,900.00	10,470.00	20,904.95	11,482.26	181.08	184.28	-122.45	9,391.09	-1,712.99	1,895.90	1,579.31	316.59	5.989	
20,000.00	10,470.00	21,004.95	11,482.43	182.99	186.18	-122.45	9,491.08	-1,713.65	1,895.99	1,576.10	319.89	5.927	
20,100.00	10,470.00	21,104.95	11,482.60	184.90	188.08	-122.46	9,591.08	-1,714.31	1,896.08	1,572.88	323.20	5.867	
20,200.00	10,470.00	21,204.95	11,482.76	186.81	189.98	-122.46	9,691.08	-1,714.97	1,896.17	1,569.67	326.50	5.807	
20,300.00	10,470.00	21,304.87	11,482.93	188.72	191.88	-122.47	9,791.00	-1,715.64	1,896.26	1,566.45	329.81	5.750	
20,400.00	10,470.00	21,404.95	11,483.06	190.63	193.79	-122.47	9,891.07	-1,716.33	1,896.35	1,563.24	333.12	5.693	
20,500.00	10,470.00	21,504.95	11,483.23	192.54	195.69	-122.47	9,991.07	-1,716.99	1,896.44	1,560.02	336.42	5.637	
20,600.00	10,470.00	21,604.95	11,483.40	194.45	197.59	-122.48	10,091.07	-1,717.65	1,896.53	1,556.80	339.73	5.582	
20,691.52	10,470.00	21,696.47	11,483.56	196.05	199.33	-122.48	10,182.58	-1,718.26	1,896.62	1,554.03	342.59	5.536	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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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	-159.80	-80.20	-29.50	85.45				
100.00	100.00	100.00	100.00	0.64	0.64	-159.80	-80.20	-29.50	85.45	84.17	1.29	66.355	
200.00	200.00	200.00	200.00	1.34	1.34	-159.80	-80.20	-29.50	85.45	82.78	2.67	31.949	
300.00	300.00	300.00	300.00	1.81	1.81	-159.80	-80.20	-29.50	85.45	81.84	3.62	23.624	
400.00	400.00	400.00	400.00	2.18	2.18	-159.80	-80.20	-29.50	85.45	81.09	4.37	19.569	
500.00	500.00	500.00	500.00	2.51	2.51	-159.80	-80.20	-29.50	85.45	80.44	5.01	17.054	
600.00	600.00	600.00	600.00	2.79	2.79	-159.80	-80.20	-29.50	85.45	79.87	5.59	15.299	
700.00	700.00	700.00	700.00	3.06	3.06	-159.80	-80.20	-29.50	85.45	79.34	6.11	13.984	
800.00	800.00	800.00	800.00	3.30	3.30	-159.80	-80.20	-29.50	85.45	78.86	6.60	12.951	
900.00	900.00	900.00	900.00	3.53	3.53	-159.80	-80.20	-29.50	85.45	78.40	7.06	12.110	
1,000.00	1,000.00	1,000.00	1,000.00	3.74	3.74	-159.80	-80.20	-29.50	85.45	77.96	7.49	11.410	
1,100.00	1,100.00	1,100.00	1,100.00	3.95	3.95	-159.80	-80.20	-29.50	85.45	77.55	7.90	10.813	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	-159.80	-80.20	-29.50	85.45	77.16	8.30	10.298	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	-159.80	-80.20	-29.50	85.45	76.77	8.68	9.846	
1,400.00	1,400.00	1,400.00	1,400.00	4.52	4.52	-159.80	-80.20	-29.50	85.45	76.41	9.05	9.446	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	-159.80	-80.20	-29.50	85.45	76.05	9.40	9.088	
1,600.00	1,599.99	1,599.44	1,599.43	4.82	4.85	-9.54	-80.23	-30.36	84.92	75.26	9.67	8.785	
1,700.00	1,699.96	1,698.83	1,698.79	4.97	5.01	-8.20	-80.31	-32.95	83.36	73.40	9.96	8.365	
1,800.00	1,799.86	1,798.14	1,798.00	5.14	5.19	-5.85	-80.45	-37.25	80.86	70.58	10.28	7.864	
1,900.00	1,899.68	1,897.32	1,897.00	5.32	5.38	-2.32	-80.65	-43.26	77.62	66.99	10.63	7.302	
2,000.00	1,999.37	1,996.34	1,995.72	5.53	5.60	2.64	-80.90	-50.97	73.92	62.91	11.01	6.712	
2,100.00	2,098.90	2,095.14	2,094.07	5.76	5.84	9.32	-81.20	-60.37	70.25	58.81	11.44	6.141	
2,199.78	2,198.04	2,193.48	2,191.79	6.02	6.10	17.94	-81.56	-71.39	67.29	55.38	11.91	5.651	
2,200.00	2,198.26	2,193.70	2,192.01	6.02	6.10	17.96	-81.56	-71.42	67.29	55.38	11.91	5.650	
2,265.95	2,263.72	2,258.56	2,256.35	6.20	6.28	24.61	-81.83	-79.61	66.51	54.27	12.24	5.435 CC, ES	
2,300.00	2,297.52	2,292.02	2,289.50	6.29	6.38	28.19	-81.98	-84.13	66.73	54.32	12.40	5.379	
2,400.00	2,396.77	2,390.09	2,386.51	6.58	6.68	38.69	-82.45	-98.46	69.97	57.08	12.89	5.428	
2,500.00	2,496.03	2,487.85	2,482.96	6.88	6.99	48.18	-82.96	-114.40	77.07	63.71	13.35	5.771	
2,600.00	2,595.28	2,586.56	2,580.17	7.19	7.32	56.01	-83.52	-131.52	87.00	73.17	13.83	6.292	
2,700.00	2,694.54	2,685.43	2,677.54	7.52	7.67	62.17	-84.08	-148.68	98.24	83.93	14.30	6.868	
2,800.00	2,793.79	2,784.30	2,774.91	7.85	8.02	67.04	-84.64	-165.84	110.37	95.58	14.79	7.464	
2,900.00	2,893.05	2,883.17	2,872.28	8.19	8.39	70.93	-85.20	-183.00	123.14	107.86	15.28	8.059	
3,000.00	2,992.30	2,982.04	2,969.64	8.54	8.76	74.08	-85.76	-200.16	136.36	120.57	15.78	8.639	
3,100.00	3,091.56	3,080.91	3,067.01	8.89	9.14	76.66	-86.32	-217.32	149.91	133.61	16.30	9.197	
3,200.00	3,190.81	3,179.78	3,164.38	9.25	9.53	78.82	-86.87	-234.48	163.72	146.89	16.83	9.730	
3,300.00	3,290.07	3,278.64	3,261.75	9.62	9.92	80.64	-87.43	-251.64	177.71	160.35	17.36	10.236	
3,400.00	3,389.32	3,377.51	3,359.11	9.99	10.31	82.20	-87.99	-268.80	191.86	173.96	17.91	10.715	
3,500.00	3,488.58	3,476.38	3,456.48	10.36	10.71	83.54	-88.55	-285.96	206.13	187.67	18.46	11.166	
3,600.00	3,587.83	3,575.25	3,553.85	10.74	11.12	84.70	-89.11	-303.12	220.50	201.48	19.02	11.592	
3,657.24	3,644.64	3,631.84	3,609.58	10.93	11.35	85.31	-89.43	-312.95	228.76	209.43	19.32	11.840	
3,700.00	3,687.11	3,674.13	3,651.22	11.08	11.53	85.76	-89.67	-320.29	234.96	215.42	19.54	12.024	
3,800.00	3,786.63	3,773.04	3,748.62	11.50	11.94	86.33	-90.23	-337.45	249.61	229.51	20.10	12.416	
3,900.00	3,886.37	3,871.92	3,846.01	11.95	12.35	86.29	-90.79	-354.61	264.44	243.76	20.68	12.788	
4,000.00	3,986.27	3,970.71	3,943.30	12.37	12.77	85.74	-91.34	-371.76	279.47	258.21	21.25	13.148	
4,100.00	4,086.25	4,069.35	4,040.44	12.73	13.19	84.77	-91.90	-388.88	294.77	272.94	21.83	13.502	
4,123.75	4,110.00	4,092.75	4,063.48	12.76	13.28	-65.35	-92.03	-392.94	298.46	276.51	21.95	13.597	
4,200.00	4,186.25	4,167.84	4,137.43	12.78	13.60	-66.44	-92.46	-405.98	310.40	288.05	22.35	13.886	
4,300.00	4,286.25	4,266.32	4,234.41	12.83	14.03	-67.74	-93.01	-423.07	326.21	303.30	22.91	14.241	
4,400.00	4,386.25	4,364.80	4,331.40	12.89	14.45	-68.93	-93.57	-440.16	342.17	318.71	23.46	14.583	
4,500.00	4,486.25	4,463.28	4,428.38	12.94	14.87	-70.01	-94.13	-457.25	358.26	334.24	24.02	14.915	
4,600.00	4,586.25	4,561.76	4,525.37	13.00	15.30	-71.00	-94.68	-474.35	374.47	349.89	24.57	15.238	
4,700.00	4,686.25	4,660.24	4,622.35	13.05	15.73	-71.90	-95.24	-491.44	390.77	365.64	25.13	15.550	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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)			
4,800.00	4,786.25	4,758.72	4,719.34	13.11	16.15	-72.73	-95.80	-508.53	407.16	381.48	25.68	15.854	
4,900.00	4,886.25	4,857.20	4,816.32	13.16	16.58	-73.50	-96.35	-525.62	423.63	397.40	26.23	16.148	
5,000.00	4,986.25	4,955.68	4,913.30	13.22	17.01	-74.21	-96.91	-542.72	440.17	413.39	26.79	16.434	
5,100.00	5,086.25	5,054.17	5,010.29	13.27	17.45	-74.87	-97.47	-559.81	456.77	429.44	27.33	16.711	
5,200.00	5,186.25	5,152.65	5,107.27	13.33	17.88	-75.49	-98.02	-576.90	473.43	445.55	27.88	16.979	
5,300.00	5,286.25	5,251.13	5,204.26	13.39	18.31	-76.06	-98.58	-593.99	490.13	461.70	28.43	17.240	
5,400.00	5,386.25	5,349.61	5,301.24	13.44	18.75	-76.59	-99.14	-611.09	506.88	477.91	28.98	17.493	
5,500.00	5,486.25	5,448.09	5,398.23	13.50	19.18	-77.09	-99.69	-628.18	523.67	494.15	29.52	17.739	
5,600.00	5,586.25	5,546.57	5,495.21	13.56	19.62	-77.56	-100.25	-645.27	540.50	510.43	30.06	17.978	
5,700.00	5,686.25	5,645.05	5,592.20	13.62	20.05	-78.00	-100.80	-662.37	557.36	526.75	30.61	18.209	
5,800.00	5,786.25	5,743.53	5,689.18	13.67	20.49	-78.42	-101.36	-679.46	574.25	543.10	31.15	18.435	
5,900.00	5,886.25	5,842.01	5,786.16	13.73	20.93	-78.81	-101.92	-696.55	591.16	559.47	31.69	18.653	
6,000.00	5,986.25	5,940.49	5,883.15	13.79	21.36	-79.18	-102.47	-713.64	608.11	575.87	32.23	18.865	
6,100.00	6,086.25	6,038.97	5,980.13	13.85	21.80	-79.53	-103.03	-730.74	625.07	592.30	32.77	19.072	
6,200.00	6,186.25	6,137.45	6,077.12	13.91	22.24	-79.86	-103.59	-747.83	642.06	608.74	33.31	19.273	
6,300.00	6,286.25	6,235.93	6,174.10	13.97	22.68	-80.17	-104.14	-764.92	659.06	625.21	33.85	19.468	
6,400.00	6,386.25	6,334.41	6,271.09	14.03	23.12	-80.47	-104.70	-782.01	676.09	641.69	34.39	19.657	
6,500.00	6,486.25	6,432.89	6,368.07	14.09	23.56	-80.75	-105.26	-799.11	693.13	658.20	34.93	19.842	
6,600.00	6,586.25	6,531.37	6,465.05	14.15	24.00	-81.02	-105.81	-816.20	710.19	674.72	35.47	20.021	
6,700.00	6,686.25	6,629.86	6,562.04	14.21	24.44	-81.28	-106.37	-833.29	727.26	691.25	36.01	20.196	
6,800.00	6,786.25	6,728.34	6,659.02	14.27	24.88	-81.53	-106.93	-850.38	744.34	707.80	36.55	20.366	
6,900.00	6,886.25	6,826.82	6,756.01	14.33	25.33	-81.76	-107.48	-867.48	761.44	724.36	37.09	20.532	
7,000.00	6,986.25	6,925.30	6,852.99	14.39	25.77	-81.98	-108.04	-884.57	778.55	740.93	37.62	20.693	
7,100.00	7,086.25	7,023.78	6,949.98	14.45	26.21	-82.20	-108.60	-901.66	795.67	757.51	38.16	20.850	
7,200.00	7,186.25	7,122.26	7,046.96	14.51	26.65	-82.40	-109.15	-918.75	812.80	774.11	38.70	21.003	
7,300.00	7,286.25	7,220.74	7,143.95	14.57	27.10	-82.60	-109.71	-935.85	829.95	790.71	39.24	21.153	
7,400.00	7,386.25	7,319.22	7,240.93	14.63	27.54	-82.79	-110.27	-952.94	847.10	807.32	39.77	21.298	
7,500.00	7,486.25	7,417.70	7,337.91	14.69	27.98	-82.97	-110.82	-970.03	864.25	823.94	40.31	21.440	
7,600.00	7,586.25	7,516.18	7,434.90	14.76	28.43	-83.15	-111.38	-987.13	881.42	840.57	40.85	21.578	
7,700.00	7,686.25	7,614.66	7,531.88	14.82	28.87	-83.31	-111.94	-1,004.22	898.60	857.21	41.38	21.713	
7,800.00	7,786.25	7,713.14	7,628.87	14.88	29.32	-83.48	-112.49	-1,021.31	915.78	873.86	41.92	21.845	
7,900.00	7,886.25	7,811.62	7,725.85	14.94	29.76	-83.63	-113.05	-1,038.40	932.97	890.51	42.46	21.973	
8,000.00	7,986.25	7,910.10	7,822.84	15.01	30.20	-83.78	-113.60	-1,055.50	950.16	907.17	43.00	22.099	
8,100.00	8,086.25	8,008.58	7,919.82	15.07	30.65	-83.93	-114.16	-1,072.59	967.36	923.83	43.53	22.221	
