

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 413319

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 30-015-58044
5. Property Name The Horned Frog		6. Well No. 003H

7. Surface Location

UL - Lot E	Section 19	Township 18S	Range 27E	Lot Idn 2	Feet From 1361	N/S Line N	Feet From 852	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot E	Section 24	Township 18S	Range 26E	Lot Idn E	Feet From 2290	N/S Line N	Feet From 10	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 State	15. Ground Level Elevation 3288
16. Multiple N	17. Proposed Depth 9100	18. Formation Yeso	19. Contractor	20. Spud Date 4/23/2026
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	169	0
Prod	8.75	5.5	20	9100	1273	2900

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: 4/7/2026 Expiration Date: 4/7/2028
	Date: 3/31/2026 Phone: 405-543-1411	Conditions of Approval Attached

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Initial Submittal <input type="checkbox"/> Amended Report <input checked="" type="checkbox"/> As Drilled <input type="checkbox"/>
Property Name and Well Number <div style="text-align: center;">THE HORNEF FROG 3H</div>		

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-54439 30-015-58044	Pool Code 3250	Pool Name ATOKA; GLORIETTA-YESO
Property Code 335042 338860	Property Name THE HORNEF FROG	
OGRID No. 372290	Operator Name RILEY PERMIAN OPERATING COMPANY LLC	Well Number 3H
Ground Level Elevation 3288'		
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

Surface Location

UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
2	19	18 S	27 E		1361 FNL	852 FWL	N 32.736874°	W 104.324094°	EDDY

Bottom Hole Location If Different From Surface

UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
E	24	18 S	26 E		2290 FNL	10 FWL	N 32.734293°	W 104.343955°	EDDY

Dedicated Acres 320	Infill or Defining Well N/A	Defining Well API N/A	Overlapping Spacing Unit (Y/N) N	Consolidated Code F
Order Numbers R-23931			Well Setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
1	19	18 S	27 E		1336 FNL	852 FWL	N 32.736943°	W 104.324094°	EDDY

First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
H	24	18 S	26 E		2290 FNL	100 FEL	N 32.734336°	W 104.327195°	EDDY

Last Take Point (LTP)


UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
E	24	18 S	26 E		2290 FNL	100 FWL	N 32.734294°	W 104.343662°	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unity Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation 3313'
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OPERATOR CERTIFICATION

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Signature:  Date: **3-31-26**

Print Name: **Alex Rizzo**

E-mail Address: **Alexrizzo@rileypermian.com**

SURVEYORS CERTIFICATION



Signature and Seal of Professional Surveyor Date

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.

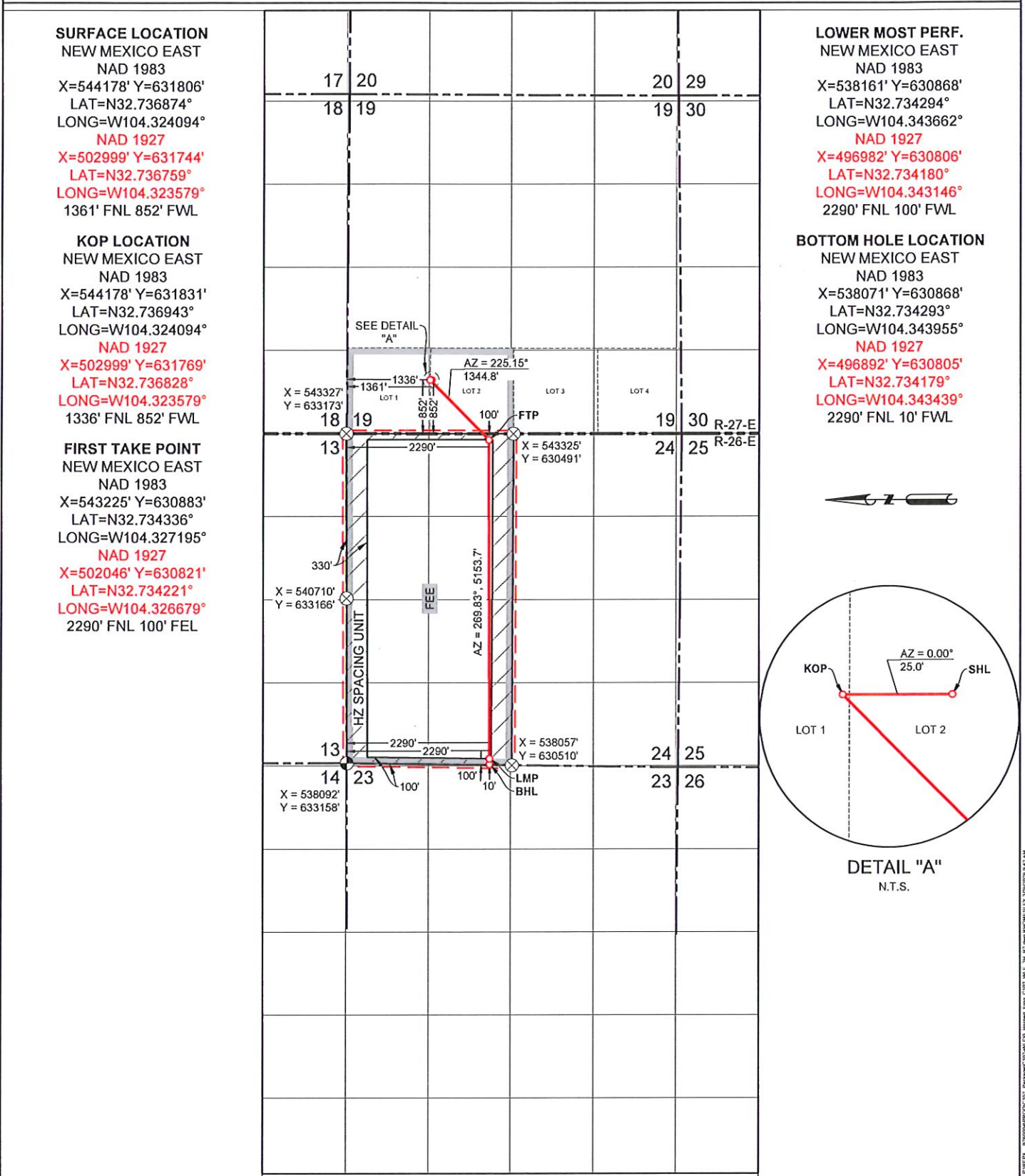
MITCHELL L. MCDONALD, N.M. P.L.S.

Certificate Number **29821** Date of Survey **JANUARY 31, 2026**

Note: 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.

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	<input type="checkbox"/> Initial Submittal <input checked="" type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

Property Name and Well Number
THE HORNFROG 3H



Note: Bearings, coordinates, and distances (grid) shown hereon are based on the New Mexico State Plane Coordinate System, East Zone, NAD 83-2011 (EPOCH 2010) framework, as derived by OPUS Solution. The elevations shown hereon are based on NAVD 88.

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1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Comments

Permit 413319

PERMIT COMMENTS

Operator Name and Address: RILEY PERMIAN OPERATING COMPANY, LLC [372290] 29 E Reno Avenue Oklahoma City, OK 73104		API Number: 30-015-58044
		Well: The Horned Frog #003H
Created By	Comment	Comment Date
arizzo	SHL change only. KOP, FTP, LTP, BHL will all remain the same as the original Horned Frog 3H.	3/31/2026

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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 413319

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: RILEY PERMIAN OPERATING COMPANY, LLC [372290] 29 E Reno Avenue Oklahoma City, OK 73104	API Number: 30-015-58044
	Well: The Horned Frog #003H

OCD Reviewer	Condition
jeffrey.harrison	This well is within the Roswell Artesian Basin. Operator must adhere to all 19.15.39.11 NMAC regulations.
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	All logs run on the well must be submitted to NMOCD.
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	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	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.
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	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.

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:

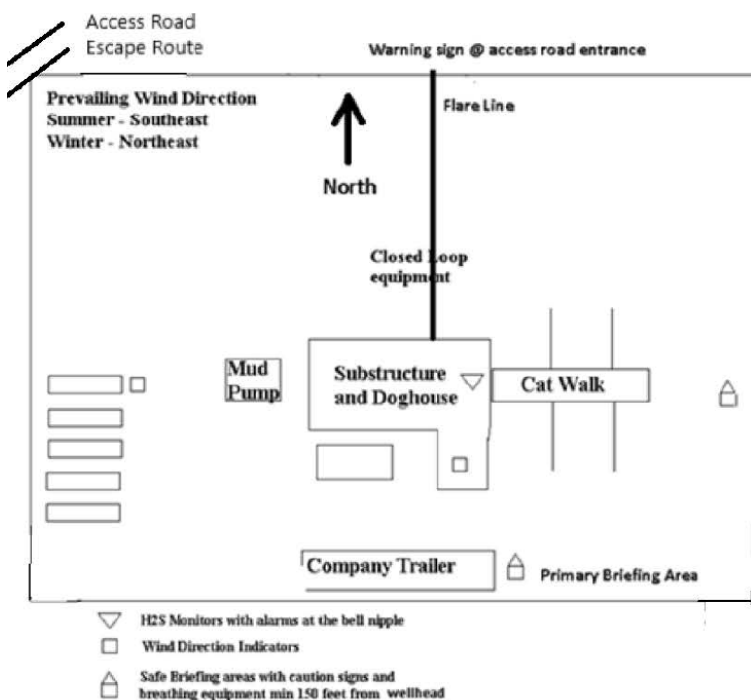
- A. There will be no drill stem testing.

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





Burnett Oil Company

Eddy County, New Mexico (NAD83)

Aggie/Horned Frog/Maverick

The Horned Frog 3H

Wellbore #1

Design #1

Anticollision Report

11 June, 2025



Stryker Directional
Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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	6/9/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	9,148.72	Design #1 (Wellbore #1)	MWD+HRGM	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
Aggie/Horned Frog/Maverick						
The Aggie 1H - Wellbore #1 - Design #1	2,609.13	4,439.90	1,163.96	1,126.07	30.717	CC, ES
The Aggie 1H - Wellbore #1 - Design #1	2,700.00	4,402.99	1,172.26	1,133.30	30.084	SF
The Aggie 2H - Wellbore #1 - Design #1	2,848.26	4,286.46	472.48	437.37	13.457	CC, ES
The Aggie 2H - Wellbore #1 - Design #1	3,000.00	4,245.57	508.04	467.38	12.495	SF
The Aggie 31H - Wellbore #1 - Design #1	4,633.20	2,900.00	1,117.91	1,077.66	27.777	CC, ES
The Aggie 31H - Wellbore #1 - Design #1	4,800.00	2,875.30	1,125.37	1,083.81	27.080	SF
The Aggie 32H - Wellbore #1 - Design #1	3,576.08	4,483.13	456.28	430.12	17.445	CC
The Aggie 32H - Wellbore #1 - Design #1	3,600.00	4,464.73	456.83	429.99	17.021	ES
The Aggie 32H - Wellbore #1 - Design #1	3,800.00	4,304.13	494.02	463.06	15.956	SF
The Aggie 3H - Wellbore #1 - Design #1	3,847.59	3,990.98	43.33	19.68	1.832	CC
The Aggie 3H - Wellbore #1 - Design #1	3,900.00	3,948.80	53.20	19.49	1.578	ES, SF
The Horned Frog 1H - Wellbore #1 - Design #1	1,500.00	1,500.00	80.04	70.52	8.405	CC, ES
The Horned Frog 1H - Wellbore #1 - Design #1	9,148.72	8,938.43	1,940.88	1,669.42	7.150	SF
The Horned Frog 2H - Wellbore #1 - Design #1	1,500.00	1,500.00	40.02	30.50	4.202	CC, ES
The Horned Frog 2H - Wellbore #1 - Design #1	9,148.72	8,702.39	969.54	697.84	3.568	SF
The Horned Frog 31H - Wellbore #1 - Design #1	1,500.00	1,500.00	59.90	50.38	6.290	CC, ES
The Horned Frog 31H - Wellbore #1 - Design #1	9,148.72	9,185.06	1,654.90	1,387.14	6.180	SF
The Horned Frog 32H - Wellbore #1 - Design #1	1,500.00	1,500.00	19.90	10.38	2.090	CC, ES, SF
The Maverick 1H - Wellbore #1 - Design #1	9,148.72	9,121.22	697.91	426.14	2.568	CC, ES, SF
The Maverick 2H - Wellbore #1 - Design #1	9,148.72	8,872.52	1,666.50	1,394.17	6.119	CC, ES, SF
The Maverick 31H - Wellbore #1 - Design #1	9,148.72	9,293.47	1,076.73	820.16	4.197	CC, ES, SF
The Maverick 32H - Wellbore #1 - Design #1	3,840.59	2,921.55	2,043.74	2,016.54	75.149	CC, ES
The Maverick 32H - Wellbore #1 - Design #1	9,148.72	9,336.27	2,359.70	2,092.99	8.847	SF
The Maverick 3H - Wellbore #1 - Design #1	3,849.54	2,650.00	2,144.34	2,116.31	76.508	CC, ES
The Maverick 3H - Wellbore #1 - Design #1	4,800.00	2,700.00	2,477.19	2,432.82	55.832	SF
Horned Frog/Maverick Offsets						
McCall #1 - Wellbore #1 - Surveys	8,981.43	2,912.64	1,359.38	1,158.06	6.752	CC
McCall #1 - Wellbore #1 - Surveys	9,000.00	2,911.95	1,359.51	1,157.58	6.733	ES
McCall #1 - Wellbore #1 - Surveys	9,148.72	2,906.44	1,369.62	1,163.79	6.654	SF
McCall #2 - Wellbore #1 - Surveys	8,711.91	1,125.00	2,257.94	2,138.25	18.864	CC
McCall #2 - Wellbore #1 - Surveys	8,800.00	1,125.00	2,259.66	2,138.11	18.590	ES
McCall #2 - Wellbore #1 - Surveys	9,148.72	1,125.00	2,299.81	2,171.50	17.925	SF
McCall #2 (2) - Wellbore #1 - Surveys						Out of range
Terry Evans #1 - Wellbore #1 - Surveys	5,900.00	3,028.83	309.28	185.28	2.494	CC, ES, SF

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

Stryker Directional Anticollision Report



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Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	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	1.00	0.00	0.00	0.01	-87.30	75.94	-1,608.14	1,609.93					
100.00	100.00	101.00	100.00	0.93	0.93	-87.30	75.94	-1,608.14	1,609.93	1,608.07	1.86	863.835		
200.00	200.00	201.00	200.00	1.51	1.51	-87.30	75.94	-1,608.14	1,609.93	1,606.91	3.02	533.409		
300.00	300.00	301.00	300.00	1.94	1.94	-87.30	75.94	-1,608.14	1,609.93	1,606.05	3.88	414.773		
400.00	400.00	401.00	400.00	2.30	2.29	-87.30	75.94	-1,608.14	1,609.93	1,605.34	4.59	350.691		
500.00	500.00	501.00	500.00	2.61	2.60	-87.30	75.94	-1,608.14	1,609.93	1,604.72	5.21	309.049		
600.00	600.00	601.00	600.00	2.88	2.88	-87.30	75.94	-1,608.14	1,609.93	1,604.16	5.77	279.189		
700.00	700.00	701.00	700.00	3.14	3.14	-87.30	75.94	-1,608.14	1,609.93	1,603.65	6.28	256.417		
800.00	800.00	801.00	800.00	3.38	3.38	-87.30	75.94	-1,608.14	1,609.93	1,603.17	6.76	238.301		
900.00	900.00	901.00	900.00	3.60	3.60	-87.30	75.94	-1,608.14	1,609.93	1,602.73	7.21	223.437		
1,000.00	1,000.00	1,001.00	1,000.00	3.82	3.82	-87.30	75.94	-1,608.14	1,609.93	1,602.30	7.63	210.950		
1,100.00	1,100.00	1,101.00	1,100.00	4.02	4.02	-87.30	75.94	-1,608.14	1,609.93	1,601.89	8.04	200.265		
1,200.00	1,200.00	1,201.00	1,200.00	4.22	4.21	-87.30	75.94	-1,608.14	1,609.93	1,601.50	8.43	190.983		
1,300.00	1,300.00	1,301.00	1,300.00	4.40	4.40	-87.30	75.94	-1,608.14	1,609.93	1,601.12	8.81	182.820		
1,400.00	1,400.00	1,401.00	1,400.00	4.59	4.58	-87.30	75.94	-1,608.14	1,609.93	1,600.76	9.17	175.566		
1,500.00	1,500.00	1,501.43	1,500.43	4.76	4.76	-87.30	75.94	-1,608.14	1,609.93	1,600.41	9.52	169.039		
1,600.00	1,599.98	1,644.07	1,643.00	4.96	5.37	-87.13	78.90	-1,606.06	1,607.92	1,597.92	9.99	160.919		
1,700.00	1,699.84	1,760.04	1,758.73	5.58	5.93	-86.73	85.08	-1,601.73	1,602.48	1,592.00	10.48	152.882		
1,800.00	1,799.59	4,523.28	3,069.00	5.89	36.53	-2.63	950.02	-50.06	1,593.76	1,567.05	26.71	59.675		
1,900.00	1,899.35	4,518.39	3,069.00	6.06	36.43	-2.72	949.79	-54.94	1,519.44	1,491.74	27.69	54.865		
2,000.00	1,999.11	4,513.46	3,069.00	6.25	36.33	-2.82	949.55	-59.86	1,448.20	1,419.42	28.79	50.311		
2,100.00	2,098.86	4,508.51	3,069.00	6.45	36.22	-2.92	949.30	-64.80	1,380.53	1,350.55	29.98	46.048		
2,200.00	2,198.62	4,503.52	3,069.00	6.67	36.12	-3.02	949.04	-69.78	1,316.97	1,285.69	31.27	42.110		
2,300.00	2,298.38	4,498.50	3,069.00	6.90	36.02	-3.12	948.77	-74.80	1,258.13	1,225.48	32.66	38.528		
2,400.00	2,397.66	4,490.27	3,069.00	7.34	35.85	-3.29	948.31	-83.02	1,208.19	1,173.98	34.20	35.325		
2,500.00	2,494.47	4,471.99	3,069.00	8.24	35.47	-3.65	947.21	-101.26	1,176.14	1,140.04	36.10	32.578		
2,600.00	2,586.88	4,443.08	3,069.00	9.06	34.87	-4.23	945.22	-130.10	1,164.04	1,126.28	37.76	30.825		
2,609.13	2,595.04	4,439.90	3,069.00	9.12	34.80	-4.29	944.98	-133.28	1,163.96	1,126.07	37.89	30.717	CC, ES	
2,700.00	2,673.11	4,402.99	3,069.00	9.78	34.04	-5.03	941.98	-170.07	1,172.26	1,133.30	38.97	30.084	SF	
2,800.00	2,751.48	4,350.95	3,069.00	10.40	32.96	-6.07	936.95	-221.86	1,199.57	1,159.99	39.58	30.307		
2,900.00	2,820.45	4,286.02	3,069.00	10.91	31.63	-7.37	929.35	-286.34	1,243.37	1,203.81	39.56	31.431		
3,000.00	2,879.71	4,207.81	3,069.00	11.26	30.03	-8.94	918.26	-363.76	1,299.55	1,260.66	38.88	33.424		
3,100.00	2,937.06	4,121.14	3,069.00	11.49	28.26	-10.67	903.50	-449.15	1,359.37	1,321.53	37.84	35.925		
3,200.00	2,993.73	4,023.95	3,069.00	11.74	26.29	-12.61	883.89	-544.35	1,420.27	1,383.70	36.58	38.830		
3,300.00	3,043.27	3,894.03	3,069.00	12.09	23.70	-15.21	852.66	-670.45	1,476.73	1,441.69	35.04	42.146		
3,400.00	3,082.95	2,900.00	2,802.84	13.50	11.24	-47.10	353.51	-1,413.78	1,485.56	1,464.34	21.22	70.019		
3,500.00	3,111.56	2,866.03	2,782.14	15.16	11.09	-44.39	331.45	-1,429.22	1,481.37	1,458.84	22.53	65.746		
3,600.00	3,128.22	2,830.40	2,759.09	16.87	10.92	-41.59	309.21	-1,444.80	1,467.49	1,443.59	23.90	61.395		
3,700.00	3,132.44	2,800.00	2,738.37	18.62	10.77	-38.53	290.98	-1,457.56	1,443.91	1,418.53	25.38	56.883		
3,800.00	3,128.71	2,762.70	2,711.68	20.26	10.57	-35.57	269.64	-1,472.51	1,414.91	1,388.21	26.69	53.007		
3,900.00	3,124.84	2,733.16	2,689.61	22.04	10.40	-32.22	253.56	-1,483.77	1,387.83	1,359.66	28.17	49.264		
4,000.00	3,120.96	2,700.00	2,663.90	23.88	10.20	-28.80	236.41	-1,495.77	1,363.21	1,333.58	29.63	46.015		
4,100.00	3,117.07	2,682.85	2,650.22	25.76	10.09	-24.82	227.93	-1,501.71	1,341.32	1,310.08	31.24	42.942		
4,200.00	3,113.17	2,650.00	2,623.36	27.67	9.88	-21.03	212.45	-1,512.55	1,322.71	1,290.11	32.60	40.576		
4,300.00	3,109.26	2,650.00	2,623.36	29.62	9.88	-16.39	212.45	-1,512.55	1,307.39	1,273.10	34.30	38.120		
4,400.00	3,105.37	2,624.71	2,602.10	31.58	9.70	-12.16	201.23	-1,520.41	1,295.80	1,260.24	35.56	36.445		
4,500.00	3,101.47	2,600.00	2,580.88	33.57	9.53	-7.77	190.86	-1,527.67	1,288.28	1,251.62	36.67	35.136		
4,600.00	3,097.60	2,600.00	2,580.88	35.57	9.53	-2.91	190.86	-1,527.67	1,284.76	1,246.77	37.99	33.818		
4,626.74	3,096.56	2,600.00	2,580.88	36.10	9.53	-1.61	190.86	-1,527.67	1,284.60	1,246.28	38.32	33.524		
4,700.00	3,093.74	2,581.82	2,565.00	37.57	9.40	1.71	183.63	-1,532.73	1,285.50	1,246.65	38.85	33.089		
4,800.00	3,089.90	2,570.07	2,554.60	39.54	9.31	6.44	179.12	-1,535.89	1,290.93	1,251.38	39.55	32.637		
4,900.00	3,086.06	2,550.00	2,536.67	41.53	9.16	11.05	171.76	-1,541.04	1,303.44	1,263.53	39.92	32.655		

