

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

Form C-101
August 1, 2011
Permit 411640

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

1. Operator Name and Address RILEY PERMIAN OPERATING COMPANY, LLC 29 E Reno Avenue Oklahoma City, OK 73104		2. OGRID Number 372290
4. Property Code 338860		3. API Number 30-015-57964
5. Property Name The Horned Frog		6. Well No. 002H

7. Surface Location

UL - Lot D	Section 19	Township 18S	Range 27E	Lot Idn 1	Feet From 1311	N/S Line N	Feet From 853	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot D	Section 24	Township 18S	Range 26E	Lot Idn D	Feet From 1321	N/S Line N	Feet From 11	E/W Line W	County Eddy
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9. Pool Information

ATOKA;GLORIETA-YESO	3250
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3288
16. Multiple N	17. Proposed Depth 9141	18. Formation Blinebry	19. Contractor	20. Spud Date 3/19/2026
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	1250	438	0
Prod	8.75	7	32	2900	1442	0
Prod	8.75	5.5	20	9141	1442	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	3500	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. I further certify I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature:	OIL CONSERVATION DIVISION		
	Printed Name: Electronically filed by Spence Laird	Approved By: Jeffrey Harrison	
	Title: EHSR	Title: Petroleum Specialist III	
	Email Address: spencelaird@rileyperman.com	Approved Date: 3/19/2026	Expiration Date: 3/19/2028
	Date: 3/19/2026	Phone: 405-543-1411	Conditions of Approval Attached

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Santa Fe, NM 87505

Form C-102
August 1, 2011
Permit 411640

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-57964	2. Pool Code 3250	3. Pool Name ATOKA;GLORIETA-YESO
4. Property Code 338860	5. Property Name The Horned Frog	6. Well No. 002H
7. OGRID No. 372290	8. Operator Name RILEY PERMIAN OPERATING COMPANY, LLC	9. Elevation 3288

10. Surface Location

UL - Lot D	Section 19	Township 18S	Range 27E	Lot Idn 1	Feet From 1311	N/S Line N	Feet From 853	E/W Line W	County Eddy
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11. Bottom Hole Location If Different From Surface

UL - Lot D	Section 24	Township 18S	Range 26E	Lot Idn D	Feet From 1321	N/S Line N	Feet From 11	E/W Line W	County Eddy
12. Dedicated Acres 320.00			13. Joint or Infill		14. Consolidation Code N/A		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

	OPERATOR CERTIFICATION
	<p><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(s) 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></p>
	<p>E-Signed By: Spence Laird Title: EHSR Date: 3/19/2026</p>
	SURVEYOR CERTIFICATION
	<p><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></p>
	<p>Surveyed By: Mitchell McDonald Date of Survey: 1/31/2026 Certificate Number: 29821</p>

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

Form APD Comments

Permit 411640

PERMIT COMMENTS

Operator Name and Address: RILEY PERMIAN OPERATING COMPANY, LLC [372290] 29 E Reno Avenue Oklahoma City, OK 73104		API Number: 30-015-57964
		Well: The Horned Frog #002H
Created By	Comment	Comment Date
arizzo	This is a SHL change only. KOP, FTP,LTP, BHL will remain the same. All other drilling, casing, cementing details will remain the same	3/17/2026

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

Form APD Conditions

Permit 411640

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: RILEY PERMIAN OPERATING COMPANY, LLC [372290] 29 E Reno Avenue Oklahoma City, OK 73104	API Number: 30-015-57964
	Well: The Horned Frog #002H

OCD Reviewer	Condition
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	NSP required if not included in an existing order or not an infill to an appropriate defining well in the same pool and spacing unit.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.

Riley Permian Operating Company, LLC
Onshore Order #6
Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S on metal components. If high tensile tubular are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. **The concentrations of H₂S of wells in this area from surface to TD are low enough that a contingency plan is not required.**

II. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H₂S.

1. Well Control Equipment:

- A. Flare line.
- B. Choke manifold.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- D. Auxiliary equipment may include if applicable: annular preventer & rotating head.

2. Protective equipment for essential personnel:

- A. Mark II Survive air 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

3. H2S detection and monitoring equipment:

- A. 3x portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.

4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram (Exhibit #8).
- B. Caution/Danger signs (Exhibit #7) shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

5. Mud program:

- A. The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.

6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- B. All elastomers used for packing and seals shall be H2S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
- B. Land line (telephone) communication at Office.

8. Well testing:

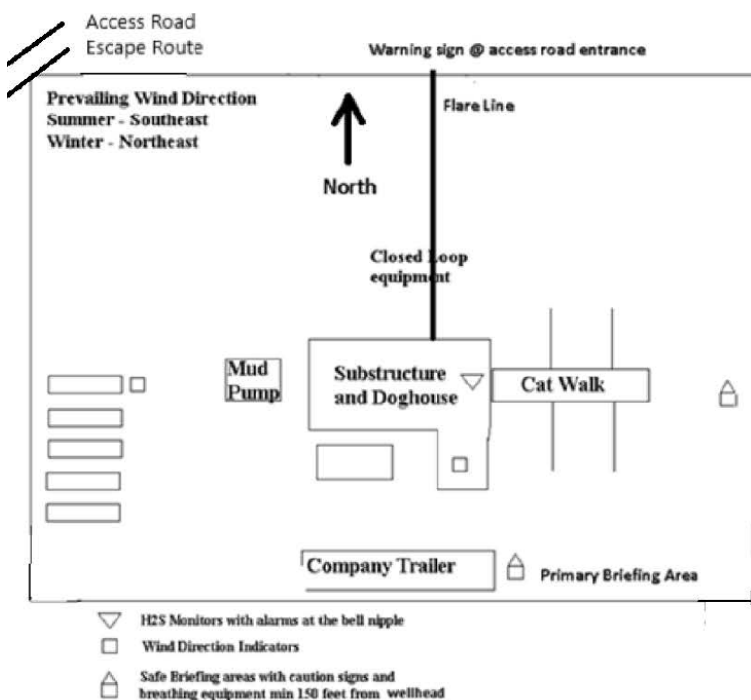
- A. There will be no drill stem testing.

WARNING

**YOU ARE ENTERING AN H2S AREA
AUTHORIZED PERSONNEL ONLY**

1. BEARDS OR CONTACT LENSES NOT ALLOWED
2. HARD HATS REQUIRED
3. SMOKING IN DESIGNATED AREAS ONLY
4. BE WIND CONSCIOUS AT ALL TIMES
5. CHECK WITH RILEY PERMIAN OPERATING COMPANY MAN AT OFFICE

RILEY PERMIAN OPERATING COMPANY, LLC
1-405-415-8699





**The Horned Frog #2H
DRILLING PLAN
HORIZONTAL LOCO HILLS GLORIETA YESO WELL**

1. Geological Name of Surface Formation with Estimated Depth:

<u>Geological Name</u>	<u>Estimate Top</u>	<u>Anticipated Fresh Water, Oil or Gas</u>
Alluvium	Surface	Useable Water
San Andres	915'	Oil
Glorieta	2460'	Oil
Yeso	2575'	Oil
Total Depth	Refer to APD	Oil

No other formations are expected to yield fresh water, oil or gas in measurable volumes. We will set 9-5/8" casing @ +/-1250' and circulate cement to surface.

All intervals will be isolated by setting 7" x 5-1/2" casing to total depth and circulating cement to surface.

2. Casing Program: (ALL CASING WILL BE NEW API APPROVED MATERIAL.)

(MW = 10 PPG IN DESIGN FACTOR CALCULATIONS.)

a. Design Safety Factors:

Type	Hole Size	Depth Interval	OD CSG	Weight	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
Conductor	20"	0-90'	16"	Contractor	Discretion	-----	-----	-----	-----
Surface	12-1/4"	0-1,250'	9-5/8"	36#	LTC	J-55	1.125	1.00	1.80
Production	8-3/4"	0'-2,900'	7"	32#	BTC	L-80	1.125	1.00	1.80
	8-3/4"	2,900'-9,000'	5-1/2"	20#	BTC	L-80	1.125	1.00	1.80

b. Surface Casing Info

The proposed 9-5/8" casing setting depth is +/- 1250'.

c. Production casing

We will run 7" x 5-1/2" production casing with a crossover from 7" to 5-1/2" at +/-2,900', 5-1/2" to TD. The wellbore will be cemented to surface.

3. Cementing Program

DRILLING PLAN

Horizontal Yeso

BLM to be notified prior to all cementing and tag operations in order to observe the operation if desired.

a. 9 5/8" Surface Casing:

- Cement to surface
- 20 bbls fresh water spacer at 8.4 lbm/gal.
- Lead: 270 sx Class C Premium Plus Cement, fluid weight 12.2 ppg, slurry yield 2.31 ft³/sx, water 13.48 gal/sx.
- Tail: 168 sx Class C Premium Plus Cement, fluid weight 13.2 ppg, slurry yield 1.84 ft³/sx, water 9.92 gal/sx.
- Excess Cement: **Lead 100%, Tail 165%**

If cement does not circulate to surface, NMOCD will be notified of same, and advised of the plan to bring the cement to surface so NMOCD may witness tagging and cementing. If surface pressures when circulating indicate cement is low in the annulus, temperature survey results will be reviewed with NMOCD representative to determine the remediation needed.

b. 7" & 5 1/2" Production Casing:

- Lead: 169 sx Class C Premium Plus Cement, fluid weight 11.8 ppg, slurry yield 2.54 ft³/sx, water 15.29 gal/sx.
- Tail: 1273 sx Class C Premium Plus Cement, fluid weight 13.2 ppg, slurry yield 1.81, water 9.81 gal/sx.
- Excess Cement: **lead 0%, Tail 50%**

4. Pressure Control Equipment:

The blowout prevention equipment (BOPE) will consist of a 2,000 PSI Hydril Unit (annular) with hydraulic closing equipment. The equipment will comply with Onshore Order #2 and will be tested to 2,000 psi and the Annular tested to 1,500 psi and maintained for a least ten (10) minutes. The 9-5/8" drilling head will be installed on the surface casing and in use continuously until total depth is reached. An independent testing company will be used for the testing. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having 2,000 PSI WP rating.

Occasionally, water flows have been encountered. To control these water flows and to drill through salt formation(s), our anticipated maximum mud weight is 8.9 ppg. For the producing formation and at TD, the pore pressure in this area is 0.47 psi/ft based on review of drilling histories, mud weights, formation gradients etc. from surrounding wells.

Burnett is requesting to keep the Mud/Gas Separator on location but only connect if/when needed.

DRILLING PLAN Horizontal Yeso

5. Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve with the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection and breathing equipment will be installed and in operation prior to drilling out the surface shoe and will remain until production casing is cemented.
- d. An H2S compliance package will be on site while drilling.

6. Proposed Mud Circulation System (Closed Loop System)

<u>Depth</u>	<u>Mud Wt</u>	<u>Vis</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' - 1250'	8.6 – 8.9	32-36	NC	Fresh Water
1250' – TD MD	8.6 – 8.9	32-36	NC	Cut Brine Water

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Pason or similar equipment will be used to monitor the mud system.

7. Logging, Coring and Testing program:

- a. No cores or DSTs are planned at this time.
- b. A mud logger will be on the well from 200' to TD.
- c. No open hole logs will be run.

8. Potential Hazards:

No abnormal pressures or temperatures are expected. Lost circulation is expected in the surface hole and not expected in production.

For the producing formation and at TD, the anticipated bottom hole pressure at deepest TVD is 1588 psi based on drilling histories, mud weights, formation gradients etc. from surrounding wells. Based upon logs of wells in this area, the anticipated bottom hole temperature is 105°F.

In the event that it is necessary to follow the H2S plan, a remote choke will be installed as required in Onshore Order 6. Refer to the attached H2S plan for details.

9. Anticipated Start Date and Duration of Operation

Road and location construction will begin after NMOCD has approved the APD and has approved the start of the location work. Anticipated spud date will be as soon as the location building work has been completed and the drilling rig is available to move to the location. Move in operations and drilling is expected to take approximately 25 days. If production casing is run, an additional 90 days would be

DRILLING PLAN

Horizontal Yeso

required to complete the well and install the necessary surface equipment (pumping unit, electricity, flowline and storage facility) in order to place the well on production.

10. Completion Procedure

Upon completion of drilling operations, this well will be perforated and frac'd in multiple stages. Due to the completion process that Burnett utilizes, we do not anticipate any flowback. Upon completion of stimulation, the well will be put on production.

State of New Mexico
 Energy, Minerals and Natural Resources Department

Submit Electronically
 Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: Burnett Oil Co., Inc. **OGRID:** 03080 **Date:** 11 / 29 / 2023

II. Type: Original Amendment due to 19.15.27.9.D(6)(a) NMAC 19.15.27.9.D(6)(b) NMAC Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
THE HORNEF FROG 1H	TBD	D-19-18S-27E	1246 FNL 800 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE HORNEF FROG 2H	TBD	D-19-18S-27E	1266 FNL 800 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE HORNEF FROG 3H	TBD	D-19-18S-27E	1286 FNL 800 FWL	550 BBL/D	550 MCF/D	2500 BBL/D

IV. Central Delivery Point Name: THE HORNEF FROG BATTERY [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
THE HORNEF FROG 1H	TBD	6/1/2024	6/10/2024	8/1/2024	9/11/2024	9/11/2024
THE HORNEF FROG 2H	TBD	6/11/2024	6/20/2024	8/1/2024	9/11/2024	9/11/2024
THE HORNEF FROG 3H	TBD	6/21/2024	6/30/2024	8/1/2024	9/11/2024	9/11/2024

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: Attach a complete description of Operator’s best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system will will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator’s plan to manage production in response to the increased line pressure.

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

19/2023

Well Shut-In. Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

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

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature:	
Printed Name:	TYLER DEANS
Title:	VP ENGINEERING
E-mail Address:	TDEANS@BURNETTOIL.COM
Date:	11/29/2023
Phone:	432-553-4699

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:
Title:
Approval Date:
Conditions of Approval:

NATURAL GAS MANAGEMENT PLAN

Section 1 – Attachments

Company: Burnett Oil Co., Inc. Well Name: THE HORNEF FROG 2H API: TBD

- VI. Separation Equipment:** Description of how Operator will size separation equipment to optimize gas capture.
- A. This well will be added to an existing tank battery.
 - B. The engineered system is designed to handle 11,500 MCF/D. It will produce through the following vessels:
 - 1. 2-phase separator,
 - 2. free-water knockout,
 - 3. heater treater, and then finally a
 - 4. 2-phase gas scrubber.
 - C. Current battery throughput is 550 MCF/D.
 - D. The referenced well is anticipated to produce a maximum of 550 MCF/D for a total throughput of 1100 MCF/D.
- VII. Operational Practices:** Description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.
- A. In all circumstances, the operator shall flare rather than vent natural gas except when flaring is technically infeasible or would pose a risk to safe operations or personnel safety, and venting is a safer alternative than flaring.
 - B. During drilling operations a mud/gas separator will be on location. If needed, it will be utilized to capture natural gas for purposes of flaring. If flaring is required, a properly-sized flare stack will be at a minimum of 100' from the nearest surface hole location unless otherwise approved by the division.
 - C. Venting and flaring during completion or recompletion operations
 - 1. During completion or recompletion, gas is trapped/retained in the wellbore through use of properly weighted "kill" fluids.
 - 2. During the completion phase, the well will be routed directly into an existing battery. With this initial flowback already being connected to the existing battery, all flowback gasses will be routed, if applicable, only to flare. No venting will occur during this initial flowback period. As soon as it is feasible, the existing separation will be utilized.
 - D. Equipment redundancies within the system, along with the overall battery design, enables us to service equipment without interruption to gas flow in most scenarios. With the existing battery compression at this facility, in most cases we can avoid flaring during times of elevated transmission line pressures caused by mid-stream maintenance. Additionally, we have gas takeaway with two (2) midstream companies to try and keep gas going to sales in case one of them has a problem.

E. Performance Standards

1. The existing facility is designed for maximum anticipated throughput and pressure to minimize waste.
2. The existing storage tanks are routed to a combustor.
3. The existing flare stack is properly sized and designed to ensure proper combustion efficiency.
4. The existing flare stack is securely anchored and located at least 100 feet from the storage tanks.
5. AVO inspections are conducted weekly.
6. NA
7. NA
8. We strive to minimize waste and shall resolve emergencies as quickly and safely as possible.

F. Measurement or estimation of vented and flared natural gas

1. We shall measure or estimate the volume of natural gas that is vented, flared, or beneficially used during drilling, completion and production operations regardless of the reason or authorization for such venting or flaring.
2. The existing flare has a meter to measure the gas going to it.
3. The measurement equipment conforms to an industry standard such as American Petroleum Institute (API) Manual of Petroleum Measurement Standards (MPMS) Chapter 14.10 Measurement of Flow to Flares
4. The measuring equipment is not equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.
5. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, the operator will estimate the volume of vented or flared natural gas using a methodology that can be independently verified.
6. NA
7. The operator shall install measuring equipment whenever the division determines that metering is practicable or the existing measuring equipment or GOR test is not sufficient to measure the volume of vented and flared natural gas.

VIII. Best Management Practices: Operator's best management practices to minimize venting during active and planned maintenance.

- A. The existing facility is designed for maximum anticipated throughput and pressure to minimize waste.
- B. Equipment redundancies within the system, along with the overall battery design, enables us to service equipment without interruption to gas flow in most scenarios. With the existing battery compression at this facility, in most cases we can avoid flaring during times of elevated transmission line pressures caused by mid-stream maintenance.
- C. During well maintenance, gas is trapped/retained in the wellbore through use of properly weighted "kill" fluids.
- D. Additionally, we have gas takeaway with two (2) midstream companies to try and keep gas going to sales in case one of them has a problem.



Riley Permian

Eddy County, New Mexico (NAD83)

The Horned Frog

The Horned Frog 2H

Wellbore #1

Design #1

Anticollision Report

19 February, 2026





Stryker Directional
Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 1,000.00 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 2/19/2026	
From (usft)	To (usft)	Survey (Wellbore)
0.00	9,141.67	Design #1 (Wellbore #1)
		Tool Name
		MWD+HRGM
		Description
		OWSG MWD + HRGM

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Horned Frog/Maverick Offsets						
McCall #1 - Wellbore #1 - Surveys	8,898.95	3,260.48	2,349.20	2,138.04	11.126	CC
McCall #1 - Wellbore #1 - Surveys	9,000.00	3,258.06	2,351.37	2,138.02	11.021	ES
McCall #1 - Wellbore #1 - Surveys	9,141.67	3,254.66	2,361.70	2,145.70	10.934	SF
McCall #2 - Wellbore #1 - Surveys						Out of range
McCall #2 (2) - Wellbore #1 - Surveys						Out of range
Terry Evans #1 - Wellbore #1 - Surveys	5,817.50	3,336.04	685.08	553.27	5.197	CC, ES
Terry Evans #1 - Wellbore #1 - Surveys	5,900.00	3,333.91	690.03	556.75	5.177	SF
The Aggie						
The Aggie 1H - Wellbore #1 - Design #1	4,476.55	3,150.00	462.95	430.38	14.215	CC, ES
The Aggie 1H - Wellbore #1 - Design #1	4,500.00	3,150.00	463.55	430.60	14.071	SF
The Aggie 2H - Wellbore #1 - Design #1	4,100.00	3,620.40	122.33	86.82	3.445	SF
The Aggie 2H - Wellbore #1 - Design #1	4,119.11	3,602.96	122.06	86.80	3.462	CC, ES
The Aggie 31H - Wellbore #1 - Design #1	3,000.00	4,209.76	457.29	418.30	11.728	SF
The Aggie 31H - Wellbore #1 - Design #1	3,022.18	4,198.36	456.88	417.93	11.732	CC, ES
The Aggie 32H - Wellbore #1 - Design #1	3,400.00	4,076.14	465.96	429.80	12.886	SF
The Aggie 32H - Wellbore #1 - Design #1	4,189.46	3,337.63	429.76	399.48	14.196	CC, ES
The Aggie 3H - Wellbore #1 - Design #1	4,515.70	3,212.83	361.35	327.46	10.664	CC, ES, SF
The Horned Frog						
The Horned Frog 1H - Wellbore #1 - Design #1	1,500.00	1,500.00	49.85	40.31	5.229	CC, ES
The Horned Frog 1H - Wellbore #1 - Design #1	9,141.67	9,402.11	971.24	692.99	3.491	SF
The Horned Frog 31H - Wellbore #1 - Design #1	1,800.00	1,800.00	25.11	14.57	2.383	CC, ES
The Horned Frog 31H - Wellbore #1 - Design #1	9,141.67	8,934.83	551.85	301.98	2.209	SF
The Horned Frog 32H - Wellbore #1 - Design #1	2,310.00	2,310.00	25.11	13.02	2.077	CC, ES, SF
The Horned Frog 3H - Wellbore #1 - Design #1	2,600.00	2,600.00	49.85	36.92	3.855	CC, ES
The Horned Frog 3H - Wellbore #1 - Design #1	9,141.67	9,578.27	970.43	693.66	3.506	SF

Offset Design												Offset Site Error:	0.00 usft
Horned Frog/Maverick Offsets - McCall #1 - Wellbore #1 - Surveys												Offset Well Error:	0.00 usft
Survey Program: 530-INC-ONLY													
Reference		Offset		Semi Major Axis			Distance						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	
8,100.00	3,298.73	3,279.64	3,292.33	115.31	77.66	-90.35	-2,393.22	-5,844.77	2,481.26	2,294.53	186.73	13.288	
8,200.00	3,296.11	3,277.24	3,289.93	117.63	77.61	-90.30	-2,393.21	-5,844.77	2,450.91	2,260.65	190.26	12.882	