8,200.00	8,186.25	8,107.07	8,016.80	15.13	31.09	-84.07	-114.72	-1,089.68	984.57	940.50	44.07	22.341	
13,600.00	10,470.00	13,592.46	10,470.00	61.52	74.51	-90.00	3,094.79	-1,391.25	1,319.91	1,186.21	133.70	9.872	
13,700.00	10,470.00	13,692.46	10,470.00	63.39	76.12	-90.00	3,194.78	-1,391.91	1,319.91	1,182.72	137.19	9.621	
13,800.00	10,470.00	13,792.46	10,470.00	65.26	77.74	-90.00	3,294.78	-1,392.58	1,319.91	1,179.21	140.70	9.381	
13,900.00	10,470.00	13,892.46	10,470.00	67.13	79.38	-90.00	3,394.78	-1,393.24	1,319.91	1,175.68	144.23	9.152	
14,000.00	10,470.00	13,992.46	10,470.00	69.01	81.02	-90.00	3,494.78	-1,393.90	1,319.91	1,172.15	147.76	8.933	
14,100.00	10,470.00	14,092.46	10,470.00	70.88	82.67	-90.00	3,594.77	-1,394.57	1,319.91	1,168.60	151.31	8.723	
14,200.00	10,470.00	14,192.46	10,470.00	72.76	84.34	-90.00	3,694.77	-1,395.23	1,319.91	1,165.03	154.88	8.522	
14,300.00	10,470.00	14,292.46	10,470.00	74.64	86.01	-90.00	3,794.77	-1,395.89	1,319.91	1,161.46	158.45	8.330	
14,400.00	10,470.00	14,392.46	10,470.00	76.52	87.69	-90.00	3,894.77	-1,396.56	1,319.91	1,157.87	162.04	8.146	
14,500.00	10,470.00	14,492.46	10,470.00	78.41	89.38	-90.00	3,994.77	-1,397.22	1,319.91	1,154.27	165.64	7.969	
14,600.00	10,470.00	14,592.46	10,470.00	80.29	91.08	-90.00	4,094.76	-1,397.88	1,319.91	1,150.67	169.24	7.799	
14,700.00	10,470.00	14,692.46	10,470.00	82.18	92.79	-90.00	4,194.76	-1,398.54	1,319.91	1,147.05	172.86	7.636	
14,800.00	10,470.00	14,792.46	10,470.00	84.07	94.50	-90.00	4,294.76	-1,399.21	1,319.91	1,143.43	176.48	7.479	
14,900.00	10,470.00	14,892.46	10,470.00	85.96	96.22	-90.00	4,394.76	-1,399.87	1,319.91	1,139.80	180.11	7.328	
15,000.00	10,470.00	14,992.46	10,470.00	87.85	97.94	-90.00	4,494.75	-1,400.53	1,319.91	1,136.16	183.75	7.183	
15,100.00	10,470.00	15,092.46	10,470.00	89.74	99.68	-90.00	4,594.75	-1,401.20	1,319.91	1,132.51	187.40	7.043	
15,200.00	10,470.00	15,192.46	10,470.00	91.63	101.42	-90.00	4,694.75	-1,401.86	1,319.91	1,128.86	191.05	6.909	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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
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	
15,300.00	10,470.00	15,292.46	10,470.00	93.52	103.16	-90.00	4,794.75	-1,402.52	1,319.91	1,125.20	194.71	6.779	
15,400.00	10,470.00	15,392.46	10,470.00	95.42	104.91	-90.00	4,894.75	-1,403.19	1,319.91	1,121.53	198.38	6.653	
15,500.00	10,470.00	15,492.46	10,470.00	97.31	106.66	-90.00	4,994.74	-1,403.85	1,319.91	1,117.86	202.05	6.533	
15,600.00	10,470.00	15,592.46	10,470.00	99.21	108.42	-90.00	5,094.74	-1,404.51	1,319.91	1,114.18	205.73	6.416	
15,700.00	10,470.00	15,692.46	10,470.00	101.10	110.19	-90.00	5,194.74	-1,405.18	1,319.91	1,110.50	209.41	6.303	
15,800.00	10,470.00	15,792.46	10,470.00	103.00	111.96	-90.00	5,294.74	-1,405.84	1,319.91	1,106.81	213.10	6.194	
15,900.00	10,470.00	15,892.46	10,470.00	104.90	113.73	-90.00	5,394.73	-1,406.50	1,319.91	1,103.12	216.79	6.088	
16,000.00	10,470.00	15,992.46	10,470.00	106.79	115.51	-90.00	5,494.73	-1,407.17	1,319.91	1,099.42	220.49	5.986	
16,100.00	10,470.00	16,092.46	10,470.00	108.69	117.29	-90.00	5,594.73	-1,407.83	1,319.91	1,095.72	224.19	5.887	
16,200.00	10,470.00	16,192.46	10,470.00	110.59	119.08	-90.00	5,694.73	-1,408.49	1,319.91	1,092.02	227.89	5.792	
16,300.00	10,470.00	16,292.46	10,470.00	112.49	120.87	-90.00	5,794.73	-1,409.16	1,319.91	1,088.31	231.60	5.699	
16,400.00	10,470.00	16,392.46	10,470.00	114.39	122.66	-90.00	5,894.72	-1,409.82	1,319.91	1,084.59	235.32	5.609	
16,500.00	10,470.00	16,492.46	10,470.00	116.29	124.45	-90.00	5,994.72	-1,410.48	1,319.91	1,080.88	239.03	5.522	
16,600.00	10,470.00	16,592.46	10,470.00	118.19	126.25	-90.00	6,094.72	-1,411.15	1,319.91	1,077.16	242.75	5.437	
16,700.00	10,470.00	16,692.46	10,470.00	120.09	128.06	-90.00	6,194.72	-1,411.81	1,319.91	1,073.44	246.47	5.355	
16,800.00	10,470.00	16,792.46	10,470.00	122.00	129.86	-90.00	6,294.72	-1,412.47	1,319.91	1,069.71	250.20	5.275	
16,900.00	10,470.00	16,892.46	10,470.00	123.90	131.67	-90.00	6,394.71	-1,413.14	1,319.91	1,065.98	253.93	5.198	
17,000.00	10,470.00	16,992.46	10,470.00	125.80	133.48	-90.00	6,494.71	-1,413.80	1,319.91	1,062.25	257.66	5.123	
17,100.00	10,470.00	17,092.46	10,470.00	127.70	135.30	-90.00	6,594.71	-1,414.46	1,319.91	1,058.51	261.40	5.049	
17,200.00	10,470.00	17,192.46	10,470.00	129.61	137.11	-90.00	6,694.71	-1,415.13	1,319.91	1,054.78	265.13	4.978	
17,300.00	10,470.00	17,292.46	10,470.00	131.51	138.93	-90.00	6,794.70	-1,415.79	1,319.91	1,051.04	268.87	4.909	
17,400.00	10,470.00	17,392.46	10,470.00	133.42	140.75	-90.00	6,894.70	-1,416.45	1,319.91	1,047.30	272.62	4.842	
17,500.00	10,470.00	17,492.46	10,470.00	135.32	142.58	-90.00	6,994.70	-1,417.11	1,319.91	1,043.55	276.36	4.776	
17,600.00	10,470.00	17,592.46	10,470.00	137.22	144.40	-90.00	7,094.70	-1,417.78	1,319.91	1,039.80	280.11	4.712	
17,700.00	10,470.00	17,692.46	10,470.00	139.13	146.23	-90.00	7,194.70	-1,418.44	1,319.91	1,036.06	283.86	4.650	
17,800.00	10,470.00	17,792.46	10,470.00	141.03	148.06	-90.00	7,294.69	-1,419.10	1,319.91	1,032.30	287.61	4.589	
17,900.00	10,470.00	17,892.46	10,470.00	142.94	149.89	-90.00	7,394.69	-1,419.77	1,319.91	1,028.55	291.36	4.530	
18,000.00	10,470.00	17,992.46	10,470.00	144.84	151.73	-90.00	7,494.69	-1,420.43	1,319.91	1,024.80	295.11	4.473	
18,100.00	10,470.00	18,092.46	10,470.00	146.75	153.56	-90.00	7,594.69	-1,421.09	1,319.91	1,021.04	298.87	4.416	
18,200.00	10,470.00	18,192.46	10,470.00	148.66	155.40	-90.00	7,694.68	-1,421.76	1,319.91	1,017.28	302.63	4.361	
18,300.00	10,470.00	18,292.46	10,470.00	150.56	157.24	-90.00	7,794.68	-1,422.42	1,319.91	1,013.52	306.39	4.308	
18,400.00	10,470.00	18,392.46	10,470.00	152.47	159.08	-90.00	7,894.68	-1,423.08	1,319.91	1,009.76	310.15	4.256	
18,500.00	10,470.00	18,492.46	10,470.00	154.37	160.92	-90.00	7,994.68	-1,423.75	1,319.91	1,006.00	313.91	4.205	
18,600.00	10,470.00	18,592.46	10,470.00	156.28	162.77	-90.00	8,094.68	-1,424.41	1,319.91	1,002.23	317.68	4.155	
18,700.00	10,470.00	18,692.46	10,470.00	158.19	164.61	-90.00	8,194.67	-1,425.07	1,319.91	998.47	321.45	4.106	
18,800.00	10,470.00	18,792.46	10,470.00	160.10	166.46	-90.00	8,294.67	-1,425.74	1,319.91	994.70	325.21	4.059	
18,900.00	10,470.00	18,892.46	10,470.00	162.00	168.31	-90.00	8,394.67	-1,426.40	1,319.91	990.93	328.98	4.012	
19,000.00	10,470.00	18,992.46	10,470.00	163.91	170.16	-90.00	8,494.67	-1,427.06	1,319.91	987.16	332.75	3.967	
19,100.00	10,470.00	19,092.46	10,470.00	165.82	172.01	-90.00	8,594.66	-1,427.73	1,319.91	983.39	336.52	3.922	
19,200.00	10,470.00	19,192.46	10,470.00	167.73	173.87	-90.00	8,694.66	-1,428.39	1,319.91	979.61	340.30	3.879	
19,300.00	10,470.00	19,292.46	10,470.00	169.63	175.72	-90.00	8,794.66	-1,429.05	1,319.91	975.84	344.07	3.836	
19,400.00	10,470.00	19,392.46	10,470.00	171.54	177.58	-90.00	8,894.66	-1,429.72	1,319.91	972.06	347.85	3.795	
19,500.00	10,470.00	19,492.46	10,470.00	173.45	179.43	-90.00	8,994.66	-1,430.38	1,319.91	968.29	351.62	3.754	
19,600.00	10,470.00	19,592.46	10,470.00	175.36	181.29	-90.00	9,094.65	-1,431.04	1,319.91	964.51	355.40	3.714	
19,700.00	10,470.00	19,692.46	10,470.00	177.27	183.15	-90.00	9,194.65	-1,431.71	1,319.91	960.73	359.18	3.675	
19,800.00	10,470.00	19,792.46	10,470.00	179.17	185.01	-90.00	9,294.65	-1,432.37	1,319.91	956.95	362.96	3.637	
19,900.00	10,470.00	19,892.46	10,470.00	181.08	186.87	-90.00	9,394.65	-1,433.03	1,319.91	953.17	366.74	3.599	
20,000.00	10,470.00	19,992.46	10,470.00	182.99	188.73	-90.00	9,494.64	-1,433.70	1,319.91	949.39	370.52	3.562	
20,100.00	10,470.00	20,092.46	10,470.00	184.90	190.59	-90.00	9,594.64	-1,434.36	1,319.91	945.61	374.30	3.526	
20,200.00	10,470.00	20,192.46	10,470.00	186.81	192.46	-90.00	9,694.64	-1,435.02	1,319.91	941.82	378.09	3.491	
20,300.00	10,470.00	20,292.46	10,470.00	188.72	194.32	-90.00	9,794.64	-1,435.69	1,319.91	938.04	381.87	3.456	
20,400.00	10,470.00	20,392.46	10,470.00	190.63	196.19	-90.00	9,894.64	-1,436.35	1,319.91	934.25	385.66	3.422	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
20,500.00	10,470.00	20,492.46	10,470.00	192.54	198.06	-90.00	9,994.63	-1,437.01	1,319.91	930.47	389.44	3.389	
20,600.00	10,470.00	20,592.46	10,470.00	194.45	199.92	-90.00	10,094.63	-1,437.67	1,319.91	926.68	393.23	3.357	
20,691.52	10,470.00	20,683.98	10,470.00	196.05	201.54	-90.00	10,186.15	-1,438.28	1,319.91	923.50	396.41	3.330 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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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
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	
16,000.00	10,470.00	16,966.32	11,440.00	106.79	107.22	120.12	5,514.37	1,572.73	1,919.15	1,726.88	192.27	9.982	CC
16,100.00	10,470.00	17,066.32	11,440.00	108.69	109.12	120.12	5,614.37	1,572.08	1,919.16	1,723.54	195.62	9.810	
16,200.00	10,470.00	17,166.32	11,440.00	110.59	111.01	120.12	5,714.36	1,571.42	1,919.17	1,720.19	198.98	9.645	
16,300.00	10,470.00	17,266.32	11,440.00	112.49	112.91	120.12	5,814.36	1,570.77	1,919.17	1,716.84	202.34	9.485	
16,400.00	10,470.00	17,366.32	11,440.00	114.39	114.81	120.12	5,914.36	1,570.11	1,919.18	1,713.49	205.70	9.330	
16,500.00	10,470.00	17,466.32	11,440.00	116.29	116.71	120.12	6,014.36	1,569.46	1,919.19	1,710.13	209.06	9.180	
16,600.00	10,470.00	17,566.32	11,440.00	118.19	118.61	120.12	6,114.36	1,568.80	1,919.19	1,706.78	212.42	9.035	
16,700.00	10,470.00	17,666.32	11,440.00	120.09	120.51	120.12	6,214.35	1,568.15	1,919.20	1,703.42	215.78	8.894	