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	3,082.22	2,550.00	2,536.67	43.55	9.16	15.72	171.76	-1,541.04	1,323.01	1,282.56	40.45	32.708		
5,100.00	3,078.38	2,550.00	2,536.67	45.60	9.16	20.18	171.76	-1,541.04	1,349.72	1,308.92	40.81	33.076		
5,200.00	3,074.54	2,528.90	2,517.54	47.67	9.00	24.32	164.46	-1,546.15	1,382.70	1,342.08	40.61	34.044		
5,300.00	3,070.71	2,519.83	2,509.24	49.76	8.92	28.29	161.47	-1,548.25	1,421.91	1,381.41	40.50	35.108		
5,400.00	3,066.87	2,500.00	2,490.93	51.88	8.77	31.99	155.22	-1,552.62	1,466.88	1,426.81	40.07	36.606		
5,500.00	3,063.03	2,500.00	2,490.93	54.01	8.77	35.44	155.22	-1,552.62	1,516.73	1,476.81	39.91	38.003		
5,600.00	3,059.19	2,500.00	2,490.93	56.15	8.77	38.63	155.22	-1,552.62	1,571.36	1,531.69	39.67	39.611		
5,700.00	3,055.36	2,500.00	2,490.93	58.31	8.77	41.55	155.22	-1,552.62	1,630.31	1,590.94	39.37	41.410		
5,800.00	3,051.52	2,480.35	2,472.59	60.48	8.60	44.27	149.45	-1,556.67	1,692.73	1,654.04	38.69	43.753		
5,900.00	3,047.68	2,473.47	2,466.12	62.67	8.55	46.75	147.52	-1,558.01	1,758.68	1,720.47	38.21	46.029		
6,000.00	3,043.84	2,450.00	2,443.90	64.86	8.35	49.07	141.34	-1,562.34	1,827.91	1,790.46	37.45	48.813		
6,100.00	3,040.00	2,450.00	2,443.90	67.06	8.35	51.15	141.34	-1,562.34	1,899.39	1,862.32	37.07	51.240		
6,200.00	3,036.17	2,450.00	2,443.90	69.27	8.35	53.05	141.34	-1,562.34	1,973.34	1,936.66	36.69	53.788		
6,300.00	3,032.33	2,450.00	2,443.90	71.48	8.35	54.80	141.34	-1,562.34	2,049.51	2,013.20	36.31	56.444		
6,400.00	3,028.49	2,450.00	2,443.90	73.70	8.35	56.41	141.34	-1,562.34	2,127.66	2,091.72	35.94	59.200		
6,500.00	3,024.65	2,450.00	2,443.90	75.93	8.35	57.90	141.34	-1,562.34	2,207.56	2,171.98	35.58	62.045		
6,600.00	3,020.82	2,450.00	2,443.90	78.16	8.35	59.27	141.34	-1,562.34	2,289.05	2,253.82	35.23	64.970		
6,700.00	3,016.98	2,427.59	2,422.46	80.40	8.15	60.61	136.00	-1,566.08	2,371.53	2,336.95	34.59	68.570		
6,800.00	3,013.14	2,422.81	2,417.86	82.65	8.11	61.80	134.93	-1,566.83	2,455.52	2,421.31	34.21	71.784		

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

Stryker Directional Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	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	-88.71	36.28	-1,608.75	1,609.16					
100.00	100.00	101.00	100.00	0.93	0.93	-88.71	36.28	-1,608.75	1,609.16	1,607.30	1.87	862.796		
200.00	200.00	201.00	200.00	1.51	1.51	-88.71	36.28	-1,608.75	1,609.16	1,606.14	3.02	532.987		
300.00	300.00	301.00	300.00	1.94	1.94	-88.71	36.28	-1,608.75	1,609.16	1,605.28	3.88	414.496		
400.00	400.00	401.00	400.00	2.30	2.30	-88.71	36.28	-1,608.75	1,609.16	1,604.57	4.59	350.476		
500.00	500.00	501.00	500.00	2.61	2.60	-88.71	36.28	-1,608.75	1,609.16	1,603.95	5.21	308.868		
600.00	600.00	601.00	600.00	2.88	2.88	-88.71	36.28	-1,608.75	1,609.16	1,603.39	5.77	279.031		
700.00	700.00	701.00	700.00	3.14	3.14	-88.71	36.28	-1,608.75	1,609.16	1,602.88	6.28	256.276		
800.00	800.00	801.00	800.00	3.38	3.38	-88.71	36.28	-1,608.75	1,609.16	1,602.41	6.76	238.172		
900.00	900.00	901.00	900.00	3.60	3.60	-88.71	36.28	-1,608.75	1,609.16	1,601.96	7.21	223.317		
1,000.00	1,000.00	1,001.00	1,000.00	3.82	3.82	-88.71	36.28	-1,608.75	1,609.16	1,601.53	7.63	210.839		
1,100.00	1,100.00	1,101.00	1,100.00	4.02	4.02	-88.71	36.28	-1,608.75	1,609.16	1,601.12	8.04	200.160		
1,200.00	1,200.00	1,201.00	1,200.00	4.22	4.21	-88.71	36.28	-1,608.75	1,609.16	1,600.73	8.43	190.884		
1,300.00	1,300.00	1,301.00	1,300.00	4.40	4.40	-88.71	36.28	-1,608.75	1,609.16	1,600.35	8.81	182.725		
1,400.00	1,400.00	1,401.00	1,400.00	4.59	4.59	-88.71	36.28	-1,608.75	1,609.16	1,599.99	9.17	175.475		
1,500.00	1,500.00	1,501.00	1,500.00	4.76	4.76	-88.71	36.28	-1,608.75	1,609.16	1,599.64	9.52	168.975		
1,600.00	1,599.98	4,379.92	3,116.69	4.96	35.75	6.75	83.96	9.38	1,519.16	1,501.00	18.16	83.672		
1,700.00	1,699.84	4,377.96	3,116.70	5.58	35.70	6.55	84.13	7.43	1,419.78	1,401.54	18.25	77.809		
1,800.00	1,799.59	4,375.41	3,116.70	5.89	35.65	6.34	84.35	4.88	1,320.72	1,302.37	18.35	71.973		
1,900.00	1,899.35	4,372.85	3,116.71	6.06	35.59	6.16	84.58	2.33	1,221.80	1,203.33	18.47	66.147		
2,000.00	1,999.11	4,370.29	3,116.71	6.25	35.53	6.00	84.80	-0.21	1,123.07	1,104.46	18.62	60.324		
2,100.00	2,098.86	4,367.73	3,116.72	6.45	35.47	5.86	85.02	-2.76	1,024.58	1,005.78	18.80	54.500		
2,200.00	2,198.62	4,365.17	3,116.72	6.67	35.42	5.74	85.25	-5.31	926.41	907.38	19.03	48.673		
2,300.00	2,298.38	4,362.62	3,116.72	6.90	35.36	5.63	85.47	-7.86	828.67	809.32	19.34	42.837		
2,400.00	2,397.66	4,358.57	3,116.73	7.34	35.27	5.51	85.82	-11.89	732.76	712.91	19.85	36.916		
2,500.00	2,494.47	4,349.93	3,116.75	8.24	35.07	5.38	86.58	-20.49	643.60	622.53	21.07	30.544		
2,600.00	2,586.88	4,336.78	3,116.77	9.06	34.78	5.27	87.72	-33.59	566.36	542.87	23.50	24.105		
2,700.00	2,673.11	4,319.37	3,116.80	9.78	34.38	5.18	89.24	-50.94	508.01	480.52	27.49	18.480		
2,800.00	2,751.48	4,298.04	3,116.84	10.40	33.90	5.12	91.10	-72.19	476.36	443.73	32.63	14.600		
2,848.26	2,786.02	4,286.46	3,116.86	10.65	33.65	5.10	92.11	-83.72	472.48	437.37	35.11	13.457	CC, ES	
2,900.00	2,820.45	4,273.20	3,116.88	10.91	33.35	5.08	93.27	-96.93	476.91	439.41	37.50	12.717		
3,000.00	2,879.71	4,245.57	3,116.93	11.26	32.73	5.06	95.68	-124.46	508.04	467.38	40.66	12.495	SF	
3,100.00	2,937.06	4,217.46	3,116.98	11.49	32.10	5.04	98.13	-152.46	556.14	513.91	42.22	13.172		
3,200.00	2,993.73	4,187.99	3,117.03	11.74	31.44	5.02	100.70	-181.82	615.65	572.88	42.77	14.393		
3,300.00	3,043.27	4,145.98	3,117.10	12.09	30.51	5.02	104.37	-223.67	683.09	640.49	42.60	16.034		
3,400.00	3,082.95	4,090.01	3,117.20	13.50	29.26	5.01	109.25	-279.42	752.50	710.58	41.92	17.950		
3,500.00	3,111.56	4,021.80	3,117.31	15.16	27.75	5.01	115.20	-347.38	818.90	777.87	41.03	19.959		
3,600.00	3,128.22	3,943.41	3,117.45	16.87	26.04	5.00	122.04	-425.47	878.59	838.45	40.13	21.892		
3,700.00	3,132.44	3,857.23	3,117.60	18.62	24.17	5.00	129.56	-511.32	928.95	889.58	39.37	23.598		
3,800.00	3,128.71	3,744.05	3,117.79	20.26	21.68	3.66	138.65	-624.13	970.88	932.56	38.32	25.335		
3,900.00	3,124.84	3,601.03	3,118.04	22.04	18.55	0.80	144.22	-767.02	1,005.62	968.41	37.21	27.029		
4,000.00	3,120.96	3,440.32	3,106.04	23.88	15.26	-2.77	141.46	-926.87	1,031.80	995.58	36.23	28.483		
4,100.00	3,117.07	3,283.79	3,054.75	25.76	12.38	-5.47	128.71	-1,073.69	1,048.74	1,013.26	35.47	29.564		
4,200.00	3,113.17	3,167.39	2,993.23	27.67	10.65	-5.42	113.44	-1,171.14	1,059.37	1,023.97	35.40	29.929		
4,300.00	3,109.26	3,083.31	2,945.00	29.62	10.35	-3.75	101.48	-1,238.97	1,068.40	1,032.67	35.73	29.902		
4,400.00	3,105.37	2,999.27	2,896.79	31.58	10.20	-2.05	89.53	-1,306.77	1,076.67	1,040.58	36.09	29.837		
4,500.00	3,101.47	2,940.30	2,861.12	33.57	9.98	0.83	81.38	-1,352.98	1,085.16	1,048.43	36.73	29.544		
4,600.00	3,097.60	2,888.37	2,826.60	35.57	9.76	4.15	74.65	-1,391.17	1,095.37	1,058.01	37.36	29.320		
4,700.00	3,093.74	2,850.00	2,799.34	37.57	9.58	8.08	69.96	-1,417.76	1,107.95	1,070.01	37.95	29.198		
4,800.00	3,089.90	2,800.00	2,761.71	39.54	9.33	11.68	64.24	-1,450.17	1,123.67	1,085.38	38.29	29.347		
4,900.00	3,086.06	2,766.24	2,735.05	41.53	9.14	15.81	60.65	-1,470.56	1,145.34	1,106.79	38.55	29.714		
5,000.00	3,082.22	2,734.37	2,709.01	43.55	8.96	19.91	57.46	-1,488.66	1,173.38	1,134.73	38.65	30.360		

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

Stryker Directional
Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	3,078.38	2,700.00	2,680.05	45.60	8.75	23.83	54.25	-1,506.87	1,207.64	1,169.05	38.58	31.301		
5,200.00	3,074.54	2,680.54	2,663.26	47.67	8.63	27.88	52.54	-1,516.56	1,247.74	1,209.29	38.45	32.452		
5,300.00	3,070.71	2,650.00	2,636.40	49.76	8.43	31.49	50.01	-1,530.87	1,293.46	1,255.32	38.13	33.918		
5,400.00	3,066.87	2,650.00	2,636.40	51.88	8.43	35.33	50.01	-1,530.87	1,344.32	1,306.43	37.89	35.479		
5,500.00	3,063.03	2,618.61	2,608.17	54.01	8.22	38.44	47.63	-1,544.38	1,399.60	1,362.20	37.40	37.424		
5,600.00	3,059.19	2,600.00	2,591.16	56.15	8.09	41.47	46.32	-1,551.81	1,459.24	1,422.31	36.92	39.524		
5,700.00	3,055.36	2,600.00	2,591.16	58.31	8.09	44.43	46.32	-1,551.81	1,522.82	1,486.30	36.52	41.695		
5,800.00	3,051.52	2,572.40	2,565.59	60.48	7.89	46.90	44.52	-1,562.03	1,589.47	1,553.54	35.93	44.242		
5,900.00	3,047.68	2,550.00	2,544.55	62.67	7.72	49.22	43.18	-1,569.60	1,659.39	1,624.04	35.35	46.942		
6,000.00	3,043.84	2,550.00	2,544.55	64.86	7.72	51.47	43.18	-1,569.60	1,731.85	1,696.92	34.93	49.585		
6,100.00	3,040.00	2,550.00	2,544.55	67.06	7.72	53.52	43.18	-1,569.60	1,806.93	1,772.42	34.51	52.362		
6,200.00	3,036.17	2,526.82	2,522.53	69.27	7.54	55.29	41.92	-1,576.75	1,883.85	1,849.91	33.94	55.513		
6,300.00	3,032.33	2,500.00	2,496.79	71.48	7.34	56.92	40.62	-1,584.14	1,963.10	1,929.76	33.35	58.870		
6,400.00	3,028.49	2,500.00	2,496.79	73.70	7.34	58.50	40.62	-1,584.14	2,043.58	2,010.61	32.97	61.978		
6,500.00	3,024.65	2,500.00	2,496.79	75.93	7.34	59.95	40.62	-1,584.14	2,125.71	2,093.10	32.62	65.174		
6,600.00	3,020.82	2,500.00	2,496.79	78.16	7.34	61.28	40.62	-1,584.14	2,209.32	2,177.04	32.28	68.450		
6,700.00	3,016.98	2,500.00	2,496.79	80.40	7.34	62.51	40.62	-1,584.14	2,294.24	2,262.28	31.96	71.795		
6,800.00	3,013.14	2,479.62	2,477.04	82.65	7.17	63.61	39.74	-1,589.12	2,379.96	2,348.47	31.49	75.567		
6,900.00	3,009.30	2,473.43	2,471.02	84.89	7.12	64.65	39.49	-1,590.53	2,466.85	2,435.69	31.16	79.163		

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	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	-88.01	56.00	-1,608.45	1,609.42					
100.00	100.00	101.00	100.00	0.93	0.93	-88.01	56.00	-1,608.45	1,609.42	1,607.56	1.86	863.563		
200.00	200.00	201.00	200.00	1.51	1.51	-88.01	56.00	-1,608.45	1,609.42	1,606.41	3.02	533.240		
300.00	300.00	301.00	300.00	1.94	1.94	-88.01	56.00	-1,608.45	1,609.42	1,605.54	3.88	414.642		
400.00	400.00	401.00	400.00	2.30	2.29	-88.01	56.00	-1,608.45	1,609.42	1,604.83	4.59	350.580		
500.00	500.00	501.00	500.00	2.61	2.60	-88.01	56.00	-1,608.45	1,609.42	1,604.21	5.21	308.952		
600.00	600.00	601.00	600.00	2.88	2.88	-88.01	56.00	-1,608.45	1,609.42	1,603.66	5.77	279.101		
700.00	700.00	701.00	700.00	3.14	3.14	-88.01	56.00	-1,608.45	1,609.42	1,603.14	6.28	256.336		
800.00	800.00	801.00	800.00	3.38	3.38	-88.01	56.00	-1,608.45	1,609.42	1,602.67	6.76	238.226		
900.00	900.00	901.00	900.00	3.60	3.60	-88.01	56.00	-1,608.45	1,609.42	1,602.22	7.21	223.366		
1,000.00	1,000.00	1,001.00	1,000.00	3.82	3.82	-88.01	56.00	-1,608.45	1,609.42	1,601.79	7.63	210.884		
1,100.00	1,100.00	1,101.00	1,100.00	4.02	4.02	-88.01	56.00	-1,608.45	1,609.42	1,601.38	8.04	200.202		
1,200.00	1,200.00	1,201.00	1,200.00	4.22	4.21	-88.01	56.00	-1,608.45	1,609.42	1,600.99	8.43	190.923		
1,300.00	1,300.00	1,301.00	1,300.00	4.40	4.40	-88.01	56.00	-1,608.45	1,609.42	1,600.62	8.81	182.762		
1,400.00	1,400.00	1,401.00	1,400.00	4.59	4.58	-88.01	56.00	-1,608.45	1,609.42	1,600.25	9.17	175.510		
1,500.00	1,500.00	1,501.00	1,500.00	4.76	4.76	-88.01	56.00	-1,608.45	1,609.42	1,599.90	9.52	169.009		
1,600.00	1,599.98	1,600.98	1,599.98	4.96	4.93	-87.95	56.00	-1,608.45	1,608.74	1,598.91	9.83	163.640		
1,700.00	1,699.84	1,700.84	1,699.84	5.58	5.10	-87.78	56.00	-1,608.45	1,606.71	1,596.50	10.20	157.452		
1,800.00	1,799.59	1,801.01	1,800.01	5.89	5.26	-87.55	56.00	-1,608.45	1,604.02	1,593.50	10.52	152.409		
1,900.00	1,899.35	1,970.15	1,969.05	6.06	5.96	-87.19	59.25	-1,604.58	1,599.17	1,588.03	11.13	143.624		
2,000.00	1,999.11	2,081.46	2,080.10	6.25	6.40	-86.77	64.14	-1,598.75	1,591.54	1,579.97	11.57	137.551		
2,100.00	2,098.86	4,867.05	3,491.63	6.45	36.36	2.57	642.76	15.52	1,547.74	1,524.44	23.30	66.436		
2,200.00	2,198.62	4,862.02	3,491.73	6.67	36.25	2.37	642.77	10.49	1,461.61	1,437.54	24.07	60.727		
2,300.00	2,298.38	4,856.99	3,491.84	6.90	36.15	2.18	642.78	5.47	1,377.33	1,352.37	24.96	55.175		
2,400.00	2,397.66	4,850.13	3,491.98	7.34	36.00	1.97	642.79	-1.39	1,297.83	1,271.73	26.11	49.712		
2,500.00	2,494.47	4,837.67	3,492.24	8.24	35.74	1.75	642.81	-13.84	1,230.50	1,202.62	27.88	44.129		
2,600.00	2,586.88	4,819.74	3,492.62	9.06	35.36	1.53	642.84	-31.77	1,178.83	1,148.82	30.01	39.277		
2,700.00	2,673.11	4,796.67	3,493.10	9.78	34.88	1.32	642.87	-54.84	1,145.76	1,113.44	32.32	35.450		
2,800.00	2,751.48	4,768.92	3,493.68	10.40	34.30	1.13	642.92	-82.58	1,133.28	1,098.71	34.57	32.779		
2,808.70	2,757.87	4,766.31	3,493.74	10.44	34.25	1.12	642.92	-85.20	1,133.20	1,098.45	34.76	32.603		
2,900.00	2,820.45	4,737.04	3,494.35	10.91	33.64	0.97	642.97	-114.46	1,141.99	1,105.46	36.54	31.257		
3,000.00	2,879.71	4,701.89	3,495.09	11.26	32.91	0.83	643.02	-149.60	1,169.88	1,132.01	37.88	30.888		
3,100.00	2,937.06	4,663.57	3,495.89	11.49	32.12	0.58	643.07	-187.91	1,206.43	1,167.71	38.71	31.165		
3,200.00	2,993.73	4,601.69	3,497.19	11.74	30.83	-0.76	642.35	-249.77	1,248.61	1,209.64	38.98	32.035		
3,300.00	3,043.27	4,513.24	3,499.05	12.09	28.96	-2.60	639.00	-338.13	1,295.21	1,256.50	38.71	33.461		
3,400.00	3,082.95	4,393.67	3,501.57	13.50	26.44	-5.05	630.13	-457.34	1,341.66	1,303.89	37.77	35.518		
3,500.00	3,111.56	3,322.33	3,237.81	15.16	11.71	-44.33	263.82	-1,360.78	1,353.97	1,330.26	23.71	57.096		
3,600.00	3,128.22	3,247.89	3,188.19	16.87	11.35	-42.56	228.18	-1,403.26	1,333.67	1,308.84	24.83	53.706		
3,700.00	3,132.44	3,181.32	3,139.15	18.62	10.98	-40.35	199.26	-1,437.72	1,305.66	1,279.50	26.17	49.900		
3,800.00	3,128.71	3,123.15	3,093.05	20.26	10.62	-37.72	176.49	-1,464.86	1,273.24	1,245.73	27.51	46.291		
3,900.00	3,124.84	3,075.59	3,053.31	22.04	10.31	-34.58	159.70	-1,484.87	1,242.11	1,213.06	29.05	42.756		
4,000.00	3,120.96	3,036.38	3,019.30	23.88	10.03	-31.01	147.16	-1,499.81	1,213.20	1,182.50	30.70	39.519		
4,100.00	3,117.07	3,000.00	2,986.84	25.76	9.77	-27.15	136.61	-1,512.39	1,187.19	1,154.83	32.36	36.684		
4,200.00	3,113.17	2,976.21	2,965.18	27.67	9.58	-22.83	130.29	-1,519.92	1,164.65	1,130.58	34.07	34.186		
4,300.00	3,109.26	2,950.00	2,940.95	29.62	9.38	-18.38	123.87	-1,527.57	1,146.11	1,110.44	35.68	32.126		
4,400.00	3,105.37	2,932.77	2,924.83	31.58	9.24	-13.63	119.96	-1,532.23	1,131.98	1,094.75	37.23	30.404		
4,500.00	3,101.47	2,915.42	2,908.46	33.57	9.10	-8.76	116.27	-1,536.62	1,122.60	1,083.97	38.63	29.063		
4,600.00	3,097.60	2,900.00	2,893.79	35.57	8.98	-3.77	113.21	-1,540.27	1,118.21	1,078.38	39.84	28.069		
4,633.20	3,096.31	2,900.00	2,893.79	36.23	8.98	-2.04	113.21	-1,540.27	1,117.91	1,077.66	40.25	27.777 CC, ES		
4,700.00	3,093.74	2,887.04	2,881.38	37.57	8.87	1.29	110.80	-1,543.15	1,118.99	1,078.14	40.85	27.394		
4,800.00	3,089.90	2,875.30	2,870.09	39.54	8.77	6.35	108.74	-1,545.60	1,125.37	1,083.81	41.56	27.080 SF		
4,900.00	3,086.06	2,864.66	2,859.81	41.53	8.68	11.35	106.97	-1,547.71	1,139.84	1,097.82	42.02	27.127		