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 530-INC-ONLY												Horned Frog/Maverick Offsets - McCall #1 - Wellbore #1 - Surveys		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Reference Depth (usft)	Offset Depth (usft)	Semi Major Axis 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	Warning		
8,300.00	3,293.48	3,274.85	3,287.53	119.96	77.55	-90.24	-2,393.20	-5,844.77	2,424.31	2,230.59	193.71	12.515			
8,400.00	3,290.86	3,272.45	3,285.13	122.29	77.50	-90.18	-2,393.20	-5,844.77	2,401.57	2,204.52	197.05	12.188			
8,500.00	3,288.24	3,270.05	3,282.73	124.62	77.45	-90.12	-2,393.19	-5,844.77	2,382.81	2,182.57	200.25	11.899			
8,600.00	3,285.61	3,267.65	3,280.34	126.95	77.40	-90.06	-2,393.19	-5,844.77	2,368.13	2,164.85	203.28	11.650			
8,700.00	3,282.99	3,265.25	3,277.94	129.28	77.35	-90.00	-2,393.18	-5,844.77	2,357.60	2,151.48	206.13	11.438			
8,800.00	3,280.36	3,262.85	3,275.54	131.60	77.30	-89.95	-2,393.18	-5,844.77	2,351.28	2,142.52	208.76	11.263			
8,898.95	3,277.77	3,260.48	3,273.17	133.91	77.25	-89.89	-2,393.17	-5,844.77	2,349.20	2,138.04	211.15	11.126 CC			
8,900.00	3,277.74	3,260.46	3,273.14	133.93	77.25	-89.89	-2,393.17	-5,844.77	2,349.20	2,138.02	211.18	11.124			
9,000.00	3,275.12	3,258.06	3,270.74	136.26	77.20	-89.83	-2,393.17	-5,844.77	2,351.37	2,138.02	213.35	11.021 ES			
9,100.00	3,272.49	3,255.66	3,268.34	138.59	77.14	-89.77	-2,393.16	-5,844.77	2,357.78	2,142.51	215.27	10.953			
9,141.67	3,271.40	3,254.66	3,267.34	139.56	77.12	-89.75	-2,393.16	-5,844.77	2,361.70	2,145.70	216.00	10.934 SF			

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 136-INC-ONLY													Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,400.00	3,253.33	3,232.48	3,253.33	10.09	67.33	-23.30	-720.53	-2,769.44	2,478.10	2,402.01	76.08	32.572		
3,500.00	3,310.65	3,288.89	3,309.73	11.43	68.52	-24.49	-719.74	-2,769.44	2,398.39	2,320.83	77.57	30.920		
3,600.00	3,359.47	3,336.85	3,357.69	12.97	69.54	-34.33	-719.84	-2,769.44	2,314.29	2,235.31	78.98	29.303		
3,700.00	3,392.46	3,369.26	3,390.10	14.78	70.23	-51.03	-719.93	-2,769.44	2,223.88	2,143.82	80.06	27.778		
3,800.00	3,408.60	3,385.12	3,405.97	16.76	70.56	-77.08	-719.99	-2,769.44	2,130.02	2,049.21	80.80	26.360		
3,900.00	3,408.93	3,385.45	3,406.29	18.83	70.57	-93.98	-719.99	-2,769.44	2,035.59	1,954.32	81.27	25.047		
4,000.00	3,406.31	3,382.87	3,403.72	20.97	70.51	-93.76	-719.98	-2,769.44	1,941.75	1,859.95	81.79	23.740		
4,100.00	3,403.68	3,380.30	3,401.14	23.14	70.46	-93.55	-719.97	-2,769.44	1,848.55	1,766.09	82.46	22.418		
4,200.00	3,401.06	3,377.72	3,398.56	25.34	70.41	-93.34	-719.96	-2,769.44	1,756.09	1,672.81	83.28	21.086		
4,300.00	3,398.43	3,375.14	3,395.99	27.56	70.35	-93.12	-719.95	-2,769.44	1,664.50	1,580.21	84.29	19.748		
4,400.00	3,395.81	3,372.57	3,393.41	29.80	70.30	-92.91	-719.95	-2,769.44	1,573.93	1,488.44	85.49	18.411		
4,500.00	3,393.19	3,369.99	3,390.83	32.06	70.24	-92.69	-719.94	-2,769.44	1,484.57	1,397.65	86.92	17.080		
4,600.00	3,390.56	3,367.41	3,388.26	34.32	70.19	-92.48	-719.93	-2,769.44	1,396.65	1,308.05	88.59	15.765		
4,700.00	3,387.94	3,364.84	3,385.68	36.59	70.13	-92.26	-719.92	-2,769.44	1,310.45	1,219.90	90.55	14.471		
4,800.00	3,385.32	3,362.26	3,383.10	38.87	70.08	-92.05	-719.91	-2,769.44	1,226.35	1,133.52	92.83	13.211		
4,900.00	3,382.69	3,359.68	3,380.53	41.16	70.02	-91.83	-719.90	-2,769.44	1,144.80	1,049.33	95.46	11.992		
5,000.00	3,380.07	3,357.11	3,377.95	43.45	69.97	-91.62	-719.89	-2,769.44	1,066.39	967.90	98.49	10.828		
5,100.00	3,377.44	3,354.53	3,375.37	45.74	69.91	-91.40	-719.89	-2,769.44	991.86	889.93	101.93	9.731		
5,200.00	3,374.82	3,351.95	3,372.79	48.04	69.86	-91.18	-719.88	-2,769.44	922.16	816.34	105.82	8.715		
5,300.00	3,372.20	3,349.38	3,370.22	50.34	69.80	-90.97	-719.87	-2,769.44	858.46	748.34	110.12	7.796		
5,400.00	3,369.57	3,346.80	3,367.64	52.65	69.75	-90.75	-719.86	-2,769.44	802.20	687.45	114.75	6.991		
5,500.00	3,366.95	3,344.22	3,365.06	54.95	69.70	-90.54	-719.86	-2,769.44	755.03	635.50	119.53	6.317		
5,600.00	3,364.33	3,341.64	3,362.49	57.26	69.64	-90.32	-719.85	-2,769.44	718.76	594.60	124.16	5.789		
5,700.00	3,361.70	3,339.07	3,359.91	59.57	69.59	-90.11	-719.84	-2,769.44	695.08	566.83	128.25	5.420		
5,800.00	3,359.08	3,336.49	3,357.33	61.89	69.53	-89.89	-719.84	-2,769.44	685.31	553.92	131.39	5.216		
5,817.50	3,358.62	3,336.04	3,356.88	62.29	69.52	-89.85	-719.84	-2,769.44	685.08	553.27	131.81	5.197	CC, ES	
5,900.00	3,356.45	3,333.91	3,354.75	64.20	69.48	-89.68	-719.83	-2,769.44	690.03	556.75	133.28	5.177	SF	
6,000.00	3,353.83	3,331.33	3,352.18	66.52	69.42	-89.46	-719.82	-2,769.44	708.96	575.09	133.87	5.296		
6,100.00	3,351.21	3,328.76	3,349.60	68.83	69.37	-89.25	-719.82	-2,769.44	741.01	607.71	133.30	5.559		
6,200.00	3,348.58	3,326.18	3,347.02	71.15	69.31	-89.03	-719.81	-2,769.44	784.57	652.71	131.86	5.950		
6,300.00	3,345.96	3,323.60	3,344.45	73.47	69.26	-88.81	-719.81	-2,769.44	837.85	707.97	129.88	6.451		
6,400.00	3,343.34	3,321.02	3,341.87	75.79	69.20	-88.60	-719.80	-2,769.44	899.13	771.50	127.62	7.045		
6,500.00	3,340.71	3,318.45	3,339.29	78.11	69.15	-88.38	-719.79	-2,769.44	966.87	841.59	125.28	7.718		
6,600.00	3,338.09	3,315.87	3,336.71	80.43	69.10	-88.17	-719.79	-2,769.44	1,039.83	916.84	122.99	8.455		
6,700.00	3,335.46	3,313.29	3,334.13	82.75	69.04	-87.95	-719.78	-2,769.44	1,116.98	996.18	120.80	9.247		
6,800.00	3,332.84	3,310.71	3,331.56	85.08	68.99	-87.74	-719.78	-2,769.44	1,197.50	1,078.74	118.76	10.084		
6,900.00	3,330.22	3,308.14	3,328.98	87.40	68.93	-87.52	-719.77	-2,769.44	1,280.77	1,163.90	116.87	10.958		
7,000.00	3,327.59	3,305.56	3,326.40	89.72	68.88	-87.31	-719.77	-2,769.44	1,366.28	1,251.13	115.15	11.866		
7,100.00	3,324.97	3,302.98	3,323.82	92.05	68.82	-87.09	-719.77	-2,769.44	1,453.64	1,340.07	113.57	12.800		
7,200.00	3,322.35	3,300.40	3,321.25	94.37	68.77	-86.88	-719.76	-2,769.44	1,542.52	1,430.40	112.13	13.757		
7,300.00	3,319.72	3,297.82	3,318.67	96.70	68.71	-86.66	-719.76	-2,769.44	1,632.69	1,521.89	110.81	14.735		
7,400.00	3,317.10	3,295.25	3,316.09	99.02	68.66	-86.45	-719.75	-2,769.44	1,723.94	1,614.34	109.60	15.729		
7,500.00	3,314.47	3,292.67	3,313.51	101.35	68.60	-86.23	-719.75	-2,769.44	1,816.11	1,707.61	108.50	16.738		
7,600.00	3,311.85	3,290.09	3,310.93	103.67	68.55	-86.02	-719.75	-2,769.44	1,909.07	1,801.58	107.49	17.761		
7,700.00	3,309.23	3,287.51	3,308.36	106.00	68.49	-85.80	-719.74	-2,769.44	2,002.69	1,896.14	106.56	18.795		
7,800.00	3,306.60	3,284.93	3,305.78	108.33	68.44	-85.59	-719.74	-2,769.44	2,096.91	1,991.21	105.70	19.839		
7,900.00	3,303.98	3,282.36	3,303.20	110.65	68.39	-85.38	-719.74	-2,769.44	2,191.63	2,086.73	104.90	20.892		
8,000.00	3,301.35	3,279.78	3,300.62	112.98	68.33	-85.16	-719.73	-2,769.44	2,286.80	2,182.63	104.17	21.953		
8,100.00	3,298.73	3,277.20	3,298.04	115.31	68.28	-84.95	-719.73	-2,769.44	2,382.37	2,278.88	103.49	23.021		
8,200.00	3,296.11	3,274.62	3,295.47	117.63	68.22	-84.73	-719.73	-2,769.44	2,478.28	2,375.42	102.85	24.095		