16,800.00	10,470.00	17,766.32	11,440.00	122.00	122.42	120.12	6,314.35	1,567.49	1,919.21	1,700.06	219.14	8.758	
16,900.00	10,470.00	17,866.32	11,440.00	123.90	124.32	120.12	6,414.35	1,566.83	1,919.21	1,696.71	222.51	8.625	
17,000.00	10,470.00	17,966.32	11,440.00	125.80	126.22	120.12	6,514.35	1,566.18	1,919.22	1,693.35	225.87	8.497	
17,100.00	10,470.00	18,066.32	11,440.00	127.70	128.12	120.12	6,614.34	1,565.52	1,919.23	1,689.98	229.24	8.372	
17,200.00	10,470.00	18,166.32	11,440.00	129.61	130.02	120.12	6,714.34	1,564.87	1,919.23	1,686.62	232.61	8.251	
17,300.00	10,470.00	18,266.32	11,440.00	131.51	131.93	120.12	6,814.34	1,564.21	1,919.24	1,683.26	235.98	8.133	
17,400.00	10,470.00	18,366.32	11,440.00	133.42	133.83	120.12	6,914.34	1,563.56	1,919.25	1,679.90	239.35	8.019	
17,500.00	10,470.00	18,466.32	11,440.00	135.32	135.73	120.12	7,014.34	1,562.90	1,919.25	1,676.53	242.72	7.907	
17,600.00	10,470.00	18,566.32	11,440.00	137.22	137.64	120.12	7,114.33	1,562.25	1,919.26	1,673.17	246.09	7.799	
17,700.00	10,470.00	18,666.32	11,440.00	139.13	139.54	120.12	7,214.33	1,561.59	1,919.27	1,669.80	249.47	7.693	
17,800.00	10,470.00	18,766.32	11,440.00	141.03	141.45	120.12	7,314.33	1,560.94	1,919.27	1,666.43	252.84	7.591	
17,900.00	10,470.00	18,866.32	11,440.00	142.94	143.35	120.12	7,414.33	1,560.28	1,919.28	1,663.06	256.22	7.491	
18,000.00	10,470.00	18,966.32	11,440.00	144.84	145.26	120.12	7,514.32	1,559.62	1,919.29	1,659.70	259.59	7.393	
18,100.00	10,470.00	19,066.32	11,440.00	146.75	147.16	120.12	7,614.32	1,558.97	1,919.29	1,656.33	262.97	7.299	
18,200.00	10,470.00	19,166.32	11,440.00	148.66	149.07	120.12	7,714.32	1,558.31	1,919.30	1,652.96	266.35	7.206	
18,300.00	10,470.00	19,266.32	11,440.00	150.56	150.97	120.12	7,814.32	1,557.66	1,919.31	1,649.58	269.72	7.116	
18,400.00	10,470.00	19,366.32	11,440.00	152.47	152.88	120.12	7,914.32	1,557.00	1,919.31	1,646.21	273.10	7.028	
18,500.00	10,470.00	19,466.32	11,440.00	154.37	154.79	120.12	8,014.31	1,556.35	1,919.32	1,642.84	276.48	6.942	
18,600.00	10,470.00	19,566.32	11,440.00	156.28	156.69	120.12	8,114.31	1,555.69	1,919.33	1,639.47	279.86	6.858	
18,700.00	10,470.00	19,666.32	11,440.00	158.19	158.60	120.11	8,214.31	1,555.04	1,919.33	1,636.09	283.24	6.776	
18,800.00	10,470.00	19,766.32	11,440.00	160.10	160.51	120.11	8,314.31	1,554.38	1,919.34	1,632.72	286.62	6.696	
18,900.00	10,470.00	19,866.32	11,440.00	162.00	162.41	120.11	8,414.31	1,553.73	1,919.35	1,629.35	290.00	6.618	
19,000.00	10,470.00	19,966.32	11,440.00	163.91	164.32	120.11	8,514.30	1,553.07	1,919.35	1,625.97	293.38	6.542	
19,100.00	10,470.00	20,066.32	11,440.00	165.82	166.23	120.11	8,614.30	1,552.41	1,919.36	1,622.60	296.77	6.468	
19,200.00	10,470.00	20,166.32	11,440.00	167.73	168.13	120.11	8,714.30	1,551.76	1,919.37	1,619.22	300.15	6.395	
19,300.00	10,470.00	20,266.32	11,440.00	169.63	170.04	120.11	8,814.30	1,551.10	1,919.37	1,615.84	303.53	6.323	
19,400.00	10,470.00	20,366.32	11,440.00	171.54	171.95	120.11	8,914.29	1,550.45	1,919.38	1,612.47	306.92	6.254	
19,500.00	10,470.00	20,466.32	11,440.00	173.45	173.86	120.11	9,014.29	1,549.79	1,919.39	1,609.09	310.30	6.186	
19,600.00	10,470.00	20,566.32	11,440.00	175.36	175.77	120.11	9,114.29	1,549.14	1,919.39	1,605.71	313.68	6.119	
19,700.00	10,470.00	20,666.32	11,440.00	177.27	177.67	120.11	9,214.29	1,548.48	1,919.40	1,602.33	317.07	6.054	
19,800.00	10,470.00	20,766.32	11,440.00	179.17	179.58	120.11	9,314.29	1,547.83	1,919.41	1,598.95	320.45	5.990	
19,900.00	10,470.00	20,866.32	11,440.00	181.08	181.49	120.11	9,414.28	1,547.17	1,919.41	1,595.57	323.84	5.927	
20,000.00	10,470.00	20,966.32	11,440.00	182.99	183.40	120.11	9,514.28	1,546.52	1,919.42	1,592.19	327.23	5.866	
20,100.00	10,470.00	21,066.32	11,440.00	184.90	185.31	120.11	9,614.28	1,545.86	1,919.43	1,588.82	330.61	5.806	
20,200.00	10,470.00	21,166.32	11,440.00	186.81	187.22	120.11	9,714.28	1,545.20	1,919.44	1,585.43	334.00	5.747	
20,300.00	10,470.00	21,266.32	11,440.00	188.72	189.12	120.11	9,814.28	1,544.55	1,919.44	1,582.05	337.39	5.689	
20,400.00	10,470.00	21,366.32	11,440.00	190.63	191.03	120.11	9,914.27	1,543.89	1,919.45	1,578.67	340.77	5.633	
20,500.00	10,470.00	21,466.32	11,440.00	192.54	192.94	120.11	10,014.27	1,543.24	1,919.46	1,575.29	344.16	5.577	
20,600.00	10,470.00	21,566.32	11,440.00	194.45	194.85	120.11	10,114.27	1,542.58	1,919.46	1,571.91	347.55	5.523	
20,606.51	10,470.00	21,572.83	11,440.00	194.56	194.98	120.11	10,120.78	1,542.54	1,919.46	1,571.70	347.76	5.520	
20,691.52	10,470.00	21,655.68	11,440.00	196.05	196.56	120.11	10,203.62	1,542.00	1,919.47	1,569.03	350.44	5.477	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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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												Offset Well Error: 15.00 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 +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,900.00	10,470.00	10,375.87	10,374.50	123.90	211.38	90.00	8,644.92	-107.96	2,241.50	2,010.37	231.13	9.698	
17,000.00	10,470.00	10,422.29	10,420.90	125.80	212.59	179.80	8,644.69	-107.96	2,141.78	1,908.75	233.03	9.191	
17,100.00	10,470.00	10,413.30	10,411.92	127.70	212.35	179.75	8,644.87	-107.96	2,041.80	1,808.95	232.84	8.769	
17,200.00	10,470.00	10,406.71	10,405.34	129.61	212.18	179.70	8,644.99	-107.96	1,941.81	1,709.07	232.74	8.343	
17,300.00	10,470.00	10,401.68	10,400.30	131.51	212.05	179.64	8,645.06	-107.96	1,841.82	1,609.13	232.70	7.915	
17,400.00	10,470.00	10,397.70	10,396.33	133.42	211.95	179.57	8,645.11	-107.96	1,741.83	1,509.14	232.69	7.486	
17,500.00	10,470.00	10,394.49	10,393.12	135.32	211.86	179.50	8,645.15	-107.96	1,641.84	1,409.13	232.71	7.055	
17,600.00	10,470.00	10,391.83	10,390.46	137.22	211.79	179.41	8,645.18	-107.96	1,541.85	1,309.09	232.75	6.624	
17,700.00	10,470.00	10,389.60	10,388.23	139.13	211.73	179.32	8,645.20	-107.96	1,441.85	1,209.04	232.81	6.193	
17,800.00	10,470.00	10,387.70	10,386.33	141.03	211.68	179.21	8,645.22	-107.96	1,341.85	1,108.98	232.88	5.762	
17,900.00	10,470.00	10,386.06	10,384.69	142.94	211.64	179.08	8,645.24	-107.96	1,241.86	1,008.90	232.96	5.331	
18,000.00	10,470.00	10,384.64	10,383.27	144.84	211.60	178.93	8,645.25	-107.96	1,141.86	908.82	233.04	4.900	
18,100.00	10,470.00	10,383.38	10,382.01	146.75	211.57	178.75	8,645.26	-107.96	1,041.86	808.73	233.14	4.469	
18,200.00	10,470.00	10,382.27	10,380.90	148.66	211.54	178.53	8,645.26	-107.96	941.87	708.63	233.24	4.038	
18,300.00	10,470.00	10,381.28	10,379.91	150.56	211.52	178.26	8,645.27	-107.96	841.87	608.53	233.34	3.608	
18,400.00	10,470.00	10,380.40	10,379.03	152.47	211.49	177.92	8,645.28	-107.96	741.87	508.42	233.45	3.178	
18,500.00	10,470.00	10,379.59	10,378.22	154.37	211.47	177.47	8,645.28	-107.96	641.87	408.31	233.57	2.748	
18,600.00	10,470.00	10,378.87	10,377.50	156.28	211.45	176.86	8,645.28	-107.96	541.87	308.19	233.68	2.319	
18,700.00	10,470.00	10,378.20	10,376.84	158.19	211.44	175.97	8,645.29	-107.96	441.88	208.07	233.80	1.890	Collision Risk Procedures Req.
18,800.00	10,470.00	10,377.60	10,376.23	160.10	211.42	174.57	8,645.29	-107.96	341.88	107.95	233.93	1.461	Collision Avoidance Req.
18,900.00	10,470.00	10,377.04	10,375.67	162.00	211.41	172.02	8,645.29	-107.96	241.88	7.82	234.05	1.033	Collision Avoidance Req.
19,000.00	10,470.00	10,376.53	10,375.16	163.91	211.39	166.01	8,645.30	-107.96	141.88	-92.30	234.18	0.606	No-Go Zone - Stop Drilling
19,100.00	10,470.00	10,376.06	10,374.69	165.82	211.38	138.51	8,645.30	-107.96	41.88	-192.45	234.33	0.179	No-Go Zone - Stop Drilling
19,141.90	10,470.00	10,375.87	10,374.50	166.62	211.38	89.21	8,645.30	-107.96	0.17	-376.06	376.23	0.000	No-Go Zone - Stop Drilling, CC, ES, SF
19,200.00	10,470.00	10,375.62	10,374.25	167.73	211.37	32.95	8,645.30	-107.96	58.12	-176.32	234.43	0.248	No-Go Zone - Stop Drilling
19,300.00	10,470.00	10,375.21	10,373.84	169.63	211.36	13.94	8,645.30	-107.96	158.12	-76.45	234.57	0.674	No-Go Zone - Stop Drilling
19,400.00	10,470.00	10,374.83	10,373.46	171.54	211.35	8.96	8,645.30	-107.96	258.12	23.41	234.71	1.100	Collision Avoidance Req.
19,500.00	10,470.00	10,374.47	10,373.10	173.45	211.34	6.70	8,645.31	-107.96	358.12	123.27	234.84	1.525	Collision Risk Procedures Req.
19,600.00	10,470.00	10,374.14	10,372.77	175.36	211.33	5.42	8,645.31	-107.96	458.12	223.13	234.98	1.950	Collision Risk Procedures Req.
19,700.00	10,470.00	10,373.82	10,372.45	177.27	211.32	4.60	8,645.31	-107.96	558.11	322.99	235.12	2.374	
19,800.00	10,470.00	10,373.53	10,372.16	179.17	211.31	4.02	8,645.31	-107.96	658.11	422.85	235.26	2.797	
19,900.00	10,470.00	10,373.25	10,371.88	181.08	211.31	3.60	8,645.31	-107.96	758.11	522.71	235.41	3.220	
20,000.00	10,470.00	10,372.99	10,371.62	182.99	211.30	3.27	8,645.31	-107.96	858.11	622.56	235.55	3.643	
20,100.00	10,470.00	10,372.74	10,371.38	184.90	211.29	3.01	8,645.31	-107.96	958.11	722.42	235.69	4.065	
20,200.00	10,470.00	10,372.51	10,371.14	186.81	211.29	2.80	8,645.31	-107.96	1,058.11	822.27	235.84	4.487	
20,300.00	10,470.00	10,372.29	10,370.92	188.72	211.28	2.63	8,645.31	-107.96	1,158.11	922.13	235.99	4.908	
20,400.00	10,470.00	10,372.08	10,370.71	190.63	211.28	2.48	8,645.31	-107.96	1,258.11	1,021.98	236.13	5.328	
20,500.00	10,470.00	10,371.88	10,370.51	192.54	211.27	2.36	8,645.31	-107.96	1,358.11	1,121.83	236.28	5.748	
20,600.00	10,470.00	10,371.69	10,370.32	194.45	211.27	2.25	8,645.31	-107.96	1,458.11	1,221.68	236.43	6.167	
20,691.52	10,470.00	10,371.52	10,370.15	196.05	211.26	2.17	8,645.32	-107.96	1,549.63	1,303.96	245.67	6.308	