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

Stryker Directional
Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	3,082.22	2,850.00	2,845.58	43.55	8.55	16.18	104.70	-1,550.42	1,162.58	1,120.40	42.18	27.561		
5,100.00	3,078.38	2,850.00	2,845.58	45.60	8.55	20.88	104.70	-1,550.42	1,193.09	1,150.78	42.31	28.199		
5,200.00	3,074.54	2,850.00	2,845.58	47.67	8.55	25.31	104.70	-1,550.42	1,230.99	1,188.74	42.24	29.139		
5,300.00	3,070.71	2,830.27	2,826.33	49.76	8.38	29.36	101.94	-1,553.71	1,275.21	1,233.46	41.75	30.546		
5,400.00	3,066.87	2,823.27	2,819.47	51.88	8.31	33.17	101.04	-1,554.78	1,325.56	1,284.25	41.30	32.095		
5,500.00	3,063.03	2,816.78	2,813.10	54.01	8.26	36.68	100.25	-1,555.72	1,381.22	1,340.45	40.77	33.876		
5,600.00	3,059.19	2,800.00	2,796.57	56.15	8.11	39.89	98.37	-1,557.96	1,441.73	1,401.69	40.04	36.008		
5,700.00	3,055.36	2,800.00	2,796.57	58.31	8.11	42.85	98.37	-1,557.96	1,506.18	1,466.67	39.51	38.124		
5,800.00	3,051.52	2,800.00	2,796.57	60.48	8.11	45.55	98.37	-1,557.96	1,574.34	1,535.38	38.96	40.412		
5,900.00	3,047.68	2,800.00	2,796.57	62.67	8.11	48.01	98.37	-1,557.96	1,645.76	1,607.36	38.40	42.855		
6,000.00	3,043.84	2,800.00	2,796.57	64.86	8.11	50.26	98.37	-1,557.96	1,720.04	1,682.18	37.86	45.437		
6,100.00	3,040.00	2,800.00	2,796.57	67.06	8.11	52.31	98.37	-1,557.96	1,796.81	1,759.49	37.32	48.144		
6,200.00	3,036.17	2,781.86	2,778.64	69.27	8.01	54.20	96.62	-1,560.05	1,875.45	1,838.82	36.63	51.193		
6,300.00	3,032.33	2,778.00	2,774.82	71.48	7.99	55.92	96.28	-1,560.45	1,956.19	1,920.08	36.11	54.174		
6,400.00	3,028.49	2,774.35	2,771.20	73.70	7.97	57.51	95.98	-1,560.81	2,038.62	2,003.01	35.61	57.247		
6,500.00	3,024.65	2,770.90	2,767.77	75.93	7.95	58.96	95.70	-1,561.14	2,122.53	2,087.39	35.14	60.403		
6,600.00	3,020.82	2,750.00	2,746.99	78.16	7.84	60.32	94.25	-1,562.87	2,208.05	2,173.51	34.54	63.919		
6,700.00	3,016.98	2,750.00	2,746.99	80.40	7.84	61.56	94.25	-1,562.87	2,294.36	2,260.21	34.16	67.173		
6,800.00	3,013.14	2,750.00	2,746.99	82.65	7.84	62.71	94.25	-1,562.87	2,381.75	2,347.96	33.79	70.485		
6,900.00	3,009.30	2,750.00	2,746.99	84.89	7.84	63.77	94.25	-1,562.87	2,470.09	2,436.65	33.45	73.849		

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	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	-89.43	16.00	-1,608.92	1,609.00					
100.00	100.00	101.00	100.00	0.93	0.93	-89.43	16.00	-1,608.92	1,609.00	1,607.13	1.86	863.333		
200.00	200.00	201.00	200.00	1.51	1.51	-89.43	16.00	-1,608.92	1,609.00	1,605.98	3.02	533.099		
300.00	300.00	301.00	300.00	1.94	1.94	-89.43	16.00	-1,608.92	1,609.00	1,605.11	3.88	414.532		
400.00	400.00	401.00	400.00	2.30	2.29	-89.43	16.00	-1,608.92	1,609.00	1,604.40	4.59	350.487		
500.00	500.00	501.00	500.00	2.61	2.60	-89.43	16.00	-1,608.92	1,609.00	1,603.79	5.21	308.869		
600.00	600.00	601.00	600.00	2.88	2.88	-89.43	16.00	-1,608.92	1,609.00	1,603.23	5.77	279.027		
700.00	700.00	701.00	700.00	3.14	3.14	-89.43	16.00	-1,608.92	1,609.00	1,602.72	6.28	256.268		
800.00	800.00	801.00	800.00	3.38	3.38	-89.43	16.00	-1,608.92	1,609.00	1,602.24	6.76	238.163		
900.00	900.00	901.00	900.00	3.60	3.60	-89.43	16.00	-1,608.92	1,609.00	1,601.79	7.21	223.307		
1,000.00	1,000.00	1,001.00	1,000.00	3.82	3.82	-89.43	16.00	-1,608.92	1,609.00	1,601.36	7.63	210.828		
1,100.00	1,100.00	1,101.00	1,100.00	4.02	4.02	-89.43	16.00	-1,608.92	1,609.00	1,600.96	8.04	200.149		
1,200.00	1,200.00	1,201.00	1,200.00	4.22	4.21	-89.43	16.00	-1,608.92	1,609.00	1,600.57	8.43	190.872		
1,300.00	1,300.00	1,301.00	1,300.00	4.40	4.40	-89.43	16.00	-1,608.92	1,609.00	1,600.19	8.81	182.714		
1,400.00	1,400.00	1,401.00	1,400.00	4.59	4.58	-89.43	16.00	-1,608.92	1,609.00	1,599.83	9.17	175.464		
1,500.00	1,500.00	1,501.00	1,500.00	4.76	4.76	-89.43	16.00	-1,608.92	1,609.00	1,599.47	9.52	168.964		
1,600.00	1,599.98	1,600.98	1,599.98	4.96	4.93	-89.37	16.00	-1,608.92	1,608.27	1,598.44	9.83	163.561		
1,700.00	1,699.84	1,700.84	1,699.84	5.58	5.10	-89.20	16.00	-1,608.92	1,606.12	1,595.91	10.22	157.222		
1,800.00	1,799.59	1,800.99	1,799.99	5.89	5.26	-88.98	16.00	-1,608.92	1,603.27	1,592.74	10.54	152.133		
1,900.00	1,899.35	1,968.06	1,966.96	6.06	5.83	-88.87	12.52	-1,605.43	1,598.33	1,587.25	11.08	144.240		
2,000.00	1,999.11	2,120.66	2,119.00	6.25	6.64	-88.96	3.38	-1,596.29	1,589.29	1,577.57	11.72	135.610		
2,100.00	2,098.86	2,220.12	2,217.91	6.45	6.90	-88.99	-3.97	-1,588.94	1,578.94	1,566.87	12.07	130.867		
2,200.00	2,198.62	4,953.41	3,563.84	6.67	37.65	177.74	-677.89	7.53	1,507.98	1,484.72	23.26	64.834		
2,300.00	2,298.38	4,948.55	3,563.93	6.90	37.55	177.89	-677.88	2.67	1,415.51	1,391.66	23.85	59.355		
2,400.00	2,397.66	4,941.87	3,564.06	7.34	37.41	178.03	-677.87	-4.01	1,322.68	1,298.19	24.49	53.999		
2,500.00	2,494.47	4,929.58	3,564.30	8.24	37.15	178.13	-677.85	-16.30	1,227.18	1,202.19	24.99	49.098		
2,600.00	2,586.88	4,911.81	3,564.64	9.06	36.78	178.19	-677.82	-34.07	1,130.11	1,104.91	25.20	44.848		
2,700.00	2,673.11	4,888.89	3,565.08	9.78	36.31	178.21	-677.78	-56.98	1,032.92	1,007.84	25.08	41.186		
2,800.00	2,751.48	4,861.29	3,565.61	10.40	35.75	178.16	-677.74	-84.58	937.39	912.77	24.62	38.073		
2,900.00	2,820.45	4,827.78	3,566.26	10.91	35.06	178.28	-677.66	-118.08	845.82	821.97	23.85	35.469		
3,000.00	2,879.71	4,788.64	3,567.01	11.26	34.25	178.79	-677.15	-157.21	760.44	737.69	22.76	33.416		
3,100.00	2,937.06	4,751.13	3,567.73	11.49	33.45	179.09	-676.17	-194.70	678.46	656.84	21.62	31.379		
3,200.00	2,993.73	4,714.29	3,568.44	11.74	32.67	178.97	-674.73	-231.51	600.65	579.94	20.71	29.005		
3,300.00	3,043.27	4,666.63	3,569.37	12.09	31.66	177.73	-672.16	-279.08	535.53	514.98	20.56	26.049		
3,400.00	3,082.95	4,607.61	3,570.51	13.50	30.41	165.86	-667.88	-337.94	488.43	466.80	21.62	22.586		
3,500.00	3,111.56	4,539.56	3,571.83	15.16	28.97	18.59	-661.44	-405.67	462.12	438.16	23.96	19.288		
3,576.08	3,125.35	4,483.13	3,572.92	16.45	27.78	12.85	-654.88	-461.71	456.28	430.12	26.16	17.445 CC		
3,600.00	3,128.22	4,464.73	3,573.28	16.87	27.39	12.41	-652.50	-479.95	456.83	429.99	26.84	17.021 ES		
3,700.00	3,132.44	4,385.23	3,574.82	18.62	25.72	12.30	-640.89	-558.57	469.91	440.56	29.34	16.014		
3,800.00	3,128.71	4,304.13	3,576.39	20.26	24.02	13.20	-626.80	-638.43	494.02	463.06	30.96	15.956 SF		
3,900.00	3,124.84	4,223.98	3,577.93	22.04	22.35	14.36	-610.66	-716.91	521.75	489.48	32.27	16.168		
4,000.00	3,120.96	4,144.77	3,579.46	23.88	20.77	15.65	-592.55	-794.01	552.29	518.96	33.33	16.570		
4,100.00	3,117.07	4,048.58	3,579.76	25.76	18.88	14.14	-567.04	-886.71	584.53	550.34	34.18	17.099		
4,200.00	3,113.17	3,933.42	3,564.89	27.67	16.59	10.89	-526.21	-993.15	613.87	578.67	35.19	17.443		
4,300.00	3,109.26	3,837.02	3,538.33	29.62	14.74	11.43	-483.74	-1,075.38	642.09	605.88	36.21	17.732		
4,400.00	3,105.37	3,758.30	3,507.64	31.58	13.30	14.28	-444.34	-1,136.15	672.05	635.13	36.92	18.204		
4,500.00	3,101.47	3,694.28	3,477.12	33.57	12.77	18.33	-409.71	-1,180.47	705.60	668.38	37.22	18.956		
4,600.00	3,097.60	3,641.80	3,448.68	35.57	12.63	22.89	-379.93	-1,212.97	743.67	706.45	37.22	19.980		
4,700.00	3,093.74	3,584.65	3,415.91	37.57	12.48	26.66	-346.83	-1,246.08	786.04	748.87	37.17	21.146		
4,800.00	3,089.90	3,524.92	3,381.65	39.54	12.32	29.79	-312.23	-1,280.68	831.76	794.79	36.98	22.495		
4,900.00	3,086.06	3,464.92	3,347.24	41.53	12.17	32.46	-277.48	-1,315.44	882.05	845.32	36.72	24.018		
5,000.00	3,082.22	3,383.59	3,298.92	43.55	11.88	33.75	-231.24	-1,361.68	936.10	899.27	36.83	25.419		

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

Stryker Directional
Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	3,078.38	3,298.54	3,241.22	45.60	11.45	35.02	-187.11	-1,405.80	992.17	955.26	36.91	26.879		
5,200.00	3,074.54	3,228.89	3,188.72	47.67	11.05	37.04	-154.77	-1,438.14	1,050.97	1,014.24	36.73	28.610		
5,300.00	3,070.71	3,171.81	3,142.55	49.76	10.68	39.44	-131.06	-1,461.85	1,112.99	1,076.64	36.35	30.615		
5,400.00	3,066.87	3,124.73	3,102.55	51.88	10.36	41.98	-113.51	-1,479.40	1,178.36	1,142.51	35.85	32.870		
5,500.00	3,063.03	3,085.56	3,068.09	54.01	10.08	44.54	-100.36	-1,492.56	1,247.00	1,211.73	35.27	35.353		
5,600.00	3,059.19	3,052.64	3,038.38	56.15	9.83	47.02	-90.34	-1,502.57	1,318.69	1,284.02	34.66	38.044		
5,700.00	3,055.36	3,024.70	3,012.67	58.31	9.62	49.37	-82.60	-1,510.31	1,393.16	1,359.11	34.05	40.915		
5,800.00	3,051.52	3,000.00	2,989.60	60.48	9.42	51.56	-76.36	-1,516.55	1,470.13	1,436.69	33.44	43.957		
5,900.00	3,047.68	2,980.05	2,970.76	62.67	9.26	53.61	-71.73	-1,521.18	1,549.34	1,516.48	32.86	47.150		
6,000.00	3,043.84	2,962.00	2,953.55	64.86	9.11	55.51	-67.86	-1,525.05	1,630.53	1,598.22	32.30	50.477		
6,100.00	3,040.00	2,950.00	2,942.05	67.06	9.01	57.29	-65.46	-1,527.45	1,713.47	1,681.71	31.76	53.946		
6,200.00	3,036.17	2,932.11	2,924.78	69.27	8.86	58.86	-62.14	-1,530.78	1,797.95	1,766.66	31.28	57.473		
6,300.00	3,032.33	2,919.62	2,912.66	71.48	8.75	60.34	-59.99	-1,532.92	1,883.80	1,852.98	30.82	61.119		
6,400.00	3,028.49	2,900.00	2,893.53	73.70	8.58	61.66	-56.94	-1,535.98	1,970.90	1,940.50	30.40	64.838		
6,500.00	3,024.65	2,900.00	2,893.53	75.93	8.58	62.98	-56.94	-1,535.98	2,059.01	2,029.02	29.99	68.660		
6,600.00	3,020.82	2,900.00	2,893.53	78.16	8.58	64.19	-56.94	-1,535.98	2,148.17	2,118.55	29.61	72.540		
6,700.00	3,016.98	2,880.97	2,874.86	80.40	8.47	65.21	-54.32	-1,538.59	2,238.07	2,208.78	29.29	76.422		
6,800.00	3,013.14	2,873.42	2,867.43	82.65	8.42	66.21	-53.38	-1,539.53	2,328.78	2,299.81	28.97	80.380		
6,900.00	3,009.30	2,866.50	2,860.60	84.89	8.38	67.14	-52.57	-1,540.34	2,420.18	2,391.50	28.68	84.380		