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



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Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Distance						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	0.00	0.00	0.01	-88.72	35.92	-1,608.59	1,608.99					
100.00	100.00	101.00	100.00	0.92	0.93	-88.72	35.92	-1,608.59	1,608.99	1,607.14	1.85	867.651		
200.00	200.00	201.00	200.00	1.53	1.53	-88.72	35.92	-1,608.59	1,608.99	1,605.93	3.06	526.360		
300.00	300.00	301.00	300.00	1.95	1.96	-88.72	35.92	-1,608.59	1,608.99	1,605.08	3.91	411.342		
400.00	400.00	401.00	400.00	2.31	2.31	-88.72	35.92	-1,608.59	1,608.99	1,604.38	4.62	348.555		
500.00	500.00	501.00	500.00	2.61	2.62	-88.72	35.92	-1,608.59	1,608.99	1,603.76	5.23	307.545		
600.00	600.00	601.00	600.00	2.89	2.89	-88.72	35.92	-1,608.59	1,608.99	1,603.20	5.79	278.050		
700.00	700.00	701.00	700.00	3.15	3.15	-88.72	35.92	-1,608.59	1,608.99	1,602.69	6.30	255.511		
800.00	800.00	801.00	800.00	3.39	3.39	-88.72	35.92	-1,608.59	1,608.99	1,602.22	6.77	237.555		
900.00	900.00	901.00	900.00	3.61	3.61	-88.72	35.92	-1,608.59	1,608.99	1,601.77	7.22	222.806		
1,000.00	1,000.00	1,001.00	1,000.00	3.82	3.82	-88.72	35.92	-1,608.59	1,608.99	1,601.34	7.65	210.407		
1,100.00	1,100.00	1,101.00	1,100.00	4.03	4.03	-88.72	35.92	-1,608.59	1,608.99	1,600.94	8.05	199.788		
1,200.00	1,200.00	1,201.00	1,200.00	4.22	4.22	-88.72	35.92	-1,608.59	1,608.99	1,600.55	8.44	190.560		
1,300.00	1,300.00	1,301.00	1,300.00	4.41	4.41	-88.72	35.92	-1,608.59	1,608.99	1,600.17	8.82	182.440		
1,400.00	1,400.00	1,401.00	1,400.00	4.59	4.59	-88.72	35.92	-1,608.59	1,608.99	1,599.81	9.18	175.221		
1,500.00	1,500.00	1,501.45	1,500.45	4.77	4.77	-88.72	35.92	-1,608.59	1,608.99	1,599.46	9.54	168.725		
1,600.00	1,600.00	1,646.63	1,645.57	4.94	5.16	-88.61	38.99	-1,606.44	1,607.56	1,597.56	9.99	160.848		
1,700.00	1,700.00	1,762.98	1,761.67	5.10	5.44	-88.38	45.24	-1,602.07	1,603.89	1,593.52	10.37	154.661		
1,800.00	1,800.00	1,862.74	1,861.18	5.27	5.64	-88.17	50.94	-1,598.08	1,600.06	1,589.35	10.70	149.473		
1,900.00	1,900.00	1,962.49	1,960.69	5.43	5.86	-87.97	56.64	-1,594.09	1,596.25	1,585.21	11.04	144.603		
2,000.00	2,000.00	2,062.25	2,060.21	5.58	6.10	-87.75	62.34	-1,590.09	1,592.45	1,581.08	11.37	140.027		
2,100.00	2,100.00	4,777.01	3,392.79	5.74	35.14	-4.91	909.34	-78.14	1,582.50	1,557.37	25.13	62.970		
2,200.00	2,200.00	4,780.89	3,392.89	5.88	35.22	-4.67	909.52	-74.27	1,501.91	1,475.83	26.09	57.577		
2,300.00	2,300.00	4,784.77	3,392.99	6.03	35.30	-4.43	909.70	-70.40	1,423.78	1,396.64	27.14	52.459		
2,400.00	2,400.00	4,788.64	3,393.09	6.18	35.38	-4.18	909.88	-66.54	1,348.53	1,320.23	28.30	47.646		
2,500.00	2,500.00	4,792.51	3,393.20	6.32	35.46	-3.94	910.05	-62.67	1,276.68	1,247.10	29.58	43.165		
2,600.00	2,600.00	4,796.38	3,393.30	6.47	35.54	-3.70	910.21	-58.80	1,208.83	1,177.86	30.96	39.041		
2,700.00	2,699.72	4,791.00	3,393.16	6.70	35.43	94.72	909.98	-64.18	1,145.77	1,113.52	32.25	35.530		
2,800.00	2,797.60	4,765.29	3,392.48	6.98	34.90	98.65	908.75	-89.85	1,089.00	1,055.73	33.26	32.739		
2,900.00	2,891.73	4,719.75	3,391.28	7.28	33.96	100.49	906.00	-135.29	1,039.72	1,005.78	33.94	30.634		
3,000.00	2,980.28	4,655.33	3,389.57	7.59	32.64	100.59	900.88	-199.48	998.26	964.02	34.24	29.151		
3,100.00	3,061.52	4,573.44	3,387.40	7.90	30.97	99.38	892.29	-280.89	964.03	929.84	34.19	28.195		
3,200.00	3,133.88	4,475.99	3,384.81	8.20	28.99	97.34	879.04	-377.39	935.54	901.68	33.86	27.628		
3,300.00	3,195.98	4,365.42	3,381.87	8.85	26.77	94.85	860.04	-486.27	910.70	877.33	33.36	27.295		
3,400.00	3,253.33	4,250.79	3,378.82	10.09	24.50	90.49	835.92	-598.29	887.01	854.07	32.93	26.934		
3,500.00	3,310.65	4,137.85	3,375.82	11.43	22.30	86.16	807.79	-707.62	863.84	831.32	32.52	26.564		
3,600.00	3,359.47	4,019.82	3,372.70	12.97	20.07	84.05	773.81	-820.60	839.55	807.47	32.07	26.175		
3,700.00	3,392.46	3,894.97	3,369.42	14.78	17.80	83.41	732.83	-938.48	811.03	779.40	31.64	25.636		
3,800.00	3,408.60	3,486.46	3,262.39	16.76	11.34	71.75	523.67	-1,262.04	763.96	738.37	25.59	29.852		
3,900.00	3,408.93	3,390.78	3,210.38	18.83	10.82	69.19	460.44	-1,311.34	698.21	672.48	25.72	27.144		
4,000.00	3,406.31	3,342.10	3,182.46	20.97	10.66	64.98	427.78	-1,334.21	634.89	607.95	26.94	23.565		
4,100.00	3,403.68	3,293.43	3,154.54	23.14	10.53	60.47	395.12	-1,357.08	577.87	549.66	28.21	20.482		
4,200.00	3,401.06	3,244.76	3,126.62	25.34	10.38	55.67	362.46	-1,379.95	529.19	499.71	29.48	17.948		
4,300.00	3,398.43	3,200.00	3,100.87	27.56	10.25	51.04	332.47	-1,400.94	491.43	460.78	30.65	16.035		
4,400.00	3,395.81	3,170.41	3,083.01	29.80	10.14	47.86	313.15	-1,414.48	468.55	436.58	31.96	14.659		
4,476.55	3,393.80	3,150.00	3,070.13	31.53	10.06	45.62	300.18	-1,423.56	462.95	430.38	32.57	14.215 CC, ES		
4,500.00	3,393.19	3,150.00	3,070.13	32.06	10.06	45.62	300.18	-1,423.56	463.55	430.60	32.94	14.071 SF		
4,600.00	3,390.56	3,113.81	3,046.21	34.32	9.91	41.63	277.94	-1,439.13	476.86	444.63	32.24	14.793		
4,700.00	3,387.94	3,088.05	3,028.35	36.59	9.81	38.82	262.73	-1,449.78	507.64	476.42	31.22	16.260		
4,800.00	3,385.32	3,063.87	3,011.00	38.87	9.71	36.22	248.94	-1,459.44	553.06	523.27	29.79	18.567		
4,900.00	3,382.69	3,050.00	3,000.80	41.16	9.65	34.76	241.24	-1,464.82	610.13	581.56	28.57	21.355		
5,000.00	3,380.07	3,019.89	2,978.02	43.45	9.51	31.70	225.11	-1,476.12	675.72	648.97	26.74	25.266		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Aggie - The Aggie 1H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						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		
5,100.00	3,377.44	3,000.00	2,962.53	45.74	9.42	29.77	214.89	-1,483.27	747.98	722.57	25.41	29.432		
5,200.00	3,374.82	2,981.15	2,947.54	48.04	9.34	28.01	205.53	-1,489.83	825.17	800.90	24.26	34.010		
5,300.00	3,372.20	2,963.52	2,933.25	50.34	9.25	26.43	197.08	-1,495.75	906.09	882.80	23.29	38.908		
5,400.00	3,369.57	2,950.00	2,922.12	52.65	9.19	25.27	190.79	-1,500.15	989.90	967.37	22.54	43.926		
5,500.00	3,366.95	2,931.34	2,906.53	54.95	9.10	23.74	182.40	-1,506.03	1,075.96	1,054.17	21.78	49.390		
5,600.00	3,364.33	2,916.66	2,894.07	57.26	9.03	22.59	176.03	-1,510.49	1,163.82	1,142.60	21.21	54.865		
5,700.00	3,361.70	2,900.00	2,879.75	59.57	8.95	21.35	169.06	-1,515.37	1,253.14	1,232.45	20.69	60.575		
5,800.00	3,359.08	2,900.00	2,879.75	61.89	8.95	21.35	169.06	-1,515.37	1,343.73	1,323.25	20.48	65.600		
5,900.00	3,356.45	2,877.40	2,860.02	64.20	8.84	19.78	160.04	-1,521.68	1,435.13	1,415.14	20.00	71.768		
6,000.00	3,353.83	2,865.73	2,849.69	66.52	8.79	19.01	155.58	-1,524.80	1,527.47	1,507.75	19.71	77.480		
6,100.00	3,351.21	2,850.00	2,835.64	68.83	8.71	18.03	149.80	-1,528.85	1,620.52	1,601.10	19.43	83.424		
6,200.00	3,348.58	2,850.00	2,835.64	71.15	8.71	18.03	149.80	-1,528.85	1,714.18	1,694.84	19.34	88.651		
6,300.00	3,345.96	2,850.00	2,835.64	73.47	8.71	18.03	149.80	-1,528.85	1,808.52	1,789.25	19.26	93.888		
6,400.00	3,343.34	2,824.89	2,812.89	75.79	8.59	16.58	141.09	-1,534.95	1,902.96	1,883.99	18.97	100.301		
6,500.00	3,340.71	2,800.00	2,789.99	78.11	8.47	15.28	133.10	-1,540.54	1,998.19	1,979.45	18.74	106.652		
6,600.00	3,338.09	2,800.00	2,789.99	80.43	8.47	15.28	133.10	-1,540.54	2,093.44	2,074.73	18.71	111.915		
6,700.00	3,335.46	2,800.00	2,789.99	82.75	8.47	15.28	133.10	-1,540.54	2,189.11	2,170.43	18.68	117.162		
6,800.00	3,332.84	2,800.00	2,789.99	85.08	8.47	15.28	133.10	-1,540.54	2,285.16	2,266.49	18.67	122.391		
6,900.00	3,330.22	2,800.00	2,789.99	87.40	8.47	15.28	133.10	-1,540.54	2,381.53	2,362.86	18.66	127.597		
7,000.00	3,327.59	2,777.20	2,768.73	89.72	8.35	14.21	126.37	-1,545.26	2,477.84	2,459.32	18.53	133.734		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Distance						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	0.00	0.00	0.01	-90.13	-3.74	-1,609.20	1,609.20					
100.00	100.00	101.00	100.00	0.92	0.93	-90.13	-3.74	-1,609.20	1,609.20	1,607.35	1.85	867.766		
200.00	200.00	201.00	200.00	1.53	1.53	-90.13	-3.74	-1,609.20	1,609.20	1,606.15	3.06	526.430		
300.00	300.00	301.00	300.00	1.95	1.96	-90.13	-3.74	-1,609.20	1,609.20	1,605.29	3.91	411.397		
400.00	400.00	401.00	400.00	2.31	2.31	-90.13	-3.74	-1,609.20	1,609.20	1,604.59	4.62	348.601		
500.00	500.00	501.00	500.00	2.61	2.62	-90.13	-3.74	-1,609.20	1,609.20	1,603.97	5.23	307.586		
600.00	600.00	601.00	600.00	2.89	2.89	-90.13	-3.74	-1,609.20	1,609.20	1,603.42	5.79	278.087		
700.00	700.00	701.00	700.00	3.15	3.15	-90.13	-3.74	-1,609.20	1,609.20	1,602.91	6.30	255.545		
800.00	800.00	801.00	800.00	3.39	3.39	-90.13	-3.74	-1,609.20	1,609.20	1,602.43	6.77	237.587		
900.00	900.00	901.00	900.00	3.61	3.61	-90.13	-3.74	-1,609.20	1,609.20	1,601.98	7.22	222.836		
1,000.00	1,000.00	1,001.00	1,000.00	3.82	3.82	-90.13	-3.74	-1,609.20	1,609.20	1,601.56	7.65	210.434		
1,100.00	1,100.00	1,101.00	1,100.00	4.03	4.03	-90.13	-3.74	-1,609.20	1,609.20	1,601.15	8.05	199.815		
1,200.00	1,200.00	1,201.00	1,200.00	4.22	4.22	-90.13	-3.74	-1,609.20	1,609.20	1,600.76	8.44	190.585		
1,300.00	1,300.00	1,301.00	1,300.00	4.41	4.41	-90.13	-3.74	-1,609.20	1,609.20	1,600.39	8.82	182.464		
1,400.00	1,400.00	1,401.00	1,400.00	4.59	4.59	-90.13	-3.74	-1,609.20	1,609.20	1,600.02	9.18	175.244		
1,500.00	1,500.00	1,501.00	1,500.00	4.77	4.77	-90.13	-3.74	-1,609.20	1,609.20	1,599.67	9.53	168.770		
1,600.00	1,600.00	1,601.00	1,600.00	4.94	4.94	-90.13	-3.74	-1,609.20	1,609.20	1,599.33	9.88	162.919		
1,700.00	1,700.00	1,701.00	1,700.00	5.10	5.11	-90.13	-3.74	-1,609.20	1,609.20	1,598.99	10.21	157.597		
1,800.00	1,800.00	1,801.00	1,800.00	5.27	5.27	-90.13	-3.74	-1,609.20	1,609.20	1,598.67	10.54	152.728		
1,900.00	1,900.00	4,652.49	3,457.11	5.43	34.78	-39.09	45.42	-36.90	1,558.21	1,541.58	16.62	93.734		
2,000.00	2,000.00	4,655.11	3,457.17	5.58	34.84	-37.19	45.19	-34.29	1,458.28	1,441.55	16.73	87.160		
2,100.00	2,100.00	4,657.72	3,457.24	5.74	34.90	-35.18	44.96	-31.69	1,358.36	1,341.52	16.84	80.652		
2,200.00	2,200.00	4,660.33	3,457.31	5.88	34.96	-33.03	44.73	-29.09	1,258.44	1,241.49	16.96	74.213		
2,300.00	2,300.00	4,662.95	3,457.38	6.03	35.02	-30.76	44.51	-26.48	1,158.54	1,141.46	17.08	67.843		
2,400.00	2,400.00	4,665.56	3,457.45	6.18	35.08	-28.34	44.28	-23.88	1,058.64	1,041.44	17.20	61.546		
2,500.00	2,500.00	4,668.18	3,457.52	6.32	35.14	-25.78	44.05	-21.28	958.77	941.43	17.33	55.322		
2,600.00	2,600.00	4,670.79	3,457.58	6.47	35.20	-23.08	43.82	-18.68	858.91	841.44	17.47	49.171		
2,700.00	2,699.72	4,667.16	3,457.49	6.70	35.11	152.43	44.14	-22.29	759.24	741.67	17.57	43.212		
2,800.00	2,797.60	4,649.81	3,457.04	6.98	34.72	164.13	45.65	-39.57	661.23	643.64	17.59	37.582		
2,900.00	2,891.73	4,619.06	3,456.23	7.28	34.02	166.76	48.33	-70.19	566.90	549.32	17.58	32.244		
3,000.00	2,980.28	4,575.51	3,455.09	7.59	33.04	166.83	52.12	-113.56	478.28	460.67	17.61	27.164		
3,100.00	3,061.52	4,519.99	3,453.64	7.90	31.79	165.44	56.96	-168.85	397.40	379.62	17.79	22.341		
3,200.00	3,133.88	4,453.61	3,451.91	8.20	30.30	162.72	62.74	-234.96	326.38	308.06	18.32	17.818		
3,300.00	3,195.98	4,377.66	3,449.92	8.85	28.61	158.40	69.36	-310.59	267.32	247.91	19.41	13.774		
3,400.00	3,253.33	4,297.99	3,447.84	10.09	26.84	150.14	76.30	-389.93	216.12	194.55	21.57	10.021		
3,500.00	3,310.65	4,218.30	3,445.76	11.43	25.09	138.35	83.24	-469.29	171.08	145.62	25.46	6.720		
3,600.00	3,359.47	4,133.15	3,443.53	12.97	23.24	125.23	90.66	-554.09	143.04	112.61	30.42	4.701		
3,700.00	3,392.46	4,037.01	3,441.02	14.78	21.16	111.49	98.02	-649.91	134.41	100.71	33.70	3.988		
3,744.00	3,401.67	3,992.38	3,439.85	15.65	20.19	106.82	100.37	-694.46	133.90	99.50	34.40	3.893		
3,800.00	3,408.60	3,934.47	3,438.33	16.76	18.96	102.88	102.38	-752.32	134.28	99.47	34.81	3.858		
3,900.00	3,408.93	3,827.67	3,434.44	18.83	16.74	100.98	102.97	-859.02	134.50	99.56	34.94	3.849		
4,000.00	3,406.31	3,719.29	3,415.21	20.97	14.61	94.10	98.74	-965.43	128.81	93.38	35.44	3.635		
4,100.00	3,403.68	3,620.40	3,381.04	23.14	12.84	79.37	90.56	-1,057.73	122.33	86.82	35.51	3.445 SF		
4,119.11	3,403.18	3,602.96	3,373.44	23.56	12.55	75.89	88.71	-1,073.32	122.06	86.80	35.26	3.462 CC, ES		
4,200.00	3,401.06	3,534.75	3,339.40	25.34	11.52	60.54	80.34	-1,131.79	128.37	95.69	32.68	3.928		
4,300.00	3,398.43	3,453.83	3,293.23	27.56	10.44	42.84	68.89	-1,197.25	155.49	128.12	27.37	5.682		
4,400.00	3,395.81	3,371.64	3,246.09	29.80	9.40	29.90	57.20	-1,263.55	195.93	172.87	23.06	8.495		
4,500.00	3,393.19	3,300.00	3,204.85	32.06	8.59	21.99	47.03	-1,321.24	243.49	223.00	20.49	11.883		
4,600.00	3,390.56	3,239.01	3,166.71	34.32	8.26	16.87	38.77	-1,368.09	299.55	280.68	18.87	15.872		
4,700.00	3,387.94	3,188.60	3,132.23	36.59	8.11	13.52	32.39	-1,404.29	363.36	345.46	17.90	20.297		
4,800.00	3,385.32	3,150.00	3,104.12	38.87	8.00	11.43	27.80	-1,430.34	433.16	415.84	17.32	25.006		
4,900.00	3,382.69	3,100.00	3,065.67	41.16	7.84	9.21	22.25	-1,461.80	507.50	490.58	16.92	29.999		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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		
5,000.00	3,380.07	3,070.34	3,041.84	43.45	7.75	8.13	19.18	-1,479.19	585.50	568.81	16.69	35.083		
5,100.00	3,377.44	3,050.00	3,025.09	45.74	7.68	7.47	17.18	-1,490.54	666.68	650.13	16.54	40.301		
5,200.00	3,374.82	3,000.00	2,982.56	48.04	7.52	6.09	12.62	-1,516.42	750.19	733.74	16.44	45.630		
5,300.00	3,372.20	3,000.00	2,982.56	50.34	7.52	6.09	12.62	-1,516.42	835.63	819.25	16.37	51.031		
5,400.00	3,369.57	2,966.27	2,952.89	52.65	7.41	5.33	9.83	-1,532.20	922.59	906.25	16.34	56.474		
5,500.00	3,366.95	2,950.00	2,938.31	54.95	7.36	5.01	8.58	-1,539.32	1,011.16	994.85	16.31	61.982		
5,600.00	3,364.33	2,928.97	2,919.23	57.26	7.30	4.63	7.04	-1,548.04	1,100.91	1,084.61	16.31	67.516		
5,700.00	3,361.70	2,900.00	2,892.54	59.57	7.21	4.16	5.09	-1,559.13	1,191.89	1,175.58	16.32	73.049		
5,800.00	3,359.08	2,900.00	2,892.54	61.89	7.21	4.16	5.09	-1,559.13	1,283.39	1,267.07	16.31	78.666		
5,900.00	3,356.45	2,900.00	2,892.54	64.20	7.21	4.16	5.09	-1,559.13	1,376.07	1,359.74	16.32	84.293		
6,000.00	3,353.83	2,872.81	2,867.10	66.52	7.12	3.78	3.42	-1,568.56	1,468.95	1,452.60	16.35	89.849		
6,100.00	3,351.21	2,850.00	2,845.49	68.83	7.05	3.50	2.16	-1,575.74	1,562.78	1,546.40	16.38	95.415		
6,200.00	3,348.58	2,850.00	2,845.49	71.15	7.05	3.50	2.16	-1,575.74	1,656.86	1,640.46	16.40	101.031		
6,300.00	3,345.96	2,850.00	2,845.49	73.47	7.05	3.50	2.16	-1,575.74	1,751.60	1,735.17	16.43	106.629		
6,400.00	3,343.34	2,850.00	2,845.49	75.79	7.05	3.50	2.16	-1,575.74	1,846.89	1,830.43	16.46	112.204		
6,500.00	3,340.71	2,824.66	2,821.22	78.11	6.98	3.23	0.89	-1,582.91	1,942.05	1,925.55	16.50	117.698		
6,600.00	3,338.09	2,800.00	2,797.37	80.43	6.90	3.00	-0.19	-1,589.08	2,038.08	2,021.54	16.54	123.190		
6,700.00	3,335.46	2,800.00	2,797.37	82.75	6.90	3.00	-0.19	-1,589.08	2,133.96	2,117.38	16.58	128.701		
6,800.00	3,332.84	2,800.00	2,797.37	85.08	6.90	3.00	-0.19	-1,589.08	2,230.19	2,213.57	16.62	134.178		
6,900.00	3,330.22	2,800.00	2,797.37	87.40	6.90	3.00	-0.19	-1,589.08	2,326.75	2,310.08	16.67	139.618		
7,000.00	3,327.59	2,800.00	2,797.37	89.72	6.90	3.00	-0.19	-1,589.08	2,423.58	2,406.87	16.71	145.020		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Aggie - The Aggie 31H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-89.43	15.91	-1,608.90	1,608.97					
100.00	100.00	100.00	100.00	0.92	0.92	-89.43	15.91	-1,608.90	1,608.97	1,607.13	1.85	870.468		
200.00	200.00	200.00	200.00	1.53	1.53	-89.43	15.91	-1,608.90	1,608.97	1,605.92	3.05	527.092		
300.00	300.00	300.00	300.00	1.95	1.95	-89.43	15.91	-1,608.90	1,608.97	1,605.07	3.91	411.709		
400.00	400.00	400.00	400.00	2.31	2.31	-89.43	15.91	-1,608.90	1,608.97	1,604.36	4.61	348.784		
500.00	500.00	500.00	500.00	2.61	2.61	-89.43	15.91	-1,608.90	1,608.97	1,603.75	5.23	307.705		
600.00	600.00	600.00	600.00	2.89	2.89	-89.43	15.91	-1,608.90	1,608.97	1,603.19	5.78	278.170		