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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 @ 3695.50usft (Patterson 813)

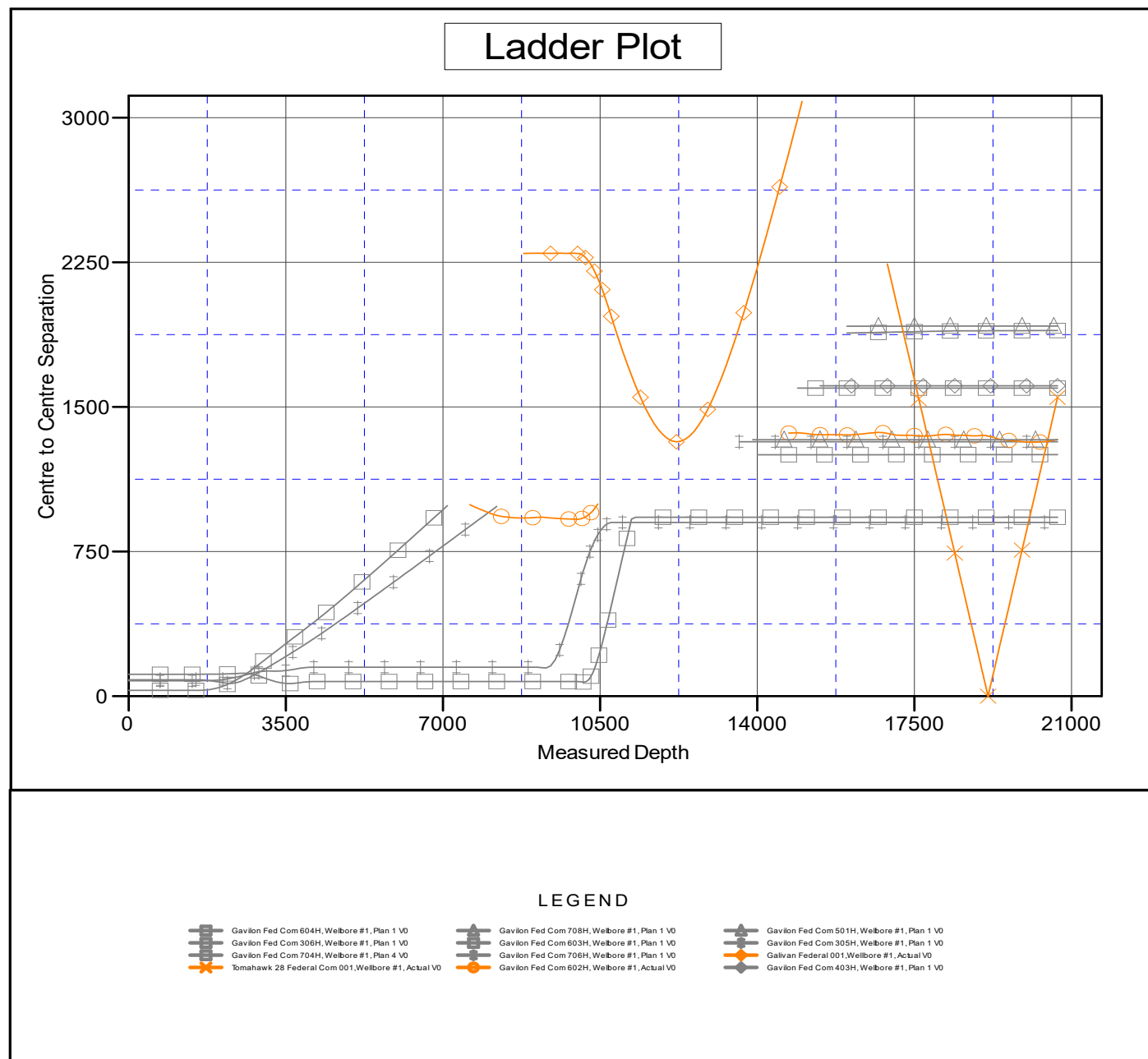
Offset Depths are relative to Offset Datum