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	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	-90.15	-4.10	-1,609.06	1,609.06					
100.00	100.00	101.00	100.00	0.93	0.93	-90.15	-4.10	-1,609.06	1,609.06	1,607.20	1.86	863.370		
200.00	200.00	201.00	200.00	1.51	1.51	-90.15	-4.10	-1,609.06	1,609.06	1,606.05	3.02	533.121		
300.00	300.00	301.00	300.00	1.94	1.94	-90.15	-4.10	-1,609.06	1,609.06	1,605.18	3.88	414.549		
400.00	400.00	401.00	400.00	2.30	2.29	-90.15	-4.10	-1,609.06	1,609.06	1,604.47	4.59	350.502		
500.00	500.00	501.00	500.00	2.61	2.60	-90.15	-4.10	-1,609.06	1,609.06	1,603.85	5.21	308.882		
600.00	600.00	601.00	600.00	2.88	2.88	-90.15	-4.10	-1,609.06	1,609.06	1,603.30	5.77	279.039		
700.00	700.00	701.00	700.00	3.14	3.14	-90.15	-4.10	-1,609.06	1,609.06	1,602.79	6.28	256.279		
800.00	800.00	801.00	800.00	3.38	3.38	-90.15	-4.10	-1,609.06	1,609.06	1,602.31	6.76	238.173		
900.00	900.00	901.00	900.00	3.60	3.60	-90.15	-4.10	-1,609.06	1,609.06	1,601.86	7.21	223.316		
1,000.00	1,000.00	1,001.00	1,000.00	3.82	3.82	-90.15	-4.10	-1,609.06	1,609.06	1,601.43	7.63	210.837		
1,100.00	1,100.00	1,101.00	1,100.00	4.02	4.02	-90.15	-4.10	-1,609.06	1,609.06	1,601.02	8.04	200.157		
1,200.00	1,200.00	1,201.00	1,200.00	4.22	4.21	-90.15	-4.10	-1,609.06	1,609.06	1,600.63	8.43	190.880		
1,300.00	1,300.00	1,301.00	1,300.00	4.40	4.40	-90.15	-4.10	-1,609.06	1,609.06	1,600.26	8.81	182.721		
1,400.00	1,400.00	1,401.00	1,400.00	4.59	4.58	-90.15	-4.10	-1,609.06	1,609.06	1,599.89	9.17	175.471		
1,500.00	1,500.00	1,501.39	1,500.39	4.76	4.76	-90.15	-4.10	-1,609.06	1,609.06	1,599.54	9.52	168.964		
1,600.00	1,599.98	1,640.13	1,639.07	4.96	5.20	-90.20	-7.07	-1,607.35	1,607.09	1,597.18	9.91	162.128		
1,700.00	1,699.84	1,756.66	1,755.36	5.58	5.76	-90.26	-13.57	-1,603.59	1,601.62	1,591.23	10.39	154.176		
1,800.00	1,799.59	1,856.46	1,854.91	5.89	5.99	-90.25	-19.60	-1,600.11	1,595.19	1,584.48	10.71	148.952		
1,900.00	1,899.35	1,956.25	1,954.46	6.06	6.17	-90.24	-25.63	-1,596.63	1,588.76	1,577.77	10.99	144.570		
2,000.00	1,999.11	4,650.75	3,167.75	6.25	38.34	-175.52	-977.69	-86.48	1,509.42	1,480.80	28.62	52.742		
2,100.00	2,098.86	4,646.61	3,167.76	6.45	38.25	-175.41	-977.34	-90.61	1,429.23	1,399.62	29.61	48.261		
2,200.00	2,198.62	4,642.50	3,167.78	6.67	38.17	-175.31	-976.99	-94.70	1,351.68	1,320.95	30.73	43.992		
2,300.00	2,298.38	4,638.42	3,167.79	6.90	38.08	-175.21	-976.64	-98.77	1,277.24	1,245.28	31.96	39.966		
2,400.00	2,397.66	4,632.16	3,167.81	7.34	37.95	-175.06	-976.09	-105.00	1,203.63	1,170.29	33.34	36.103		
2,500.00	2,494.47	4,619.37	3,167.86	8.24	37.69	-174.79	-974.93	-117.74	1,125.38	1,090.60	34.78	32.357		
2,600.00	2,586.88	4,600.60	3,167.93	9.06	37.30	-174.40	-973.11	-136.42	1,042.73	1,006.76	35.97	28.985		
2,700.00	2,673.11	4,576.86	3,168.01	9.78	36.81	-173.91	-970.64	-160.03	956.14	919.22	36.93	25.893		
2,800.00	2,751.48	4,549.32	3,168.11	10.40	36.24	-173.35	-967.53	-187.40	866.09	828.46	37.63	23.016		
2,900.00	2,820.45	4,519.18	3,168.22	10.91	35.61	-172.74	-963.83	-217.31	773.13	735.06	38.07	20.308		
3,000.00	2,879.71	4,487.87	3,168.33	11.26	34.96	-172.11	-959.64	-248.34	678.12	639.87	38.25	17.726		
3,100.00	2,937.06	4,458.15	3,168.43	11.49	34.35	-171.50	-955.36	-277.74	583.04	544.52	38.52	15.136		
3,200.00	2,993.73	4,428.76	3,168.54	11.74	33.74	-170.91	-950.82	-306.78	488.73	449.76	38.97	12.541		
3,300.00	3,043.27	4,386.74	3,168.69	12.09	32.87	-170.06	-943.82	-348.21	397.67	358.37	39.30	10.119		
3,400.00	3,082.95	4,331.48	3,168.88	13.50	31.72	-168.94	-933.69	-402.54	311.73	272.38	39.35	7.922		
3,500.00	3,111.56	4,265.57	3,169.12	15.16	30.36	-167.62	-920.24	-467.06	232.16	193.12	39.04	5.947		
3,600.00	3,128.22	4,191.52	3,169.38	16.87	28.84	-166.14	-903.36	-539.16	160.11	122.03	38.08	4.205		
3,700.00	3,132.44	4,111.63	3,169.67	18.62	27.20	-164.57	-883.06	-616.43	97.95	62.77	35.18	2.784		
3,800.00	3,128.71	4,029.58	3,169.96	20.26	25.53	-163.11	-859.99	-695.16	51.68	26.58	25.10	2.059		
3,847.59	3,126.87	3,990.98	3,170.10	21.10	24.76	-164.95	-848.35	-731.96	43.33	19.68	23.65	1.832 CC		
3,900.00	3,124.84	3,948.80	3,170.25	22.04	23.91	19.10	-835.08	-772.00	53.20	19.49	33.72	1.578 ES, SF		
4,000.00	3,120.96	3,869.24	3,170.53	23.88	22.33	20.48	-808.43	-846.96	99.30	60.19	39.11	2.539		
4,100.00	3,117.07	3,790.82	3,170.81	25.76	20.78	22.01	-780.14	-920.10	153.46	114.34	39.12	3.922		
4,200.00	3,113.17	3,713.46	3,171.08	27.67	19.22	23.54	-750.28	-991.46	209.01	170.43	38.57	5.418		
4,300.00	3,109.26	3,643.30	3,169.18	29.62	17.86	26.44	-720.44	-1,054.89	265.41	227.61	37.80	7.022		
4,400.00	3,105.37	3,579.92	3,161.96	31.58	16.64	29.93	-689.50	-1,109.69	324.12	287.30	36.82	8.803		
4,500.00	3,101.47	3,522.53	3,150.89	33.57	15.56	33.62	-658.48	-1,156.66	385.36	349.67	35.69	10.797		
4,600.00	3,097.60	3,470.87	3,137.34	35.57	14.60	37.38	-628.39	-1,196.38	449.12	414.65	34.47	13.029		
4,700.00	3,093.74	3,424.48	3,122.37	37.57	13.76	41.09	-599.83	-1,229.71	515.24	482.03	33.21	15.516		
4,800.00	3,089.90	3,382.96	3,106.79	39.54	13.01	44.67	-573.18	-1,257.48	583.79	551.91	31.88	18.311		
4,900.00	3,086.06	3,350.00	3,093.03	41.53	12.46	48.26	-551.41	-1,278.02	656.26	625.65	30.61	21.438		
5,000.00	3,082.22	3,315.01	3,077.11	43.55	12.07	51.02	-527.77	-1,298.31	732.34	702.75	29.60	24.744		

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	3,078.38	3,300.00	3,069.89	45.60	12.04	54.52	-517.48	-1,306.51	811.75	783.34	28.40	28.580		
5,200.00	3,074.54	3,250.00	3,044.18	47.67	11.88	55.48	-482.71	-1,331.58	893.57	865.75	27.81	32.126		
5,300.00	3,070.71	3,250.00	3,044.18	49.76	11.88	58.80	-482.71	-1,331.58	977.46	950.60	26.86	36.388		
5,400.00	3,066.87	3,211.81	3,022.93	51.88	11.78	59.87	-455.74	-1,348.31	1,063.40	1,036.94	26.47	40.181		
5,500.00	3,063.03	3,195.90	3,013.81	54.01	11.74	61.72	-444.46	-1,354.82	1,150.67	1,124.73	25.94	44.357		
5,600.00	3,059.19	3,152.87	2,989.13	56.15	11.63	62.27	-413.93	-1,372.44	1,238.67	1,212.89	25.77	48.060		
5,700.00	3,055.36	3,109.84	2,964.45	58.31	11.53	62.76	-383.41	-1,390.07	1,326.97	1,301.33	25.64	51.753		
5,800.00	3,051.52	3,066.81	2,939.77	60.48	11.43	63.18	-352.88	-1,407.69	1,415.52	1,389.92	25.60	55.297		
5,900.00	3,047.68	3,023.79	2,915.09	62.67	11.32	63.55	-322.36	-1,425.31	1,504.27	1,478.67	25.60	58.755		
6,000.00	3,043.84	2,987.20	2,893.76	64.86	11.20	64.08	-296.62	-1,440.17	1,593.26	1,567.67	25.59	62.256		
6,100.00	3,040.00	2,950.00	2,870.63	67.06	11.03	64.58	-271.39	-1,454.74	1,682.65	1,657.04	25.61	65.701		
6,200.00	3,036.17	2,924.36	2,853.82	69.27	10.91	65.34	-254.63	-1,464.42	1,772.43	1,746.90	25.53	69.432		
6,300.00	3,032.33	2,900.00	2,837.21	71.48	10.78	66.08	-239.19	-1,473.33	1,862.64	1,837.20	25.44	73.221		
6,400.00	3,028.49	2,868.99	2,815.21	73.70	10.61	66.63	-220.26	-1,484.26	1,953.24	1,927.79	25.46	76.728		
6,500.00	3,024.65	2,850.00	2,801.29	75.93	10.51	67.38	-209.09	-1,490.71	2,044.27	2,018.92	25.35	80.647		
6,600.00	3,020.82	2,820.37	2,778.88	78.16	10.33	67.90	-192.30	-1,500.40	2,135.67	2,110.29	25.38	84.149		
6,700.00	3,016.98	2,800.00	2,763.02	80.40	10.21	68.54	-181.23	-1,506.80	2,227.46	2,202.15	25.32	87.983		
6,800.00	3,013.14	2,777.73	2,745.27	82.65	10.06	69.11	-169.57	-1,513.52	2,319.63	2,294.33	25.30	91.697		
6,900.00	3,009.30	2,750.00	2,722.61	84.89	9.88	69.59	-155.75	-1,521.51	2,412.17	2,386.84	25.32	95.249		

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	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	0.66	80.04	0.92	80.04					
100.00	100.00	100.00	100.00	0.93	0.93	0.66	80.04	0.92	80.04	78.18	1.87	42.863		
200.00	200.00	200.00	200.00	1.51	1.51	0.66	80.04	0.92	80.04	77.02	3.02	26.500		
300.00	300.00	300.00	300.00	1.94	1.94	0.66	80.04	0.92	80.04	76.16	3.88	20.613		
400.00	400.00	400.00	400.00	2.30	2.30	0.66	80.04	0.92	80.04	75.45	4.59	17.431		
500.00	500.00	500.00	500.00	2.61	2.61	0.66	80.04	0.92	80.04	74.83	5.21	15.362		
600.00	600.00	600.00	600.00	2.88	2.88	0.66	80.04	0.92	80.04	74.28	5.77	13.879		
700.00	700.00	700.00	700.00	3.14	3.14	0.66	80.04	0.92	80.04	73.76	6.28	12.747		
800.00	800.00	800.00	800.00	3.38	3.38	0.66	80.04	0.92	80.04	73.29	6.76	11.847		
900.00	900.00	900.00	900.00	3.60	3.60	0.66	80.04	0.92	80.04	72.84	7.21	11.108		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	0.66	80.04	0.92	80.04	72.41	7.63	10.487		
1,100.00	1,100.00	1,100.00	1,100.00	4.02	4.02	0.66	80.04	0.92	80.04	72.00	8.04	9.956		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	0.66	80.04	0.92	80.04	71.61	8.43	9.495		
1,300.00	1,300.00	1,300.00	1,300.00	4.40	4.40	0.66	80.04	0.92	80.04	71.24	8.81	9.089		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	0.66	80.04	0.92	80.04	70.87	9.17	8.728		
1,500.00	1,500.00	1,500.00	1,500.00	4.76	4.76	0.66	80.04	0.92	80.04	70.52	9.52	8.405 CC, ES		
1,600.00	1,599.98	1,597.56	1,597.54	4.96	5.09	0.57	81.48	0.08	83.10	73.10	10.00	8.311		
1,700.00	1,699.84	1,694.58	1,694.43	5.58	5.71	0.35	85.76	-2.39	92.24	81.21	11.03	8.360		
1,800.00	1,799.59	1,793.67	1,793.27	5.89	6.05	0.03	91.74	-5.84	104.58	92.96	11.62	9.002		
1,900.00	1,899.35	1,892.90	1,892.27	6.06	6.25	-0.22	97.74	-9.30	116.92	104.95	11.97	9.766		
2,000.00	1,999.11	1,992.13	1,991.26	6.25	6.46	-0.43	103.73	-12.76	129.26	116.92	12.35	10.470		
2,100.00	2,098.86	2,091.37	2,090.25	6.45	6.68	-0.60	109.72	-16.22	141.61	128.86	12.74	11.112		
2,200.00	2,198.62	2,190.60	2,189.24	6.67	6.91	-0.74	115.72	-19.69	153.95	140.79	13.16	11.698		
2,300.00	2,298.38	2,276.25	2,274.38	6.90	7.28	-1.21	123.50	-24.18	169.50	155.89	13.61	12.456		
2,400.00	2,397.66	2,350.00	2,346.43	7.34	7.93	-1.96	137.01	-31.98	198.39	184.11	14.28	13.890		
2,500.00	2,494.47	2,422.69	2,415.50	8.24	8.55	-1.80	156.53	-43.25	246.61	231.30	15.31	16.111		
2,600.00	2,586.88	2,479.34	2,467.54	9.06	9.00	-0.49	175.89	-54.43	311.11	295.13	15.98	19.473		
2,700.00	2,673.11	2,523.58	2,506.85	9.78	9.33	1.42	193.46	-64.57	388.13	371.69	16.44	23.610		
2,800.00	2,751.48	2,550.00	2,529.70	10.40	9.52	3.87	204.93	-71.19	474.27	457.66	16.61	28.548		
2,900.00	2,820.45	2,578.14	2,553.49	10.91	9.71	5.90	217.95	-78.71	566.32	549.36	16.97	33.380		
3,000.00	2,879.71	2,600.00	2,571.55	11.26	9.86	7.77	228.62	-84.87	661.92	644.65	17.28	38.307		
3,100.00	2,937.06	2,600.00	2,571.55	11.49	9.86	9.86	228.62	-84.87	758.39	741.23	17.17	44.181		
3,200.00	2,993.73	2,612.53	2,581.73	11.74	9.93	11.24	234.94	-88.52	855.26	837.95	17.32	49.386		
3,300.00	3,043.27	2,621.03	2,588.56	12.09	9.99	13.31	239.32	-91.05	949.77	932.31	17.46	54.398		
3,400.00	3,082.95	2,628.24	2,594.30	13.50	10.03	15.92	243.09	-93.22	1,039.88	1,022.26	17.62	59.022		
3,500.00	3,111.56	2,634.26	2,599.08	15.16	10.07	18.88	246.28	-95.07	1,124.26	1,106.46	17.80	63.174		
3,600.00	3,128.22	2,650.00	2,611.38	16.87	10.17	21.75	254.77	-99.97	1,201.95	1,183.76	18.19	66.072		
3,700.00	3,132.44	2,650.00	2,611.38	18.62	10.17	25.11	254.77	-99.97	1,271.80	1,253.41	18.39	69.175		
3,800.00	3,128.71	2,650.00	2,611.38	20.26	10.17	28.38	254.77	-99.97	1,337.29	1,318.82	18.47	72.387		
3,900.00	3,124.84	2,650.00	2,611.38	22.04	10.17	31.39	254.77	-99.97	1,404.68	1,386.03	18.65	75.337		
4,000.00	3,120.96	2,650.00	2,611.38	23.88	10.17	34.19	254.77	-99.97	1,473.72	1,454.87	18.84	78.220		
4,100.00	3,117.07	2,664.07	2,622.20	25.76	10.25	36.48	262.56	-104.46	1,543.97	1,524.68	19.28	80.074		
4,200.00	3,113.17	2,672.36	2,628.50	27.67	10.30	38.75	267.24	-107.16	1,615.26	1,595.63	19.63	82.267		
4,300.00	3,109.26	2,682.06	2,635.78	29.62	10.35	40.87	272.78	-110.37	1,687.32	1,667.30	20.02	84.288		
4,400.00	3,105.37	2,700.00	2,649.02	31.58	10.46	42.69	283.27	-116.42	1,759.94	1,739.39	20.55	85.633		
4,500.00	3,101.47	2,700.00	2,649.02	33.57	10.46	44.81	283.27	-116.42	1,832.88	1,812.09	20.78	88.184		
4,600.00	3,097.60	2,720.84	2,664.00	35.57	10.57	46.41	295.81	-123.66	1,905.97	1,884.57	21.40	89.047		
4,700.00	3,093.74	4,517.99	2,994.92	37.57	38.48	0.00	951.77	-1,567.77	1,941.86	1,871.54	70.32	27.613		
4,800.00	3,089.90	4,617.98	2,992.30	39.54	40.48	0.00	951.64	-1,667.72	1,942.27	1,867.71	74.56	26.049		
4,900.00	3,086.06	4,717.98	2,989.68	41.53	42.52	0.00	951.51	-1,767.68	1,942.22	1,863.38	78.84	24.635		
5,000.00	3,082.22	4,817.97	2,987.05	43.55	44.59	0.00	951.37	-1,867.64	1,942.17	1,859.01	83.16	23.354		
5,100.00	3,078.38	4,917.96	2,984.43	45.60	46.67	0.00	951.24	-1,967.59	1,942.12	1,854.60	87.51	22.192		

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

Stryker Directional
Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	3,074.54	5,017.95	2,981.81	47.67	48.78	0.00	951.11	-2,067.55	1,942.07	1,850.17	91.90	21.133		
5,300.00	3,070.71	5,117.95	2,979.19	49.76	50.91	0.00	950.98	-2,167.51	1,942.02	1,845.71	96.31	20.165		
5,400.00	3,066.87	5,217.94	2,976.56	51.88	53.05	-0.01	950.85	-2,267.47	1,941.97	1,841.23	100.73	19.278		
5,500.00	3,063.03	5,317.93	2,973.94	54.01	55.21	-0.01	950.71	-2,367.43	1,941.92	1,836.74	105.18	18.462		
5,600.00	3,059.19	5,417.92	2,971.32	56.15	57.37	-0.01	950.58	-2,467.39	1,941.87	1,832.22	109.65	17.710		
5,700.00	3,055.36	5,517.92	2,968.69	58.31	59.56	-0.01	950.45	-2,567.34	1,941.82	1,827.70	114.13	17.015		
5,800.00	3,051.52	5,617.91	2,966.07	60.48	61.75	-0.01	950.32	-2,667.30	1,941.78	1,823.16	118.62	16.370		
5,900.00	3,047.68	5,717.90	2,963.45	62.67	63.95	-0.01	950.19	-2,767.26	1,941.73	1,818.61	123.12	15.771		
6,000.00	3,043.84	5,817.89	2,960.83	64.86	66.15	-0.01	950.05	-2,867.22	1,941.69	1,814.05	127.64	15.212		
6,100.00	3,040.00	5,917.89	2,958.20	67.06	68.37	-0.01	949.92	-2,967.18	1,941.65	1,809.48	132.16	14.691		
6,200.00	3,036.17	6,017.88	2,955.58	69.27	70.59	-0.01	949.79	-3,067.13	1,941.60	1,804.91	136.69	14.204		
6,300.00	3,032.33	6,117.87	2,952.96	71.48	72.82	-0.01	949.66	-3,167.09	1,941.56	1,800.33	141.23	13.747		
6,400.00	3,028.49	6,217.86	2,950.33	73.70	75.06	-0.02	949.53	-3,267.05	1,941.52	1,795.74	145.78	13.318		
6,500.00	3,024.65	6,317.86	2,947.71	75.93	77.30	-0.02	949.39	-3,367.01	1,941.48	1,791.14	150.34	12.914		
6,600.00	3,020.82	6,417.85	2,945.09	78.16	79.54	-0.02	949.26	-3,466.97	1,941.44	1,786.54	154.89	12.534		
6,700.00	3,016.98	6,517.84	2,942.47	80.40	81.79	-0.02	949.13	-3,566.92	1,941.40	1,781.94	159.46	12.175		
6,800.00	3,013.14	6,617.84	2,939.84	82.65	84.04	-0.02	949.00	-3,666.88	1,941.36	1,777.33	164.03	11.836		
6,900.00	3,009.30	6,717.83	2,937.22	84.89	86.30	-0.02	948.87	-3,766.84	1,941.32	1,772.72	168.60	11.514		
7,000.00	3,005.46	6,817.82	2,934.60	87.15	88.56	-0.02	948.73	-3,866.80	1,941.29	1,768.11	173.18	11.210		
7,100.00	3,001.63	6,917.81	2,931.98	89.40	90.82	-0.02	948.60	-3,966.76	1,941.25	1,763.49	177.76	10.921		
7,200.00	2,997.79	7,017.81	2,929.35	91.66	93.09	-0.02	948.47	-4,066.72	1,941.21	1,758.87	182.35	10.646		
7,300.00	2,993.95	7,117.80	2,926.73	93.92	95.36	-0.02	948.34	-4,166.67	1,941.18	1,754.25	186.93	10.384		
7,400.00	2,990.11	7,217.79	2,924.11	96.19	97.63	-0.02	948.21	-4,266.63	1,941.15	1,749.62	191.53	10.135		
7,500.00	2,986.27	7,317.78	2,921.48	98.45	99.90	-0.03	948.07	-4,366.59	1,941.11	1,744.99	196.12	9.898		
7,600.00	2,982.44	7,417.78	2,918.86	100.72	102.18	-0.03	947.94	-4,466.55	1,941.08	1,740.36	200.72	9.671		
7,700.00	2,978.60	7,517.77	2,916.24	103.00	104.46	-0.03	947.81	-4,566.51	1,941.05	1,735.73	205.32	9.454		
7,800.00	2,974.76	7,617.76	2,913.62	105.27	106.74	-0.03	947.68	-4,666.46	1,941.02	1,731.10	209.92	9.247		
7,900.00	2,970.92	7,717.75	2,910.99	107.55	109.02	-0.03	947.55	-4,766.42	1,940.99	1,726.47	214.52	9.048		
8,000.00	2,967.09	7,817.75	2,908.37	109.83	111.31	-0.03	947.41	-4,866.38	1,940.96	1,721.83	219.13	8.858		
8,100.00	2,963.25	7,917.74	2,905.75	112.11	113.59	-0.03	947.28	-4,966.34	1,940.93	1,717.20	223.74	8.675		
8,200.00	2,959.41	8,017.73	2,903.12	114.39	115.88	-0.03	947.15	-5,066.30	1,940.90	1,712.56	228.34	8.500		
8,300.00	2,955.57	8,117.72	2,900.50	116.67	118.17	-0.03	947.02	-5,166.25	1,940.88	1,707.92	232.96	8.332		
8,400.00	2,951.73	8,217.72	2,897.88	118.96	120.46	-0.03	946.89	-5,266.21	1,940.85	1,703.28	237.57	8.170		
8,500.00	2,947.90	8,317.71	2,895.26	121.25	122.75	-0.03	946.75	-5,366.17	1,940.82	1,698.64	242.18	8.014		
8,600.00	2,944.06	8,417.70	2,892.63	123.53	125.04	-0.04	946.62	-5,466.13	1,940.80	1,694.00	246.80	7.864		
8,700.00	2,940.22	8,517.70	2,890.01	125.82	127.33	-0.04	946.49	-5,566.09	1,940.78	1,689.36	251.42	7.719		
8,800.00	2,936.38	8,617.69	2,887.39	128.11	129.63	-0.04	946.36	-5,666.05	1,940.75	1,684.72	256.03	7.580		
8,900.00	2,932.55	8,717.68	2,884.76	130.41	131.92	-0.04	946.23	-5,766.00	1,940.73	1,680.08	260.65	7.446		
9,000.00	2,928.71	8,817.67	2,882.14	132.70	134.22	-0.04	946.09	-5,865.96	1,940.71	1,675.44	265.27	7.316		
9,100.00	2,924.87	8,917.67	2,879.52	134.99	136.52	-0.04	945.96	-5,965.92	1,940.69	1,670.79	269.89	7.191		
9,121.15	2,924.06	8,938.43	2,878.97	135.48	137.00	-0.03	945.93	-5,986.67	1,940.68	1,669.83	270.85	7.165		
9,148.72	2,923.00	8,938.43	2,878.97	136.11	137.00	0.78	945.93	-5,986.67	1,940.88	1,669.42	271.46	7.150 SF		