700.00	700.00	700.00	700.00	3.15	3.15	-89.43	15.91	-1,608.90	1,608.97	1,602.68	6.29	255.605		
800.00	800.00	800.00	800.00	3.39	3.39	-89.43	15.91	-1,608.90	1,608.97	1,602.20	6.77	237.631		
900.00	900.00	900.00	900.00	3.61	3.61	-89.43	15.91	-1,608.90	1,608.97	1,601.76	7.22	222.870		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	-89.43	15.91	-1,608.90	1,608.97	1,601.33	7.65	210.460		
1,100.00	1,100.00	1,100.00	1,100.00	4.03	4.03	-89.43	15.91	-1,608.90	1,608.97	1,600.92	8.05	199.835		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	-89.43	15.91	-1,608.90	1,608.97	1,600.53	8.44	190.600		
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	-89.43	15.91	-1,608.90	1,608.97	1,600.16	8.82	182.475		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	-89.43	15.91	-1,608.90	1,608.97	1,599.79	9.18	175.253		
1,500.00	1,500.00	4,277.02	3,016.48	4.77	34.56	-4.65	450.71	-36.64	1,582.46	1,563.72	18.75	84.420		
1,600.00	1,600.00	4,279.63	3,016.55	4.94	34.62	-4.32	450.70	-34.02	1,486.91	1,467.74	19.16	77.601		
1,700.00	1,700.00	4,282.25	3,016.61	5.10	34.68	-3.99	450.68	-31.40	1,391.97	1,372.32	19.64	70.861		
1,800.00	1,800.00	4,284.87	3,016.68	5.27	34.73	-3.65	450.66	-28.79	1,297.78	1,277.57	20.21	64.218		
1,900.00	1,900.00	4,287.49	3,016.75	5.43	34.79	-3.32	450.64	-26.17	1,204.53	1,183.65	20.88	57.696		
2,000.00	2,000.00	4,290.11	3,016.82	5.58	34.85	-2.99	450.62	-23.55	1,112.45	1,090.77	21.67	51.325		
2,100.00	2,100.00	4,292.73	3,016.89	5.74	34.91	-2.66	450.61	-20.93	1,021.85	999.21	22.63	45.147		
2,200.00	2,200.00	4,295.34	3,016.96	5.88	34.96	-2.33	450.59	-18.32	933.16	909.36	23.80	39.211		
2,300.00	2,300.00	4,297.96	3,017.03	6.03	35.02	-2.00	450.57	-15.70	846.99	821.77	25.22	33.584		
2,400.00	2,400.00	4,300.58	3,017.09	6.18	35.08	-1.66	450.55	-13.08	764.18	737.22	26.96	28.345		
2,500.00	2,500.00	4,303.20	3,017.16	6.32	35.14	-1.33	450.53	-10.46	685.97	656.89	29.08	23.592		
2,600.00	2,600.00	4,305.82	3,017.23	6.47	35.19	-1.00	450.52	-7.85	614.09	582.48	31.61	19.428		
2,700.00	2,699.72	4,302.15	3,017.14	6.70	35.11	97.22	450.54	-11.51	551.38	517.07	34.31	16.069		
2,800.00	2,797.60	4,284.65	3,016.68	6.98	34.73	99.57	450.66	-29.00	502.17	465.39	36.79	13.651		
2,900.00	2,891.73	4,253.66	3,015.87	7.28	34.05	98.59	450.87	-59.99	470.27	431.77	38.50	12.216		
3,000.00	2,980.28	4,209.76	3,014.72	7.59	33.08	94.71	451.17	-103.87	457.29	418.30	38.99	11.728 SF		
3,022.18	2,998.99	4,198.36	3,014.42	7.66	32.84	93.52	451.25	-115.26	456.88	417.93	38.94	11.732 CC, ES		
3,100.00	3,061.52	4,153.82	3,013.25	7.90	31.87	88.58	451.56	-159.78	461.56	423.29	38.28	12.059		
3,200.00	3,133.88	4,086.93	3,011.50	8.20	30.42	81.15	452.01	-226.65	478.55	441.74	36.81	13.002		
3,300.00	3,195.98	4,010.41	3,009.50	8.85	28.77	73.73	452.54	-303.15	502.61	467.47	35.14	14.302		
3,400.00	3,253.33	3,930.13	3,007.40	10.09	27.07	68.66	453.09	-383.39	531.37	497.77	33.60	15.815		
3,500.00	3,310.65	3,846.69	3,005.21	11.43	25.32	63.54	453.59	-466.81	564.92	532.84	32.08	17.611		
3,600.00	3,359.47	3,743.80	3,002.51	12.97	23.17	55.91	451.77	-569.64	595.48	564.78	30.70	19.396		
3,700.00	3,392.46	3,631.92	2,999.58	14.78	20.87	50.89	445.59	-681.30	615.20	585.53	29.67	20.733		
3,800.00	3,408.60	3,514.97	2,996.51	16.76	18.51	48.23	434.48	-797.67	621.33	592.35	28.98	21.441		
3,900.00	3,408.93	3,417.24	2,991.86	18.83	16.60	47.24	420.66	-894.26	614.59	585.85	28.74	21.384		
4,000.00	3,406.31	3,335.23	2,978.58	20.97	15.04	45.32	402.60	-973.08	608.14	579.66	28.48	21.351		
4,093.90	3,403.84	3,264.41	2,959.58	23.01	13.75	42.81	382.18	-1,038.12	605.83	577.70	28.13	21.534		
4,100.00	3,403.68	3,260.05	2,958.19	23.14	13.67	42.64	380.78	-1,042.01	605.84	577.73	28.11	21.555		
4,200.00	3,401.06	3,193.12	2,933.73	25.34	12.54	39.56	357.44	-1,099.73	609.47	581.82	27.65	22.042		
4,300.00	3,398.43	3,134.66	2,907.76	27.56	11.62	36.43	334.28	-1,146.67	620.70	593.56	27.14	22.870		
4,400.00	3,395.81	3,084.17	2,882.09	29.80	10.88	33.46	312.40	-1,184.22	640.71	614.13	26.58	24.105		
4,500.00	3,393.19	3,034.68	2,854.33	32.06	10.23	30.39	289.50	-1,218.17	669.94	644.09	25.84	25.922		
4,600.00	3,390.56	2,965.96	2,814.91	34.32	9.34	26.24	257.21	-1,264.29	706.19	681.54	24.65	28.648		
4,700.00	3,387.94	2,897.24	2,775.49	36.59	8.71	22.34	224.92	-1,310.40	747.77	724.40	23.37	32.001		
4,800.00	3,385.32	2,849.68	2,748.22	38.87	8.57	19.79	202.57	-1,342.31	794.10	771.49	22.61	35.115		
4,900.00	3,382.69	2,800.00	2,718.33	41.16	8.40	17.27	179.82	-1,374.81	846.30	824.54	21.76	38.896		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft	
The Aggie - The Aggie 31H - Wellbore #1 - Design #1												Offset Well Error:	0.00 usft	
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance					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		
5,000.00	3,380.07	2,778.85	2,704.79	43.45	8.33	16.25	170.50	-1,388.12	904.28	882.86	21.42	42.214		
5,100.00	3,377.44	2,750.00	2,685.55	45.74	8.23	14.92	158.17	-1,405.73	967.34	946.38	20.96	46.158		
5,200.00	3,374.82	2,725.36	2,668.45	48.04	8.14	13.84	148.00	-1,420.26	1,034.63	1,014.05	20.57	50.288		
5,300.00	3,372.20	2,700.00	2,650.22	50.34	8.05	12.78	137.88	-1,434.70	1,105.51	1,085.30	20.21	54.706		
5,400.00	3,369.57	2,678.43	2,634.23	52.65	7.96	11.93	129.58	-1,446.56	1,179.46	1,159.54	19.92	59.225		
5,500.00	3,366.95	2,650.00	2,612.51	54.95	7.85	10.87	119.06	-1,461.58	1,256.09	1,236.50	19.59	64.105		
5,600.00	3,364.33	2,650.00	2,612.51	57.26	7.85	10.87	119.06	-1,461.58	1,335.05	1,315.53	19.52	68.399		
5,700.00	3,361.70	2,618.57	2,587.66	59.57	7.73	9.79	108.02	-1,477.34	1,415.68	1,396.44	19.24	73.588		
5,800.00	3,359.08	2,600.00	2,572.60	61.89	7.66	9.20	101.80	-1,486.23	1,498.18	1,479.11	19.07	78.555		
5,900.00	3,356.45	2,600.00	2,572.60	64.20	7.66	9.20	101.80	-1,486.23	1,582.40	1,563.38	19.01	83.228		
6,000.00	3,353.83	2,569.14	2,546.95	66.52	7.53	8.28	91.95	-1,500.29	1,667.47	1,648.64	18.83	88.545		
6,100.00	3,351.21	2,550.00	2,530.68	68.83	7.45	7.75	86.17	-1,508.55	1,753.95	1,735.22	18.72	93.669		
6,200.00	3,348.58	2,550.00	2,530.68	71.15	7.45	7.75	86.17	-1,508.55	1,841.49	1,822.80	18.69	98.550		
6,300.00	3,345.96	2,527.99	2,511.66	73.47	7.36	7.18	79.83	-1,517.60	1,929.81	1,911.21	18.60	103.747		
6,400.00	3,343.34	2,500.00	2,486.97	75.79	7.25	6.52	72.26	-1,528.42	2,019.24	2,000.72	18.53	108.980		
6,500.00	3,340.71	2,500.00	2,486.97	78.11	7.25	6.52	72.26	-1,528.42	2,109.00	2,090.49	18.51	113.961		
6,600.00	3,338.09	2,500.00	2,486.97	80.43	7.25	6.52	72.26	-1,528.42	2,199.64	2,181.15	18.49	118.969		
6,700.00	3,335.46	2,500.00	2,486.97	82.75	7.25	6.52	72.26	-1,528.42	2,291.06	2,272.58	18.48	123.994		
6,800.00	3,332.84	2,473.37	2,463.03	85.08	7.14	5.95	65.57	-1,537.97	2,382.58	2,364.14	18.45	129.153		
6,900.00	3,330.22	2,450.00	2,441.68	87.40	7.04	5.49	60.13	-1,545.74	2,475.01	2,456.57	18.44	134.237		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance			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	0.00	0.00	0.00	0.00	-90.86	-24.11	-1,609.51	1,609.69					
100.00	100.00	100.00	100.00	0.92	0.92	-90.86	-24.11	-1,609.51	1,609.69	1,607.84	1.85	870.855		
200.00	200.00	200.00	200.00	1.53	1.53	-90.86	-24.11	-1,609.51	1,609.69	1,606.64	3.05	527.326		
300.00	300.00	300.00	300.00	1.95	1.95	-90.86	-24.11	-1,609.51	1,609.69	1,605.78	3.91	411.892		
400.00	400.00	400.00	400.00	2.31	2.31	-90.86	-24.11	-1,609.51	1,609.69	1,605.08	4.61	348.939		
500.00	500.00	500.00	500.00	2.61	2.61	-90.86	-24.11	-1,609.51	1,609.69	1,604.46	5.23	307.842		
600.00	600.00	600.00	600.00	2.89	2.89	-90.86	-24.11	-1,609.51	1,609.69	1,603.91	5.78	278.293		
700.00	700.00	700.00	700.00	3.15	3.15	-90.86	-24.11	-1,609.51	1,609.69	1,603.40	6.29	255.719		
800.00	800.00	800.00	800.00	3.39	3.39	-90.86	-24.11	-1,609.51	1,609.69	1,602.92	6.77	237.737		
900.00	900.00	900.00	900.00	3.61	3.61	-90.86	-24.11	-1,609.51	1,609.69	1,602.47	7.22	222.969		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	-90.86	-24.11	-1,609.51	1,609.69	1,602.05	7.65	210.554		
1,100.00	1,100.00	1,100.00	1,100.00	4.03	4.03	-90.86	-24.11	-1,609.51	1,609.69	1,601.64	8.05	199.924		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	-90.86	-24.11	-1,609.51	1,609.69	1,601.25	8.44	190.685		
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	-90.86	-24.11	-1,609.51	1,609.69	1,600.87	8.82	182.557		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	-90.86	-24.11	-1,609.51	1,609.69	1,600.51	9.18	175.331		
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	-90.86	-24.11	-1,609.51	1,609.69	1,600.16	9.53	168.851		
1,600.00	1,600.00	1,600.00	1,600.00	4.94	4.94	-90.86	-24.11	-1,609.51	1,609.69	1,599.81	9.88	162.996		
1,700.00	1,700.00	1,700.00	1,700.00	5.10	5.10	-90.86	-24.11	-1,609.51	1,609.69	1,599.48	10.21	157.670		
1,800.00	1,800.00	4,436.40	3,236.63	5.27	34.59	-171.77	-512.37	-74.13	1,527.06	1,507.08	19.99	76.402		
1,900.00	1,900.00	4,439.59	3,236.71	5.43	34.66	-172.12	-512.60	-70.94	1,433.38	1,412.82	20.56	69.706		
2,000.00	2,000.00	4,442.79	3,236.80	5.58	34.73	-172.47	-512.82	-67.76	1,340.61	1,319.38	21.23	63.148		
2,100.00	2,100.00	4,445.98	3,236.88	5.74	34.80	-172.83	-513.04	-64.57	1,248.95	1,226.94	22.00	56.758		
2,200.00	2,200.00	4,449.17	3,236.96	5.88	34.87	-173.18	-513.25	-61.38	1,158.66	1,135.74	22.91	50.566		
2,300.00	2,300.00	4,452.37	3,237.05	6.03	34.94	-173.53	-513.46	-58.20	1,070.09	1,046.10	23.99	44.614		
2,400.00	2,400.00	4,455.56	3,237.13	6.18	35.01	-173.89	-513.67	-55.01	983.70	958.45	25.26	38.950		
2,500.00	2,500.00	4,458.76	3,237.21	6.32	35.09	-174.24	-513.87	-51.82	900.13	873.37	26.76	33.633		
2,600.00	2,600.00	4,461.96	3,237.30	6.47	35.16	-174.60	-514.07	-48.63	820.23	791.68	28.55	28.726		
2,700.00	2,699.72	4,467.52	3,237.18	6.70	35.06	-90.19	-513.79	-53.06	744.81	714.33	30.48	24.437		
2,800.00	2,797.60	4,436.32	3,236.63	6.98	34.58	-95.58	-512.37	-74.20	675.52	643.17	32.35	20.882		
2,900.00	2,891.73	4,398.85	3,235.64	7.28	33.75	-97.83	-509.47	-111.55	614.61	580.59	34.02	18.066		
3,000.00	2,980.28	4,353.64	3,234.46	7.59	32.74	-98.10	-505.55	-156.57	563.82	528.43	35.39	15.932		
3,100.00	3,061.52	4,298.13	3,233.01	7.90	31.51	-96.44	-500.71	-211.85	524.38	488.10	36.29	14.452		
3,200.00	3,133.88	4,231.75	3,231.27	8.20	30.05	-93.19	-494.93	-277.96	496.08	459.44	36.64	13.539		
3,300.00	3,195.98	4,155.80	3,229.28	8.85	28.39	-88.87	-488.31	-353.59	477.23	440.71	36.52	13.067		
3,400.00	3,253.33	4,076.14	3,227.20	10.09	26.66	-83.04	-481.37	-432.92	465.96	429.80	36.16	12.886 SF		
3,498.72	3,309.43	3,997.11	3,225.13	11.41	24.96	-77.25	-474.48	-511.62	462.29	426.83	35.46	13.037		
3,500.00	3,310.65	3,996.44	3,225.11	11.43	24.95	-77.13	-474.43	-512.29	462.38	426.93	35.45	13.043		
3,600.00	3,359.47	3,911.30	3,222.88	12.97	23.15	-71.85	-467.01	-597.08	464.15	429.60	34.54	13.437		
3,700.00	3,392.46	3,818.52	3,220.45	14.78	21.22	-67.68	-458.92	-689.48	465.96	432.20	33.76	13.802		
3,800.00	3,408.60	3,720.92	3,217.90	16.76	19.26	-65.42	-450.42	-786.67	464.07	430.77	33.31	13.934		
3,900.00	3,408.93	3,606.92	3,208.26	18.83	16.98	-63.87	-435.64	-899.12	455.61	422.82	32.79	13.894		
4,000.00	3,406.31	3,499.42	3,183.01	20.97	14.91	-59.75	-410.08	-1,000.27	443.76	411.74	32.03	13.856		
4,100.00	3,403.68	3,406.92	3,149.26	23.14	13.26	-54.07	-379.65	-1,080.73	433.52	402.38	31.14	13.922		
4,189.46	3,401.34	3,337.63	3,117.23	25.11	12.12	-48.60	-352.23	-1,135.65	429.76	399.48	30.27	14.196 CC, ES		
4,200.00	3,401.06	3,330.26	3,113.51	25.34	12.00	-47.97	-349.09	-1,141.19	429.82	399.65	30.16	14.249		
4,300.00	3,398.43	3,267.66	3,079.55	27.56	11.09	-42.23	-320.96	-1,185.57	437.02	407.91	29.10	15.017		
4,400.00	3,395.81	3,199.22	3,040.29	29.80	10.20	-35.80	-288.80	-1,231.50	456.34	428.91	27.43	16.635		
4,500.00	3,393.19	3,130.78	3,001.03	32.06	9.35	-29.71	-256.64	-1,277.42	485.95	460.36	25.58	18.994		
4,600.00	3,390.56	3,068.50	2,965.31	34.32	9.13	-24.55	-227.38	-1,319.21	524.13	500.23	23.89	21.937		
4,700.00	3,387.94	3,026.94	2,940.50	36.59	8.99	-21.33	-208.26	-1,346.52	571.22	548.42	22.80	25.058		
4,800.00	3,385.32	3,000.00	2,923.40	38.87	8.90	-19.35	-196.32	-1,363.57	627.07	605.01	22.05	28.436		
4,900.00	3,382.69	2,950.00	2,889.64	41.16	8.71	-15.97	-175.18	-1,393.77	689.74	668.90	20.84	33.091		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Aggie - The Aggie 32H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						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		
5,000.00	3,380.07	2,928.96	2,874.68	43.45	8.62	-14.67	-166.69	-1,405.89	757.80	737.47	20.33	37.275		
5,100.00	3,377.44	2,900.00	2,853.39	45.74	8.51	-12.99	-155.43	-1,421.97	830.40	810.66	19.74	42.067		
5,200.00	3,374.82	2,875.36	2,834.67	48.04	8.41	-11.68	-146.25	-1,435.09	906.55	887.26	19.29	46.990		
5,300.00	3,372.20	2,850.00	2,814.83	50.34	8.31	-10.42	-137.19	-1,448.03	985.61	966.71	18.90	52.143		
5,400.00	3,369.57	2,829.53	2,798.42	52.65	8.22	-9.49	-130.17	-1,458.05	1,067.07	1,048.45	18.62	57.305		
5,500.00	3,366.95	2,800.00	2,774.14	54.95	8.10	-8.25	-120.53	-1,471.82	1,150.62	1,132.30	18.32	62.812		
5,600.00	3,364.33	2,800.00	2,774.14	57.26	8.10	-8.25	-120.53	-1,471.82	1,235.79	1,217.53	18.26	67.696		
5,700.00	3,361.70	2,772.62	2,751.04	59.57	7.98	-7.22	-112.11	-1,483.84	1,322.28	1,304.24	18.04	73.279		
5,800.00	3,359.08	2,750.00	2,731.53	61.89	7.88	-6.45	-105.54	-1,493.22	1,410.15	1,392.25	17.90	78.786		
5,900.00	3,356.45	2,750.00	2,731.53	64.20	7.88	-6.45	-105.54	-1,493.22	1,499.09	1,481.22	17.87	83.906		
6,000.00	3,353.83	2,726.83	2,711.19	66.52	7.78	-5.73	-99.18	-1,502.31	1,588.85	1,571.09	17.76	89.457		
6,100.00	3,351.21	2,700.00	2,687.20	68.83	7.66	-4.98	-92.29	-1,512.15	1,679.67	1,661.99	17.67	95.046		
6,200.00	3,348.58	2,700.00	2,687.20	71.15	7.66	-4.98	-92.29	-1,512.15	1,770.88	1,753.22	17.66	100.271		
6,300.00	3,345.96	2,700.00	2,687.20	73.47	7.66	-4.98	-92.29	-1,512.15	1,862.99	1,845.34	17.66	105.513		
6,400.00	3,343.34	2,678.54	2,667.69	75.79	7.57	-4.44	-87.15	-1,519.48	1,955.49	1,937.87	17.62	111.002		
6,500.00	3,340.71	2,668.25	2,658.25	78.11	7.52	-4.20	-84.81	-1,522.83	2,048.60	2,030.99	17.61	116.357		
6,600.00	3,338.09	2,650.00	2,641.36	80.43	7.44	-3.80	-80.85	-1,528.49	2,142.23	2,124.63	17.59	121.768		
6,700.00	3,335.46	2,650.00	2,641.36	82.75	7.44	-3.80	-80.85	-1,528.49	2,236.15	2,218.54	17.61	127.013		
6,800.00	3,332.84	2,650.00	2,641.36	85.08	7.44	-3.80	-80.85	-1,528.49	2,330.58	2,312.96	17.62	132.245		
6,900.00	3,330.22	2,650.00	2,641.36	87.40	7.44	-3.80	-80.85	-1,528.49	2,425.45	2,407.81	17.65	137.458		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance			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	0.00	0.00	0.01	-91.57	-44.13	-1,609.51	1,610.12					
100.00	100.00	101.00	100.00	0.92	0.93	-91.57	-44.13	-1,609.51	1,610.12	1,608.26	1.85	868.257		
200.00	200.00	201.00	200.00	1.53	1.53	-91.57	-44.13	-1,609.51	1,610.12	1,607.06	3.06	526.728		
300.00	300.00	301.00	300.00	1.95	1.96	-91.57	-44.13	-1,609.51	1,610.12	1,606.20	3.91	411.629		
400.00	400.00	401.00	400.00	2.31	2.31	-91.57	-44.13	-1,609.51	1,610.12	1,605.50	4.62	348.798		
500.00	500.00	501.00	500.00	2.61	2.62	-91.57	-44.13	-1,609.51	1,610.12	1,604.88	5.23	307.760		
600.00	600.00	601.00	600.00	2.89	2.89	-91.57	-44.13	-1,609.51	1,610.12	1,604.33	5.79	278.244		
700.00	700.00	701.00	700.00	3.15	3.15	-91.57	-44.13	-1,609.51	1,610.12	1,603.82	6.30	255.690		
800.00	800.00	801.00	800.00	3.39	3.39	-91.57	-44.13	-1,609.51	1,610.12	1,603.34	6.77	237.721		
900.00	900.00	901.00	900.00	3.61	3.61	-91.57	-44.13	-1,609.51	1,610.12	1,602.89	7.22	222.962		
1,000.00	1,000.00	1,001.00	1,000.00	3.82	3.82	-91.57	-44.13	-1,609.51	1,610.12	1,602.47	7.65	210.554		
1,100.00	1,100.00	1,101.00	1,100.00	4.03	4.03	-91.57	-44.13	-1,609.51	1,610.12	1,602.06	8.05	199.928		