Central Meridian is -104.33333334

Coordinates are relative to: Gavilon Fed Com 505H

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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 505H	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 @ 3695.50usft (Patterson 813)

Offset Depths are relative to Offset Datum

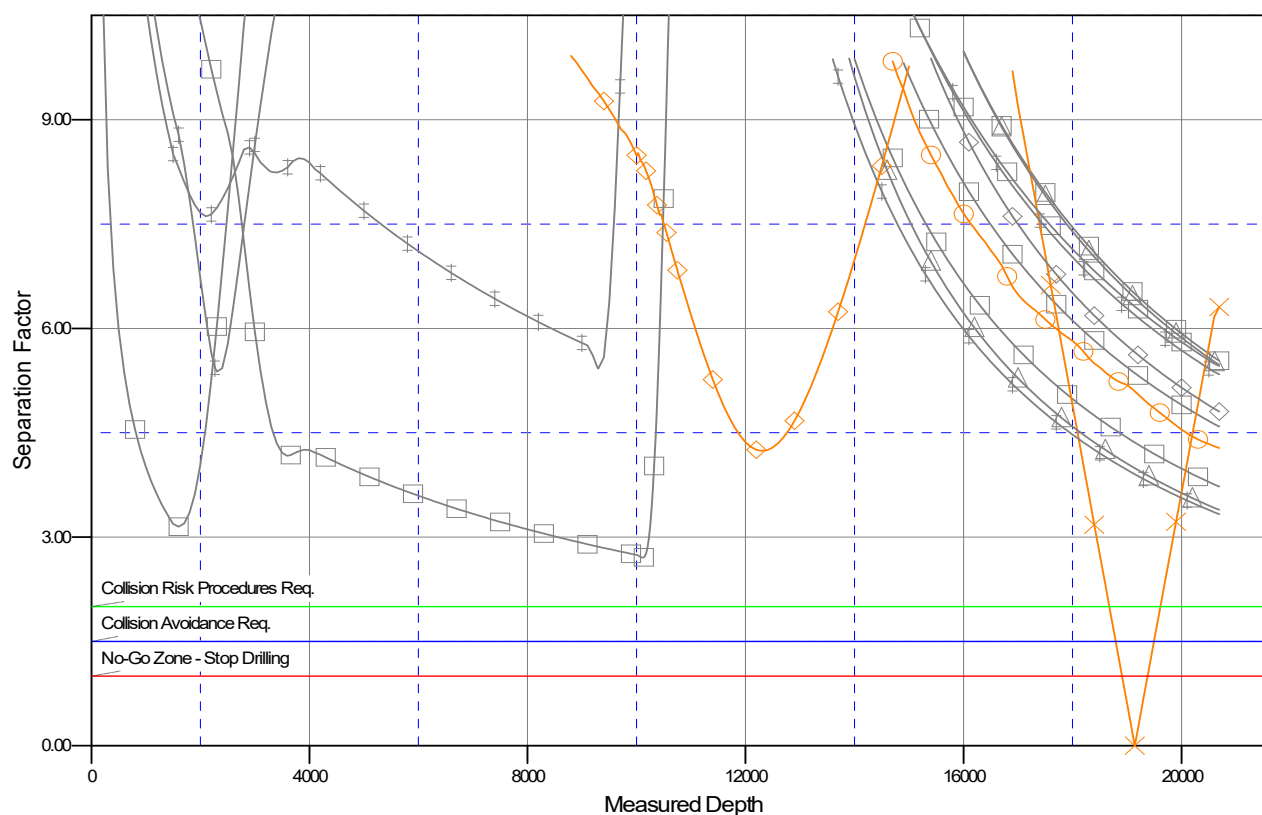
Central Meridian is -104.33333334

Coordinates are relative to: Gavilon Fed Com 505H

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 708H, Wellbore #1, Plan 1 V0		Gavilon Fed Com 501H, Wellbore #1, Plan 1 V0
	Gavilon Fed Com 306H, Wellbore #1, Plan 1 V0		Gavilon Fed Com 603H, Wellbore #1, Plan 1 V0		Gavilon Fed Com 305H, Wellbore #1, Plan 1 V0
	Gavilon Fed Com 704H, Wellbore #1, Plan 4 V0		Gavilon Fed Com 706H, Wellbore #1, Plan 1 V0		Gavilan Federal 001 Wellbore #1, Actual V0
	Tomahawk 28 Federal Com 001, Wellbore #1, Actual V0		Gavilon Fed Com 602H, Wellbore #1, Actual 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



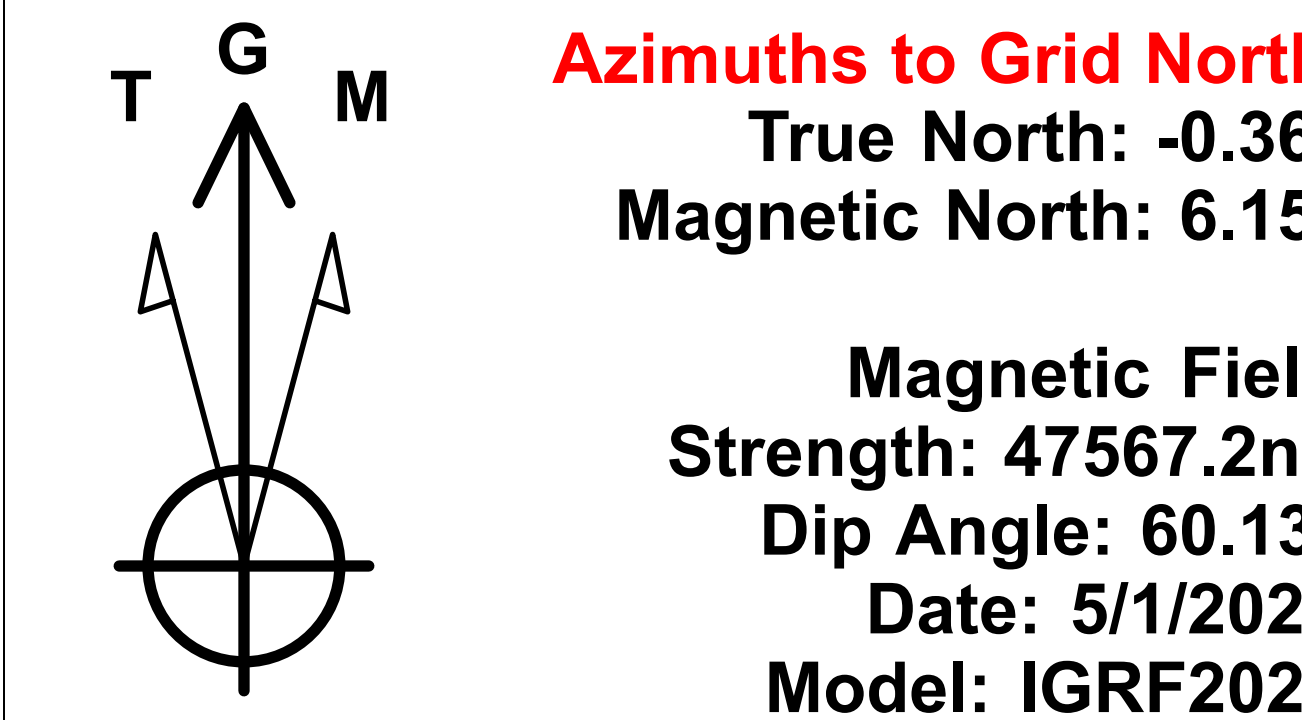
Gavilon Fed Com 505H Patterson 813

WELL DETAILS: Gavilon Fed Com 505H

+N/-S		+E/-W		ELEVATION: 3667.00		Northing		Easting		Latitude		Longitude	
0.00		0.00				554600.90		704535.00		32.52295668		-103.66974410	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	Begin Nudge
2199.78	7.00	210.17	2198.04	-36.90	-21.45	1.00	210.17	-36.75	EOB
3657.24	7.00	210.17	3644.64	-190.40	-110.70	0.00	0.00	-189.66	EOH
4123.75	0.00	0.00	4110.00	-215.00	-125.00	1.50	180.00	-214.17	Vertical
9999.75	0.00	0.00	9986.00	-215.00	-125.00	0.00	0.00	-214.17	KOP
10398.38	47.83	14.20	10339.92	-62.86	-86.51	12.00	14.20	-62.28	EOB
10766.52	90.00	359.62	10470.00	270.12	-52.58	12.00	-21.17	270.46	Land Point
20691.52	90.00	359.62	10470.00	10194.90	-118.40	0.00	0.00	10195.46	BHL

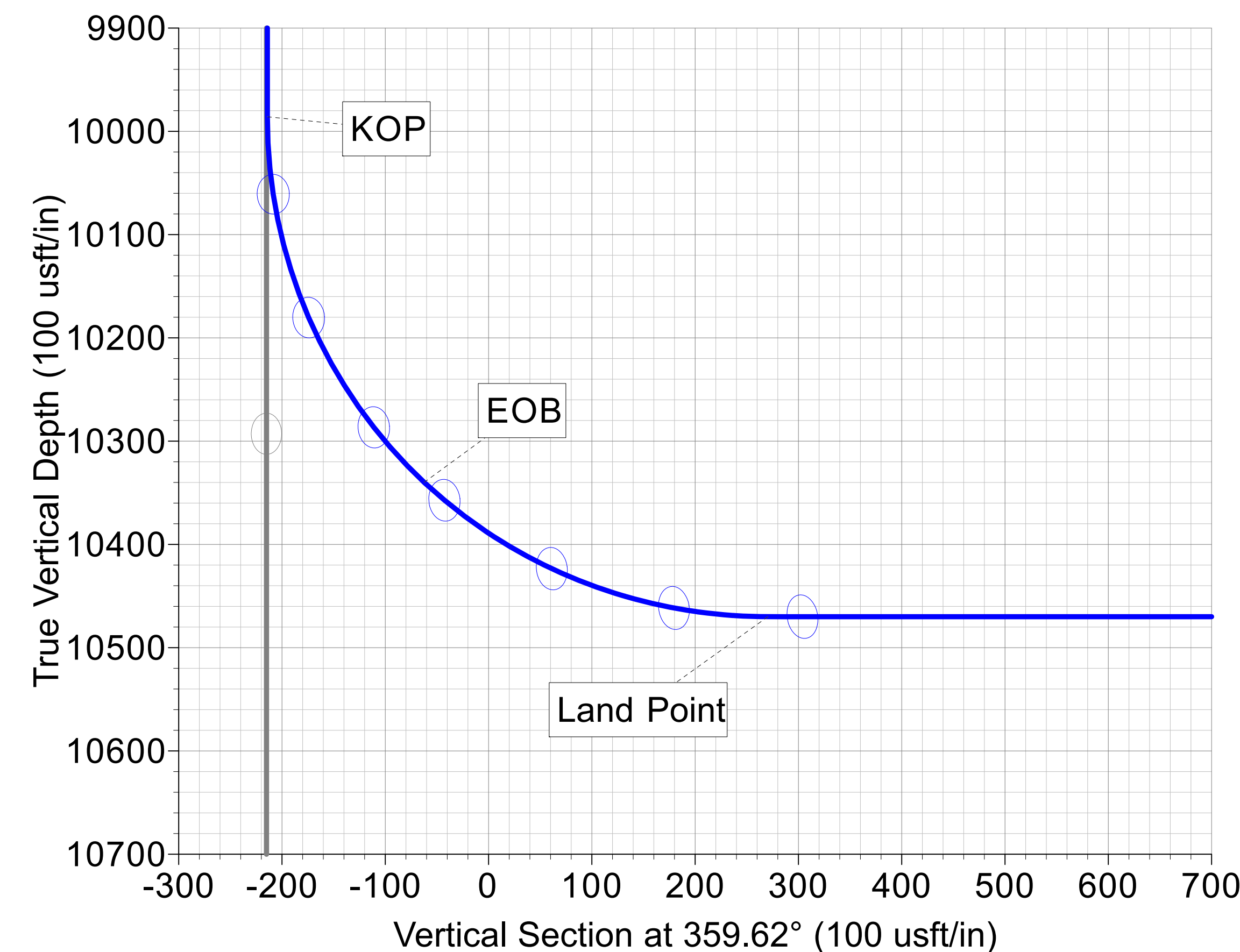
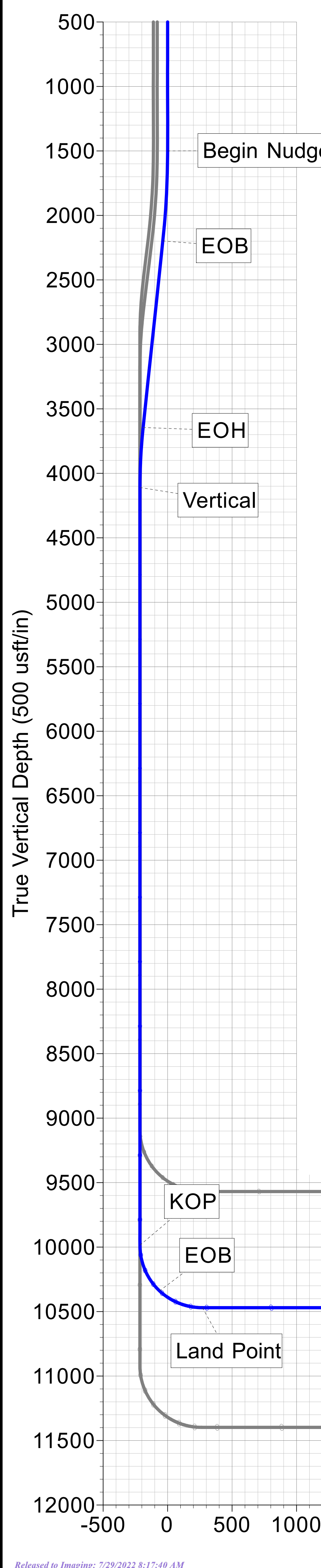


Azimuths to Grid North
True North: -0.36°
Magnetic North: 6.15°

Magnetic Field
Strength: 47567.2nT
Dip Angle: 60.13°
Date: 5/1/2022
Model: IGRF2020

Grid North is 0.36° East of True North (Grid Convergence)
Magnetic North is 6.51° East of True North (Magnetic Declination)
Magnetic North is 6.15° East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Subtract 0.36°
To convert a Magnetic Direction to a True Direction, Add 6.51° East
To convert a Magnetic Direction to a Grid Direction, Add 6.15°