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	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	0.44	40.02	0.30	40.02					
100.00	100.00	100.00	100.00	0.93	0.94	0.44	40.02	0.30	40.02	38.15	1.87	21.400		
200.00	200.00	200.00	200.00	1.51	1.51	0.44	40.02	0.30	40.02	37.00	3.02	13.241		
300.00	300.00	300.00	300.00	1.94	1.94	0.44	40.02	0.30	40.02	36.14	3.88	10.302		
400.00	400.00	400.00	400.00	2.30	2.30	0.44	40.02	0.30	40.02	35.43	4.59	8.713		
500.00	500.00	500.00	500.00	2.61	2.61	0.44	40.02	0.30	40.02	34.81	5.21	7.679		
600.00	600.00	600.00	600.00	2.88	2.88	0.44	40.02	0.30	40.02	34.25	5.77	6.938		
700.00	700.00	700.00	700.00	3.14	3.14	0.44	40.02	0.30	40.02	33.74	6.28	6.372		
800.00	800.00	800.00	800.00	3.38	3.38	0.44	40.02	0.30	40.02	33.26	6.76	5.922		
900.00	900.00	900.00	900.00	3.60	3.60	0.44	40.02	0.30	40.02	32.81	7.21	5.553		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	0.44	40.02	0.30	40.02	32.39	7.63	5.243		
1,100.00	1,100.00	1,100.00	1,100.00	4.02	4.02	0.44	40.02	0.30	40.02	31.98	8.04	4.977		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	0.44	40.02	0.30	40.02	31.59	8.43	4.747		
1,300.00	1,300.00	1,300.00	1,300.00	4.40	4.40	0.44	40.02	0.30	40.02	31.21	8.81	4.544		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	0.44	40.02	0.30	40.02	30.85	9.17	4.364		
1,500.00	1,500.00	1,500.00	1,500.00	4.76	4.76	0.44	40.02	0.30	40.02	30.50	9.52	4.202 CC, ES		
1,600.00	1,599.98	1,599.98	1,599.98	4.96	4.93	1.43	40.02	0.30	41.61	31.74	9.87	4.215		
1,700.00	1,699.84	1,699.84	1,699.84	5.58	5.10	4.02	40.02	0.30	46.46	35.85	10.61	4.380		
1,800.00	1,799.59	1,799.59	1,799.59	5.89	5.26	6.72	40.02	0.30	53.03	41.95	11.08	4.785		
1,900.00	1,899.35	1,899.35	1,899.35	6.06	5.42	8.82	40.02	0.30	59.69	48.27	11.42	5.225		
2,000.00	1,999.11	1,999.11	1,999.11	6.25	5.58	10.49	40.02	0.30	66.42	54.65	11.78	5.641		
2,100.00	2,098.86	2,098.86	2,098.86	6.45	5.73	11.86	40.02	0.30	73.20	61.06	12.14	6.031		
2,200.00	2,198.62	2,198.62	2,198.62	6.67	5.88	13.00	40.02	0.30	80.00	67.50	12.51	6.396		
2,300.00	2,298.38	2,300.01	2,299.98	6.90	6.01	13.18	39.91	-0.92	86.46	73.64	12.82	6.746		
2,400.00	2,397.66	2,402.68	2,401.70	7.34	6.87	6.87	38.69	-14.20	93.98	80.73	13.26	7.089		
2,500.00	2,494.47	2,501.18	2,496.54	8.24	7.66	-2.29	36.28	-40.42	113.36	99.44	13.92	8.142		
2,600.00	2,586.88	2,593.34	2,581.22	9.06	8.32	-9.63	32.97	-76.46	146.55	132.11	14.44	10.149		
2,700.00	2,673.11	2,677.96	2,654.30	9.78	8.85	-13.74	29.07	-118.83	192.64	177.64	15.00	12.847		
2,800.00	2,751.48	2,754.69	2,715.82	10.40	9.28	-15.25	24.88	-164.44	249.48	233.82	15.66	15.929		
2,900.00	2,820.45	2,823.84	2,766.78	10.91	9.62	-15.12	20.61	-210.94	314.81	298.34	16.47	19.109		
3,000.00	2,879.71	2,886.40	2,808.82	11.26	9.89	-14.17	16.37	-257.05	386.32	368.94	17.38	22.227		
3,100.00	2,937.06	2,945.57	2,844.71	11.49	10.11	-13.50	12.07	-303.87	459.95	441.63	18.32	25.103		
3,200.00	2,993.73	3,012.96	2,883.37	11.74	10.24	-13.76	7.02	-358.85	533.70	514.15	19.54	27.307		
3,300.00	3,043.27	3,086.25	2,925.41	12.09	10.36	-13.30	1.52	-418.63	601.12	579.79	21.32	28.189		
3,400.00	3,082.95	3,159.13	2,967.08	13.50	11.11	-11.83	-3.92	-478.17	659.72	636.38	23.34	28.264		
3,500.00	3,111.56	3,217.72	2,997.02	15.16	12.01	-8.99	-7.88	-528.35	710.58	685.29	25.29	28.099		
3,600.00	3,128.22	3,279.65	3,022.97	16.87	13.07	-6.33	-11.37	-584.43	753.70	726.17	27.53	27.377		
3,700.00	3,132.44	3,350.00	3,044.96	18.62	14.37	-4.31	-14.43	-651.14	788.38	758.15	30.23	26.083		
3,800.00	3,128.71	3,415.44	3,058.00	20.26	15.67	-2.05	-16.38	-715.21	817.40	784.62	32.79	24.930		
3,900.00	3,124.84	3,488.85	3,063.88	22.04	17.18	-0.49	-17.49	-788.32	846.02	810.29	35.73	23.675		
4,000.00	3,120.96	3,577.02	3,061.79	23.88	19.04	0.04	-17.70	-876.46	873.34	834.12	39.23	22.265		
4,100.00	3,117.07	3,674.03	3,058.74	25.76	21.12	0.03	-17.84	-973.42	897.48	854.34	43.13	20.808		
4,200.00	3,113.17	3,771.83	3,055.68	27.67	23.25	0.03	-17.98	-1,071.17	918.22	871.05	47.17	19.465		
4,300.00	3,109.26	3,870.29	3,052.59	29.62	25.43	0.03	-18.12	-1,169.58	935.56	884.23	51.32	18.229		
4,400.00	3,105.37	3,969.30	3,049.48	31.58	27.63	0.02	-18.26	-1,268.54	949.45	893.89	55.56	17.088		
4,500.00	3,101.47	4,068.74	3,046.36	33.57	29.86	0.02	-18.41	-1,367.93	959.90	900.02	59.87	16.032		
4,600.00	3,097.60	4,168.48	3,043.23	35.57	32.11	0.02	-18.55	-1,467.63	966.87	902.63	64.24	15.050		
4,700.00	3,093.74	4,268.41	3,040.10	37.57	34.37	0.02	-18.69	-1,567.51	970.37	901.71	68.65	14.134		
4,800.00	3,089.90	4,368.41	3,036.96	39.54	36.64	0.02	-18.84	-1,667.45	970.79	897.75	73.04	13.292		
4,900.00	3,086.06	4,468.41	3,033.82	41.53	38.91	0.01	-18.98	-1,767.40	970.75	893.31	77.44	12.535		
5,000.00	3,082.22	4,568.40	3,030.69	43.55	41.19	0.01	-19.12	-1,867.35	970.71	888.83	81.87	11.856		
5,100.00	3,078.38	4,668.40	3,027.55	45.60	43.48	0.01	-19.27	-1,967.30	970.67	884.33	86.33	11.244		

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	3,074.54	4,768.40	3,024.41	47.67	45.77	0.01	-19.41	-2,067.25	970.62	879.82	90.81	10.689		
5,300.00	3,070.71	4,868.40	3,021.28	49.76	48.06	0.01	-19.56	-2,167.20	970.58	875.29	95.30	10.185		
5,400.00	3,066.87	4,968.39	3,018.14	51.88	50.36	0.01	-19.70	-2,267.14	970.55	870.74	99.80	9.724		
5,500.00	3,063.03	5,068.39	3,015.00	54.01	52.66	0.01	-19.84	-2,367.09	970.51	866.18	104.32	9.303		
5,600.00	3,059.19	5,168.39	3,011.87	56.15	54.96	0.01	-19.99	-2,467.04	970.47	861.61	108.85	8.915		
5,700.00	3,055.36	5,268.39	3,008.73	58.31	57.26	0.00	-20.13	-2,566.99	970.43	857.04	113.39	8.558		
5,800.00	3,051.52	5,368.38	3,005.59	60.48	59.57	0.00	-20.28	-2,666.94	970.39	852.45	117.94	8.228		
5,900.00	3,047.68	5,468.38	3,002.45	62.67	61.87	0.00	-20.42	-2,766.88	970.36	847.86	122.50	7.921		
6,000.00	3,043.84	5,568.38	2,999.32	64.86	64.18	0.00	-20.56	-2,866.83	970.32	843.26	127.06	7.637		
6,100.00	3,040.00	5,668.38	2,996.18	67.06	66.49	0.00	-20.71	-2,966.78	970.28	838.65	131.63	7.371		
6,200.00	3,036.17	5,768.37	2,993.04	69.27	68.80	0.00	-20.85	-3,066.73	970.25	834.04	136.21	7.123		
6,300.00	3,032.33	5,868.37	2,989.91	71.48	71.11	0.00	-20.99	-3,166.68	970.21	829.42	140.79	6.891		
6,400.00	3,028.49	5,968.37	2,986.77	73.70	73.42	-0.01	-21.14	-3,266.63	970.18	824.81	145.37	6.674		
6,500.00	3,024.65	6,068.37	2,983.63	75.93	75.73	-0.01	-21.28	-3,366.57	970.14	820.18	149.96	6.469		
6,600.00	3,020.82	6,168.36	2,980.50	78.16	78.04	-0.01	-21.43	-3,466.52	970.11	815.56	154.55	6.277		
6,700.00	3,016.98	6,268.36	2,977.36	80.40	80.36	-0.01	-21.57	-3,566.47	970.08	810.93	159.15	6.095		
6,800.00	3,013.14	6,368.36	2,974.22	82.65	82.67	-0.01	-21.71	-3,666.42	970.05	806.30	163.75	5.924		
6,900.00	3,009.30	6,468.36	2,971.08	84.89	84.98	-0.01	-21.86	-3,766.37	970.01	801.66	168.35	5.762		
7,000.00	3,005.46	6,568.35	2,967.95	87.15	87.30	-0.01	-22.00	-3,866.32	969.98	797.02	172.96	5.608		
7,100.00	3,001.63	6,668.35	2,964.81	89.40	89.61	-0.01	-22.15	-3,966.26	969.95	792.39	177.57	5.462		
7,200.00	2,997.79	6,768.35	2,961.67	91.66	91.93	-0.02	-22.29	-4,066.21	969.92	787.74	182.18	5.324		
7,300.00	2,993.95	6,868.35	2,958.54	93.92	94.25	-0.02	-22.43	-4,166.16	969.89	783.10	186.79	5.192		
7,400.00	2,990.11	6,968.34	2,955.40	96.19	96.56	-0.02	-22.58	-4,266.11	969.86	778.46	191.40	5.067		
7,500.00	2,986.27	7,068.34	2,952.26	98.45	98.88	-0.02	-22.72	-4,366.06	969.83	773.81	196.02	4.948		
7,600.00	2,982.44	7,168.34	2,949.12	100.72	101.20	-0.02	-22.87	-4,466.00	969.80	769.17	200.64	4.834		
7,700.00	2,978.60	7,268.34	2,945.99	103.00	103.52	-0.02	-23.01	-4,565.95	969.78	764.52	205.26	4.725		
7,800.00	2,974.76	7,368.33	2,942.85	105.27	105.83	-0.02	-23.15	-4,665.90	969.75	759.87	209.88	4.621		
7,900.00	2,970.92	7,468.33	2,939.71	107.55	108.15	-0.02	-23.30	-4,765.85	969.72	755.22	214.50	4.521		
8,000.00	2,967.09	7,568.33	2,936.58	109.83	110.47	-0.03	-23.44	-4,865.80	969.70	750.57	219.12	4.425		
8,100.00	2,963.25	7,668.33	2,933.44	112.11	112.79	-0.03	-23.59	-4,965.75	969.67	745.92	223.75	4.334		
8,200.00	2,959.41	7,768.32	2,930.30	114.39	115.11	-0.03	-23.73	-5,065.69	969.64	741.27	228.37	4.246		
8,300.00	2,955.57	7,868.32	2,927.17	116.67	117.43	-0.03	-23.87	-5,165.64	969.62	736.62	233.00	4.161		
8,400.00	2,951.73	7,968.32	2,924.03	118.96	119.75	-0.03	-24.02	-5,265.59	969.60	731.97	237.63	4.080		
8,500.00	2,947.90	8,068.32	2,920.89	121.25	122.07	-0.03	-24.16	-5,365.54	969.57	727.31	242.26	4.002		
8,600.00	2,944.06	8,168.31	2,917.75	123.53	124.39	-0.03	-24.31	-5,465.49	969.55	722.66	246.89	3.927		
8,700.00	2,940.22	8,268.31	2,914.62	125.82	126.71	-0.03	-24.45	-5,565.43	969.53	718.01	251.52	3.855		
8,800.00	2,936.38	8,368.31	2,911.48	128.11	129.03	-0.04	-24.59	-5,665.38	969.50	713.35	256.15	3.785		
8,900.00	2,932.55	8,468.31	2,908.34	130.41	131.35	-0.04	-24.74	-5,765.33	969.48	708.70	260.78	3.718		
9,000.00	2,928.71	8,568.30	2,905.21	132.70	133.67	-0.04	-24.88	-5,865.28	969.46	704.04	265.42	3.653		
9,100.00	2,924.87	8,668.30	2,902.07	134.99	135.99	-0.04	-25.02	-5,965.23	969.44	699.39	270.05	3.590		
9,132.92	2,923.61	8,701.22	2,901.04	135.75	136.75	-0.04	-25.07	-5,998.13	969.43	697.86	271.58	3.570		
9,148.72	2,923.00	8,702.39	2,901.00	136.11	136.78	0.82	-25.07	-5,999.30	969.54	697.84	271.70	3.568 SF		

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	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	0.68	59.90	0.71	59.90					
100.00	100.00	100.00	100.00	0.93	0.93	0.68	59.90	0.71	59.90	58.04	1.87	32.079		
200.00	200.00	200.00	200.00	1.51	1.51	0.68	59.90	0.71	59.90	56.88	3.02	19.833		
300.00	300.00	300.00	300.00	1.94	1.94	0.68	59.90	0.71	59.90	56.02	3.88	15.427		
400.00	400.00	400.00	400.00	2.30	2.30	0.68	59.90	0.71	59.90	55.31	4.59	13.045		
500.00	500.00	500.00	500.00	2.61	2.61	0.68	59.90	0.71	59.90	54.69	5.21	11.497		
600.00	600.00	600.00	600.00	2.88	2.88	0.68	59.90	0.71	59.90	54.14	5.77	10.387		
700.00	700.00	700.00	700.00	3.14	3.14	0.68	59.90	0.71	59.90	53.63	6.28	9.540		
800.00	800.00	800.00	800.00	3.38	3.38	0.68	59.90	0.71	59.90	53.15	6.76	8.866		
900.00	900.00	900.00	900.00	3.60	3.60	0.68	59.90	0.71	59.90	52.70	7.21	8.313		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	0.68	59.90	0.71	59.90	52.27	7.63	7.849		
1,100.00	1,100.00	1,100.00	1,100.00	4.02	4.02	0.68	59.90	0.71	59.90	51.87	8.04	7.451		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	0.68	59.90	0.71	59.90	51.47	8.43	7.106		
1,300.00	1,300.00	1,300.00	1,300.00	4.40	4.40	0.68	59.90	0.71	59.90	51.10	8.81	6.802		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	0.68	59.90	0.71	59.90	50.73	9.17	6.532		
1,500.00	1,500.00	1,500.00	1,500.00	4.76	4.76	0.68	59.90	0.71	59.90	50.38	9.52	6.290 CC, ES		
1,600.00	1,599.98	1,599.98	1,599.98	4.96	4.93	1.35	59.90	0.71	61.50	51.63	9.87	6.229		
1,700.00	1,699.84	1,699.84	1,699.84	5.58	5.10	3.16	59.90	0.71	66.33	55.72	10.60	6.256		
1,800.00	1,799.59	1,799.59	1,799.59	5.89	5.26	5.20	59.90	0.71	72.85	61.78	11.07	6.581		
1,900.00	1,899.35	1,897.83	1,897.81	6.06	5.55	5.91	60.97	-0.57	80.38	68.94	11.45	7.021		
2,000.00	1,999.11	1,995.71	1,995.56	6.25	6.12	4.72	64.20	-4.41	89.86	77.95	11.91	7.544		
2,100.00	2,098.86	2,095.02	2,094.63	6.45	6.44	2.87	68.65	-9.72	100.47	88.16	12.32	8.157		
2,200.00	2,198.62	2,194.41	2,193.77	6.67	6.63	1.37	73.10	-15.03	111.18	98.49	12.69	8.762		
2,300.00	2,298.38	2,293.79	2,292.92	6.90	6.82	0.14	77.56	-20.34	121.94	108.87	13.07	9.330		
2,400.00	2,397.66	2,392.64	2,391.52	7.34	7.03	-0.08	81.99	-25.62	136.67	123.05	13.62	10.034		
2,500.00	2,494.47	2,488.76	2,487.40	8.24	7.24	1.80	86.30	-30.76	163.51	148.92	14.59	11.207		
2,600.00	2,586.88	2,580.26	2,578.69	9.06	7.46	4.62	90.40	-35.65	202.63	187.12	15.51	13.062		
2,700.00	2,673.11	2,665.37	2,663.59	9.78	7.65	7.50	94.22	-40.19	253.72	237.38	16.34	15.526		
2,800.00	2,751.48	2,730.28	2,728.14	10.40	7.90	9.87	98.46	-45.24	317.34	300.37	16.97	18.704		
2,900.00	2,820.45	2,782.02	2,779.02	10.91	8.30	11.45	104.47	-52.41	393.30	375.83	17.48	22.506		
3,000.00	2,879.71	2,822.58	2,818.35	11.26	8.65	12.68	110.83	-59.99	478.17	460.37	17.80	26.861		
3,100.00	2,937.06	2,858.76	2,852.90	11.49	8.95	13.49	117.70	-68.18	565.51	547.49	18.02	31.384		
3,200.00	2,993.73	2,892.04	2,884.18	11.74	9.22	14.16	125.01	-76.89	654.01	635.77	18.23	35.872		
3,300.00	3,043.27	2,921.39	2,911.30	12.09	9.45	15.67	132.22	-85.48	743.33	724.83	18.50	40.182		
3,400.00	3,082.95	2,950.00	2,937.27	13.50	9.67	17.81	139.93	-94.67	831.62	812.82	18.79	44.250		
3,500.00	3,111.56	2,969.72	2,954.88	15.16	9.81	20.56	145.63	-101.46	917.22	898.21	19.01	48.240		
3,600.00	3,128.22	2,989.50	2,972.30	16.87	9.96	23.50	151.66	-108.65	998.87	979.59	19.28	51.806		
3,700.00	3,132.44	3,000.00	2,981.44	18.62	10.03	26.77	154.98	-112.61	1,075.54	1,056.04	19.50	55.162		
3,800.00	3,128.71	3,023.06	3,001.23	20.26	10.19	29.62	162.59	-121.67	1,149.11	1,129.26	19.85	57.893		
3,900.00	3,124.84	3,042.31	3,017.46	22.04	10.32	32.30	169.24	-129.60	1,223.90	1,203.67	20.23	60.504		
4,000.00	3,120.96	3,065.00	3,036.22	23.88	10.47	34.67	177.45	-139.38	1,299.51	1,278.82	20.69	62.796		
4,100.00	3,117.07	3,091.86	3,057.89	25.76	10.64	36.76	187.64	-151.53	1,375.58	1,354.34	21.24	64.753		
4,200.00	3,113.17	3,123.82	3,082.87	27.67	10.83	38.57	200.45	-166.79	1,451.75	1,429.83	21.91	66.255		
4,300.00	3,109.26	3,162.06	3,111.57	29.62	11.04	40.09	216.70	-186.16	1,527.66	1,504.93	22.73	67.218		
4,400.00	3,105.37	3,208.08	3,144.26	31.58	11.29	41.32	237.52	-210.97	1,602.94	1,579.19	23.75	67.489		
4,500.00	3,101.47	4,546.61	3,425.19	33.57	31.87	0.41	641.74	-1,356.57	1,650.56	1,590.40	60.16	27.438		
4,600.00	3,097.60	4,675.48	3,419.13	35.57	34.56	-0.61	642.03	-1,485.29	1,657.50	1,592.47	65.03	25.490		
4,700.00	3,093.74	4,775.41	3,414.43	37.57	36.65	-0.61	641.90	-1,585.11	1,660.82	1,591.58	69.25	23.985		
4,800.00	3,089.90	4,875.40	3,409.72	39.54	38.76	-0.61	641.76	-1,684.99	1,661.12	1,587.67	73.45	22.616		
4,900.00	3,086.06	4,975.40	3,405.02	41.53	40.90	-0.61	641.63	-1,784.88	1,660.95	1,583.27	77.69	21.380		
5,000.00	3,082.22	5,075.40	3,400.32	43.55	43.06	-0.60	641.49	-1,884.76	1,660.79	1,578.83	81.96	20.263		
5,100.00	3,078.38	5,175.39	3,395.61	45.60	45.23	-0.60	641.36	-1,984.65	1,660.63	1,574.36	86.27	19.249		