1,200.00	1,200.00	1,201.00	1,200.00	4.22	4.22	-91.57	-44.13	-1,609.51	1,610.12	1,601.67	8.44	190.693		
1,300.00	1,300.00	1,301.00	1,300.00	4.41	4.41	-91.57	-44.13	-1,609.51	1,610.12	1,601.30	8.82	182.567		
1,400.00	1,400.00	1,401.00	1,400.00	4.59	4.59	-91.57	-44.13	-1,609.51	1,610.12	1,600.93	9.18	175.344		
1,500.00	1,500.00	1,501.37	1,500.37	4.77	4.77	-91.57	-44.13	-1,609.51	1,610.12	1,600.58	9.54	168.853		
1,600.00	1,600.00	1,637.79	1,636.74	4.94	5.11	-91.67	-47.00	-1,607.85	1,608.96	1,599.02	9.94	161.925		
1,700.00	1,700.00	1,754.14	1,752.85	5.10	5.36	-91.91	-53.44	-1,604.13	1,605.89	1,595.62	10.27	156.341		
1,800.00	1,800.00	1,853.90	1,852.36	5.27	5.53	-92.13	-59.47	-1,600.65	1,602.61	1,592.04	10.57	151.570		
1,900.00	1,900.00	1,953.66	1,951.88	5.43	5.72	-92.35	-65.49	-1,597.17	1,599.36	1,588.48	10.88	147.059		
2,000.00	2,000.00	2,053.41	2,051.39	5.58	5.94	-92.57	-71.52	-1,593.69	1,596.13	1,584.95	11.18	142.790		
2,100.00	2,100.00	2,153.17	2,150.90	5.74	6.16	-92.79	-77.55	-1,590.22	1,592.92	1,581.44	11.48	138.748		
2,200.00	2,200.00	2,252.93	2,250.42	5.88	6.40	-93.01	-83.57	-1,586.74	1,589.74	1,577.95	11.78	134.918		
2,300.00	2,300.00	4,913.52	3,512.08	6.03	36.69	-173.16	-1,016.54	-121.85	1,586.61	1,558.66	27.95	56.776		
2,400.00	2,400.00	4,917.66	3,512.19	6.18	36.77	-173.40	-1,016.90	-117.73	1,511.59	1,482.54	29.04	52.044		
2,500.00	2,500.00	4,921.79	3,512.30	6.32	36.86	-173.63	-1,017.25	-113.62	1,439.60	1,409.37	30.23	47.617		
2,600.00	2,600.00	4,925.92	3,512.41	6.47	36.94	-173.86	-1,017.60	-109.50	1,371.12	1,339.61	31.52	43.506		
2,700.00	2,699.72	4,920.33	3,512.26	6.70	36.83	-87.40	-1,017.13	-115.07	1,306.15	1,273.47	32.68	39.971		
2,800.00	2,797.60	4,893.41	3,511.54	6.98	36.27	-92.08	-1,014.70	-141.87	1,245.09	1,211.55	33.55	37.117		
2,900.00	2,891.73	4,845.85	3,510.28	7.28	35.29	-94.99	-1,009.80	-189.16	1,188.93	1,154.85	34.08	34.887		
3,000.00	2,980.28	4,778.93	3,508.50	7.59	33.91	-96.41	-1,001.58	-255.55	1,137.94	1,103.68	34.26	33.214		
3,100.00	3,061.52	4,694.48	3,506.25	7.90	32.16	-96.72	-989.00	-339.02	1,091.69	1,057.56	34.12	31.994		
3,200.00	3,133.88	4,594.90	3,503.59	8.20	30.12	-96.38	-971.01	-436.93	1,049.13	1,015.39	33.74	31.095		
3,300.00	3,195.98	4,483.09	3,500.60	8.85	27.83	-95.63	-946.77	-546.03	1,008.83	975.62	33.20	30.383		
3,400.00	3,253.33	4,368.50	3,497.54	10.09	25.51	-91.65	-917.52	-656.77	968.81	936.07	32.74	29.587		
3,500.00	3,310.65	4,256.92	3,494.58	11.43	23.29	-87.86	-884.81	-763.40	928.57	896.23	32.34	28.713		
3,600.00	3,359.47	4,140.98	3,491.51	12.97	21.03	-88.75	-846.44	-872.76	888.32	856.42	31.90	27.851		
3,700.00	3,392.46	3,991.09	3,315.94	14.78	10.91	-61.13	-490.58	-1,351.75	839.27	817.62	21.66	38.756		
3,800.00	3,408.60	3,460.97	3,298.66	16.76	10.81	-70.31	-469.21	-1,364.09	759.96	737.45	22.51	33.757		
3,900.00	3,408.93	3,420.56	3,275.49	18.83	10.69	-73.74	-440.55	-1,380.64	681.00	657.61	23.39	29.120		
4,000.00	3,406.31	3,378.32	3,251.26	20.97	10.57	-69.33	-410.59	-1,397.94	604.88	580.39	24.49	24.701		
4,100.00	3,403.68	3,336.09	3,227.04	23.14	10.45	-64.47	-380.62	-1,415.23	533.33	507.45	25.88	20.611		
4,200.00	3,401.06	3,300.00	3,205.98	25.34	10.33	-59.95	-355.24	-1,429.89	468.69	440.94	27.75	16.888		
4,300.00	3,398.43	3,271.74	3,188.53	27.56	10.22	-56.12	-335.99	-1,441.00	415.11	384.94	30.18	13.756		
4,400.00	3,395.81	3,250.00	3,174.52	29.80	10.14	-53.05	-321.60	-1,449.31	377.74	344.96	32.78	11.522		
4,500.00	3,393.19	3,216.86	3,152.20	32.06	10.00	-48.24	-300.39	-1,461.56	361.66	327.86	33.80	10.700		
4,515.70	3,392.78	3,212.83	3,149.41	32.41	9.98	-47.65	-297.87	-1,463.01	361.35	327.46	33.89	10.664	CC, ES, SF	
4,600.00	3,390.56	3,200.00	3,140.42	34.32	9.93	-45.76	-289.94	-1,467.59	370.29	336.12	34.17	10.838		
4,700.00	3,387.94	3,168.36	3,117.56	36.59	9.79	-41.14	-271.00	-1,478.52	401.82	369.66	32.16	12.494		
4,800.00	3,385.32	3,150.00	3,103.86	38.87	9.71	-38.51	-260.42	-1,484.63	452.00	421.80	30.20	14.965		
4,900.00	3,382.69	3,125.55	3,085.13	41.16	9.60	-35.12	-246.81	-1,492.49	515.39	487.57	27.83	18.520		
5,000.00	3,380.07	3,100.00	3,065.00	43.45	9.48	-31.75	-233.18	-1,500.36	587.97	562.30	25.66	22.909		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Aggie - The Aggie 3H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	3,377.44	3,087.74	3,055.15	45.74	9.42	-30.20	-226.86	-1,504.01	666.65	642.33	24.32	27.411		
5,200.00	3,374.82	3,070.51	3,041.09	48.04	9.34	-28.11	-218.23	-1,508.99	749.73	726.69	23.04	32.544		
5,300.00	3,372.20	3,050.00	3,024.05	50.34	9.25	-25.77	-208.35	-1,514.70	835.93	814.04	21.89	38.188		
5,400.00	3,369.57	3,050.00	3,024.05	52.65	9.25	-25.77	-208.35	-1,514.70	924.50	903.05	21.45	43.098		
5,500.00	3,366.95	3,024.60	3,002.51	54.95	9.12	-23.08	-196.70	-1,521.42	1,014.57	994.05	20.52	49.443		
5,600.00	3,364.33	3,000.00	2,981.20	57.26	9.00	-20.72	-186.06	-1,527.57	1,106.21	1,086.43	19.78	55.937		
5,700.00	3,361.70	3,000.00	2,981.20	59.57	9.00	-20.72	-186.06	-1,527.57	1,198.68	1,179.10	19.58	61.223		
5,800.00	3,359.08	2,986.02	2,968.90	61.89	8.94	-19.47	-180.29	-1,530.90	1,292.11	1,272.91	19.19	67.315		
5,900.00	3,356.45	2,974.53	2,958.70	64.20	8.88	-18.50	-175.71	-1,533.54	1,386.24	1,367.33	18.91	73.323		
6,000.00	3,353.83	2,950.00	2,936.66	66.52	8.76	-16.59	-166.41	-1,538.91	1,481.10	1,462.60	18.50	80.068		
6,100.00	3,351.21	2,950.00	2,936.66	68.83	8.76	-16.59	-166.41	-1,538.91	1,576.16	1,557.73	18.43	85.504		
6,200.00	3,348.58	2,950.00	2,936.66	71.15	8.76	-16.59	-166.41	-1,538.91	1,671.81	1,653.42	18.38	90.936		
6,300.00	3,345.96	2,934.21	2,922.28	73.47	8.68	-15.48	-160.77	-1,542.17	1,767.76	1,749.57	18.19	97.206		
6,400.00	3,343.34	2,925.36	2,914.15	75.79	8.64	-14.88	-157.73	-1,543.92	1,864.05	1,845.97	18.08	103.094		
6,500.00	3,340.71	2,916.94	2,906.38	78.11	8.60	-14.34	-154.91	-1,545.55	1,960.62	1,942.63	18.00	108.944		
6,600.00	3,338.09	2,900.00	2,890.64	80.43	8.51	-13.33	-149.49	-1,548.68	2,057.49	2,039.63	17.86	115.201		
6,700.00	3,335.46	2,900.00	2,890.64	82.75	8.51	-13.33	-149.49	-1,548.68	2,154.47	2,136.60	17.87	120.582		
6,800.00	3,332.84	2,900.00	2,890.64	85.08	8.51	-13.33	-149.49	-1,548.68	2,251.71	2,233.83	17.88	125.932		
6,900.00	3,330.22	2,900.00	2,890.64	87.40	8.51	-13.33	-149.49	-1,548.68	2,349.18	2,331.28	17.90	131.249		
7,000.00	3,327.59	2,880.30	2,872.15	89.72	8.42	-12.25	-143.60	-1,552.08	2,446.63	2,428.83	17.80	137.488		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Horned Frog - The Horned Frog 1H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.85	0.00	49.85					
100.00	100.00	100.00	100.00	0.92	0.92	0.00	49.85	0.00	49.85	48.00	1.85	26.967		
200.00	200.00	200.00	200.00	1.53	1.53	0.00	49.85	0.00	49.85	46.79	3.05	16.329		
300.00	300.00	300.00	300.00	1.95	1.95	0.00	49.85	0.00	49.85	45.94	3.91	12.755		
400.00	400.00	400.00	400.00	2.31	2.31	0.00	49.85	0.00	49.85	45.23	4.61	10.805		
500.00	500.00	500.00	500.00	2.61	2.61	0.00	49.85	0.00	49.85	44.62	5.23	9.533		
600.00	600.00	600.00	600.00	2.89	2.89	0.00	49.85	0.00	49.85	44.06	5.78	8.618		
700.00	700.00	700.00	700.00	3.15	3.15	0.00	49.85	0.00	49.85	43.55	6.29	7.919		
800.00	800.00	800.00	800.00	3.39	3.39	0.00	49.85	0.00	49.85	43.08	6.77	7.362		
900.00	900.00	900.00	900.00	3.61	3.61	0.00	49.85	0.00	49.85	42.63	7.22	6.905		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	0.00	49.85	0.00	49.85	42.20	7.65	6.520		
1,100.00	1,100.00	1,100.00	1,100.00	4.03	4.03	0.00	49.85	0.00	49.85	41.80	8.05	6.191		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	0.00	49.85	0.00	49.85	41.40	8.44	5.905		
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	0.00	49.85	0.00	49.85	41.03	8.82	5.653		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	0.00	49.85	0.00	49.85	40.67	9.18	5.429		
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	0.00	49.85	0.00	49.85	40.31	9.53	5.229 CC, ES		
1,600.00	1,600.00	1,598.48	1,598.46	4.94	5.03	-0.95	51.31	-0.85	51.34	41.40	9.95	5.162		
1,700.00	1,700.00	1,696.72	1,696.57	5.10	5.31	-3.47	55.69	-3.38	55.90	45.55	10.36	5.398		
1,800.00	1,800.00	1,796.42	1,796.02	5.27	5.51	-6.34	61.71	-6.86	62.22	51.50	10.72	5.804		
1,900.00	1,900.00	1,896.18	1,895.54	5.43	5.72	-8.68	67.74	-10.34	68.67	57.58	11.09	6.191		
2,000.00	2,000.00	1,995.93	1,995.05	5.58	5.94	-10.61	73.77	-13.82	75.21	63.74	11.48	6.555		
2,100.00	2,100.00	2,095.69	2,094.56	5.74	6.18	-12.23	79.79	-17.29	81.83	69.96	11.87	6.895		
2,200.00	2,200.00	2,195.45	2,194.08	5.88	6.44	-13.61	85.82	-20.77	88.50	76.23	12.27	7.212		
2,300.00	2,300.00	2,295.20	2,293.59	6.03	6.70	-14.79	91.85	-24.25	95.21	82.53	12.68	7.509		
2,400.00	2,400.00	2,394.96	2,393.10	6.18	6.97	-15.82	97.87	-27.73	101.96	88.86	13.10	7.785		
2,500.00	2,500.00	2,494.72	2,492.62	6.32	7.25	-16.72	103.90	-31.21	108.74	95.22	13.52	8.042		
2,600.00	2,600.00	2,594.32	2,591.98	6.47	7.53	-17.51	109.92	-34.69	115.54	101.59	13.95	8.283		
2,700.00	2,699.72	2,679.59	2,676.47	6.70	7.92	-17.52	119.54	-40.24	126.69	112.43	14.26	8.885		
2,800.00	2,797.60	2,761.82	2,756.15	6.98	8.31	-17.56	136.98	-50.31	146.24	131.84	14.40	10.153		
2,900.00	2,891.73	2,839.44	2,828.78	7.28	8.69	-17.56	160.60	-63.95	175.08	160.61	14.47	12.100		
3,000.00	2,980.28	2,911.42	2,893.13	7.59	9.04	-17.56	188.47	-80.04	213.62	199.04	14.58	14.648		
3,100.00	3,061.52	2,977.26	2,948.90	7.90	9.35	-17.56	218.75	-97.52	261.33	246.47	14.86	17.585		
3,200.00	3,133.88	3,036.89	2,996.45	8.20	9.62	-17.56	249.89	-115.50	317.09	301.73	15.36	20.647		
3,300.00	3,195.98	3,090.53	3,036.53	8.85	9.86	-17.56	280.74	-133.31	379.51	363.44	16.07	23.618		
3,400.00	3,253.33	3,140.85	3,071.61	10.09	10.07	-17.56	311.97	-151.34	447.47	430.52	16.95	26.402		
3,500.00	3,310.65	3,189.40	3,102.98	11.43	10.26	-17.56	344.05	-169.86	519.48	501.62	17.86	29.083		
3,600.00	3,359.47	3,235.48	3,130.38	12.97	10.41	-17.56	376.13	-188.38	593.98	575.09	18.89	31.451		
3,700.00	3,392.46	3,291.33	3,162.41	14.78	10.58	-17.56	415.75	-211.26	688.64	648.27	20.37	32.822		
3,800.00	3,408.60	3,339.97	3,190.31	16.76	10.71	-17.56	450.25	-231.18	742.32	720.42	21.90	33.890		
3,900.00	3,408.93	3,380.76	3,213.70	18.83	10.84	-17.56	479.19	-247.88	815.25	791.96	23.29	35.009		
4,000.00	3,406.31	4,005.88	3,401.33	20.97	20.22	-17.56	819.37	-699.94	886.10	846.90	39.20	22.606		
4,100.00	3,403.68	4,146.38	3,397.63	23.14	22.87	-17.56	856.41	-835.40	912.77	868.75	44.01	20.738		
4,200.00	3,401.06	4,290.42	3,393.83	25.34	25.69	-17.56	887.44	-975.99	934.61	885.62	48.99	19.079		
4,300.00	3,398.43	4,437.37	3,389.94	27.56	28.61	-17.56	911.78	-1,120.84	951.47	897.42	54.06	17.602		
4,400.00	3,395.81	4,586.54	3,385.99	29.80	31.62	-17.56	928.85	-1,268.96	963.22	904.08	59.14	16.287		
4,500.00	3,393.19	4,737.14	3,382.02	32.06	34.67	-17.56	938.24	-1,419.20	969.75	905.58	64.18	15.111		
4,600.00	3,390.56	4,875.09	3,378.41	34.32	37.46	-17.56	940.01	-1,557.08	971.20	902.22	68.98	14.080		
4,700.00	3,387.94	4,975.09	3,375.80	36.59	39.50	-17.56	939.71	-1,657.04	971.20	897.76	73.44	13.225		
4,800.00	3,385.32	5,075.09	3,373.18	38.87	41.57	-17.56	939.41	-1,757.01	971.20	893.28	77.92	12.464		
4,900.00	3,382.69	5,175.09	3,370.57	41.16	43.67	-17.56	939.11	-1,856.97	971.20	888.77	82.42	11.783		
5,000.00	3,380.07	5,275.09	3,367.95	43.45	45.78	-17.56	938.81	-1,956.94	971.20	884.25	86.94	11.170		
5,100.00	3,377.44	5,375.09	3,365.34	45.74	47.92	-17.56	938.51	-2,056.91	971.19	879.71	91.48	10.616		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
The Horned Frog - The Horned Frog 1H - Wellbore #1 - Design #1												Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM													
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	3,374.82	5,475.09	3,362.73	48.04	50.07	89.29	938.21	-2,156.87	971.19	875.16	96.03	10.114	
5,300.00	3,372.20	5,575.09	3,360.11	50.34	52.24	89.29	937.90	-2,256.84	971.19	870.60	100.59	9.655	
5,400.00	3,369.57	5,675.09	3,357.50	52.65	54.42	89.29	937.60	-2,356.80	971.19	866.03	105.15	9.236	
5,500.00	3,366.95	5,775.09	3,354.88	54.95	56.62	89.29	937.30	-2,456.77	971.19	861.46	109.73	8.851	
5,600.00	3,364.33	5,875.09	3,352.27	57.26	58.82	89.29	937.00	-2,556.73	971.18	856.87	114.31	8.496	
5,700.00	3,361.70	5,975.09	3,349.66	59.57	61.04	89.29	936.70	-2,656.70	971.18	852.28	118.90	8.168	
5,800.00	3,359.08	6,075.09	3,347.04	61.89	63.26	89.29	936.40	-2,756.66	971.18	847.68	123.50	7.864	
5,900.00	3,356.45	6,175.09	3,344.43	64.20	65.49	89.29	936.10	-2,856.63	971.18	843.08	128.10	7.581	
6,000.00	3,353.83	6,275.09	3,341.81	66.52	67.72	89.29	935.80	-2,956.59	971.18	838.47	132.70	7.318	
6,100.00	3,351.21	6,375.09	3,339.20	68.83	69.97	89.29	935.50	-3,056.56	971.18	833.86	137.31	7.073	
6,200.00	3,348.58	6,475.09	3,336.59	71.15	72.21	89.29	935.19	-3,156.52	971.17	829.25	141.93	6.843	
6,300.00	3,345.96	6,575.09	3,333.97	73.47	74.47	89.29	934.89	-3,256.49	971.17	824.63	146.54	6.627	
6,400.00	3,343.34	6,675.09	3,331.36	75.79	76.73	89.29	934.59	-3,356.46	971.17	820.01	151.16	6.425	
6,500.00	3,340.71	6,775.09	3,328.74	78.11	78.99	89.29	934.29	-3,456.42	971.17	815.38	155.78	6.234	
6,600.00	3,338.09	6,875.09	3,326.13	80.43	81.25	89.29	933.99	-3,556.39	971.17	810.76	160.41	6.054	
6,700.00	3,335.46	6,975.09	3,323.52	82.75	83.53	89.29	933.69	-3,656.35	971.17	806.13	165.04	5.885	
6,800.00	3,332.84	7,075.09	3,320.90	85.08	85.80	89.30	933.39	-3,756.32	971.16	801.50	169.67	5.724	
6,900.00	3,330.22	7,175.09	3,318.29	87.40	88.07	89.30	933.09	-3,856.28	971.16	796.87	174.30	5.572	
7,000.00	3,327.59	7,275.09	3,315.67	89.72	90.35	89.30	932.79	-3,956.25	971.16	792.23	178.93	5.428	
7,100.00	3,324.97	7,375.09	3,313.06	92.05	92.64	89.30	932.48	-4,056.21	971.16	787.59	183.56	5.291	
7,200.00	3,322.35	7,475.09	3,310.45	94.37	94.92	89.30	932.18	-4,156.18	971.16	782.96	188.20	5.160	
7,300.00	3,319.72	7,575.09	3,307.83	96.70	97.21	89.30	931.88	-4,256.14	971.16	778.32	192.84	5.036	
7,400.00	3,317.10	7,675.09	3,305.22	99.02	99.50	89.30	931.58	-4,356.11	971.15	773.68	197.48	4.918	
7,500.00	3,314.47	7,775.09	3,302.60	101.35	101.79	89.30	931.28	-4,456.07	971.15	769.03	202.12	4.805	
7,600.00	3,311.85	7,875.09	3,299.99	103.67	104.08	89.30	930.98	-4,556.04	971.15	764.39	206.76	4.697	
7,700.00	3,309.23	7,975.09	3,297.38	106.00	106.37	89.30	930.68	-4,656.00	971.15	759.75	211.40	4.594	
7,800.00	3,306.60	8,075.09	3,294.76	108.33	108.67	89.30	930.38	-4,755.97	971.15	755.10	216.05	4.495	
7,900.00	3,303.98	8,175.09	3,292.15	110.65	110.97	89.30	930.08	-4,855.94	971.15	750.46	220.69	4.400	
8,000.00	3,301.35	8,275.09	3,289.53	112.98	113.27	89.30	929.77	-4,955.90	971.14	745.81	225.34	4.310	
8,100.00	3,298.73	8,375.09	3,286.92	115.31	115.57	89.30	929.47	-5,055.87	971.14	741.16	229.98	4.223	
8,200.00	3,296.11	8,475.09	3,284.31	117.63	117.87	89.30	929.17	-5,155.83	971.14	736.51	234.63	4.139	
8,300.00	3,293.48	8,575.09	3,281.69	119.96	120.17	89.30	928.87	-5,255.80	971.14	731.86	239.28	4.059	
8,400.00	3,290.86	8,675.09	3,279.08	122.29	122.48	89.30	928.57	-5,355.76	971.14	727.21	243.93	3.981	
8,500.00	3,288.24	8,775.09	3,276.46	124.62	124.78	89.31	928.27	-5,455.73	971.14	722.56	248.57	3.907	
8,600.00	3,285.61	8,875.09	3,273.85	126.95	127.09	89.31	927.97	-5,555.69	971.13	717.91	253.22	3.835	
8,700.00	3,282.99	8,975.09	3,271.24	129.28	129.40	89.31	927.67	-5,655.66	971.13	713.26	257.87	3.766	
8,800.00	3,280.36	9,075.09	3,268.62	131.60	131.70	89.31	927.37	-5,755.62	971.13	708.61	262.53	3.699	
8,900.00	3,277.74	9,175.09	3,266.01	133.93	134.01	89.31	927.06	-5,855.59	971.13	703.95	267.18	3.635	
9,000.00	3,275.12	9,275.09	3,263.39	136.26	136.32	89.31	926.76	-5,955.55	971.13	699.30	271.83	3.573	
9,100.00	3,272.49	9,375.09	3,260.78	138.59	138.63	89.31	926.46	-6,055.52	971.13	694.64	276.48	3.512	
9,127.09	3,271.78	9,402.11	3,260.07	139.22	139.26	89.31	926.38	-6,082.54	971.13	693.39	277.73	3.497	
9,141.67	3,271.40	9,402.11	3,260.07	139.56	139.26	89.31	926.38	-6,082.54	971.24	692.99	278.25	3.491 SF	