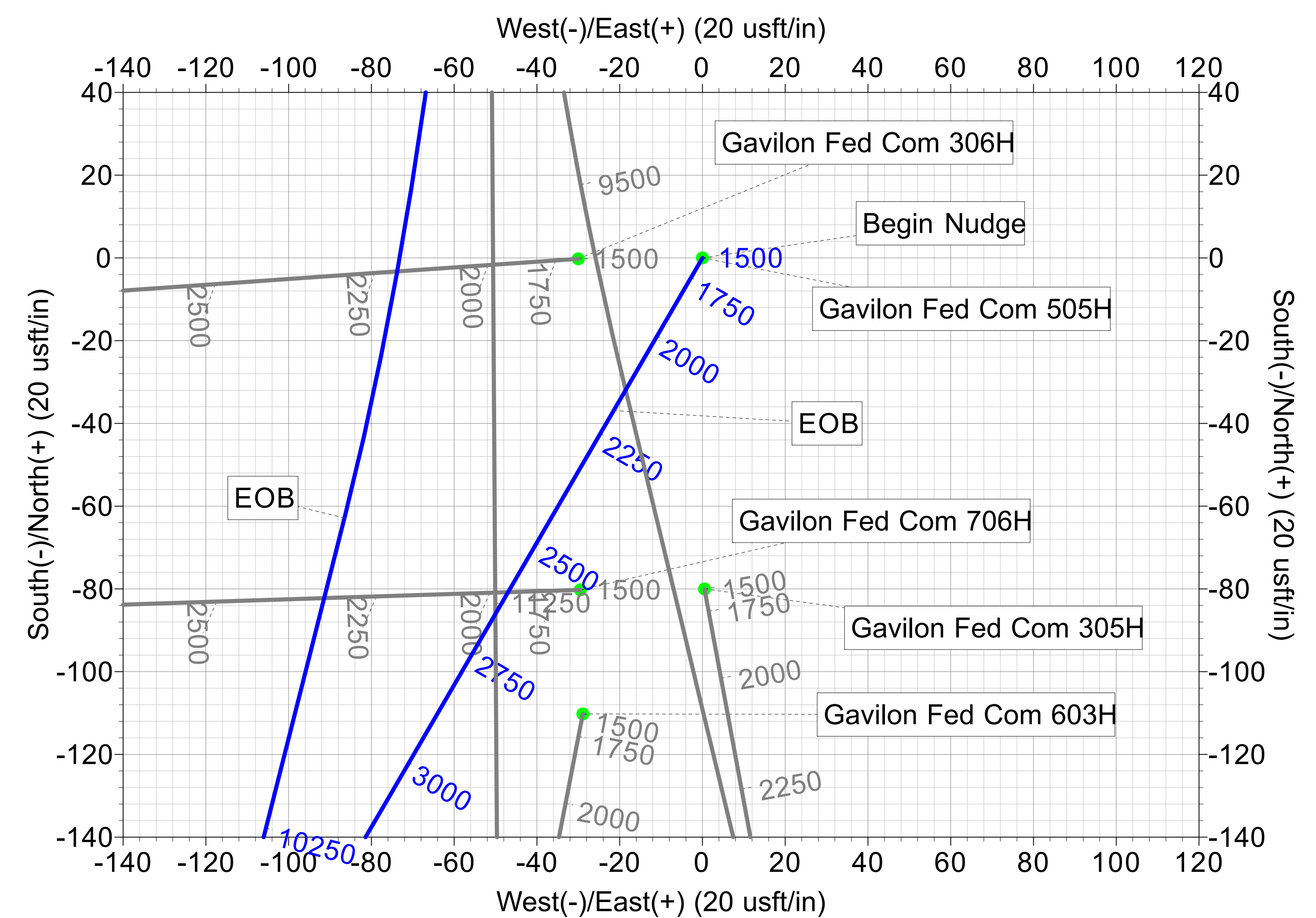
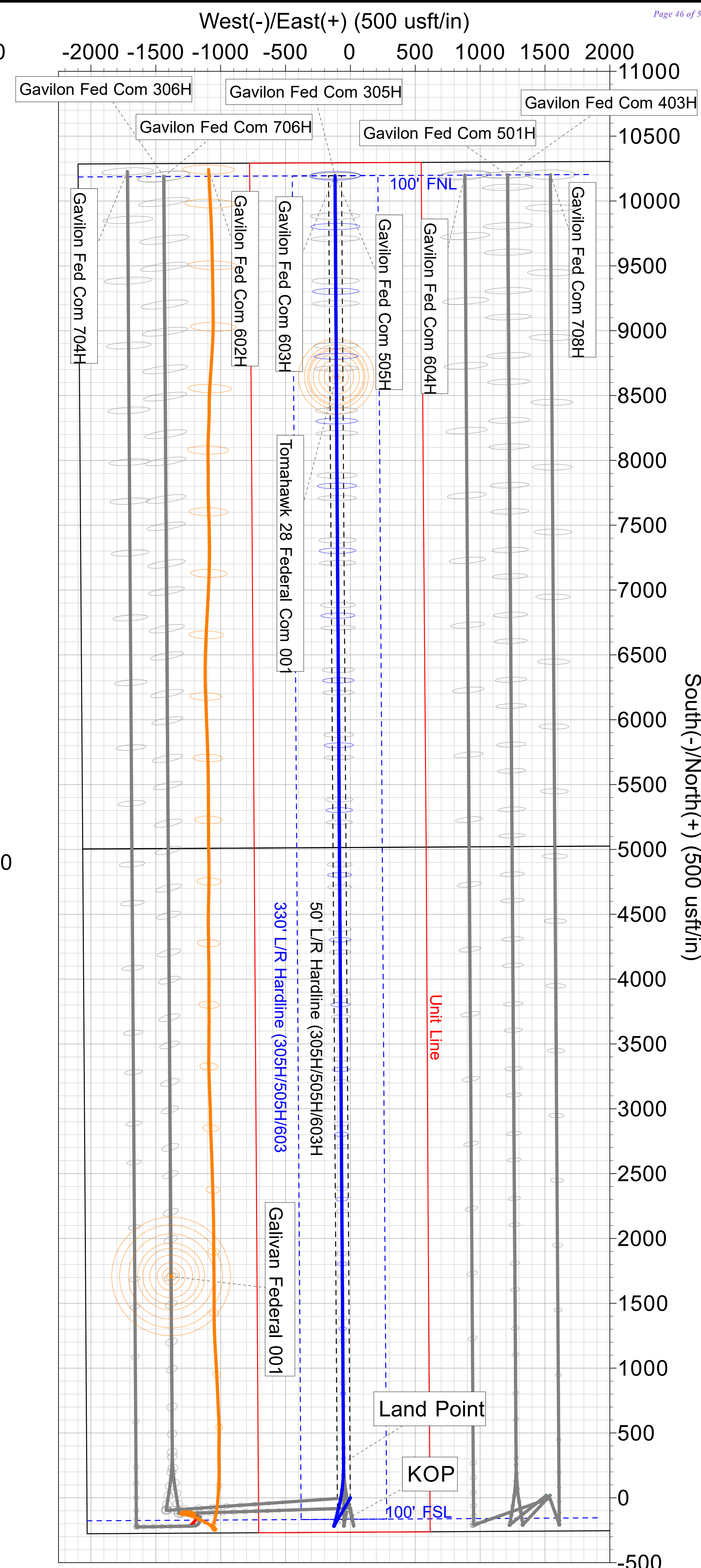
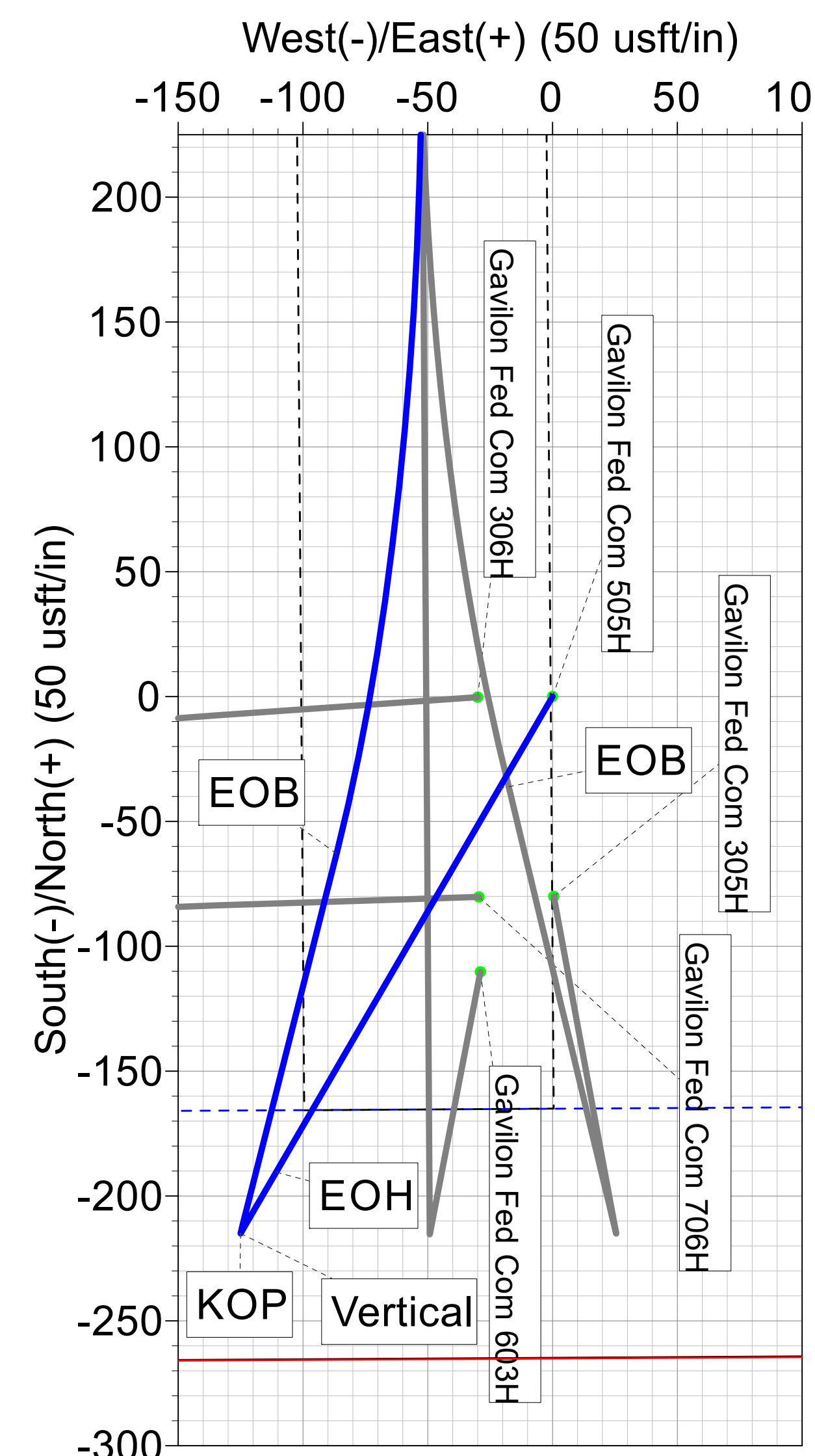
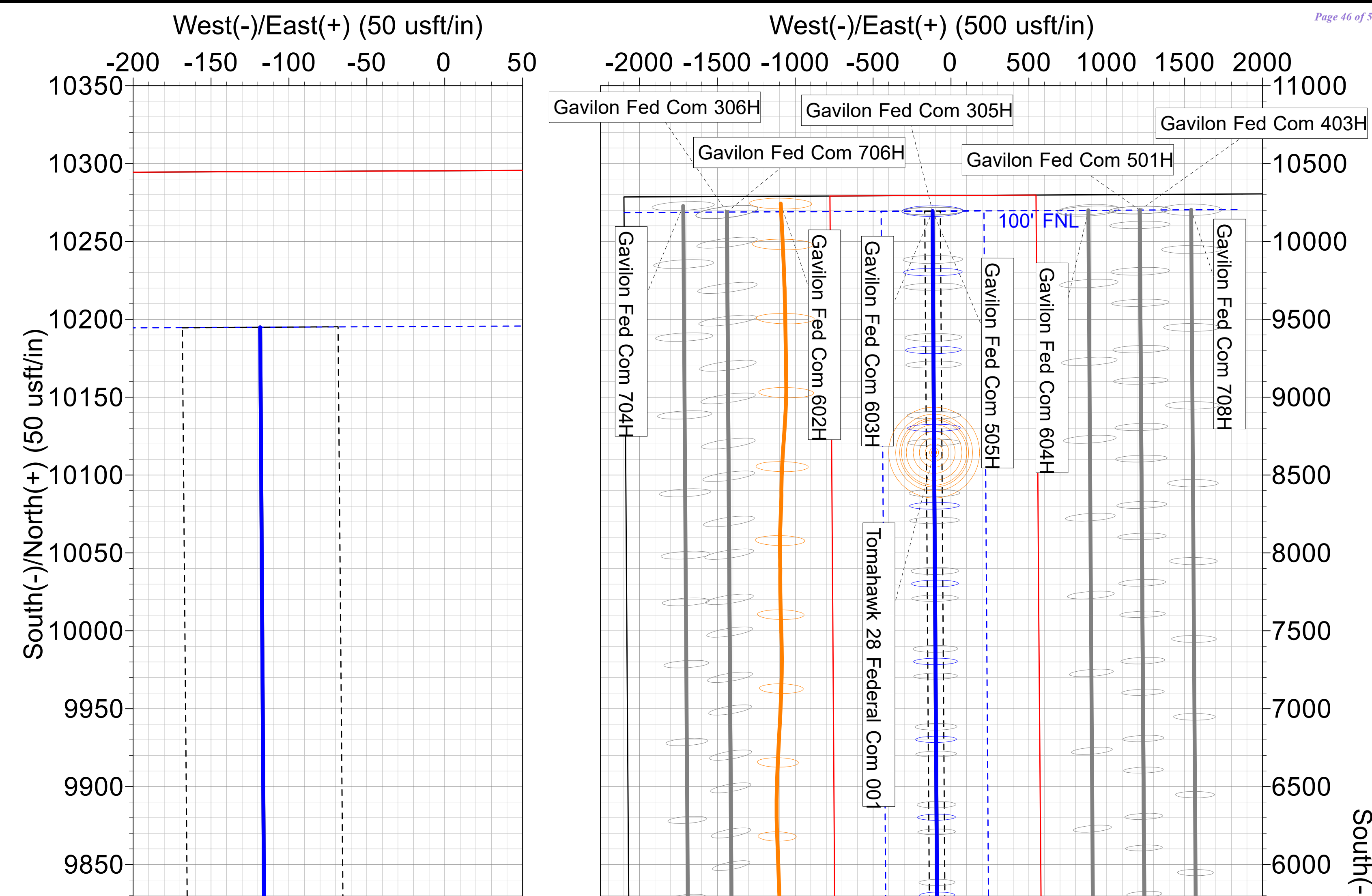
Project: Lea County, NM (NAD27)
Site: Gavilon Fed Com Pads (Grid)
Well: Gavilon Fed Com 505H
Wellbore: Wellbore #1
Design: Plan 1
Rig: Patterson 813
Depths: RKB @ 3695.50usft (Patterson 813)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001