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	3,074.54	5,275.39	3,390.91	47.67	47.41	-0.60	641.22	-2,084.54	1,660.47	1,569.86	90.60	18.326		
5,300.00	3,070.71	5,375.39	3,386.20	49.76	49.61	-0.60	641.08	-2,184.42	1,660.31	1,565.34	94.96	17.484		
5,400.00	3,066.87	5,475.38	3,381.50	51.88	51.81	-0.60	640.95	-2,284.31	1,660.15	1,560.81	99.34	16.712		
5,500.00	3,063.03	5,575.38	3,376.80	54.01	54.03	-0.60	640.81	-2,384.19	1,659.99	1,556.25	103.74	16.002		
5,600.00	3,059.19	5,675.37	3,372.09	56.15	56.25	-0.60	640.68	-2,484.08	1,659.83	1,551.68	108.15	15.348		
5,700.00	3,055.36	5,775.37	3,367.39	58.31	58.48	-0.59	640.54	-2,583.96	1,659.67	1,547.09	112.57	14.743		
5,800.00	3,051.52	5,875.37	3,362.69	60.48	60.72	-0.59	640.41	-2,683.85	1,659.51	1,542.50	117.01	14.182		
5,900.00	3,047.68	5,975.36	3,357.98	62.67	62.96	-0.59	640.27	-2,783.73	1,659.35	1,537.89	121.46	13.662		
6,000.00	3,043.84	6,075.36	3,353.28	64.86	65.21	-0.59	640.14	-2,883.62	1,659.19	1,533.27	125.92	13.176		
6,100.00	3,040.00	6,175.36	3,348.57	67.06	67.47	-0.59	640.00	-2,983.50	1,659.03	1,528.65	130.39	12.724		
6,200.00	3,036.17	6,275.35	3,343.87	69.27	69.72	-0.59	639.86	-3,083.39	1,658.88	1,524.01	134.87	12.300		
6,300.00	3,032.33	6,375.35	3,339.17	71.48	71.99	-0.59	639.73	-3,183.28	1,658.72	1,519.37	139.35	11.903		
6,400.00	3,028.49	6,475.34	3,334.46	73.70	74.25	-0.58	639.59	-3,283.16	1,658.56	1,514.72	143.84	11.530		
6,500.00	3,024.65	6,575.34	3,329.76	75.93	76.52	-0.58	639.46	-3,383.05	1,658.41	1,510.07	148.34	11.180		
6,600.00	3,020.82	6,675.34	3,325.06	78.16	78.79	-0.58	639.32	-3,482.93	1,658.25	1,505.41	152.84	10.849		
6,700.00	3,016.98	6,775.33	3,320.35	80.40	81.07	-0.58	639.19	-3,582.82	1,658.10	1,500.75	157.35	10.537		
6,800.00	3,013.14	6,875.33	3,315.65	82.65	83.34	-0.58	639.05	-3,682.70	1,657.94	1,496.08	161.87	10.243		
6,900.00	3,009.30	6,975.33	3,310.94	84.89	85.62	-0.58	638.92	-3,782.59	1,657.79	1,491.40	166.39	9.963		
7,000.00	3,005.46	7,075.32	3,306.24	87.15	87.91	-0.58	638.78	-3,882.47	1,657.64	1,486.73	170.91	9.699		
7,100.00	3,001.63	7,175.32	3,301.54	89.40	90.19	-0.57	638.64	-3,982.36	1,657.48	1,482.05	175.44	9.448		
7,200.00	2,997.79	7,275.31	3,296.83	91.66	92.47	-0.57	638.51	-4,082.24	1,657.33	1,477.36	179.97	9.209		
7,300.00	2,993.95	7,375.31	3,292.13	93.92	94.76	-0.57	638.37	-4,182.13	1,657.18	1,472.67	184.50	8.982		
7,400.00	2,990.11	7,475.31	3,287.43	96.19	97.05	-0.57	638.24	-4,282.02	1,657.03	1,467.98	189.04	8.765		
7,500.00	2,986.27	7,575.30	3,282.72	98.45	99.34	-0.57	638.10	-4,381.90	1,656.88	1,463.29	193.58	8.559		
7,600.00	2,982.44	7,675.30	3,278.02	100.72	101.63	-0.57	637.97	-4,481.79	1,656.72	1,458.60	198.13	8.362		
7,700.00	2,978.60	7,775.29	3,273.31	103.00	103.93	-0.57	637.83	-4,581.67	1,656.57	1,453.90	202.68	8.173		
7,800.00	2,974.76	7,875.29	3,268.61	105.27	106.22	-0.56	637.70	-4,681.56	1,656.42	1,449.20	207.23	7.993		
7,900.00	2,970.92	7,975.29	3,263.91	107.55	108.52	-0.56	637.56	-4,781.44	1,656.27	1,444.49	211.78	7.821		
8,000.00	2,967.09	8,075.28	3,259.20	109.83	110.81	-0.56	637.42	-4,881.33	1,656.13	1,439.79	216.34	7.655		
8,100.00	2,963.25	8,175.28	3,254.50	112.11	113.11	-0.56	637.29	-4,981.21	1,655.98	1,435.08	220.89	7.497		
8,200.00	2,959.41	8,275.28	3,249.80	114.39	115.41	-0.56	637.15	-5,081.10	1,655.83	1,430.37	225.45	7.344		
8,300.00	2,955.57	8,375.27	3,245.09	116.67	117.71	-0.56	637.02	-5,180.98	1,655.68	1,425.66	230.02	7.198		
8,400.00	2,951.73	8,475.27	3,240.39	118.96	120.01	-0.56	636.88	-5,280.87	1,655.53	1,420.95	234.58	7.057		
8,500.00	2,947.90	8,575.26	3,235.68	121.25	122.31	-0.55	636.75	-5,380.76	1,655.39	1,416.24	239.15	6.922		
8,600.00	2,944.06	8,675.26	3,230.98	123.53	124.61	-0.55	636.61	-5,480.64	1,655.24	1,411.52	243.72	6.792		
8,700.00	2,940.22	8,775.26	3,226.28	125.82	126.91	-0.55	636.47	-5,580.53	1,655.09	1,406.81	248.29	6.666		
8,800.00	2,936.38	8,875.25	3,221.57	128.11	129.22	-0.55	636.34	-5,680.41	1,654.95	1,402.09	252.86	6.545		
8,900.00	2,932.55	8,975.25	3,216.87	130.41	131.52	-0.55	636.20	-5,780.30	1,654.80	1,397.37	257.43	6.428		
9,000.00	2,928.71	9,075.25	3,212.17	132.70	133.83	-0.55	636.07	-5,880.18	1,654.66	1,392.65	262.01	6.315		
9,100.00	2,924.87	9,175.24	3,207.46	134.99	136.13	-0.55	635.93	-5,980.07	1,654.51	1,387.93	266.58	6.206		
9,112.18	2,924.40	9,185.06	3,207.00	135.27	136.36	-0.46	635.92	-5,989.87	1,654.50	1,387.42	267.08	6.195		
9,148.72	2,923.00	9,185.06	3,207.00	136.11	136.36	0.82	635.92	-5,989.87	1,654.90	1,387.14	267.76	6.180 SF		

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	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	0.69	19.90	0.24	19.90					
100.00	100.00	100.00	100.00	0.93	0.93	0.69	19.90	0.24	19.90	18.03	1.87	10.656		
200.00	200.00	200.00	200.00	1.51	1.51	0.69	19.90	0.24	19.90	16.88	3.02	6.588		
300.00	300.00	300.00	300.00	1.94	1.94	0.69	19.90	0.24	19.90	16.02	3.88	5.125		
400.00	400.00	400.00	400.00	2.30	2.30	0.69	19.90	0.24	19.90	15.31	4.59	4.334		
500.00	500.00	500.00	500.00	2.61	2.61	0.69	19.90	0.24	19.90	14.69	5.21	3.819		
600.00	600.00	600.00	600.00	2.88	2.88	0.69	19.90	0.24	19.90	14.13	5.77	3.450		
700.00	700.00	700.00	700.00	3.14	3.14	0.69	19.90	0.24	19.90	13.62	6.28	3.169		
800.00	800.00	800.00	800.00	3.38	3.38	0.69	19.90	0.24	19.90	13.14	6.76	2.945		
900.00	900.00	900.00	900.00	3.60	3.60	0.69	19.90	0.24	19.90	12.69	7.21	2.762		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	0.69	19.90	0.24	19.90	12.27	7.63	2.607		
1,100.00	1,100.00	1,100.00	1,100.00	4.02	4.02	0.69	19.90	0.24	19.90	11.86	8.04	2.475		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	0.69	19.90	0.24	19.90	11.47	8.43	2.361		
1,300.00	1,300.00	1,300.00	1,300.00	4.40	4.40	0.69	19.90	0.24	19.90	11.09	8.81	2.260		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	0.69	19.90	0.24	19.90	10.73	9.17	2.170		
1,500.00	1,500.00	1,500.00	1,500.00	4.76	4.76	0.69	19.90	0.24	19.90	10.38	9.52	2.090	CC, ES, SF	
1,600.00	1,599.98	1,599.98	1,599.98	4.96	4.93	2.60	19.90	0.24	21.50	11.63	9.87	2.178		
1,700.00	1,699.84	1,699.84	1,699.84	5.58	5.10	6.93	19.90	0.24	26.42	15.79	10.63	2.486		
1,800.00	1,799.59	1,799.59	1,799.59	5.89	5.26	10.68	19.90	0.24	33.12	22.01	11.11	2.981		
1,900.00	1,899.35	1,899.35	1,899.35	6.06	5.42	13.16	19.90	0.24	39.92	28.46	11.45	3.486		
2,000.00	1,999.11	1,999.11	1,999.11	6.25	5.58	14.91	19.90	0.24	46.76	34.96	11.80	3.963		
2,100.00	2,098.86	2,098.86	2,098.86	6.45	5.73	16.22	19.90	0.24	53.65	41.48	12.16	4.411		
2,200.00	2,198.62	2,198.62	2,198.62	6.67	5.88	17.22	19.90	0.24	60.55	48.02	12.53	4.832		
2,300.00	2,298.38	2,298.38	2,298.38	6.90	6.03	18.03	19.90	0.24	67.47	54.56	12.91	5.226		
2,400.00	2,397.66	2,397.66	2,397.66	7.34	6.17	19.03	19.90	0.24	78.74	65.24	13.49	5.835		
2,500.00	2,494.47	2,494.47	2,494.47	8.24	6.31	20.46	19.90	0.24	103.39	88.85	14.54	7.111		
2,600.00	2,586.88	2,586.88	2,586.88	9.06	6.44	21.68	19.90	0.24	141.29	125.81	15.49	9.124		
2,700.00	2,673.11	2,673.11	2,673.11	9.78	6.55	22.55	19.90	0.24	191.71	175.39	16.32	11.746		
2,800.00	2,751.48	2,781.02	2,780.79	10.40	6.99	22.79	15.76	-3.23	250.22	232.71	17.51	14.292		
2,900.00	2,820.45	2,912.07	2,908.67	10.91	8.00	21.73	-5.57	-21.13	307.13	288.08	19.05	16.118		
3,000.00	2,879.71	3,065.66	3,049.07	11.26	9.01	19.06	-52.71	-60.69	358.94	338.81	20.13	17.831		
3,100.00	2,937.06	3,251.64	3,196.69	11.49	9.99	12.90	-138.71	-132.85	392.83	372.31	20.52	19.143		
3,200.00	2,993.73	3,416.33	3,300.23	11.74	10.51	4.28	-236.54	-214.94	404.75	384.06	20.69	19.564		
3,300.00	3,043.27	3,515.39	3,357.04	12.09	10.66	3.34	-298.70	-267.09	416.49	394.63	21.86	19.049		
3,400.00	3,082.95	3,624.75	3,418.81	13.50	10.82	3.99	-366.98	-326.05	432.99	409.97	23.02	18.808		
3,500.00	3,111.56	3,760.34	3,480.52	15.16	12.73	0.33	-445.41	-417.37	448.59	424.16	24.43	18.363		
3,600.00	3,128.22	3,901.02	3,520.94	16.87	15.17	-7.32	-514.28	-532.75	460.67	434.40	26.27	17.534		
3,700.00	3,132.44	4,043.92	3,534.95	18.62	17.82	-17.50	-567.02	-664.43	468.53	439.77	28.76	16.291		
3,800.00	3,128.71	4,148.67	3,530.56	20.26	19.71	-18.59	-594.43	-765.40	472.60	441.60	31.00	15.247		
3,900.00	3,124.84	4,240.26	3,525.90	22.04	21.44	-16.61	-614.95	-854.54	476.37	443.09	33.28	14.315		
4,000.00	3,120.96	4,331.62	3,521.25	23.88	23.24	-14.64	-632.56	-944.06	480.10	444.41	35.69	13.454		
4,100.00	3,117.07	4,422.75	3,516.59	25.76	25.07	-12.69	-647.27	-1,033.87	483.78	445.60	38.18	12.672		
4,200.00	3,113.17	4,513.66	3,511.95	27.67	26.92	-10.74	-659.09	-1,123.89	487.39	446.66	40.74	11.965		
4,300.00	3,109.26	4,600.00	3,507.54	29.62	28.69	-7.94	-667.66	-1,209.68	490.94	447.73	43.21	11.361		
4,400.00	3,105.37	4,694.88	3,502.70	31.58	30.64	-6.89	-674.09	-1,304.22	494.34	448.34	46.01	10.745		
4,500.00	3,101.47	4,785.21	3,498.11	33.57	32.51	-4.98	-677.30	-1,394.37	497.65	448.96	48.69	10.221		
4,600.00	3,097.60	4,879.41	3,493.33	35.57	34.43	-3.83	-677.91	-1,488.44	500.65	449.13	51.52	9.717		
4,700.00	3,093.74	4,979.33	3,488.27	37.57	36.47	-3.78	-678.05	-1,588.24	501.88	447.37	54.52	9.206		
4,800.00	3,089.90	5,079.32	3,483.20	39.54	38.54	-3.76	-678.18	-1,688.10	501.20	443.84	57.37	8.736		
4,900.00	3,086.06	5,179.31	3,478.14	41.53	40.64	-3.75	-678.32	-1,787.96	500.24	440.00	60.24	8.304		
5,000.00	3,082.22	5,279.31	3,473.07	43.55	42.76	-3.74	-678.46	-1,887.83	499.28	436.13	63.15	7.906		
5,100.00	3,078.38	5,379.30	3,468.00	45.60	44.90	-3.73	-678.59	-1,987.69	498.31	432.22	66.09	7.540		

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	3,074.54	5,479.29	3,462.94	47.67	47.05	-3.72	-678.73	-2,087.56	497.35	428.29	69.07	7.201		
5,300.00	3,070.71	5,579.28	3,457.87	49.76	49.23	-3.70	-678.87	-2,187.42	496.39	424.32	72.07	6.887		
5,400.00	3,066.87	5,679.28	3,452.80	51.88	51.41	-3.69	-679.00	-2,287.28	495.44	420.33	75.10	6.597		
5,500.00	3,063.03	5,779.27	3,447.74	54.01	53.60	-3.68	-679.14	-2,387.15	494.48	416.32	78.16	6.327		
5,600.00	3,059.19	5,879.26	3,442.67	56.15	55.81	-3.67	-679.28	-2,487.01	493.52	412.29	81.23	6.075		
5,700.00	3,055.36	5,979.25	3,437.60	58.31	58.02	-3.66	-679.42	-2,586.88	492.57	408.23	84.33	5.841		
5,800.00	3,051.52	6,079.25	3,432.54	60.48	60.25	-3.65	-679.55	-2,686.74	491.61	404.16	87.45	5.621		
5,900.00	3,047.68	6,179.24	3,427.47	62.67	62.47	-3.63	-679.69	-2,786.60	490.66	400.07	90.59	5.416		
6,000.00	3,043.84	6,279.23	3,422.40	64.86	64.71	-3.62	-679.83	-2,886.47	489.71	395.96	93.75	5.223		
6,100.00	3,040.00	6,379.22	3,417.34	67.06	66.95	-3.61	-679.96	-2,986.33	488.76	391.83	96.93	5.043		
6,200.00	3,036.17	6,479.22	3,412.27	69.27	69.20	-3.60	-680.10	-3,086.19	487.81	387.69	100.12	4.872		
6,300.00	3,032.33	6,579.21	3,407.20	71.48	71.45	-3.59	-680.24	-3,186.06	486.86	383.53	103.33	4.712		
6,400.00	3,028.49	6,679.20	3,402.14	73.70	73.70	-3.58	-680.37	-3,285.92	485.92	379.36	106.55	4.560		
6,500.00	3,024.65	6,779.19	3,397.07	75.93	75.96	-3.57	-680.51	-3,385.79	484.97	375.18	109.79	4.417		
6,600.00	3,020.82	6,879.19	3,392.00	78.16	78.23	-3.55	-680.65	-3,485.65	484.03	370.98	113.05	4.282		
6,700.00	3,016.98	6,979.18	3,386.94	80.40	80.49	-3.54	-680.78	-3,585.51	483.09	366.77	116.32	4.153		
6,800.00	3,013.14	7,079.17	3,381.87	82.65	82.76	-3.53	-680.92	-3,685.38	482.14	362.54	119.60	4.031		
6,900.00	3,009.30	7,179.16	3,376.80	84.89	85.03	-3.52	-681.06	-3,785.24	481.20	358.30	122.90	3.915		
7,000.00	3,005.46	7,279.16	3,371.74	87.15	87.31	-3.51	-681.20	-3,885.11	480.27	354.05	126.22	3.805		
7,100.00	3,001.63	7,379.15	3,366.67	89.40	89.59	-3.50	-681.33	-3,984.97	479.33	349.79	129.54	3.700		
7,200.00	2,997.79	7,479.14	3,361.60	91.66	91.86	-3.49	-681.47	-4,084.83	478.39	345.51	132.88	3.600		
7,300.00	2,993.95	7,579.13	3,356.54	93.92	94.15	-3.47	-681.61	-4,184.70	477.46	341.22	136.23	3.505		
7,400.00	2,990.11	7,679.13	3,351.47	96.19	96.43	-3.46	-681.74	-4,284.56	476.53	336.93	139.60	3.414		
7,500.00	2,986.27	7,779.12	3,346.40	98.45	98.71	-3.45	-681.88	-4,384.43	475.59	332.62	142.98	3.326		
7,600.00	2,982.44	7,879.11	3,341.34	100.72	101.00	-3.44	-682.02	-4,484.29	474.66	328.29	146.37	3.243		
7,700.00	2,978.60	7,979.10	3,336.27	103.00	103.29	-3.43	-682.15	-4,584.15	473.73	323.96	149.77	3.163		
7,800.00	2,974.76	8,079.09	3,331.20	105.27	105.58	-3.42	-682.29	-4,684.02	472.81	319.62	153.19	3.086		
7,900.00	2,970.92	8,179.09	3,326.13	107.55	107.87	-3.40	-682.43	-4,783.88	471.88	315.26	156.62	3.013		
8,000.00	2,967.09	8,279.08	3,321.07	109.83	110.16	-3.39	-682.57	-4,883.74	470.95	310.89	160.06	2.942		
8,100.00	2,963.25	8,379.07	3,316.00	112.11	112.45	-3.38	-682.70	-4,983.61	470.03	306.52	163.52	2.875		
8,200.00	2,959.41	8,479.06	3,310.93	114.39	114.75	-3.37	-682.84	-5,083.47	469.11	302.13	166.98	2.809		
8,300.00	2,955.57	8,579.06	3,305.87	116.67	117.04	-3.36	-682.98	-5,183.34	468.19	297.73	170.46	2.747		
8,400.00	2,951.73	8,679.05	3,300.80	118.96	119.34	-3.35	-683.11	-5,283.20	467.27	293.32	173.95	2.686		
8,500.00	2,947.90	8,779.04	3,295.73	121.25	121.64	-3.34	-683.25	-5,383.06	466.35	288.90	177.45	2.628		
8,600.00	2,944.06	8,879.03	3,290.67	123.53	123.94	-3.32	-683.39	-5,482.93	465.43	284.47	180.97	2.572		
8,700.00	2,940.22	8,979.03	3,285.60	125.82	126.24	-3.31	-683.52	-5,582.79	464.52	280.02	184.50	2.518		
8,800.00	2,936.38	9,079.02	3,280.53	128.11	128.54	-3.30	-683.66	-5,682.66	463.61	275.57	188.04	2.466		
8,900.00	2,932.55	9,179.01	3,275.47	130.41	130.84	-3.29	-683.80	-5,782.52	462.69	271.11	191.59	2.415		
9,000.00	2,928.71	9,279.00	3,270.40	132.70	133.14	-3.28	-683.94	-5,882.38	461.78	266.63	195.15	2.366		
9,100.00	2,924.87	9,379.00	3,265.33	134.99	135.44	-3.27	-684.07	-5,982.25	460.87	262.15	198.73	2.319		
9,130.27	2,923.71	9,405.32	3,264.00	135.69	136.05	-2.54	-684.11	-6,008.54	460.62	261.06	199.56	2.308		
9,148.72	2,923.00	9,405.32	3,264.00	136.11	136.05	0.87	-684.11	-6,008.54	460.98	262.11	198.87	2.318		