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.11	0.00	25.11					
100.00	100.00	100.00	100.00	0.92	0.92	0.00	25.11	0.00	25.11	23.26	1.85	13.582		
200.00	200.00	200.00	200.00	1.53	1.53	0.00	25.11	0.00	25.11	22.05	3.05	8.224		
300.00	300.00	300.00	300.00	1.95	1.95	0.00	25.11	0.00	25.11	21.20	3.91	6.424		
400.00	400.00	400.00	400.00	2.31	2.31	0.00	25.11	0.00	25.11	20.49	4.61	5.442		
500.00	500.00	500.00	500.00	2.61	2.61	0.00	25.11	0.00	25.11	19.88	5.23	4.801		
600.00	600.00	600.00	600.00	2.89	2.89	0.00	25.11	0.00	25.11	19.32	5.78	4.340		
700.00	700.00	700.00	700.00	3.15	3.15	0.00	25.11	0.00	25.11	18.81	6.29	3.988		
800.00	800.00	800.00	800.00	3.39	3.39	0.00	25.11	0.00	25.11	18.33	6.77	3.708		
900.00	900.00	900.00	900.00	3.61	3.61	0.00	25.11	0.00	25.11	17.89	7.22	3.477		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	0.00	25.11	0.00	25.11	17.46	7.65	3.284		
1,100.00	1,100.00	1,100.00	1,100.00	4.03	4.03	0.00	25.11	0.00	25.11	17.05	8.05	3.118		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	0.00	25.11	0.00	25.11	16.66	8.44	2.974		
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	0.00	25.11	0.00	25.11	16.29	8.82	2.847		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	0.00	25.11	0.00	25.11	15.92	9.18	2.735		
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	0.00	25.11	0.00	25.11	15.57	9.53	2.633		
1,600.00	1,600.00	1,600.00	1,600.00	4.94	4.94	0.00	25.11	0.00	25.11	15.23	9.88	2.542		
1,700.00	1,700.00	1,700.00	1,700.00	5.10	5.10	0.00	25.11	0.00	25.11	14.90	10.21	2.459		
1,800.00	1,800.00	1,800.00	1,800.00	5.27	5.27	0.00	25.11	0.00	25.11	14.57	10.53	2.383	CC, ES	
1,900.00	1,900.00	1,899.46	1,899.44	5.43	5.51	-3.11	26.10	-1.42	26.14	15.26	10.88	2.402		
2,000.00	2,000.00	1,998.68	1,998.52	5.58	5.76	-10.99	29.06	-5.64	29.64	18.39	11.24	2.636		
2,100.00	2,100.00	2,098.43	2,098.02	5.74	5.94	-18.94	33.05	-11.34	34.99	23.41	11.59	3.020		
2,200.00	2,200.00	2,198.18	2,197.54	5.88	6.14	-24.71	37.04	-17.04	40.84	28.90	11.94	3.420		
2,300.00	2,300.00	2,297.94	2,297.05	6.03	6.35	-29.00	41.03	-22.74	47.00	34.70	12.30	3.820		
2,400.00	2,400.00	2,395.38	2,394.19	6.18	6.54	-32.54	45.37	-28.94	54.13	41.52	12.61	4.292		
2,500.00	2,500.00	2,486.33	2,483.62	6.32	6.90	-37.69	54.70	-42.26	71.04	58.10	12.94	5.489		
2,600.00	2,600.00	2,571.92	2,565.25	6.47	7.27	-42.34	69.34	-63.18	100.03	86.86	13.17	7.595		
2,700.00	2,699.72	2,650.00	2,636.59	6.70	7.60	46.62	87.49	-89.09	136.18	122.98	13.20	10.318		
2,800.00	2,797.60	2,728.53	2,704.45	6.98	7.94	45.97	110.12	-121.41	173.50	160.18	13.32	13.021		
2,900.00	2,891.73	2,800.00	2,762.11	7.28	8.23	46.47	134.30	-155.95	211.69	198.35	13.34	15.869		
3,000.00	2,980.28	2,870.44	2,814.56	7.59	8.51	47.52	161.25	-194.44	250.70	237.18	13.51	18.552		
3,100.00	3,061.52	2,936.41	2,859.27	7.90	8.75	48.59	189.05	-234.14	290.54	276.72	13.83	21.013		
3,200.00	3,133.88	2,999.54	2,897.72	8.20	8.97	49.60	217.77	-275.15	331.20	316.77	14.43	22.954		
3,300.00	3,195.98	3,085.87	2,947.23	8.85	9.54	52.56	258.33	-333.08	369.57	353.56	16.01	23.078		
3,400.00	3,253.33	3,171.93	2,996.59	10.09	10.65	57.58	298.76	-390.82	407.63	389.61	18.02	22.616		
3,500.00	3,310.65	3,256.48	3,043.38	11.43	11.87	61.06	337.48	-449.58	448.32	428.07	20.25	22.142		
3,600.00	3,359.47	3,345.75	3,084.53	12.97	13.34	60.07	373.40	-520.07	485.72	462.75	22.97	21.148		
3,700.00	3,392.46	3,441.87	3,117.78	14.78	15.09	59.77	405.13	-604.36	514.79	488.49	26.30	19.574		
3,800.00	3,408.60	3,544.75	3,139.66	16.76	17.09	60.06	430.14	-701.59	534.37	504.23	30.13	17.734		
3,900.00	3,408.93	3,653.40	3,146.61	18.83	19.25	60.96	445.63	-808.73	544.26	510.06	34.20	15.916		
4,000.00	3,406.31	3,772.58	3,143.54	20.97	21.63	61.36	453.10	-927.63	550.00	511.70	38.30	14.360		
4,100.00	3,403.68	3,892.89	3,140.39	23.14	24.09	61.50	455.60	-1,047.86	552.09	509.66	42.43	13.012		
4,200.00	3,401.06	3,994.24	3,137.73	25.34	26.18	61.50	455.30	-1,149.18	552.09	505.79	46.30	11.923		
4,300.00	3,398.43	4,094.24	3,135.11	27.56	28.28	61.50	455.00	-1,249.14	552.09	501.88	50.21	10.996		
4,400.00	3,395.81	4,194.24	3,132.49	29.80	30.42	61.50	454.69	-1,349.11	552.08	497.93	54.16	10.194		
4,500.00	3,393.19	4,294.24	3,129.86	32.06	32.58	61.50	454.39	-1,449.08	552.08	493.94	58.13	9.497		
4,600.00	3,390.56	4,394.24	3,127.24	34.32	34.76	61.50	454.09	-1,549.04	552.07	489.93	62.14	8.885		
4,700.00	3,387.94	4,494.24	3,124.62	36.59	36.96	61.50	453.78	-1,649.01	552.07	485.91	66.16	8.344		
4,800.00	3,385.32	4,594.24	3,122.00	38.87	39.18	61.50	453.48	-1,748.97	552.06	481.86	70.20	7.864		
4,900.00	3,382.69	4,694.24	3,119.38	41.16	41.41	61.50	453.17	-1,848.94	552.06	477.80	74.26	7.434		
5,000.00	3,380.07	4,794.24	3,116.76	43.45	43.64	61.50	452.87	-1,948.90	552.05	473.72	78.33	7.048		
5,100.00	3,377.44	4,894.24	3,114.13	45.74	45.89	61.50	452.57	-2,048.87	552.05	469.64	82.41	6.699		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft	
The Horned Frog - The Horned Frog 31H - Wellbore #1 - Design #1												Offset Well Error:	0.00 usft	
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance					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		
5,200.00	3,374.82	4,994.24	3,111.51	48.04	48.15	61.50	452.26	-2,148.83	552.04	465.55	86.49	6.382		
5,300.00	3,372.20	5,094.24	3,108.89	50.34	50.41	61.50	451.96	-2,248.80	552.04	461.45	90.59	6.094		
5,400.00	3,369.57	5,194.24	3,106.27	52.65	52.68	61.50	451.65	-2,348.76	552.03	457.34	94.69	5.830		
5,500.00	3,366.95	5,294.24	3,103.65	54.95	54.95	61.50	451.35	-2,448.73	552.03	453.23	98.80	5.587		
5,600.00	3,364.33	5,394.24	3,101.03	57.26	57.23	61.50	451.05	-2,548.69	552.02	449.11	102.92	5.364		
5,700.00	3,361.70	5,494.24	3,098.41	59.57	59.52	61.50	450.74	-2,648.66	552.02	444.98	107.03	5.157		
5,800.00	3,359.08	5,594.24	3,095.78	61.89	61.80	61.50	450.44	-2,748.62	552.01	440.86	111.16	4.966		
5,900.00	3,356.45	5,694.24	3,093.16	64.20	64.09	61.50	450.14	-2,848.59	552.01	436.73	115.28	4.788		
6,000.00	3,353.83	5,794.24	3,090.54	66.52	66.39	61.50	449.83	-2,948.55	552.00	432.59	119.41	4.623		
6,100.00	3,351.21	5,894.24	3,087.92	68.83	68.68	61.50	449.53	-3,048.52	552.00	428.45	123.54	4.468		
6,200.00	3,348.58	5,994.24	3,085.30	71.15	70.98	61.50	449.22	-3,148.48	551.99	424.31	127.68	4.323		
6,300.00	3,345.96	6,094.24	3,082.68	73.47	73.28	61.50	448.92	-3,248.45	551.99	420.17	131.82	4.188		
6,400.00	3,343.34	6,194.24	3,080.05	75.79	75.58	61.50	448.62	-3,348.41	551.98	416.03	135.96	4.060		
6,500.00	3,340.71	6,294.24	3,077.43	78.11	77.89	61.50	448.31	-3,448.38	551.98	411.88	140.10	3.940		
6,600.00	3,338.09	6,394.24	3,074.81	80.43	80.19	61.50	448.01	-3,548.34	551.97	407.73	144.24	3.827		
6,700.00	3,335.46	6,494.24	3,072.19	82.75	82.50	61.50	447.70	-3,648.31	551.97	403.58	148.39	3.720		
6,800.00	3,332.84	6,594.24	3,069.57	85.08	84.81	61.50	447.40	-3,748.27	551.96	399.43	152.53	3.619		
6,900.00	3,330.22	6,694.24	3,066.95	87.40	87.12	61.50	447.10	-3,848.24	551.96	395.28	156.68	3.523		
7,000.00	3,327.59	6,794.24	3,064.32	89.72	89.43	61.50	446.79	-3,948.20	551.95	391.12	160.83	3.432		
7,100.00	3,324.97	6,894.24	3,061.70	92.05	91.74	61.50	446.49	-4,048.17	551.95	386.97	164.98	3.346		
7,200.00	3,322.35	6,994.24	3,059.08	94.37	94.05	61.50	446.19	-4,148.13	551.94	382.81	169.13	3.263		
7,300.00	3,319.72	7,094.24	3,056.46	96.70	96.37	61.50	445.88	-4,248.10	551.94	378.66	173.28	3.185		
7,400.00	3,317.10	7,194.24	3,053.84	99.02	98.68	61.50	445.58	-4,348.06	551.94	374.50	177.44	3.111		
7,500.00	3,314.47	7,294.24	3,051.22	101.35	101.00	61.50	445.27	-4,448.03	551.93	370.34	181.59	3.039		
7,600.00	3,311.85	7,394.24	3,048.60	103.67	103.32	61.50	444.97	-4,548.00	551.93	366.18	185.75	2.971		
7,700.00	3,309.23	7,494.24	3,045.97	106.00	105.63	61.50	444.67	-4,647.96	551.92	362.02	189.90	2.906		
7,800.00	3,306.60	7,594.24	3,043.35	108.33	107.95	61.50	444.36	-4,747.93	551.92	357.85	194.06	2.844		
7,900.00	3,303.98	7,694.24	3,040.73	110.65	110.27	61.50	444.06	-4,847.89	551.91	353.69	198.22	2.784		
8,000.00	3,301.35	7,794.24	3,038.11	112.98	112.59	61.50	443.75	-4,947.86	551.91	349.53	202.38	2.727		
8,100.00	3,298.73	7,894.24	3,035.49	115.31	114.91	61.50	443.45	-5,047.82	551.90	345.37	206.54	2.672		
8,200.00	3,296.11	7,994.24	3,032.87	117.63	117.23	61.50	443.15	-5,147.79	551.90	341.20	210.70	2.619		
8,300.00	3,293.48	8,094.24	3,030.24	119.96	119.55	61.50	442.84	-5,247.75	551.89	337.04	214.86	2.569		
8,400.00	3,290.86	8,194.24	3,027.62	122.29	121.87	61.50	442.54	-5,347.72	551.89	332.87	219.02	2.520		
8,500.00	3,288.24	8,294.24	3,025.00	124.62	124.19	61.50	442.24	-5,447.68	551.88	328.70	223.18	2.473		
8,600.00	3,285.61	8,394.24	3,022.38	126.95	126.52	61.50	441.93	-5,547.65	551.88	324.54	227.34	2.428		
8,700.00	3,282.99	8,494.24	3,019.76	129.28	128.84	61.50	441.63	-5,647.61	551.87	320.37	231.50	2.384		
8,800.00	3,280.36	8,594.24	3,017.14	131.60	131.16	61.50	441.32	-5,747.58	551.87	316.20	235.66	2.342		
8,900.00	3,277.74	8,694.24	3,014.52	133.93	133.48	61.50	441.02	-5,847.54	551.86	312.04	239.83	2.301		
9,000.00	3,275.12	8,794.24	3,011.89	136.26	135.81	61.50	440.72	-5,947.51	551.86	307.87	243.99	2.262		
9,100.00	3,272.49	8,894.24	3,009.27	138.59	138.13	61.50	440.41	-6,047.47	551.85	303.70	248.15	2.224		
9,140.61	3,271.43	8,934.83	3,008.21	139.54	139.08	61.50	440.29	-6,088.05	551.85	302.01	249.84	2.209		
9,141.67	3,271.40	8,934.83	3,008.21	139.56	139.08	61.50	440.29	-6,088.05	551.85	301.98	249.87	2.209 SF		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	180.00	-25.11	0.00	25.11					
100.00	100.00	100.00	100.00	0.92	0.92	180.00	-25.11	0.00	25.11	23.26	1.85	13.582		
200.00	200.00	200.00	200.00	1.53	1.53	180.00	-25.11	0.00	25.11	22.05	3.05	8.224		
300.00	300.00	300.00	300.00	1.95	1.95	180.00	-25.11	0.00	25.11	21.20	3.91	6.424		
400.00	400.00	400.00	400.00	2.31	2.31	180.00	-25.11	0.00	25.11	20.49	4.61	5.442		
500.00	500.00	500.00	500.00	2.61	2.61	180.00	-25.11	0.00	25.11	19.88	5.23	4.801		
600.00	600.00	600.00	600.00	2.89	2.89	180.00	-25.11	0.00	25.11	19.32	5.78	4.340		
700.00	700.00	700.00	700.00	3.15	3.15	180.00	-25.11	0.00	25.11	18.81	6.29	3.988		
800.00	800.00	800.00	800.00	3.39	3.39	180.00	-25.11	0.00	25.11	18.33	6.77	3.708		
900.00	900.00	900.00	900.00	3.61	3.61	180.00	-25.11	0.00	25.11	17.89	7.22	3.477		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	180.00	-25.11	0.00	25.11	17.46	7.65	3.284		
1,100.00	1,100.00	1,100.00	1,100.00	4.03	4.03	180.00	-25.11	0.00	25.11	17.05	8.05	3.118		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	180.00	-25.11	0.00	25.11	16.66	8.44	2.974		
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	180.00	-25.11	0.00	25.11	16.29	8.82	2.847		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	180.00	-25.11	0.00	25.11	15.92	9.18	2.735		
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	180.00	-25.11	0.00	25.11	15.57	9.53	2.633		
1,600.00	1,600.00	1,600.00	1,600.00	4.94	4.94	180.00	-25.11	0.00	25.11	15.23	9.88	2.542		
1,700.00	1,700.00	1,700.00	1,700.00	5.10	5.10	180.00	-25.11	0.00	25.11	14.90	10.21	2.459		
1,800.00	1,800.00	1,800.00	1,800.00	5.27	5.27	180.00	-25.11	0.00	25.11	14.57	10.53	2.383		
1,900.00	1,900.00	1,900.00	1,900.00	5.43	5.43	180.00	-25.11	0.00	25.11	14.25	10.85	2.313		
2,000.00	2,000.00	2,000.00	2,000.00	5.58	5.58	180.00	-25.11	0.00	25.11	13.94	11.16	2.249		
2,100.00	2,100.00	2,100.00	2,100.00	5.74	5.74	180.00	-25.11	0.00	25.11	13.64	11.47	2.189		
2,200.00	2,200.00	2,200.00	2,200.00	5.88	5.88	180.00	-25.11	0.00	25.11	13.34	11.77	2.133		
2,300.00	2,300.00	2,300.00	2,300.00	6.03	6.03	180.00	-25.11	0.00	25.11	13.04	12.06	2.081		
2,310.00	2,310.00	2,310.00	2,310.00	6.05	6.04	180.00	-25.11	0.00	25.11	13.02	12.09	2.077	CC, ES, SF	
2,400.00	2,400.00	2,398.80	2,398.76	6.18	6.39	-177.11	-26.22	-1.32	26.28	13.78	12.51	2.102		
2,500.00	2,500.00	2,494.63	2,493.63	6.32	6.65	-161.91	-34.59	-11.30	36.94	24.19	12.75	2.897		
2,600.00	2,600.00	2,585.48	2,581.21	6.47	6.91	-149.33	-49.97	-29.64	61.06	48.16	12.90	4.733		
2,700.00	2,699.72	2,670.79	2,660.07	6.70	7.17	-50.58	-70.80	-54.45	94.15	81.24	12.91	7.295		
2,800.00	2,797.60	2,750.00	2,729.37	6.98	7.42	-49.66	-95.40	-83.77	129.71	116.91	12.80	10.130		
2,900.00	2,891.73	2,829.00	2,793.87	7.28	7.67	-50.54	-124.69	-118.67	167.08	154.19	12.88	12.969		
3,000.00	2,980.28	2,900.00	2,847.23	7.59	7.89	-51.66	-154.76	-154.51	206.22	193.29	12.93	15.948		
3,100.00	3,061.52	2,971.71	2,896.17	7.90	8.09	-53.01	-188.43	-194.64	247.02	233.69	13.33	18.529		
3,200.00	3,133.88	3,038.59	2,936.87	8.20	8.28	-54.05	-222.52	-235.26	289.37	275.40	13.97	20.721		
3,300.00	3,195.98	3,125.15	2,986.52	8.85	9.00	-56.94	-268.09	-289.58	329.90	314.39	15.51	21.265		
3,400.00	3,253.33	3,211.36	3,035.97	10.09	9.94	-62.12	-313.48	-343.67	370.25	352.76	17.49	21.171		
3,500.00	3,310.65	3,301.65	3,085.62	11.43	11.06	-65.69	-359.81	-403.10	412.56	392.79	19.77	20.868		
3,600.00	3,359.47	3,399.95	3,129.96	12.97	12.51	-64.81	-404.44	-478.46	451.42	428.80	22.62	19.960		
3,700.00	3,392.46	3,505.78	3,164.57	14.78	14.28	-64.28	-444.09	-570.10	482.89	456.80	26.08	18.514		
3,800.00	3,408.60	3,619.16	3,185.26	16.76	16.35	-64.12	-475.39	-676.90	505.59	475.54	30.05	16.826		
3,900.00	3,408.93	3,738.25	3,188.32	18.83	18.61	-64.52	-494.77	-794.18	518.90	484.70	34.20	15.171		
4,000.00	3,406.31	3,857.57	3,185.19	20.97	20.94	-65.03	-506.21	-912.90	527.32	488.95	38.37	13.744		
4,100.00	3,403.68	3,977.61	3,182.05	23.14	23.36	-65.31	-512.73	-1,032.72	531.98	489.40	42.58	12.495		
4,200.00	3,401.06	4,092.33	3,179.05	25.34	25.70	-65.37	-514.39	-1,147.38	532.97	486.27	46.70	11.413		
4,300.00	3,398.43	4,192.33	3,176.44	27.56	27.78	-65.38	-514.68	-1,247.35	532.96	482.24	50.72	10.507		
4,400.00	3,395.81	4,292.33	3,173.83	29.80	29.89	-65.38	-514.98	-1,347.32	532.95	478.16	54.79	9.728		
4,500.00	3,393.19	4,392.33	3,171.22	32.06	32.04	-65.38	-515.27	-1,447.28	532.94	474.06	58.88	9.051		
4,600.00	3,390.56	4,492.33	3,168.61	34.32	34.21	-65.38	-515.57	-1,547.25	532.93	469.93	63.00	8.459		
4,700.00	3,387.94	4,592.33	3,166.00	36.59	36.40	-65.38	-515.86	-1,647.21	532.92	465.77	67.15	7.937		
4,800.00	3,385.32	4,692.33	3,163.39	38.87	38.60	-65.38	-516.16	-1,747.18	532.91	461.60	71.31	7.474		
4,900.00	3,382.69	4,792.33	3,160.78	41.16	40.82	-65.38	-516.45	-1,847.14	532.90	457.42	75.48	7.060		
5,000.00	3,380.07	4,892.33	3,158.17	43.45	43.06	-65.38	-516.75	-1,947.11	532.89	453.22	79.67	6.689		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft	
The Horned Frog - The Horned Frog 32H - Wellbore #1 - Design #1												Offset Well Error:	0.00 usft	
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	3,377.44	4,992.33	3,155.56	45.74	45.30	-65.38	-517.04	-2,047.07	532.88	449.02	83.86	6.354		
5,200.00	3,374.82	5,092.33	3,152.95	48.04	47.55	-65.39	-517.34	-2,147.04	532.87	444.80	88.07	6.051		
5,300.00	3,372.20	5,192.33	3,150.34	50.34	49.81	-65.39	-517.63	-2,247.01	532.86	440.58	92.28	5.774		
5,400.00	3,369.57	5,292.33	3,147.73	52.65	52.07	-65.39	-517.92	-2,346.97	532.85	436.35	96.50	5.522		
5,500.00	3,366.95	5,392.33	3,145.12	54.95	54.34	-65.39	-518.22	-2,446.94	532.84	432.11	100.73	5.290		
5,600.00	3,364.33	5,492.33	3,142.51	57.26	56.62	-65.39	-518.51	-2,546.90	532.83	427.87	104.96	5.077		
5,700.00	3,361.70	5,592.33	3,139.90	59.57	58.90	-65.39	-518.81	-2,646.87	532.82	423.62	109.20	4.880		
5,800.00	3,359.08	5,692.33	3,137.29	61.89	61.18	-65.39	-519.10	-2,746.83	532.81	419.37	113.44	4.697		
5,900.00	3,356.45	5,792.33	3,134.67	64.20	63.47	-65.39	-519.40	-2,846.80	532.80	415.12	117.68	4.528		
6,000.00	3,353.83	5,892.33	3,132.06	66.52	65.76	-65.39	-519.69	-2,946.76	532.79	410.86	121.93	4.370		
6,100.00	3,351.21	5,992.33	3,129.45	68.83	68.06	-65.39	-519.99	-3,046.73	532.78	406.60	126.18	4.223		
6,200.00	3,348.58	6,092.33	3,126.84	71.15	70.35	-65.40	-520.28	-3,146.69	532.77	402.34	130.43	4.085		
6,300.00	3,345.96	6,192.33	3,124.23	73.47	72.65	-65.40	-520.58	-3,246.66	532.76	398.08	134.68	3.956		
6,400.00	3,343.34	6,292.33	3,121.62	75.79	74.95	-65.40	-520.87	-3,346.63	532.75	393.81	138.94	3.834		
6,500.00	3,340.71	6,392.33	3,119.01	78.11	77.25	-65.40	-521.17	-3,446.59	532.74	389.54	143.20	3.720		
6,600.00	3,338.09	6,492.33	3,116.40	80.43	79.56	-65.40	-521.46	-3,546.56	532.73	385.27	147.46	3.613		
6,700.00	3,335.46	6,592.33	3,113.79	82.75	81.86	-65.40	-521.75	-3,646.52	532.72	381.00	151.72	3.511		
6,800.00	3,332.84	6,692.33	3,111.18	85.08	84.17	-65.40	-522.05	-3,746.49	532.71	376.72	155.99	3.415		
6,900.00	3,330.22	6,792.33	3,108.57	87.40	86.48	-65.40	-522.34	-3,846.45	532.70	372.45	160.25	3.324		
7,000.00	3,327.59	6,892.33	3,105.96	89.72	88.79	-65.40	-522.64	-3,946.42	532.69	368.17	164.52	3.238		
7,100.00	3,324.97	6,992.33	3,103.35	92.05	91.10	-65.41	-522.93	-4,046.38	532.68	363.89	168.79	3.156		
7,200.00	3,322.35	7,092.33	3,100.74	94.37	93.42	-65.41	-523.23	-4,146.35	532.67	359.61	173.06	3.078		
7,300.00	3,319.72	7,192.33	3,098.13	96.70	95.73	-65.41	-523.52	-4,246.31	532.66	355.33	177.33	3.004		
7,400.00	3,317.10	7,292.33	3,095.52	99.02	98.04	-65.41	-523.82	-4,346.28	532.65	351.05	181.60	2.933		
7,500.00	3,314.47	7,392.33	3,092.91	101.35	100.36	-65.41	-524.11	-4,446.25	532.64	346.77	185.87	2.866		
7,600.00	3,311.85	7,492.33	3,090.29	103.67	102.67	-65.41	-524.41	-4,546.21	532.63	342.49	190.14	2.801		
7,700.00	3,309.23	7,592.33	3,087.68	106.00	104.99	-65.41	-524.70	-4,646.18	532.62	338.20	194.42	2.740		
7,800.00	3,306.60	7,692.33	3,085.07	108.33	107.31	-65.41	-525.00	-4,746.14	532.61	333.92	198.69	2.681		
7,900.00	3,303.98	7,792.33	3,082.46	110.65	109.63	-65.41	-525.29	-4,846.11	532.60	329.63	202.97	2.624		
8,000.00	3,301.35	7,892.33	3,079.85	112.98	111.95	-65.42	-525.59	-4,946.07	532.59	325.35	207.24	2.570		
8,100.00	3,298.73	7,992.33	3,077.24	115.31	114.27	-65.42	-525.88	-5,046.04	532.58	321.06	211.52	2.518		
8,200.00	3,296.11	8,092.33	3,074.63	117.63	116.58	-65.42	-526.17	-5,146.00	532.57	316.77	215.80	2.468		
8,300.00	3,293.48	8,192.33	3,072.02	119.96	118.91	-65.42	-526.47	-5,245.97	532.56	312.49	220.08	2.420		
8,400.00	3,290.86	8,292.33	3,069.41	122.29	121.23	-65.42	-526.76	-5,345.94	532.55	308.20	224.35	2.374		
8,500.00	3,288.24	8,392.33	3,066.80	124.62	123.55	-65.42	-527.06	-5,445.90	532.54	303.91	228.63	2.329		
8,600.00	3,285.61	8,492.33	3,064.19	126.95	125.87	-65.42	-527.35	-5,545.87	532.53	299.62	232.91	2.286		
8,700.00	3,282.99	8,592.33	3,061.58	129.28	128.19	-65.42	-527.65	-5,645.83	532.52	295.33	237.19	2.245		
8,800.00	3,280.36	8,692.33	3,058.97	131.60	130.51	-65.42	-527.94	-5,745.80	532.51	291.04	241.47	2.205		
8,900.00	3,277.74	8,792.33	3,056.36	133.93	132.84	-65.43	-528.24	-5,845.76	532.50	286.75	245.75	2.167		
9,000.00	3,275.12	8,892.33	3,053.75	136.26	135.16	-65.43	-528.53	-5,945.73	532.49	282.46	250.04	2.130		
9,100.00	3,272.49	8,992.33	3,051.14	138.59	137.48	-65.43	-528.83	-6,045.69	532.48	278.16	254.32	2.094		
9,141.67	3,271.40	9,034.00	3,050.05	139.56	138.45	-65.43	-528.95	-6,087.35	532.48	276.38	256.10	2.079		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	180.00	-49.85	0.00	49.85					
100.00	100.00	100.00	100.00	0.92	0.92	180.00	-49.85	0.00	49.85	48.00	1.85	26.967		
200.00	200.00	200.00	200.00	1.53	1.53	180.00	-49.85	0.00	49.85	46.79	3.05	16.329		
300.00	300.00	300.00	300.00	1.95	1.95	180.00	-49.85	0.00	49.85	45.94	3.91	12.755		
400.00	400.00	400.00	400.00	2.31	2.31	180.00	-49.85	0.00	49.85	45.23	4.61	10.805		
500.00	500.00	500.00	500.00	2.61	2.61	180.00	-49.85	0.00	49.85	44.62	5.23	9.533		
600.00	600.00	600.00	600.00	2.89	2.89	180.00	-49.85	0.00	49.85	44.06	5.78	8.618		
700.00	700.00	700.00	700.00	3.15	3.15	180.00	-49.85	0.00	49.85	43.55	6.29	7.919		
800.00	800.00	800.00	800.00	3.39	3.39	180.00	-49.85	0.00	49.85	43.08	6.77	7.362		
900.00	900.00	900.00	900.00	3.61	3.61	180.00	-49.85	0.00	49.85	42.63	7.22	6.905		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	180.00	-49.85	0.00	49.85	42.20	7.65	6.520		
1,100.00	1,100.00	1,100.00	1,100.00	4.03	4.03	180.00	-49.85	0.00	49.85	41.80	8.05	6.191		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	180.00	-49.85	0.00	49.85	41.40	8.44	5.905		
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	180.00	-49.85	0.00	49.85	41.03	8.82	5.653		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	180.00	-49.85	0.00	49.85	40.67	9.18	5.429		
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	180.00	-49.85	0.00	49.85	40.31	9.53	5.229		
1,600.00	1,600.00	1,600.00	1,600.00	4.94	4.94	180.00	-49.85	0.00	49.85	39.97	9.88	5.047		
1,700.00	1,700.00	1,700.00	1,700.00	5.10	5.10	180.00	-49.85	0.00	49.85	39.64	10.21	4.882		
1,800.00	1,800.00	1,800.00	1,800.00	5.27	5.27	180.00	-49.85	0.00	49.85	39.31	10.53	4.732		
1,900.00	1,900.00	1,900.00	1,900.00	5.43	5.43	180.00	-49.85	0.00	49.85	38.99	10.85	4.593		
2,000.00	2,000.00	2,000.00	2,000.00	5.58	5.58	180.00	-49.85	0.00	49.85	38.68	11.16	4.465		
2,100.00	2,100.00	2,100.00	2,100.00	5.74	5.74	180.00	-49.85	0.00	49.85	38.38	11.47	4.346		
2,200.00	2,200.00	2,200.00	2,200.00	5.88	5.88	180.00	-49.85	0.00	49.85	38.08	11.77	4.235		
2,300.00	2,300.00	2,300.00	2,300.00	6.03	6.03	180.00	-49.85	0.00	49.85	37.78	12.06	4.132		
2,400.00	2,400.00	2,400.00	2,400.00	6.18	6.18	180.00	-49.85	0.00	49.85	37.49	12.35	4.035		
2,500.00	2,500.00	2,500.00	2,500.00	6.32	6.32	180.00	-49.85	0.00	49.85	37.21	12.64	3.944		
2,600.00	2,600.00	2,600.00	2,600.00	6.47	6.46	180.00	-49.85	0.00	49.85	36.92	12.93	3.855 CC, ES		
2,700.00	2,699.72	2,693.70	2,693.44	6.70	6.69	-90.43	-55.28	-2.53	55.48	42.37	13.11	4.231		
2,800.00	2,797.60	2,784.81	2,782.80	6.98	6.92	-97.10	-71.11	-9.91	73.33	60.13	13.19	5.557		
2,900.00	2,891.73	2,871.23	2,864.86	7.28	7.16	-102.35	-95.50	-21.29	104.01	90.69	13.32	7.810		
3,000.00	2,980.28	2,950.00	2,936.35	7.59	7.39	-104.77	-125.40	-35.23	146.60	133.06	13.54	10.830		
3,100.00	3,061.52	3,024.80	3,000.50	7.90	7.62	-105.09	-160.21	-51.46	199.41	185.44	13.98	14.269		
3,200.00	3,133.88	3,091.04	3,053.69	8.20	7.82	-103.48	-195.95	-68.13	260.74	246.18	14.56	17.911		
3,300.00	3,195.98	3,150.00	3,097.79	8.85	7.99	-100.89	-231.39	-84.65	328.90	313.61	15.29	21.505		
3,400.00	3,253.33	3,206.05	3,136.61	10.09	8.15	-103.83	-268.03	-101.73	401.35	385.19	16.16	24.835		
3,500.00	3,310.65	3,259.42	3,170.52	11.43	8.29	-104.46	-305.36	-119.14	476.19	459.14	17.05	27.937		
3,600.00	3,359.47	3,312.83	3,201.63	12.97	8.40	-94.55	-344.70	-137.49	554.48	536.34	18.14	30.573		
3,700.00	3,392.46	3,366.12	3,232.19	14.78	8.56	-84.78	-384.26	-155.94	635.21	615.82	19.39	32.758		
3,800.00	3,408.60	3,410.52	3,257.66	16.76	8.93	-74.81	-417.23	-171.31	717.14	696.49	20.65	34.736		
3,900.00	3,408.93	3,445.66	3,277.82	18.83	9.23	-70.35	-443.31	-183.47	799.63	777.90	21.73	36.802		
4,000.00	3,406.31	4,136.90	3,461.92	20.97	18.93	-93.41	-838.51	-671.76	859.03	821.38	37.65	22.814		
4,100.00	3,403.68	4,273.82	3,458.30	23.14	21.36	-93.23	-880.80	-801.92	889.59	847.35	42.24	21.060		
4,200.00	3,401.06	4,414.72	3,454.57	25.34	23.97	-93.08	-917.77	-937.81	915.51	868.49	47.02	19.469		
4,300.00	3,398.43	4,559.06	3,450.73	27.56	26.73	-92.97	-948.67	-1,078.74	936.60	884.63	51.97	18.023		
4,400.00	3,395.81	4,706.21	3,446.81	29.80	29.62	-92.89	-972.82	-1,223.82	952.70	895.73	56.97	16.723		
4,500.00	3,393.19	4,855.46	3,442.86	32.06	32.60	-92.84	-989.68	-1,372.05	963.68	901.69	61.99	15.545		
4,600.00	3,390.56	5,006.03	3,438.89	34.32	35.64	-92.81	-998.83	-1,522.27	969.46	902.50	66.96	14.478		
4,700.00	3,387.94	5,136.60	3,435.47	36.59	38.28	-92.81	-1,000.65	-1,652.77	970.40	898.72	71.68	13.537		
4,800.00	3,385.32	5,236.60	3,432.86	38.87	40.33	-92.81	-1,000.95	-1,752.74	970.40	894.22	76.18	12.738		
4,900.00	3,382.69	5,336.60	3,430.25	41.16	42.41	-92.81	-1,001.25	-1,852.71	970.41	889.70	80.70	12.025		
5,000.00	3,380.07	5,436.60	3,427.64	43.45	44.51	-92.81	-1,001.55	-1,952.67	970.41	885.17	85.23	11.385		
5,100.00	3,377.44	5,536.60	3,425.02	45.74	46.64	-92.81	-1,001.85	-2,052.64	970.41	880.62	89.78	10.809		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Horned Frog - The Horned Frog 3H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	3,374.82	5,636.60	3,422.41	48.04	48.79	-92.81	-1,002.15	-2,152.60	970.41	876.07	94.34	10.286		
5,300.00	3,372.20	5,736.60	3,419.80	50.34	50.95	-92.81	-1,002.44	-2,252.57	970.41	871.50	98.91	9.811		
5,400.00	3,369.57	5,836.60	3,417.19	52.65	53.13	-92.81	-1,002.74	-2,352.53	970.41	866.93	103.48	9.378		
5,500.00	3,366.95	5,936.60	3,414.58	54.95	55.32	-92.81	-1,003.04	-2,452.50	970.41	862.34	108.07	8.980		
5,600.00	3,364.33	6,036.60	3,411.97	57.26	57.52	-92.81	-1,003.34	-2,552.46	970.41	857.75	112.66	8.614		
5,700.00	3,361.70	6,136.60	3,409.35	59.57	59.73	-92.82	-1,003.64	-2,652.43	970.41	853.16	117.25	8.276		
5,800.00	3,359.08	6,236.60	3,406.74	61.89	61.95	-92.82	-1,003.94	-2,752.39	970.41	848.56	121.85	7.964		
5,900.00	3,356.45	6,336.60	3,404.13	64.20	64.18	-92.82	-1,004.24	-2,852.36	970.41	843.95	126.46	7.674		
6,000.00	3,353.83	6,436.60	3,401.52	66.52	66.42	-92.82	-1,004.54	-2,952.33	970.41	839.34	131.07	7.404		
6,100.00	3,351.21	6,536.60	3,398.91	68.83	68.66	-92.82	-1,004.84	-3,052.29	970.41	834.73	135.68	7.152		
6,200.00	3,348.58	6,636.60	3,396.30	71.15	70.91	-92.82	-1,005.14	-3,152.26	970.41	830.12	140.29	6.917		
6,300.00	3,345.96	6,736.60	3,393.68	73.47	73.16	-92.82	-1,005.44	-3,252.22	970.41	825.50	144.91	6.697		
6,400.00	3,343.34	6,836.60	3,391.07	75.79	75.42	-92.82	-1,005.74	-3,352.19	970.41	820.88	149.53	6.490		
6,500.00	3,340.71	6,936.60	3,388.46	78.11	77.68	-92.82	-1,006.04	-3,452.15	970.41	816.25	154.16	6.295		
6,600.00	3,338.09	7,036.60	3,385.85	80.43	79.95	-92.82	-1,006.34	-3,552.12	970.41	811.63	158.78	6.112		
6,700.00	3,335.46	7,136.60	3,383.24	82.75	82.22	-92.82	-1,006.64	-3,652.08	970.41	807.00	163.41	5.938		
6,800.00	3,332.84	7,236.60	3,380.63	85.08	84.50	-92.82	-1,006.94	-3,752.05	970.41	802.37	168.04	5.775		
6,900.00	3,330.22	7,336.60	3,378.01	87.40	86.78	-92.82	-1,007.24	-3,852.01	970.42	797.74	172.67	5.620		
7,000.00	3,327.59	7,436.60	3,375.40	89.72	89.06	-92.82	-1,007.54	-3,951.98	970.42	793.11	177.31	5.473		
7,100.00	3,324.97	7,536.60	3,372.79	92.05	91.34	-92.83	-1,007.83	-4,051.95	970.42	788.47	181.94	5.334		
7,200.00	3,322.35	7,636.60	3,370.18	94.37	93.63	-92.83	-1,008.13	-4,151.91	970.42	783.84	186.58	5.201		
7,300.00	3,319.72	7,736.60	3,367.57	96.70	95.92	-92.83	-1,008.43	-4,251.88	970.42	779.20	191.22	5.075		
7,400.00	3,317.10	7,836.60	3,364.96	99.02	98.21	-92.83	-1,008.73	-4,351.84	970.42	774.56	195.85	4.955		
7,500.00	3,314.47	7,936.60	3,362.34	101.35	100.50	-92.83	-1,009.03	-4,451.81	970.42	769.92	200.49	4.840		
7,600.00	3,311.85	8,036.60	3,359.73	103.67	102.79	-92.83	-1,009.33	-4,551.77	970.42	765.28	205.13	4.731		
7,700.00	3,309.23	8,136.60	3,357.12	106.00	105.09	-92.83	-1,009.63	-4,651.74	970.42	760.64	209.78	4.626		
7,800.00	3,306.60	8,236.60	3,354.51	108.33	107.39	-92.83	-1,009.93	-4,751.70	970.42	756.00	214.42	4.526		
7,900.00	3,303.98	8,336.60	3,351.90	110.65	109.69	-92.83	-1,010.23	-4,851.67	970.42	751.36	219.06	4.430		
8,000.00	3,301.35	8,436.60	3,349.29	112.98	111.99	-92.83	-1,010.53	-4,951.63	970.42	746.72	223.71	4.338		
8,100.00	3,298.73	8,536.60	3,346.67	115.31	114.29	-92.83	-1,010.83	-5,051.60	970.42	742.07	228.35	4.250		
8,200.00	3,296.11	8,636.60	3,344.06	117.63	116.59	-92.83	-1,011.13	-5,151.57	970.42	737.43	233.00	4.165		
8,300.00	3,293.48	8,736.60	3,341.45	119.96	118.90	-92.83	-1,011.43	-5,251.53	970.42	732.78	237.64	4.084		
8,400.00	3,290.86	8,836.60	3,338.84	122.29	121.20	-92.83	-1,011.73	-5,351.50	970.42	728.14	242.29	4.005		
8,500.00	3,288.24	8,936.60	3,336.23	124.62	123.51	-92.84	-1,012.03	-5,451.46	970.42	723.49	246.94	3.930		
8,600.00	3,285.61	9,036.60	3,333.62	126.95	125.82	-92.84	-1,012.33	-5,551.43	970.42	718.84	251.58	3.857		
8,700.00	3,282.99	9,136.60	3,331.00	129.28	128.13	-92.84	-1,012.63	-5,651.39	970.42	714.19	256.23	3.787		
8,800.00	3,280.36	9,236.60	3,328.39	131.60	130.44	-92.84	-1,012.93	-5,751.36	970.43	709.55	260.88	3.720		
8,900.00	3,277.74	9,336.60	3,325.78	133.93	132.75	-92.84	-1,013.22	-5,851.32	970.43	704.90	265.53	3.655		
9,000.00	3,275.12	9,436.60	3,323.17	136.26	135.06	-92.84	-1,013.52	-5,951.29	970.43	700.25	270.18	3.592		
9,100.00	3,272.49	9,536.60	3,320.56	138.59	137.37	-92.84	-1,013.82	-6,051.25	970.43	695.60	274.83	3.531		
9,141.67	3,271.40	9,578.27	3,319.47	139.56	138.33	-92.84	-1,013.95	-6,092.91	970.43	693.66	276.76	3.506 SF		