System Datum: Mean Sea Level

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	20690.88	Plan 1 (Wellbore #1)	MWD+IGRF





Matador Resources

Lea County, NM (NAD27)

Gavilon Fed Com Pads (Grid)

Gavilon Fed Com 505H

Wellbore #1

Plan: Plan 1

Standard Survey Report

28 March, 2022





Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Well:	Gavilon Fed Com 505H	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 505H					
Well Position	+N/-S	0.00 usft	Northing:	554,600.90 usft	Latitude:	32.52295667
	+E/-W	0.00 usft	Easting:	704,535.00 usft	Longitude:	-103.66974410
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,667.00 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	47,567.18482164

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	20,690.88	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 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Well:	Gavilon Fed Com 505H	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	210.17	1,599.99	-0.75	-0.44	-0.75	1.00	1.00	0.00
1,700.00	2.00	210.17	1,699.96	-3.02	-1.75	-3.01	1.00	1.00	0.00
1,800.00	3.00	210.17	1,799.86	-6.79	-3.95	-6.76	1.00	1.00	0.00
1,900.00	4.00	210.17	1,899.68	-12.07	-7.02	-12.02	1.00	1.00	0.00
2,000.00	5.00	210.17	1,999.37	-18.85	-10.96	-18.78	1.00	1.00	0.00
2,100.00	6.00	210.17	2,098.90	-27.13	-15.78	-27.03	1.00	1.00	0.00
2,199.78	7.00	210.17	2,198.04	-36.90	-21.45	-36.75	1.00	1.00	0.00
EOB									
2,200.00	7.00	210.17	2,198.26	-36.92	-21.47	-36.78	0.00	0.00	0.00
2,300.00	7.00	210.17	2,297.52	-47.45	-27.59	-47.27	0.00	0.00	0.00
2,400.00	7.00	210.17	2,396.77	-57.99	-33.71	-57.76	0.00	0.00	0.00
2,500.00	7.00	210.17	2,496.03	-68.52	-39.84	-68.25	0.00	0.00	0.00
2,600.00	7.00	210.17	2,595.28	-79.05	-45.96	-78.74	0.00	0.00	0.00
2,700.00	7.00	210.17	2,694.54	-89.58	-52.08	-89.24	0.00	0.00	0.00
2,800.00	7.00	210.17	2,793.79	-100.11	-58.21	-99.73	0.00	0.00	0.00
2,900.00	7.00	210.17	2,893.05	-110.65	-64.33	-110.22	0.00	0.00	0.00
3,000.00	7.00	210.17	2,992.30	-121.18	-70.45	-120.71	0.00	0.00	0.00
3,100.00	7.00	210.17	3,091.56	-131.71	-76.58	-131.20	0.00	0.00	0.00
3,200.00	7.00	210.17	3,190.81	-142.24	-82.70	-141.69	0.00	0.00	0.00
3,300.00	7.00	210.17	3,290.07	-152.78	-88.82	-152.18	0.00	0.00	0.00
3,400.00	7.00	210.17	3,389.32	-163.31	-94.95	-162.68	0.00	0.00	0.00
3,500.00	7.00	210.17	3,488.58	-173.84	-101.07	-173.17	0.00	0.00	0.00
3,600.00	7.00	210.17	3,587.83	-184.37	-107.19	-183.66	0.00	0.00	0.00
3,657.24	7.00	210.17	3,644.64	-190.40	-110.70	-189.66	0.00	0.00	0.00
EOH									
3,700.00	6.36	210.17	3,687.11	-194.70	-113.20	-193.95	1.50	-1.50	0.00
3,800.00	4.86	210.17	3,786.63	-203.15	-118.11	-202.36	1.50	-1.50	0.00
3,900.00	3.36	210.17	3,886.37	-209.34	-121.71	-208.52	1.50	-1.50	0.00
4,000.00	1.86	210.17	3,986.27	-213.27	-123.99	-212.44	1.50	-1.50	0.00
4,100.00	0.36	210.17	4,086.25	-214.94	-124.96	-214.10	1.50	-1.50	0.00
4,123.75	0.00	0.00	4,110.00	-215.00	-125.00	-214.17	1.50	-1.50	0.00
Vertical									
4,200.00	0.00	0.00	4,186.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
4,300.00	0.00	0.00	4,286.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
4,400.00	0.00	0.00	4,386.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
4,500.00	0.00	0.00	4,486.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
4,600.00	0.00	0.00	4,586.25	-215.00	-125.00	-214.17	0.00	0.00	0.00



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Well:	Gavilon Fed Com 505H	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	4,686.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
4,800.00	0.00	0.00	4,786.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
4,900.00	0.00	0.00	4,886.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
5,000.00	0.00	0.00	4,986.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
5,100.00	0.00	0.00	5,086.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
5,200.00	0.00	0.00	5,186.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
5,300.00	0.00	0.00	5,286.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
5,400.00	0.00	0.00	5,386.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
5,500.00	0.00	0.00	5,486.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
5,600.00	0.00	0.00	5,586.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
5,700.00	0.00	0.00	5,686.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
5,800.00	0.00	0.00	5,786.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
5,900.00	0.00	0.00	5,886.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
6,000.00	0.00	0.00	5,986.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
6,100.00	0.00	0.00	6,086.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
6,200.00	0.00	0.00	6,186.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
6,300.00	0.00	0.00	6,286.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
6,400.00	0.00	0.00	6,386.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
6,500.00	0.00	0.00	6,486.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
6,600.00	0.00	0.00	6,586.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
6,700.00	0.00	0.00	6,686.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
6,800.00	0.00	0.00	6,786.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
6,900.00	0.00	0.00	6,886.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
7,000.00	0.00	0.00	6,986.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
7,100.00	0.00	0.00	7,086.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
7,200.00	0.00	0.00	7,186.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
7,300.00	0.00	0.00	7,286.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
7,400.00	0.00	0.00	7,386.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
7,500.00	0.00	0.00	7,486.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
7,600.00	0.00	0.00	7,586.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
7,700.00	0.00	0.00	7,686.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
7,800.00	0.00	0.00	7,786.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
7,900.00	0.00	0.00	7,886.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
8,000.00	0.00	0.00	7,986.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
8,100.00	0.00	0.00	8,086.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
8,200.00	0.00	0.00	8,186.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
8,300.00	0.00	0.00	8,286.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
8,400.00	0.00	0.00	8,386.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
8,500.00	0.00	0.00	8,486.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
8,600.00	0.00	0.00	8,586.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
8,700.00	0.00	0.00	8,686.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
8,800.00	0.00	0.00	8,786.25	-215.00	-125.00	-214.17	0.00	0.00	0.00
8,900.00	0.00	0.00	8,886.25	-215.00	-125.00	-214.17	0.00	0.00	0.00



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Well:	Gavilon Fed Com 505H	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	8,986.25	-215.00	-125.00	-214.17	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,086.25	-215.00	-125.00	-214.17	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,186.25	-215.00	-125.00	-214.17	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,286.25	-215.00	-125.00	-214.17	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,386.25	-215.00	-125.00	-214.17	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,486.25	-215.00	-125.00	-214.17	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,586.25	-215.00	-125.00	-214.17	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,686.25	-215.00	-125.00	-214.17	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,786.25	-215.00	-125.00	-214.17	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,886.25	-215.00	-125.00	-214.17	0.00	0.00	0.00	
9,999.75	0.00	0.00	9,986.00	-215.00	-125.00	-214.17	0.00	0.00	0.00	
KOP										
10,000.00	0.00	14.20	9,986.25	-215.00	-125.00	-214.17	0.00	0.00	0.00	
10,100.00	12.03	14.20	10,085.51	-204.84	-122.43	-204.02	12.03	12.03	0.00	
10,200.00	24.03	14.20	10,180.43	-174.89	-114.85	-174.12	12.00	12.00	0.00	
10,300.00	36.02	14.20	10,266.85	-126.47	-102.60	-125.79	12.00	12.00	0.00	
10,398.38	47.83	14.20	10,339.92	-62.86	-86.51	-62.28	12.00	12.00	0.00	
EOB										
10,400.00	48.01	14.10	10,341.00	-61.69	-86.22	-61.12	12.00	11.19	-5.83	
10,500.00	59.32	9.11	10,400.18	17.10	-70.30	17.57	12.00	11.31	-4.99	
10,600.00	70.78	5.18	10,442.31	106.91	-59.19	107.30	12.00	11.46	-3.93	
10,700.00	82.31	1.77	10,465.54	203.81	-53.37	204.16	12.00	11.53	-3.41	
10,766.52	90.00	359.62	10,470.00	270.12	-52.58	270.46	12.00	11.56	-3.23	
Land Point										
10,800.00	90.00	359.62	10,470.00	303.60	-52.80	303.94	0.00	0.00	0.00	
10,900.00	90.00	359.62	10,470.00	403.60	-53.46	403.94	0.00	0.00	0.00	
11,000.00	90.00	359.62	10,470.00	503.60	-54.12	503.94	0.00	0.00	0.00	
11,100.00	90.00	359.62	10,470.00	603.59	-54.79	603.94	0.00	0.00	0.00	
11,200.00	90.00	359.62	10,470.00	703.59	-55.45	703.94	0.00	0.00	0.00	
11,300.00	90.00	359.62	10,470.00	803.59	-56.11	803.94	0.00	0.00	0.00	
11,400.00	90.00	359.62	10,470.00	903.59	-56.78	903.94	0.00	0.00	0.00	
11,500.00	90.00	359.62	10,470.00	1,003.59	-57.44	1,003.94	0.00	0.00	0.00	
11,600.00	90.00	359.62	10,470.00	1,103.58	-58.10	1,103.94	0.00	0.00	0.00	
11,700.00	90.00	359.62	10,470.00	1,203.58	-58.77	1,203.94	0.00	0.00	0.00	
11,800.00	90.00	359.62	10,470.00	1,303.58	-59.43	1,303.94	0.00	0.00	0.00	
11,900.00	90.00	359.62	10,470.00	1,403.58	-60.09	1,403.94	0.00	0.00	0.00	
12,000.00	90.00	359.62	10,470.00	1,503.57	-60.76	1,503.94	0.00	0.00	0.00	
12,100.00	90.00	359.62	10,470.00	1,603.57	-61.42	1,603.94	0.00	0.00	0.00	
12,200.00	90.00	359.62	10,470.00	1,703.57	-62.08	1,703.94	0.00	0.00	0.00	
12,300.00	90.00	359.62	10,470.00	1,803.57	-62.75	1,803.94	0.00	0.00	0.00	
12,400.00	90.00	359.62	10,470.00	1,903.57	-63.41	1,903.94	0.00	0.00	0.00	
12,500.00	90.00	359.62	10,470.00	2,003.56	-64.07	2,003.94	0.00	0.00	0.00	
12,600.00	90.00	359.62	10,470.00	2,103.56	-64.74	2,103.94	0.00	0.00	0.00	
12,700.00	90.00	359.62	10,470.00	2,203.56	-65.40	2,203.94	0.00	0.00	0.00	