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
1,700.00	1,699.84	3,800.00	3,169.68	5.58	21.17	-159.07	-1,883.78	-720.88	2,490.12	2,465.85	24.27	102.598		
1,800.00	1,799.59	3,784.72	3,170.29	5.89	20.88	-159.52	-1,888.69	-706.42	2,426.74	2,402.22	24.52	98.968		
1,900.00	1,899.35	3,782.78	3,170.37	6.06	20.85	-159.60	-1,889.31	-704.59	2,365.96	2,341.08	24.88	95.100		
2,000.00	1,999.11	3,780.84	3,170.45	6.25	20.81	-159.67	-1,889.94	-702.76	2,307.90	2,282.65	25.25	91.407		
2,100.00	2,098.86	3,778.90	3,170.53	6.45	20.77	-159.74	-1,890.57	-700.93	2,252.79	2,227.16	25.63	87.905		
2,200.00	2,198.62	3,776.95	3,170.61	6.67	20.74	-159.81	-1,891.21	-699.09	2,200.84	2,174.82	26.01	84.611		
2,300.00	2,298.38	3,775.00	3,170.68	6.90	20.70	-159.89	-1,891.85	-697.24	2,152.28	2,125.88	26.40	81.540		
2,400.00	2,397.66	3,773.32	3,170.75	7.34	20.67	-159.96	-1,892.40	-695.65	2,103.47	2,076.52	26.95	78.059		
2,500.00	2,494.47	3,772.50	3,170.78	8.24	20.66	-160.05	-1,892.66	-694.89	2,046.56	2,018.71	27.85	73.490		
2,600.00	2,586.88	3,772.60	3,170.78	9.06	20.66	-160.15	-1,892.63	-694.98	1,981.71	1,953.07	28.64	69.186		
2,700.00	2,673.11	3,773.62	3,170.74	9.78	20.68	-160.26	-1,892.30	-695.94	1,909.46	1,880.12	29.35	65.067		
2,800.00	2,751.48	3,775.60	3,170.66	10.40	20.71	-160.38	-1,891.65	-697.80	1,830.42	1,800.46	29.96	61.087		
2,900.00	2,820.45	3,778.53	3,170.54	10.91	20.77	-160.51	-1,890.70	-700.57	1,745.31	1,714.81	30.50	57.221		
3,000.00	2,879.71	3,782.35	3,170.39	11.26	20.84	-160.65	-1,889.45	-704.18	1,655.46	1,624.54	30.92	53.541		
3,100.00	2,937.06	3,786.46	3,170.22	11.49	20.91	-160.79	-1,888.12	-708.07	1,565.71	1,534.43	31.28	50.055		
3,200.00	2,993.73	3,800.00	3,169.68	11.74	21.17	-160.64	-1,883.78	-720.88	1,477.09	1,445.23	31.86	46.360		
3,300.00	3,043.27	3,800.00	3,169.68	12.09	21.17	-161.54	-1,883.78	-720.88	1,388.57	1,356.40	32.18	43.155		
3,400.00	3,082.95	3,830.20	3,168.46	13.50	21.74	-161.86	-1,874.31	-749.53	1,302.08	1,268.94	33.15	39.282		
3,500.00	3,111.56	3,865.38	3,167.04	15.16	22.41	-162.61	-1,863.66	-783.03	1,220.06	1,185.80	34.26	35.616		
3,600.00	3,128.22	3,900.00	3,165.64	16.87	23.08	-164.07	-1,853.59	-816.13	1,145.00	1,109.53	35.47	32.278		
3,700.00	3,132.44	3,964.51	3,163.03	18.62	24.35	-164.64	-1,835.88	-878.11	1,079.13	1,041.56	37.57	28.724		
3,800.00	3,128.71	4,024.57	3,160.59	20.26	25.55	-165.83	-1,820.66	-936.15	1,022.03	982.33	39.71	25.739		
3,900.00	3,124.84	4,100.00	3,157.53	22.04	27.07	-166.37	-1,803.27	-1,009.48	969.83	927.37	42.46	22.840		
4,000.00	3,120.96	4,154.02	3,155.33	23.88	28.16	-168.41	-1,792.01	-1,062.27	922.41	877.30	45.11	20.448		
4,100.00	3,117.07	4,223.02	3,152.52	25.76	29.56	-169.78	-1,779.07	-1,129.98	880.32	832.08	48.24	18.250		
4,200.00	3,113.17	4,300.00	3,149.39	27.67	31.13	-170.84	-1,766.57	-1,205.88	843.71	792.04	51.67	16.328		
4,300.00	3,109.26	4,368.31	3,146.62	29.62	32.53	-172.68	-1,757.19	-1,273.48	812.72	757.58	55.13	14.741		
4,400.00	3,105.37	4,443.98	3,143.55	31.58	34.08	-174.19	-1,748.69	-1,348.60	787.59	728.77	58.82	13.389		
4,500.00	3,101.47	4,521.18	3,140.42	33.57	35.66	-175.73	-1,742.07	-1,425.46	768.47	705.84	62.63	12.271		
4,600.00	3,097.60	4,600.00	3,137.24	35.57	37.28	-177.26	-1,737.44	-1,504.07	755.46	688.95	66.51	11.359		
4,700.00	3,093.74	4,678.56	3,134.08	37.57	38.89	-178.87	-1,734.99	-1,582.52	748.65	678.24	70.41	10.633		
4,800.00	3,089.90	4,772.77	3,130.30	39.54	40.80	-179.31	-1,733.98	-1,676.66	746.95	672.39	74.55	10.019		
4,900.00	3,086.06	4,872.77	3,126.30	41.53	42.82	-179.31	-1,733.00	-1,776.57	745.82	667.00	78.82	9.462		
5,000.00	3,082.22	4,972.76	3,122.29	43.55	44.87	-179.31	-1,732.02	-1,876.48	744.69	661.56	83.13	8.959		
5,100.00	3,078.38	5,072.75	3,118.28	45.60	46.95	-179.31	-1,731.04	-1,976.39	743.56	656.10	87.47	8.501		
5,200.00	3,074.54	5,172.75	3,114.28	47.67	49.04	-179.31	-1,730.06	-2,076.29	742.43	650.60	91.84	8.084		
5,300.00	3,070.71	5,272.74	3,110.27	49.76	51.16	-179.31	-1,729.08	-2,176.20	741.31	645.08	96.23	7.703		
5,400.00	3,066.87	5,372.73	3,106.27	51.88	53.29	-179.32	-1,728.10	-2,276.11	740.18	639.53	100.65	7.354		
5,500.00	3,063.03	5,472.73	3,102.26	54.01	55.43	-179.32	-1,727.12	-2,376.02	739.05	633.97	105.08	7.033		
5,600.00	3,059.19	5,572.72	3,098.25	56.15	57.59	-179.32	-1,726.14	-2,475.93	737.92	628.38	109.54	6.737		
5,700.00	3,055.36	5,672.72	3,094.25	58.31	59.76	-179.32	-1,725.16	-2,575.84	736.79	622.79	114.01	6.463		
5,800.00	3,051.52	5,772.71	3,090.24	60.48	61.94	-179.32	-1,724.18	-2,675.74	735.67	617.18	118.49	6.209		
5,900.00	3,047.68	5,872.70	3,086.23	62.67	64.13	-179.32	-1,723.19	-2,775.65	734.54	611.55	122.99	5.973		
6,000.00	3,043.84	5,972.70	3,082.23	64.86	66.33	-179.32	-1,722.21	-2,875.56	733.41	605.92	127.49	5.753		
6,100.00	3,040.00	6,072.69	3,078.22	67.06	68.54	-179.32	-1,721.23	-2,975.47	732.28	600.28	132.01	5.547		
6,200.00	3,036.17	6,172.68	3,074.21	69.27	70.76	-179.32	-1,720.25	-3,075.38	731.16	594.63	136.53	5.355		
6,300.00	3,032.33	6,272.68	3,070.21	71.48	72.98	-179.32	-1,719.27	-3,175.29	730.03	588.97	141.06	5.175		
6,400.00	3,028.49	6,372.67	3,066.20	73.70	75.21	-179.32	-1,718.29	-3,275.20	728.90	583.30	145.60	5.006		
6,500.00	3,024.65	6,472.66	3,062.19	75.93	77.44	-179.32	-1,717.31	-3,375.10	727.77	577.63	150.14	4.847		
6,600.00	3,020.82	6,572.66	3,058.19	78.16	79.68	-179.32	-1,716.33	-3,475.01	726.64	571.95	154.70	4.697		
6,700.00	3,016.98	6,672.65	3,054.18	80.40	81.92	-179.32	-1,715.35	-3,574.92	725.52	566.26	159.25	4.556		
6,800.00	3,013.14	6,772.64	3,050.17	82.65	84.17	-179.32	-1,714.37	-3,674.83	724.39	560.58	163.81	4.422		

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

Stryker Directional
Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,900.00	3,009.30	6,872.64	3,046.17	84.89	86.42	-179.32	-1,713.39	-3,774.74	723.26	554.88	168.38	4.295		
7,000.00	3,005.46	6,972.63	3,042.16	87.15	88.68	-179.32	-1,712.41	-3,874.65	722.13	549.18	172.95	4.175		
7,100.00	3,001.63	7,072.63	3,038.15	89.40	90.94	-179.32	-1,711.43	-3,974.55	721.01	543.48	177.52	4.061		
7,200.00	2,997.79	7,172.62	3,034.15	91.66	93.20	-179.32	-1,710.45	-4,074.46	719.88	537.78	182.10	3.953		
7,300.00	2,993.95	7,272.61	3,030.14	93.92	95.46	-179.32	-1,709.47	-4,174.37	718.75	532.07	186.68	3.850		
7,400.00	2,990.11	7,372.61	3,026.13	96.19	97.73	-179.32	-1,708.49	-4,274.28	717.62	526.36	191.27	3.752		
7,500.00	2,986.27	7,472.60	3,022.13	98.45	100.00	-179.32	-1,707.51	-4,374.19	716.50	520.64	195.85	3.658		
7,600.00	2,982.44	7,572.59	3,018.12	100.72	102.27	-179.32	-1,706.53	-4,474.10	715.37	514.92	200.44	3.569		
7,700.00	2,978.60	7,672.59	3,014.11	103.00	104.55	-179.32	-1,705.55	-4,574.01	714.24	509.21	205.04	3.483		
7,800.00	2,974.76	7,772.58	3,010.11	105.27	106.82	-179.32	-1,704.56	-4,673.91	713.11	503.48	209.63	3.402		
7,900.00	2,970.92	7,872.57	3,006.10	107.55	109.10	-179.32	-1,703.58	-4,773.82	711.99	497.76	214.23	3.324		
8,000.00	2,967.09	7,972.57	3,002.09	109.83	111.38	-179.32	-1,702.60	-4,873.73	710.86	492.03	218.83	3.249		
8,100.00	2,963.25	8,072.56	2,998.09	112.11	113.67	-179.32	-1,701.62	-4,973.64	709.73	486.30	223.43	3.177		
8,200.00	2,959.41	8,172.55	2,994.08	114.39	115.95	-179.33	-1,700.64	-5,073.55	708.60	480.57	228.03	3.108		
8,300.00	2,955.57	8,272.55	2,990.07	116.67	118.24	-179.33	-1,699.66	-5,173.46	707.48	474.84	232.63	3.041		
8,400.00	2,951.73	8,372.54	2,986.07	118.96	120.52	-179.33	-1,698.68	-5,273.36	706.35	469.11	237.24	2.977		
8,500.00	2,947.90	8,472.54	2,982.06	121.25	122.81	-179.33	-1,697.70	-5,373.27	705.22	463.37	241.85	2.916		
8,600.00	2,944.06	8,572.53	2,978.05	123.53	125.10	-179.33	-1,696.72	-5,473.18	704.09	457.64	246.46	2.857		
8,700.00	2,940.22	8,672.52	2,974.05	125.82	127.39	-179.33	-1,695.74	-5,573.09	702.97	451.90	251.07	2.800		
8,800.00	2,936.38	8,772.52	2,970.04	128.11	129.69	-179.33	-1,694.76	-5,673.00	701.84	446.16	255.68	2.745		
8,900.00	2,932.55	8,872.51	2,966.04	130.41	131.98	-179.33	-1,693.78	-5,772.91	700.71	440.42	260.29	2.692		
9,000.00	2,928.71	8,972.50	2,962.03	132.70	134.27	-179.33	-1,692.80	-5,872.82	699.59	434.68	264.91	2.641		
9,100.00	2,924.87	9,072.50	2,958.02	134.99	136.57	-179.33	-1,691.82	-5,972.72	698.46	428.94	269.52	2.591		
9,148.72	2,923.00	9,121.22	2,956.07	136.11	137.69	-179.33	-1,691.34	-6,021.40	697.91	426.14	271.77	2.568	CC, ES, SF	

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,800.00	2,751.48	2,731.90	2,725.87	10.40	8.44	179.66	-2,698.16	-84.79	2,485.00	2,468.65	16.34	152.048		
2,900.00	2,820.45	2,800.00	2,785.57	10.91	8.88	179.70	-2,699.04	-117.48	2,420.47	2,403.43	17.04	142.016		
3,000.00	2,879.71	2,865.47	2,839.80	11.26	9.26	179.76	-2,700.04	-154.12	2,348.57	2,330.87	17.70	132.704		
3,100.00	2,937.06	2,927.02	2,887.51	11.49	9.58	179.86	-2,701.09	-192.94	2,275.57	2,257.21	18.36	123.935		
3,200.00	2,993.73	2,987.37	2,930.90	11.74	9.86	-179.99	-2,702.22	-234.85	2,202.96	2,183.79	19.16	114.958		
3,300.00	3,043.27	3,050.00	2,972.03	12.09	10.12	179.97	-2,703.50	-282.04	2,132.57	2,112.26	20.31	104.996		
3,400.00	3,082.95	3,119.52	3,013.03	13.50	10.32	179.81	-2,705.02	-338.15	2,066.61	2,044.80	21.81	94.758		
3,500.00	3,111.56	3,197.68	3,057.86	15.16	10.44	179.52	-2,706.75	-402.15	2,006.98	1,983.33	23.65	84.852		
3,600.00	3,128.22	3,276.58	3,103.11	16.87	10.91	178.97	-2,708.50	-466.76	1,955.84	1,930.07	25.78	75.878		
3,700.00	3,132.44	3,371.35	3,153.13	18.62	12.32	178.65	-2,710.36	-547.13	1,915.28	1,886.86	28.42	67.403		
3,800.00	3,128.71	3,487.72	3,195.74	20.26	14.36	179.06	-2,711.66	-655.19	1,882.91	1,851.27	31.64	59.506		
3,900.00	3,124.84	3,621.96	3,216.70	22.04	17.04	-179.80	-2,711.71	-787.48	1,852.71	1,817.07	35.64	51.984		
4,000.00	3,120.96	3,734.10	3,213.49	23.88	19.38	-179.29	-2,710.71	-899.52	1,824.17	1,784.59	39.58	46.088		
4,100.00	3,117.07	3,830.83	3,208.76	25.76	21.45	-179.29	-2,709.76	-996.13	1,798.82	1,755.38	43.44	41.409		
4,200.00	3,113.17	3,928.38	3,203.99	27.67	23.57	-179.29	-2,708.80	-1,093.56	1,776.86	1,729.42	47.44	37.452		
4,300.00	3,109.26	4,026.64	3,199.19	29.62	25.74	-179.29	-2,707.84	-1,191.70	1,758.32	1,706.76	51.56	34.101		
4,400.00	3,105.37	4,125.49	3,194.36	31.58	27.93	-179.29	-2,706.87	-1,290.42	1,743.20	1,687.43	55.77	31.255		
4,500.00	3,101.47	4,224.80	3,189.50	33.57	30.15	-179.29	-2,705.89	-1,389.61	1,731.54	1,671.48	60.06	28.828		
4,600.00	3,097.60	4,324.46	3,184.63	35.57	32.39	-179.29	-2,704.91	-1,489.14	1,723.35	1,658.93	64.42	26.753		
4,700.00	3,093.74	4,424.34	3,179.74	37.57	34.65	-179.30	-2,703.93	-1,588.90	1,718.64	1,649.82	68.82	24.973		
4,800.00	3,089.90	4,524.32	3,174.86	39.54	36.91	-179.30	-2,702.95	-1,688.76	1,717.00	1,643.80	73.19	23.458		
4,900.00	3,086.06	4,624.30	3,169.97	41.53	39.19	-179.30	-2,701.96	-1,788.62	1,715.82	1,638.23	77.59	22.113		
5,000.00	3,082.22	4,724.29	3,165.08	43.55	41.47	-179.30	-2,700.98	-1,888.48	1,714.65	1,632.63	82.02	20.905		
5,100.00	3,078.38	4,824.28	3,160.19	45.60	43.75	-179.30	-2,700.00	-1,988.35	1,713.48	1,627.01	86.47	19.815		
5,200.00	3,074.54	4,924.27	3,155.30	47.67	46.04	-179.30	-2,699.02	-2,088.21	1,712.31	1,621.36	90.94	18.828		
5,300.00	3,070.71	5,024.26	3,150.41	49.76	48.33	-179.31	-2,698.03	-2,188.07	1,711.13	1,615.70	95.43	17.931		
5,400.00	3,066.87	5,124.25	3,145.53	51.88	50.62	-179.31	-2,697.05	-2,287.94	1,709.96	1,610.03	99.93	17.111		
5,500.00	3,063.03	5,224.23	3,140.64	54.01	52.92	-179.31	-2,696.07	-2,387.80	1,708.79	1,604.34	104.45	16.360		
5,600.00	3,059.19	5,324.22	3,135.75	56.15	55.22	-179.31	-2,695.08	-2,487.67	1,707.62	1,598.65	108.98	15.670		
5,700.00	3,055.36	5,424.21	3,130.86	58.31	57.52	-179.31	-2,694.10	-2,587.53	1,706.45	1,592.94	113.51	15.033		
5,800.00	3,051.52	5,524.20	3,125.97	60.48	59.82	-179.31	-2,693.12	-2,687.39	1,705.29	1,587.23	118.06	14.445		
5,900.00	3,047.68	5,624.19	3,121.08	62.67	62.12	-179.32	-2,692.13	-2,787.26	1,704.12	1,581.51	122.61	13.899		
6,000.00	3,043.84	5,724.17	3,116.19	64.86	64.43	-179.32	-2,691.15	-2,887.12	1,702.95	1,575.78	127.17	13.391		
6,100.00	3,040.00	5,824.16	3,111.31	67.06	66.73	-179.32	-2,690.17	-2,986.98	1,701.78	1,570.05	131.74	12.918		
6,200.00	3,036.17	5,924.15	3,106.42	69.27	69.04	-179.32	-2,689.19	-3,086.85	1,700.62	1,564.31	136.31	12.476		
6,300.00	3,032.33	6,024.14	3,101.53	71.48	71.35	-179.32	-2,688.20	-3,186.71	1,699.45	1,558.57	140.89	12.063		
6,400.00	3,028.49	6,124.13	3,096.64	73.70	73.66	-179.32	-2,687.22	-3,286.58	1,698.29	1,552.82	145.47	11.675		
6,500.00	3,024.65	6,224.12	3,091.75	75.93	75.97	-179.33	-2,686.24	-3,386.44	1,697.12	1,547.07	150.05	11.310		
6,600.00	3,020.82	6,324.10	3,086.86	78.16	78.28	-179.33	-2,685.25	-3,486.30	1,695.96	1,541.32	154.64	10.967		
6,700.00	3,016.98	6,424.09	3,081.98	80.40	80.59	-179.33	-2,684.27	-3,586.17	1,694.80	1,535.56	159.24	10.643		
6,800.00	3,013.14	6,524.08	3,077.09	82.65	82.90	-179.33	-2,683.29	-3,686.03	1,693.63	1,529.80	163.83	10.338		
6,900.00	3,009.30	6,624.07	3,072.20	84.89	85.22	-179.33	-2,682.31	-3,785.89	1,692.47	1,524.04	168.43	10.048		
7,000.00	3,005.46	6,724.06	3,067.31	87.15	87.53	-179.33	-2,681.32	-3,885.76	1,691.31	1,518.27	173.04	9.774		
7,100.00	3,001.63	6,824.04	3,062.42	89.40	89.84	-179.34	-2,680.34	-3,985.62	1,690.15	1,512.51	177.64	9.514		
7,200.00	2,997.79	6,924.03	3,057.53	91.66	92.16	-179.34	-2,679.36	-4,085.49	1,688.99	1,506.74	182.25	9.268		
7,300.00	2,993.95	7,024.02	3,052.64	93.92	94.47	-179.34	-2,678.37	-4,185.35	1,687.83	1,500.97	186.86	9.033		
7,400.00	2,990.11	7,124.01	3,047.76	96.19	96.79	-179.34	-2,677.39	-4,285.21	1,686.67	1,495.20	191.47	8.809		
7,500.00	2,986.27	7,224.00	3,042.87	98.45	99.10	-179.34	-2,676.41	-4,385.08	1,685.51	1,489.43	196.08	8.596		
7,600.00	2,982.44	7,323.99	3,037.98	100.72	101.42	-179.34	-2,675.43	-4,484.94	1,684.35	1,483.66	200.70	8.393		
7,700.00	2,978.60	7,423.97	3,033.09	103.00	103.74	-179.35	-2,674.44	-4,584.80	1,683.20	1,477.88	205.31	8.198		
7,800.00	2,974.76	7,523.96	3,028.20	105.27	106.05	-179.35	-2,673.46	-4,684.67	1,682.04	1,472.11	209.93	8.012		
7,900.00	2,970.92	7,623.95	3,023.31	107.55	108.37	-179.35	-2,672.48	-4,784.53	1,680.88	1,466.33	214.55	7.834		