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

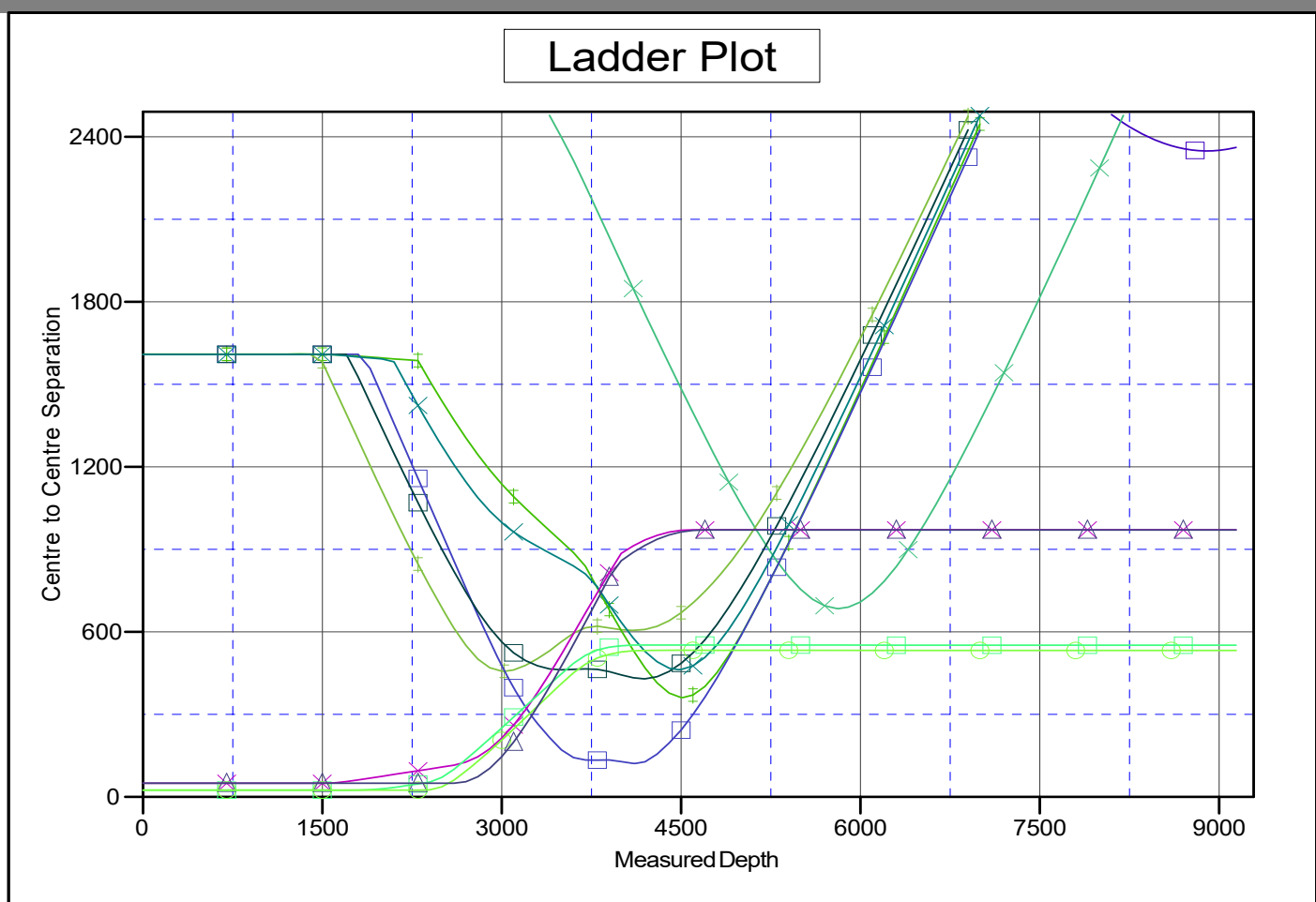


Stryker Directional
Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3311.00usft (20' Rig) Coordinates are relative to: The Horned Frog 2H
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Central Meridian is -104.333334 Grid Convergence at Surface is: 0.00°



LEGEND

- | | | |
|--|---|--|
| McCall #1, Wellbore #1, Surveys V0 | The Aggie 2H, Wellbore #1, Design #1 V0 | The Horned Frog 31H, Wellbore #1, Design # |
| Terry Evans #1, Wellbore #1, Surveys V0 | The Aggie 32H, Wellbore #1, Design #1 V0 | The Horned Frog 32H, Wellbore #1, Design # |
| The Aggie 31H, Wellbore #1, Design #1 V0 | The Aggie 1H, Wellbore #1, Design #1 V0 | The Horned Frog 3H, Wellbore #1, Design #1 |
| The Aggie 3H, Wellbore #1, Design #1 V0 | The Horned Frog 1H, Wellbore #1, Design #1 V0 | |

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



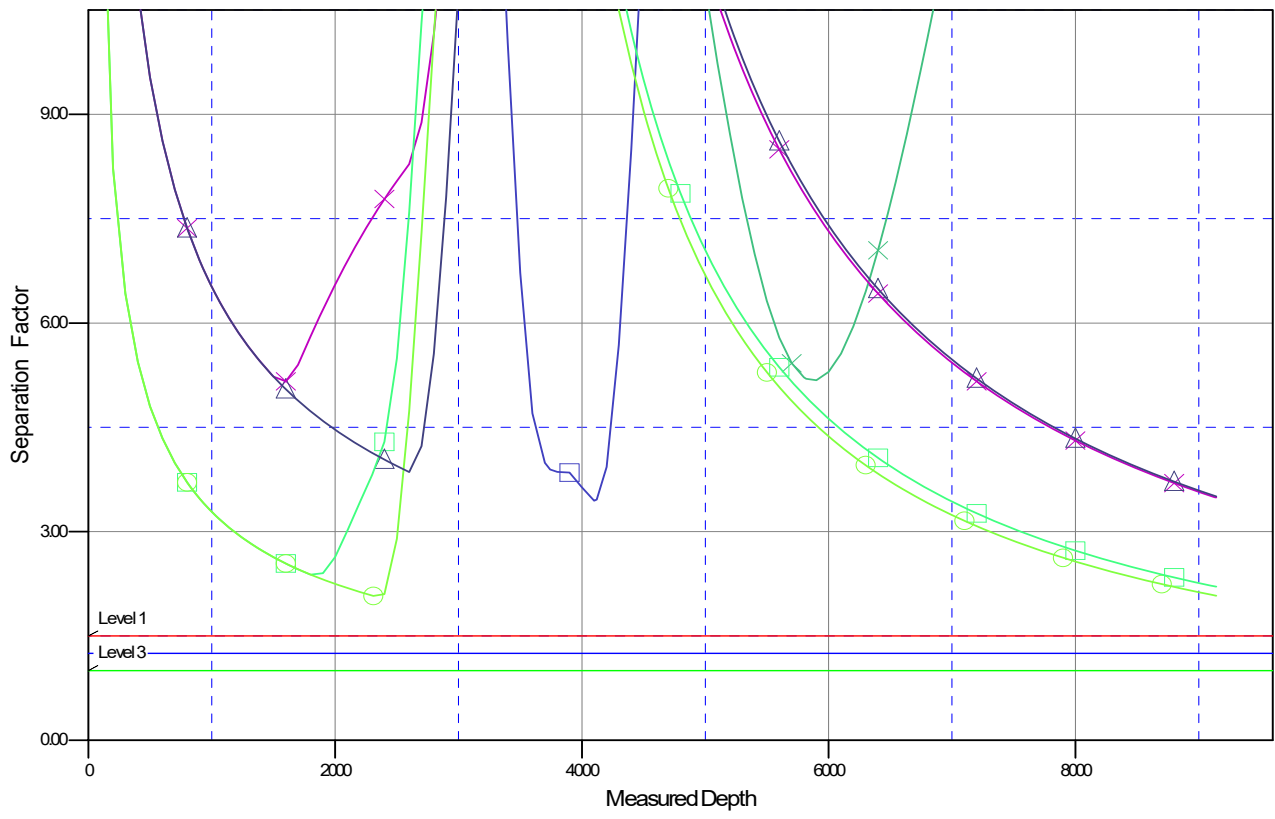
Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Horned Frog 2H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Horned Frog	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3311.00usft (20' Rig) Coordinates are relative to: The Horned Frog 2H
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Central Meridian is -104.333334 Grid Convergence at Surface is: 0.00°

Separation Factor Plot



LEGEND

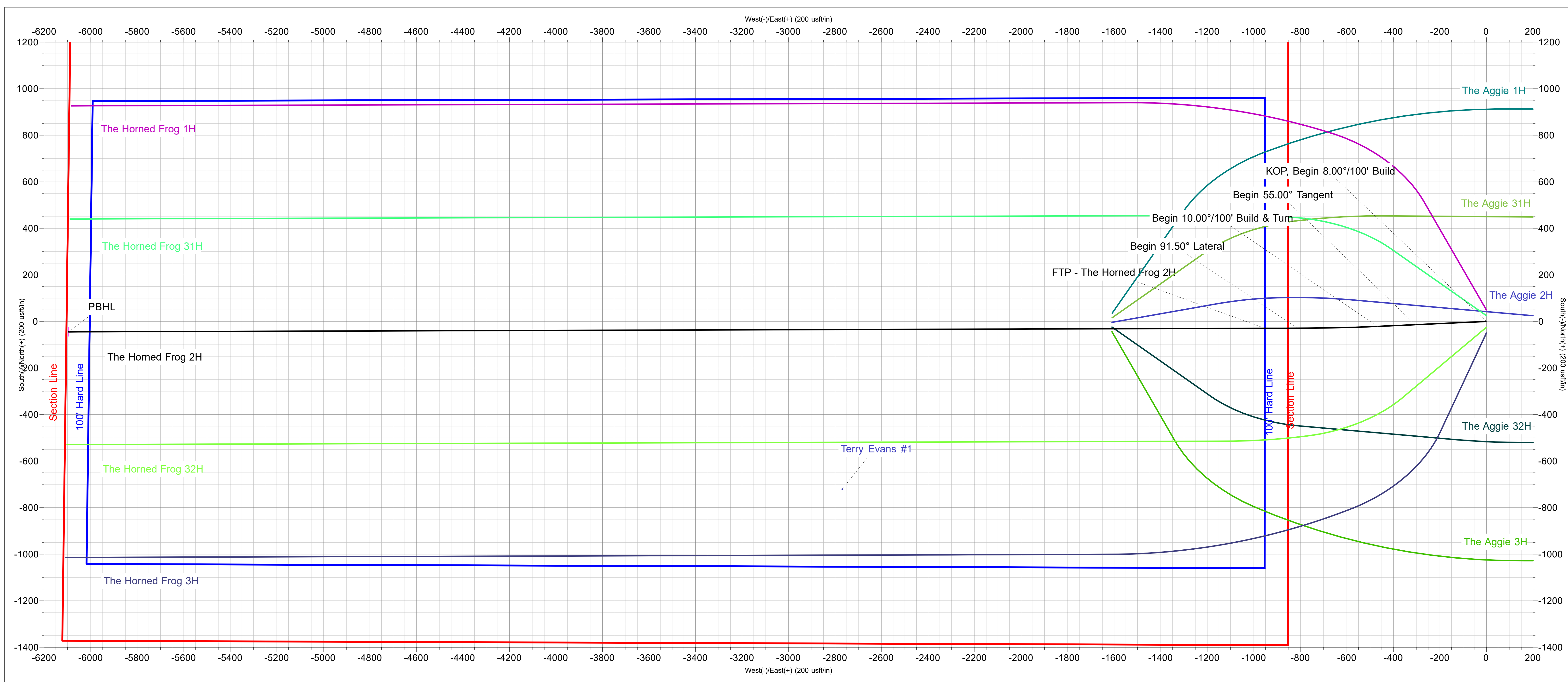
- | | | |
|--|---|--|
| McCall #1, Wellbore #1, Surveys V0 | The Aggie 2H, Wellbore #1, Design #1 V0 | The Horned Frog 31H, Wellbore #1, Design # |
| Terry Evans #1, Wellbore #1, Surveys V0 | The Aggie 32H, Wellbore #1, Design #1 V0 | The Horned Frog 32H, Wellbore #1, Design # |
| The Aggie 31H, Wellbore #1, Design #1 V0 | The Aggie 1H, Wellbore #1, Design #1 V0 | The Horned Frog 3H, Wellbore #1, Design #1 |
| The Aggie 3H, Wellbore #1, Design #1 V0 | The Horned Frog 1H, Wellbore #1, Design #1 V0 | |



Company: Riley Permian
Site: The Horned Frog
Well: The Horned Frog 2H
Project: Eddy County, New Mexico (NAD83)
Rig: 20' Rig