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Well:	Gavilon Fed Com 505H	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	10,470.00	2,303.56	-66.06	2,303.94	0.00	0.00	0.00
12,900.00	90.00	359.62	10,470.00	2,403.55	-66.73	2,403.94	0.00	0.00	0.00
13,000.00	90.00	359.62	10,470.00	2,503.55	-67.39	2,503.94	0.00	0.00	0.00
13,100.00	90.00	359.62	10,470.00	2,603.55	-68.05	2,603.94	0.00	0.00	0.00
13,200.00	90.00	359.62	10,470.00	2,703.55	-68.71	2,703.94	0.00	0.00	0.00
13,300.00	90.00	359.62	10,470.00	2,803.55	-69.38	2,803.94	0.00	0.00	0.00
13,400.00	90.00	359.62	10,470.00	2,903.54	-70.04	2,903.94	0.00	0.00	0.00
13,500.00	90.00	359.62	10,470.00	3,003.54	-70.70	3,003.94	0.00	0.00	0.00
13,600.00	90.00	359.62	10,470.00	3,103.54	-71.37	3,103.94	0.00	0.00	0.00
13,700.00	90.00	359.62	10,470.00	3,203.54	-72.03	3,203.94	0.00	0.00	0.00
13,800.00	90.00	359.62	10,470.00	3,303.54	-72.69	3,303.94	0.00	0.00	0.00
13,900.00	90.00	359.62	10,470.00	3,403.53	-73.36	3,403.94	0.00	0.00	0.00
14,000.00	90.00	359.62	10,470.00	3,503.53	-74.02	3,503.94	0.00	0.00	0.00
14,100.00	90.00	359.62	10,470.00	3,603.53	-74.68	3,603.94	0.00	0.00	0.00
14,200.00	90.00	359.62	10,470.00	3,703.53	-75.35	3,703.94	0.00	0.00	0.00
14,300.00	90.00	359.62	10,470.00	3,803.52	-76.01	3,803.94	0.00	0.00	0.00
14,400.00	90.00	359.62	10,470.00	3,903.52	-76.67	3,903.94	0.00	0.00	0.00
14,500.00	90.00	359.62	10,470.00	4,003.52	-77.34	4,003.94	0.00	0.00	0.00
14,600.00	90.00	359.62	10,470.00	4,103.52	-78.00	4,103.94	0.00	0.00	0.00
14,700.00	90.00	359.62	10,470.00	4,203.52	-78.66	4,203.94	0.00	0.00	0.00
14,800.00	90.00	359.62	10,470.00	4,303.51	-79.33	4,303.94	0.00	0.00	0.00
14,900.00	90.00	359.62	10,470.00	4,403.51	-79.99	4,403.94	0.00	0.00	0.00
15,000.00	90.00	359.62	10,470.00	4,503.51	-80.65	4,503.94	0.00	0.00	0.00
15,100.00	90.00	359.62	10,470.00	4,603.51	-81.32	4,603.94	0.00	0.00	0.00
15,200.00	90.00	359.62	10,470.00	4,703.50	-81.98	4,703.94	0.00	0.00	0.00
15,300.00	90.00	359.62	10,470.00	4,803.50	-82.64	4,803.94	0.00	0.00	0.00
15,400.00	90.00	359.62	10,470.00	4,903.50	-83.31	4,903.94	0.00	0.00	0.00
15,500.00	90.00	359.62	10,470.00	5,003.50	-83.97	5,003.94	0.00	0.00	0.00
15,600.00	90.00	359.62	10,470.00	5,103.50	-84.63	5,103.94	0.00	0.00	0.00
15,700.00	90.00	359.62	10,470.00	5,203.49	-85.30	5,203.94	0.00	0.00	0.00
15,800.00	90.00	359.62	10,470.00	5,303.49	-85.96	5,303.94	0.00	0.00	0.00
15,900.00	90.00	359.62	10,470.00	5,403.49	-86.62	5,403.94	0.00	0.00	0.00
16,000.00	90.00	359.62	10,470.00	5,503.49	-87.28	5,503.94	0.00	0.00	0.00
16,100.00	90.00	359.62	10,470.00	5,603.48	-87.95	5,603.94	0.00	0.00	0.00
16,200.00	90.00	359.62	10,470.00	5,703.48	-88.61	5,703.94	0.00	0.00	0.00
16,300.00	90.00	359.62	10,470.00	5,803.48	-89.27	5,803.94	0.00	0.00	0.00
16,400.00	90.00	359.62	10,470.00	5,903.48	-89.94	5,903.94	0.00	0.00	0.00
16,500.00	90.00	359.62	10,470.00	6,003.48	-90.60	6,003.94	0.00	0.00	0.00
16,600.00	90.00	359.62	10,470.00	6,103.47	-91.26	6,103.94	0.00	0.00	0.00
16,700.00	90.00	359.62	10,470.00	6,203.47	-91.93	6,203.94	0.00	0.00	0.00
16,800.00	90.00	359.62	10,470.00	6,303.47	-92.59	6,303.94	0.00	0.00	0.00
16,900.00	90.00	359.62	10,470.00	6,403.47	-93.25	6,403.94	0.00	0.00	0.00
17,000.00	90.00	359.62	10,470.00	6,503.46	-93.92	6,503.94	0.00	0.00	0.00



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Well:	Gavilon Fed Com 505H	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	10,470.00	6,603.46	-94.58	6,603.94	0.00	0.00	0.00
17,200.00	90.00	359.62	10,470.00	6,703.46	-95.24	6,703.94	0.00	0.00	0.00
17,300.00	90.00	359.62	10,470.00	6,803.46	-95.91	6,803.94	0.00	0.00	0.00
17,400.00	90.00	359.62	10,470.00	6,903.46	-96.57	6,903.94	0.00	0.00	0.00
17,500.00	90.00	359.62	10,470.00	7,003.45	-97.23	7,003.94	0.00	0.00	0.00
17,600.00	90.00	359.62	10,470.00	7,103.45	-97.90	7,103.94	0.00	0.00	0.00
17,700.00	90.00	359.62	10,470.00	7,203.45	-98.56	7,203.94	0.00	0.00	0.00
17,800.00	90.00	359.62	10,470.00	7,303.45	-99.22	7,303.94	0.00	0.00	0.00
17,900.00	90.00	359.62	10,470.00	7,403.44	-99.89	7,403.94	0.00	0.00	0.00
18,000.00	90.00	359.62	10,470.00	7,503.44	-100.55	7,503.94	0.00	0.00	0.00
18,100.00	90.00	359.62	10,470.00	7,603.44	-101.21	7,603.94	0.00	0.00	0.00
18,200.00	90.00	359.62	10,470.00	7,703.44	-101.88	7,703.94	0.00	0.00	0.00
18,300.00	90.00	359.62	10,470.00	7,803.44	-102.54	7,803.94	0.00	0.00	0.00
18,400.00	90.00	359.62	10,470.00	7,903.43	-103.20	7,903.94	0.00	0.00	0.00
18,500.00	90.00	359.62	10,470.00	8,003.43	-103.87	8,003.94	0.00	0.00	0.00
18,600.00	90.00	359.62	10,470.00	8,103.43	-104.53	8,103.94	0.00	0.00	0.00
18,700.00	90.00	359.62	10,470.00	8,203.43	-105.19	8,203.94	0.00	0.00	0.00
18,800.00	90.00	359.62	10,470.00	8,303.43	-105.86	8,303.94	0.00	0.00	0.00
18,900.00	90.00	359.62	10,470.00	8,403.42	-106.52	8,403.94	0.00	0.00	0.00
19,000.00	90.00	359.62	10,470.00	8,503.42	-107.18	8,503.94	0.00	0.00	0.00
19,100.00	90.00	359.62	10,470.00	8,603.42	-107.84	8,603.94	0.00	0.00	0.00
19,200.00	90.00	359.62	10,470.00	8,703.42	-108.51	8,703.94	0.00	0.00	0.00
19,300.00	90.00	359.62	10,470.00	8,803.41	-109.17	8,803.94	0.00	0.00	0.00
19,400.00	90.00	359.62	10,470.00	8,903.41	-109.83	8,903.94	0.00	0.00	0.00
19,500.00	90.00	359.62	10,470.00	9,003.41	-110.50	9,003.94	0.00	0.00	0.00
19,600.00	90.00	359.62	10,470.00	9,103.41	-111.16	9,103.94	0.00	0.00	0.00
19,700.00	90.00	359.62	10,470.00	9,203.41	-111.82	9,203.94	0.00	0.00	0.00
19,800.00	90.00	359.62	10,470.00	9,303.40	-112.49	9,303.94	0.00	0.00	0.00
19,900.00	90.00	359.62	10,470.00	9,403.40	-113.15	9,403.94	0.00	0.00	0.00
20,000.00	90.00	359.62	10,470.00	9,503.40	-113.81	9,503.94	0.00	0.00	0.00
20,100.00	90.00	359.62	10,470.00	9,603.40	-114.48	9,603.94	0.00	0.00	0.00
20,200.00	90.00	359.62	10,470.00	9,703.39	-115.14	9,703.94	0.00	0.00	0.00
20,300.00	90.00	359.62	10,470.00	9,803.39	-115.80	9,803.94	0.00	0.00	0.00
20,400.00	90.00	359.62	10,470.00	9,903.39	-116.47	9,903.94	0.00	0.00	0.00
20,500.00	90.00	359.62	10,470.00	10,003.39	-117.13	10,003.94	0.00	0.00	0.00
20,600.00	90.00	359.62	10,470.00	10,103.39	-117.79	10,103.94	0.00	0.00	0.00
20,691.52	90.00	359.62	10,470.00	10,194.90	-118.40	10,195.46	0.00	0.00	0.00
BHL									



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 505H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Well:	Gavilon Fed Com 505H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Gavilon Fed Com 505H - plan misses target center by 220.86usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-215.32	-49.17	554,385.58	704,485.83	32.52236567	-103.66990796
Gavilon Fed Com 505H - plan misses target center by 10195.59usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	10,194.90	-118.40	564,795.80	704,416.60	32.55098114	-103.66992223
Gavilon Fed Com 505H - plan misses target center by 172.55usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-165.30	-49.50	554,435.60	704,485.50	32.52250317	-103.66990803

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1500	1500	0	0	Begin Nudge	
2200	2198	-37	-21	EOB	
3657	3645	-190	-111	EOH	
4124	4110	-215	-125	Vertical	
10,000	9986	-215	-125	KOP	
10,398	10,340	-63	-87	EOB	
10,767	10,470	270	-53	Land Point	
20,692	10,470	10,195	-118	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
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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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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 120606

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 120606
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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