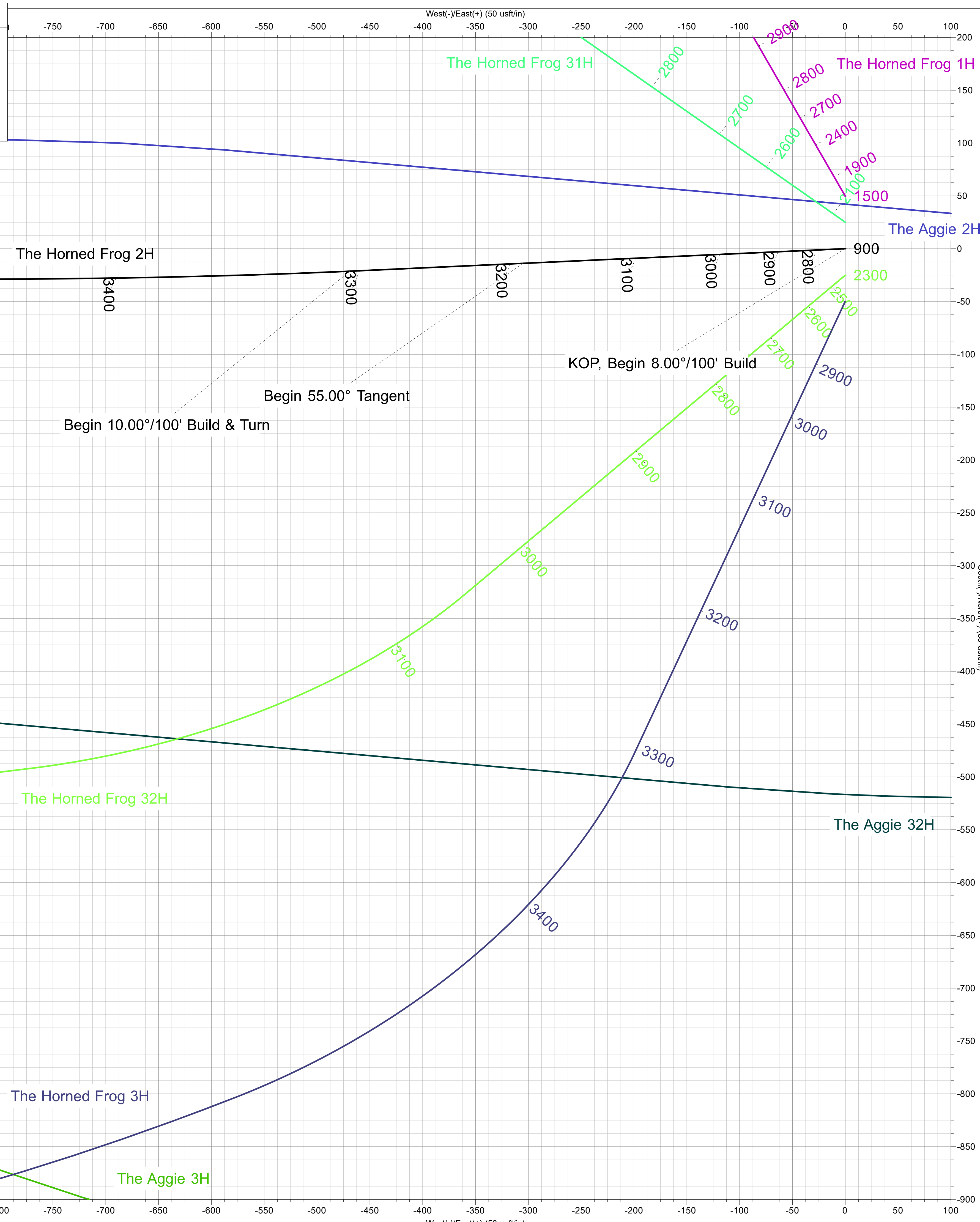


To convert a Magnetic Direction to a Grid Direction, Add 6.58°



ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
2605.00	0.00	0.00	2605.00	0.00	0.00	0.00	0.00	KOP, Begin 8.00°/100' Build
3292.50	55.00	267.40	3191.67	-13.85	-305.09	305.18	305.40	Begin 55.00° Tangent
3492.50	55.00	267.40	3306.39	-21.29	-468.75	468.89	469.23	Begin 10.00°/100' Build & Turn
3858.24	91.50	269.83	3410.03	-28.89	-812.97	813.16	813.56	Begin 91.50° Lateral
9141.67	91.50	269.83	3271.40	-44.71	-6094.56	6094.72	6095.17	PBHL



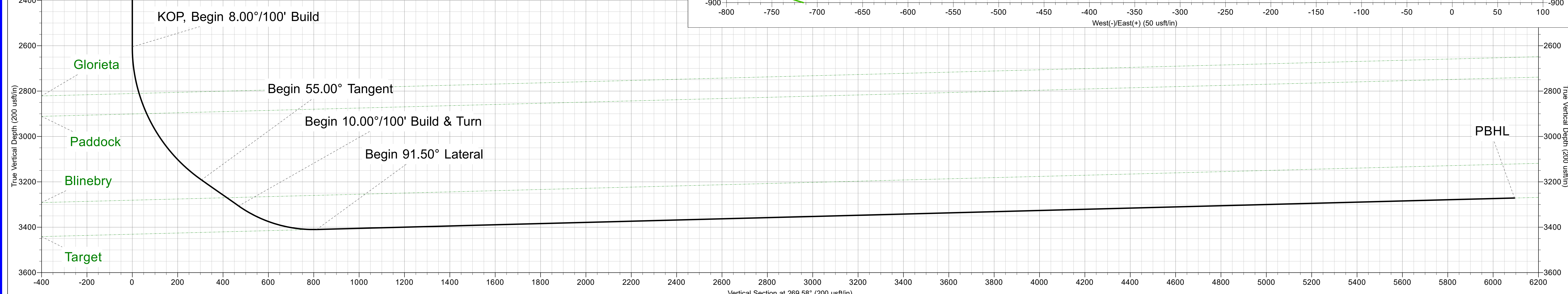
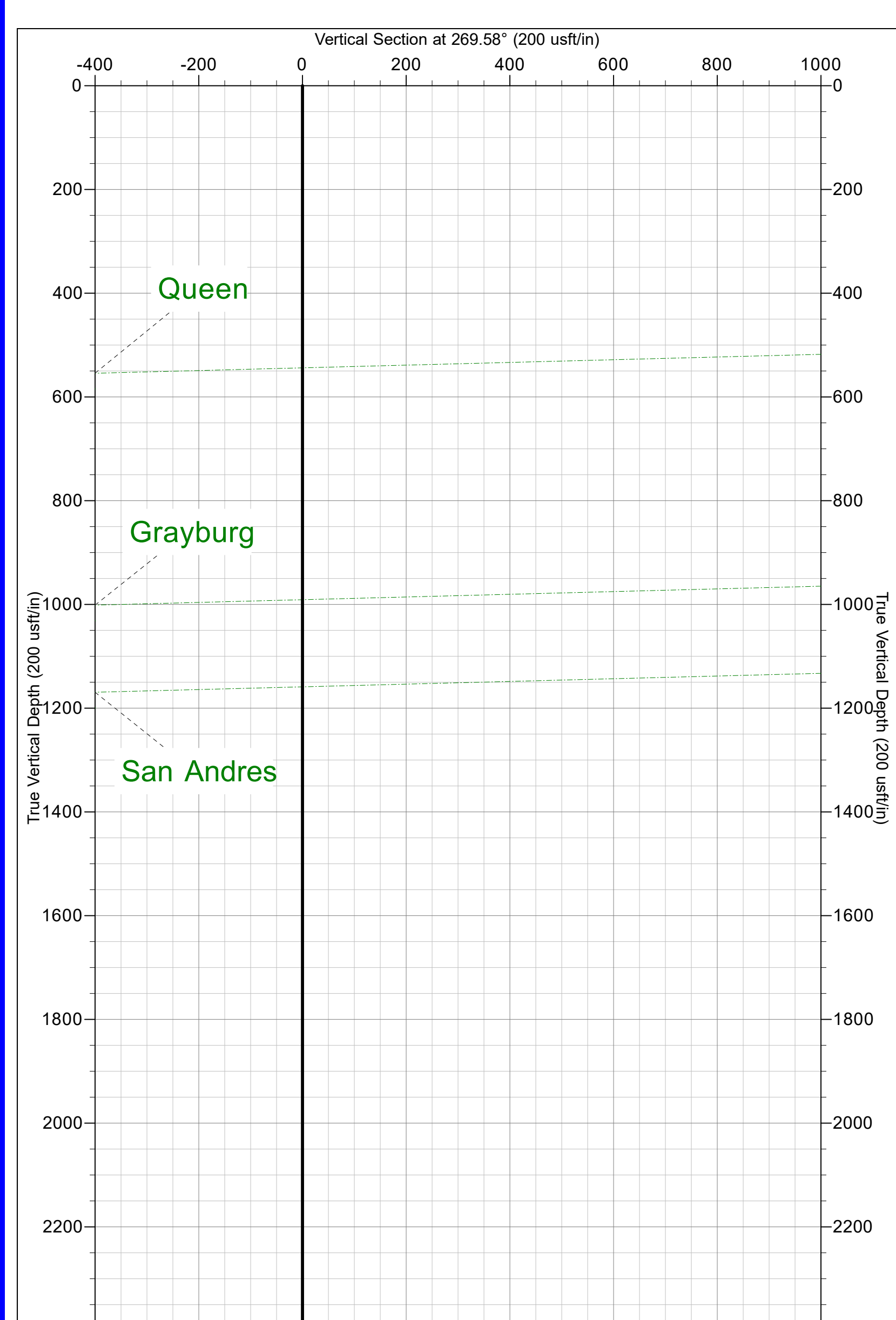
Geographic Information

T G M
Azimuths to Grid North
True North: 0.00°
Magnetic North: 6.58°

Magnetic Field
Strength: 47241.1nT
Dip Angle: 60.24°
Date: 2/19/2026
Model: ROUNDLAB_HRCM

US State Plane 1983
New Mexico Eastern Zone

Created By: JAB
Date: 15:27, February 19 2026
Plan: Design #1





Riley Permian

Eddy County, New Mexico (NAD83)

The Horned Frog

The Horned Frog 2H

Wellbore #1

Plan: Design #1

Standard Planning Report

19 February, 2026





Stryker Directional
Planning Report



Database:	EDM 5000 Server	Local Co-ordinate Reference:	Well The Horned Frog 2H
Company:	Riley Permian	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site:	The Horned Frog	North Reference:	Grid
Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Eddy County, New Mexico (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	The Horned Frog				
Site Position:		Northing:	631,931.33 usft	Latitude:	32.737217
From:	Lat/Long	Easting:	544,178.43 usft	Longitude:	-104.324094
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.00 °

Well	The Horned Frog 2H					
Well Position	+N/-S	-49.85 usft	Northing:	631,881.49 usft	Latitude:	32.737080
	+E/-W	0.00 usft	Easting:	544,178.44 usft	Longitude:	-104.324094
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,291.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	OUNDLAB_HRGM	2/19/2026	6.58	60.24	47,241.06695739

Design	Design #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	269.58

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,605.00	0.00	0.00	2,605.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,292.50	55.00	267.40	3,191.67	-13.85	-305.09	8.00	8.00	0.00	267.40	
3,492.50	55.00	267.40	3,306.39	-21.29	-468.75	0.00	0.00	0.00	0.00	
3,858.24	91.50	269.83	3,410.03	-28.89	-812.97	10.00	9.98	0.66	4.08	
9,141.67	91.50	269.83	3,271.40	-44.71	-6,094.56	0.00	0.00	0.00	0.00	PBHL - The Horned



Stryker Directional
Planning Report



Database:	EDM 5000 Server	Local Co-ordinate Reference:	Well The Horned Frog 2H
Company:	Riley Permian	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site:	The Horned Frog	North Reference:	Grid
Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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
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
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,605.00	0.00	0.00	2,605.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 8.00°/100' Build									
2,650.00	3.60	267.40	2,649.97	-0.06	-1.41	1.41	8.00	8.00	0.00
2,700.00	7.60	267.40	2,699.72	-0.29	-6.28	6.29	8.00	8.00	0.00
2,750.00	11.60	267.40	2,749.01	-0.66	-14.61	14.62	8.00	8.00	0.00
2,800.00	15.60	267.40	2,797.60	-1.20	-26.36	26.36	8.00	8.00	0.00
2,850.00	19.60	267.40	2,845.25	-1.88	-41.46	41.47	8.00	8.00	0.00
2,900.00	23.60	267.40	2,891.73	-2.72	-59.84	59.86	8.00	8.00	0.00
2,950.00	27.60	267.40	2,936.81	-3.70	-81.42	81.44	8.00	8.00	0.00
3,000.00	31.60	267.40	2,980.28	-4.82	-106.08	106.12	8.00	8.00	0.00
3,050.00	35.60	267.40	3,021.91	-6.07	-133.72	133.76	8.00	8.00	0.00
3,100.00	39.60	267.40	3,061.52	-7.46	-164.19	164.24	8.00	8.00	0.00
3,150.00	43.60	267.40	3,098.90	-8.96	-197.34	197.40	8.00	8.00	0.00
3,200.00	47.60	267.40	3,133.88	-10.58	-233.02	233.09	8.00	8.00	0.00
3,250.00	51.60	267.40	3,166.28	-12.31	-271.05	271.14	8.00	8.00	0.00
3,292.50	55.00	267.40	3,191.67	-13.85	-305.09	305.18	8.00	8.00	0.00
Begin 55.00° Tangent									
3,300.00	55.00	267.40	3,195.98	-14.13	-311.23	311.32	0.00	0.00	0.00
3,400.00	55.00	267.40	3,253.33	-17.85	-393.06	393.18	0.00	0.00	0.00
3,492.50	55.00	267.40	3,306.39	-21.29	-468.75	468.89	0.00	0.00	0.00
Begin 10.00°/100' Build & Turn									
3,500.00	55.75	267.46	3,310.65	-21.56	-474.92	475.06	10.00	9.97	0.86
3,550.00	60.74	267.87	3,336.96	-23.29	-517.38	517.54	10.00	9.98	0.81
3,600.00	65.73	268.23	3,359.47	-24.80	-561.98	562.15	10.00	9.98	0.73
3,650.00	70.72	268.57	3,378.02	-26.10	-608.38	608.56	10.00	9.98	0.68
3,700.00	75.71	268.89	3,392.46	-27.15	-656.22	656.40	10.00	9.98	0.64
3,750.00	80.70	269.19	3,402.68	-27.97	-705.14	705.33	10.00	9.98	0.61



Stryker Directional Planning Report



Database:	EDM 5000 Server	Local Co-ordinate Reference:	Well The Horned Frog 2H
Company:	Riley Permian	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site:	The Horned Frog	North Reference:	Grid
Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)	
3,800.00	85.69	269.49	3,408.60	-28.54	-754.77	754.96	10.00	9.98	0.59	
3,850.00	90.68	269.78	3,410.18	-28.86	-804.73	804.92	10.00	9.98	0.58	
3,858.24	91.50	269.83	3,410.03	-28.89	-812.97	813.16	10.00	9.98	0.58	
Begin 91.50° Lateral										
3,900.00	91.50	269.83	3,408.93	-29.01	-854.72	854.90	0.00	0.00	0.00	
4,000.00	91.50	269.83	3,406.31	-29.31	-954.68	954.87	0.00	0.00	0.00	
4,100.00	91.50	269.83	3,403.68	-29.61	-1,054.65	1,054.83	0.00	0.00	0.00	
4,200.00	91.50	269.83	3,401.06	-29.91	-1,154.61	1,154.80	0.00	0.00	0.00	
4,300.00	91.50	269.83	3,398.43	-30.21	-1,254.58	1,254.76	0.00	0.00	0.00	
4,400.00	91.50	269.83	3,395.81	-30.51	-1,354.54	1,354.73	0.00	0.00	0.00	
4,500.00	91.50	269.83	3,393.19	-30.81	-1,454.51	1,454.69	0.00	0.00	0.00	
4,600.00	91.50	269.83	3,390.56	-31.11	-1,554.47	1,554.66	0.00	0.00	0.00	
4,700.00	91.50	269.83	3,387.94	-31.41	-1,654.44	1,654.62	0.00	0.00	0.00	
4,800.00	91.50	269.83	3,385.32	-31.71	-1,754.40	1,754.59	0.00	0.00	0.00	
4,900.00	91.50	269.83	3,382.69	-32.01	-1,854.37	1,854.55	0.00	0.00	0.00	
5,000.00	91.50	269.83	3,380.07	-32.31	-1,954.33	1,954.52	0.00	0.00	0.00	
5,100.00	91.50	269.83	3,377.44	-32.61	-2,054.30	2,054.48	0.00	0.00	0.00	
5,200.00	91.50	269.83	3,374.82	-32.91	-2,154.26	2,154.45	0.00	0.00	0.00	
5,300.00	91.50	269.83	3,372.20	-33.21	-2,254.23	2,254.41	0.00	0.00	0.00	
5,400.00	91.50	269.83	3,369.57	-33.51	-2,354.19	2,354.37	0.00	0.00	0.00	
5,500.00	91.50	269.83	3,366.95	-33.81	-2,454.16	2,454.34	0.00	0.00	0.00	
5,600.00	91.50	269.83	3,364.33	-34.11	-2,554.12	2,554.30	0.00	0.00	0.00	
5,700.00	91.50	269.83	3,361.70	-34.41	-2,654.09	2,654.27	0.00	0.00	0.00	
5,800.00	91.50	269.83	3,359.08	-34.70	-2,754.05	2,754.23	0.00	0.00	0.00	
5,900.00	91.50	269.83	3,356.45	-35.00	-2,854.02	2,854.20	0.00	0.00	0.00	
6,000.00	91.50	269.83	3,353.83	-35.30	-2,953.98	2,954.16	0.00	0.00	0.00	
6,100.00	91.50	269.83	3,351.21	-35.60	-3,053.95	3,054.13	0.00	0.00	0.00	
6,200.00	91.50	269.83	3,348.58	-35.90	-3,153.91	3,154.09	0.00	0.00	0.00	
6,300.00	91.50	269.83	3,345.96	-36.20	-3,253.88	3,254.06	0.00	0.00	0.00	
6,400.00	91.50	269.83	3,343.34	-36.50	-3,353.84	3,354.02	0.00	0.00	0.00	
6,500.00	91.50	269.83	3,340.71	-36.80	-3,453.81	3,453.99	0.00	0.00	0.00	
6,600.00	91.50	269.83	3,338.09	-37.10	-3,553.77	3,553.95	0.00	0.00	0.00	
6,700.00	91.50	269.83	3,335.46	-37.40	-3,653.74	3,653.91	0.00	0.00	0.00	
6,800.00	91.50	269.83	3,332.84	-37.70	-3,753.70	3,753.88	0.00	0.00	0.00	
6,900.00	91.50	269.83	3,330.22	-38.00	-3,853.67	3,853.84	0.00	0.00	0.00	
7,000.00	91.50	269.83	3,327.59	-38.30	-3,953.63	3,953.81	0.00	0.00	0.00	
7,100.00	91.50	269.83	3,324.97	-38.60	-4,053.60	4,053.77	0.00	0.00	0.00	
7,200.00	91.50	269.83	3,322.35	-38.90	-4,153.56	4,153.74	0.00	0.00	0.00	
7,300.00	91.50	269.83	3,319.72	-39.20	-4,253.53	4,253.70	0.00	0.00	0.00	
7,400.00	91.50	269.83	3,317.10	-39.50	-4,353.49	4,353.67	0.00	0.00	0.00	
7,500.00	91.50	269.83	3,314.47	-39.80	-4,453.46	4,453.63	0.00	0.00	0.00	
7,600.00	91.50	269.83	3,311.85	-40.10	-4,553.42	4,553.60	0.00	0.00	0.00	
7,700.00	91.50	269.83	3,309.23	-40.40	-4,653.39	4,653.56	0.00	0.00	0.00	
7,800.00	91.50	269.83	3,306.60	-40.70	-4,753.35	4,753.53	0.00	0.00	0.00	
7,900.00	91.50	269.83	3,303.98	-41.00	-4,853.32	4,853.49	0.00	0.00	0.00	
8,000.00	91.50	269.83	3,301.35	-41.29	-4,953.29	4,953.45	0.00	0.00	0.00	
8,100.00	91.50	269.83	3,298.73	-41.59	-5,053.25	5,053.42	0.00	0.00	0.00	
8,200.00	91.50	269.83	3,296.11	-41.89	-5,153.22	5,153.38	0.00	0.00	0.00	
8,300.00	91.50	269.83	3,293.48	-42.19	-5,253.18	5,253.35	0.00	0.00	0.00	
8,400.00	91.50	269.83	3,290.86	-42.49	-5,353.15	5,353.31	0.00	0.00	0.00	
8,500.00	91.50	269.83	3,288.24	-42.79	-5,453.11	5,453.28	0.00	0.00	0.00	
8,600.00	91.50	269.83	3,285.61	-43.09	-5,553.08	5,553.24	0.00	0.00	0.00	
8,700.00	91.50	269.83	3,282.99	-43.39	-5,653.04	5,653.21	0.00	0.00	0.00	
8,800.00	91.50	269.83	3,280.36	-43.69	-5,753.01	5,753.17	0.00	0.00	0.00	



Stryker Directional
Planning Report



Database:	EDM 5000 Server	Local Co-ordinate Reference:	Well The Horned Frog 2H
Company:	Riley Permian	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site:	The Horned Frog	North Reference:	Grid
Well:	The Horned Frog 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
8,900.00	91.50	269.83	3,277.74	-43.99	-5,852.97	5,853.14	0.00	0.00	0.00
9,000.00	91.50	269.83	3,275.12	-44.29	-5,952.94	5,953.10	0.00	0.00	0.00
9,100.00	91.50	269.83	3,272.49	-44.59	-6,052.90	6,053.07	0.00	0.00	0.00
9,141.67	91.50	269.83	3,271.40	-44.71	-6,094.56	6,094.72	0.00	0.00	0.00
PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - The Horned F - hit/miss target - Shape - Point	0.00	360.00	3,271.40	-44.71	-6,094.56	631,836.78	538,084.43	32.736957	-104.343913
FTP - The Horned Fro - plan misses target center by 0.23usft at 3997.68usft MD (3406.37 TVD, -29.31 N, -952.36 E) - Point	0.00	0.01	3,406.37	-29.54	-952.36	631,851.95	543,226.16	32.736999	-104.327191

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
544.00	544.00	Queen		-1.50	269.58	
991.00	991.00	Grayburg		-1.50	269.58	
1,159.00	1,159.00	San Andres		-1.50	269.58	
2,813.13	2,810.21	Glorieta		-1.50	269.58	
2,908.33	2,899.34	Paddock		-1.50	269.58	
3,429.19	3,270.08	Blinbry		-1.50	269.58	
3,839.08	3,410.21	Target		-1.50	269.58	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,605.00	2,605.00	0.00	0.00	KOP, Begin 8.00°/100' Build
3,292.50	3,191.67	-13.85	-305.09	Begin 55.00° Tangent
3,492.50	3,306.39	-21.29	-468.75	Begin 10.00°/100' Build & Turn
3,858.24	3,410.03	-28.89	-812.97	Begin 91.50° Lateral
9,141.67	3,271.40	-44.71	-6,094.56	PBHL