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

Stryker Directional
Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
8,000.00	2,967.09	7,723.94	3,018.43	109.83	110.69	-179.35	-2,671.49	-4,884.40	1,679.73	1,460.56	219.17	7.664			
8,100.00	2,963.25	7,823.93	3,013.54	112.11	113.00	-179.35	-2,670.51	-4,984.26	1,678.57	1,454.78	223.80	7.500			
8,200.00	2,959.41	7,923.91	3,008.65	114.39	115.32	-179.35	-2,669.53	-5,084.12	1,677.42	1,449.00	228.42	7.344			
8,300.00	2,955.57	8,023.90	3,003.76	116.67	117.64	-179.36	-2,668.55	-5,183.99	1,676.27	1,443.22	233.04	7.193			
8,400.00	2,951.73	8,123.89	2,998.87	118.96	119.96	-179.36	-2,667.56	-5,283.85	1,675.11	1,437.44	237.67	7.048			
8,500.00	2,947.90	8,223.88	2,993.98	121.25	122.28	-179.36	-2,666.58	-5,383.71	1,673.96	1,431.67	242.30	6.909			
8,600.00	2,944.06	8,323.87	2,989.09	123.53	124.59	-179.36	-2,665.60	-5,483.58	1,672.81	1,425.89	246.92	6.775			
8,700.00	2,940.22	8,423.86	2,984.21	125.82	126.91	-179.36	-2,664.61	-5,583.44	1,671.66	1,420.11	251.55	6.645			
8,800.00	2,936.38	8,523.84	2,979.32	128.11	129.23	-179.36	-2,663.63	-5,683.31	1,670.51	1,414.33	256.18	6.521			
8,900.00	2,932.55	8,623.83	2,974.43	130.41	131.55	-179.37	-2,662.65	-5,783.17	1,669.36	1,408.55	260.81	6.401			
9,000.00	2,928.71	8,723.82	2,969.54	132.70	133.87	-179.37	-2,661.67	-5,883.03	1,668.21	1,402.77	265.44	6.285			
9,100.00	2,924.87	8,823.81	2,964.65	134.99	136.19	-179.37	-2,660.68	-5,982.90	1,667.06	1,396.99	270.08	6.173			
9,148.72	2,923.00	8,872.52	2,962.27	136.11	137.32	-179.37	-2,660.20	-6,031.55	1,666.50	1,394.17	272.33	6.119	CC, ES, SF		

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,500.00	2,494.47	3,950.00	3,531.96	8.24	17.81	-162.37	-2,178.61	-703.59	2,437.03	2,412.40	24.63	98.946	
2,600.00	2,586.88	3,950.00	3,531.96	9.06	17.81	-162.50	-2,178.61	-703.59	2,364.56	2,339.19	25.38	93.173	
2,700.00	2,673.11	3,964.24	3,532.98	9.78	18.10	-162.30	-2,173.88	-716.98	2,284.93	2,258.65	26.28	86.947	
2,800.00	2,751.48	3,971.43	3,533.38	10.40	18.25	-162.32	-2,171.55	-723.78	2,199.02	2,172.08	26.94	81.625	
2,900.00	2,820.45	3,978.53	3,533.70	10.91	18.39	-162.38	-2,169.29	-730.50	2,107.84	2,080.35	27.49	76.678	
3,000.00	2,879.71	3,985.69	3,533.94	11.26	18.54	-162.47	-2,167.05	-737.29	2,012.87	1,984.96	27.91	72.108	
3,100.00	2,937.06	4,000.00	3,534.19	11.49	18.83	-162.36	-2,162.69	-750.92	1,917.65	1,889.21	28.45	67.415	
3,200.00	2,993.73	4,000.00	3,534.19	11.74	18.83	-162.75	-2,162.69	-750.92	1,822.81	1,794.09	28.72	63.476	
3,300.00	3,043.27	4,015.56	3,534.10	12.09	19.13	-163.07	-2,158.14	-765.80	1,728.99	1,699.68	29.31	58.988	
3,400.00	3,082.95	4,032.78	3,533.58	13.50	19.47	-163.89	-2,153.33	-782.32	1,638.79	1,608.83	29.96	54.697	
3,500.00	3,111.56	4,074.94	3,531.74	15.16	20.31	-164.34	-2,142.16	-822.94	1,555.02	1,523.84	31.17	49.884	
3,600.00	3,128.22	4,119.09	3,529.81	16.87	21.21	-165.22	-2,131.10	-865.64	1,480.62	1,448.02	32.60	45.418	
3,700.00	3,132.44	4,171.24	3,527.52	18.62	22.29	-166.24	-2,118.90	-916.28	1,418.38	1,383.94	34.45	41.175	
3,800.00	3,128.71	4,228.71	3,525.00	20.26	23.50	-167.36	-2,106.52	-972.35	1,366.74	1,330.21	36.53	37.415	
3,900.00	3,124.84	4,300.00	3,521.87	22.04	25.02	-168.03	-2,092.73	-1,042.22	1,319.96	1,280.79	39.17	33.701	
4,000.00	3,120.96	4,351.62	3,519.60	23.88	26.12	-169.75	-2,083.83	-1,093.02	1,277.92	1,236.15	41.77	30.593	
4,100.00	3,117.07	4,416.65	3,516.73	25.76	27.52	-171.03	-2,073.93	-1,157.22	1,241.01	1,196.25	44.76	27.725	
4,200.00	3,113.17	4,483.75	3,513.78	27.67	28.96	-172.34	-2,065.25	-1,223.69	1,209.31	1,161.36	47.94	25.223	
4,300.00	3,109.26	4,552.67	3,510.75	29.62	30.44	-173.70	-2,057.95	-1,292.15	1,182.94	1,131.65	51.28	23.066	
4,400.00	3,105.37	4,623.08	3,507.66	31.58	31.96	-175.09	-2,052.20	-1,362.26	1,162.00	1,107.25	54.75	21.223	
4,500.00	3,101.47	4,700.00	3,504.29	33.57	33.61	-176.22	-2,047.90	-1,438.98	1,146.60	1,088.21	58.39	19.638	
4,600.00	3,097.60	4,767.09	3,501.36	35.57	35.04	-177.95	-2,045.83	-1,505.98	1,136.74	1,074.78	61.95	18.348	
4,700.00	3,093.74	4,857.02	3,497.43	37.57	36.93	-178.48	-2,044.82	-1,595.82	1,132.04	1,066.18	65.86	17.189	
4,800.00	3,089.90	4,957.01	3,493.07	39.54	39.03	-178.48	-2,043.83	-1,695.70	1,130.37	1,060.48	69.89	16.174	
4,900.00	3,086.06	5,057.00	3,488.71	41.53	41.15	-178.48	-2,042.85	-1,795.59	1,129.14	1,055.18	73.95	15.268	
5,000.00	3,082.22	5,156.99	3,484.35	43.55	43.30	-178.48	-2,041.87	-1,895.49	1,127.90	1,049.84	78.06	14.450	
5,100.00	3,078.38	5,256.98	3,479.99	45.60	45.46	-178.48	-2,040.89	-1,995.38	1,126.66	1,044.48	82.19	13.708	
5,200.00	3,074.54	5,356.98	3,475.63	47.67	47.64	-178.48	-2,039.90	-2,095.27	1,125.43	1,039.08	86.35	13.034	
5,300.00	3,070.71	5,456.97	3,471.27	49.76	49.82	-178.48	-2,038.92	-2,195.16	1,124.19	1,033.67	90.53	12.419	
5,400.00	3,066.87	5,556.96	3,466.91	51.88	52.02	-178.48	-2,037.94	-2,295.05	1,122.96	1,028.24	94.72	11.855	
5,500.00	3,063.03	5,656.95	3,462.55	54.01	54.23	-178.48	-2,036.96	-2,394.95	1,121.72	1,022.79	98.94	11.338	
5,600.00	3,059.19	5,756.94	3,458.19	56.15	56.45	-178.48	-2,035.98	-2,494.84	1,120.49	1,017.32	103.17	10.861	
5,700.00	3,055.36	5,856.94	3,453.83	58.31	58.68	-178.48	-2,034.99	-2,594.73	1,119.25	1,011.85	107.41	10.421	
5,800.00	3,051.52	5,956.93	3,449.47	60.48	60.91	-178.48	-2,034.01	-2,694.62	1,118.02	1,006.36	111.66	10.013	
5,900.00	3,047.68	6,056.92	3,445.11	62.67	63.15	-178.48	-2,033.03	-2,794.52	1,116.78	1,000.86	115.92	9.634	
6,000.00	3,043.84	6,156.91	3,440.75	64.86	65.39	-178.48	-2,032.05	-2,894.41	1,115.55	995.36	120.19	9.281	
6,100.00	3,040.00	6,256.91	3,436.39	67.06	67.64	-178.48	-2,031.06	-2,994.30	1,114.31	989.84	124.47	8.952	
6,200.00	3,036.17	6,356.90	3,432.03	69.27	69.90	-178.48	-2,030.08	-3,094.19	1,113.08	984.32	128.76	8.645	
6,300.00	3,032.33	6,456.89	3,427.67	71.48	72.16	-178.49	-2,029.10	-3,194.09	1,111.84	978.79	133.05	8.356	
6,400.00	3,028.49	6,556.88	3,423.31	73.70	74.42	-178.49	-2,028.12	-3,293.98	1,110.61	973.26	137.35	8.086	
6,500.00	3,024.65	6,656.88	3,418.95	75.93	76.68	-178.49	-2,027.13	-3,393.87	1,109.37	967.72	141.66	7.831	
6,600.00	3,020.82	6,756.87	3,414.59	78.16	78.95	-178.49	-2,026.15	-3,493.76	1,108.14	962.17	145.97	7.592	
6,700.00	3,016.98	6,856.86	3,410.23	80.40	81.23	-178.49	-2,025.17	-3,593.66	1,106.90	956.62	150.28	7.366	
6,800.00	3,013.14	6,956.85	3,405.87	82.65	83.50	-178.49	-2,024.19	-3,693.55	1,105.67	951.07	154.60	7.152	
6,900.00	3,009.30	7,056.84	3,401.51	84.89	85.78	-178.49	-2,023.20	-3,793.44	1,104.43	945.51	158.92	6.949	
7,000.00	3,005.46	7,156.84	3,397.15	87.15	88.06	-178.49	-2,022.22	-3,893.33	1,103.20	939.95	163.25	6.758	
7,100.00	3,001.63	7,256.83	3,392.79	89.40	90.34	-178.49	-2,021.24	-3,993.23	1,101.96	934.38	167.58	6.576	
7,200.00	2,997.79	7,356.82	3,388.43	91.66	92.63	-178.49	-2,020.26	-4,093.12	1,100.73	928.81	171.91	6.403	
7,300.00	2,993.95	7,456.81	3,384.07	93.92	94.91	-178.49	-2,019.27	-4,193.01	1,099.49	923.24	176.25	6.238	
7,400.00	2,990.11	7,556.81	3,379.71	96.19	97.20	-178.49	-2,018.29	-4,292.90	1,098.26	917.67	180.59	6.082	
7,500.00	2,986.27	7,656.80	3,375.35	98.45	99.49	-178.49	-2,017.31	-4,392.79	1,097.02	912.09	184.93	5.932	
7,600.00	2,982.44	7,756.79	3,370.99	100.72	101.78	-178.49	-2,016.33	-4,492.69	1,095.79	906.51	189.27	5.789	

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

Stryker Directional
Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,700.00	2,978.60	7,856.78	3,366.63	103.00	104.07	-178.49	-2,015.34	-4,592.58	1,094.55	900.93	193.62	5.653		
7,800.00	2,974.76	7,956.78	3,362.27	105.27	106.37	-178.49	-2,014.36	-4,692.47	1,093.32	895.35	197.97	5.523		
7,900.00	2,970.92	8,056.77	3,357.91	107.55	108.66	-178.49	-2,013.38	-4,792.36	1,092.08	889.76	202.32	5.398		
8,000.00	2,967.09	8,156.76	3,353.55	109.83	110.96	-178.49	-2,012.40	-4,892.26	1,090.85	884.18	206.67	5.278		
8,100.00	2,963.25	8,256.75	3,349.19	112.11	113.26	-178.49	-2,011.42	-4,992.15	1,089.61	878.59	211.02	5.163		
8,200.00	2,959.41	8,356.75	3,344.83	114.39	115.56	-178.49	-2,010.43	-5,092.04	1,088.38	873.00	215.38	5.053		
8,300.00	2,955.57	8,456.74	3,340.46	116.67	117.86	-178.49	-2,009.45	-5,191.93	1,087.14	867.41	219.73	4.948		
8,400.00	2,951.73	8,556.73	3,336.10	118.96	120.16	-178.49	-2,008.47	-5,291.83	1,085.91	861.81	224.09	4.846		
8,500.00	2,947.90	8,656.72	3,331.74	121.25	122.46	-178.49	-2,007.49	-5,391.72	1,084.67	856.22	228.45	4.748		
8,600.00	2,944.06	8,756.71	3,327.38	123.53	124.76	-178.49	-2,006.50	-5,491.61	1,083.44	850.62	232.81	4.654		
8,700.00	2,940.22	8,856.71	3,323.02	125.82	127.06	-178.49	-2,005.52	-5,591.50	1,082.20	845.02	237.18	4.563		
8,800.00	2,936.38	8,956.70	3,318.66	128.11	129.37	-178.49	-2,004.54	-5,691.40	1,080.97	839.42	241.54	4.475		
8,900.00	2,932.55	9,056.69	3,314.30	130.41	131.67	-178.49	-2,003.56	-5,791.29	1,079.73	833.82	245.91	4.391		
9,000.00	2,928.71	9,156.68	3,309.94	132.70	133.97	-178.49	-2,002.57	-5,891.18	1,078.50	828.22	250.27	4.309		
9,100.00	2,924.87	9,256.68	3,305.58	134.99	136.28	-178.49	-2,001.59	-5,991.07	1,077.26	822.62	254.64	4.231		
9,148.72	2,923.00	9,293.47	3,303.98	136.11	137.13	-179.17	-2,001.23	-6,027.83	1,076.73	820.16	256.56	4.197	CC, ES, SF	

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,900.00	2,820.45	2,710.12	2,713.23	10.91	7.54	178.29	-2,752.64	-55.97	2,477.21	2,459.95	17.26	143.534		
3,000.00	2,879.71	2,774.32	2,777.27	11.26	7.68	177.51	-2,755.52	-59.40	2,408.15	2,390.42	17.74	135.768		
3,100.00	2,937.06	2,800.00	2,802.86	11.49	7.73	176.62	-2,756.87	-61.01	2,338.72	2,320.59	18.12	129.033		
3,200.00	2,993.73	2,820.87	2,823.60	11.74	7.85	175.65	-2,758.39	-62.82	2,271.14	2,252.53	18.61	122.058		
3,300.00	3,043.27	2,850.00	2,852.41	12.09	8.02	174.34	-2,761.16	-66.12	2,208.03	2,188.65	19.38	113.928		
3,400.00	3,082.95	2,850.00	2,852.41	13.50	8.02	172.51	-2,761.16	-66.12	2,152.20	2,131.90	20.30	106.023		
3,500.00	3,111.56	2,881.14	2,882.98	15.16	8.29	170.43	-2,764.95	-70.64	2,105.99	2,084.47	21.52	97.866		
3,600.00	3,128.22	2,900.00	2,901.36	16.87	8.46	168.00	-2,767.66	-73.87	2,072.00	2,049.03	22.97	90.201		
3,700.00	3,132.44	2,900.00	2,901.36	18.62	8.46	165.27	-2,767.66	-73.87	2,052.00	2,027.35	24.65	83.237		
3,800.00	3,128.71	2,917.55	2,918.36	20.26	8.61	162.58	-2,770.46	-77.21	2,044.42	2,018.01	26.41	77.418		
3,840.59	3,127.14	2,921.55	2,922.22	20.98	8.64	161.46	-2,771.14	-78.01	2,043.74	2,016.54	27.20	75.149	CC, ES	
3,900.00	3,124.84	2,927.73	2,928.17	22.04	8.69	159.83	-2,772.21	-79.29	2,045.20	2,016.84	28.36	72.123		
4,000.00	3,120.96	2,950.00	2,949.49	23.88	8.89	157.21	-2,776.34	-84.22	2,054.25	2,023.85	30.41	67.562		
4,100.00	3,117.07	2,950.00	2,949.49	25.76	8.89	154.47	-2,776.34	-84.22	2,071.29	2,038.85	32.44	63.853		
4,200.00	3,113.17	2,965.95	2,964.63	27.67	9.01	151.94	-2,779.56	-88.05	2,096.23	2,061.76	34.47	60.817		
4,300.00	3,109.26	2,982.00	2,979.76	29.62	9.14	149.52	-2,783.03	-92.18	2,128.69	2,092.26	36.43	58.427		
4,400.00	3,105.37	3,000.00	2,996.56	31.58	9.29	147.24	-2,787.16	-97.11	2,168.27	2,129.96	38.31	56.593		
4,500.00	3,101.47	3,021.01	3,015.97	33.57	9.45	145.13	-2,792.33	-103.27	2,214.50	2,174.40	40.11	55.216		
4,600.00	3,097.60	3,044.88	3,037.72	35.57	9.64	143.21	-2,798.65	-110.80	2,266.89	2,225.09	41.79	54.240		
4,700.00	3,093.74	3,072.44	3,062.41	37.57	9.84	141.49	-2,806.52	-120.18	2,324.89	2,281.50	43.39	53.580		
4,800.00	3,089.90	3,104.59	3,090.60	39.54	10.07	139.97	-2,816.46	-132.02	2,387.67	2,342.80	44.87	53.211		
4,900.00	3,086.06	5,094.65	3,506.34	41.53	40.13	-178.98	-3,362.46	-1,809.90	2,411.42	2,336.16	75.26	32.042		
5,000.00	3,082.22	5,194.64	3,501.81	43.55	42.26	-178.98	-3,361.48	-1,909.78	2,410.20	2,330.64	79.55	30.296		
5,100.00	3,078.38	5,294.63	3,497.27	45.60	44.41	-178.98	-3,360.51	-2,009.66	2,408.98	2,325.10	83.88	28.719		
5,200.00	3,074.54	5,394.62	3,492.74	47.67	46.57	-178.98	-3,359.53	-2,109.55	2,407.76	2,319.52	88.24	27.287		
5,300.00	3,070.71	5,494.61	3,488.20	49.76	48.75	-178.98	-3,358.56	-2,209.43	2,406.54	2,313.93	92.61	25.984		
5,400.00	3,066.87	5,594.60	3,483.67	51.88	50.94	-178.98	-3,357.58	-2,309.32	2,405.32	2,308.31	97.01	24.794		
5,500.00	3,063.03	5,694.60	3,479.13	54.01	53.14	-178.98	-3,356.61	-2,409.20	2,404.10	2,302.67	101.43	23.703		
5,600.00	3,059.19	5,794.59	3,474.60	56.15	55.35	-178.98	-3,355.63	-2,509.08	2,402.88	2,297.03	105.86	22.699		
5,700.00	3,055.36	5,894.58	3,470.06	58.31	57.56	-178.98	-3,354.66	-2,608.97	2,401.66	2,291.36	110.30	21.774		
5,800.00	3,051.52	5,994.57	3,465.53	60.48	59.79	-178.99	-3,353.68	-2,708.85	2,400.45	2,285.69	114.76	20.918		
5,900.00	3,047.68	6,094.56	3,460.99	62.67	62.02	-178.99	-3,352.71	-2,808.73	2,399.23	2,280.00	119.22	20.124		
6,000.00	3,043.84	6,194.55	3,456.46	64.86	64.26	-178.99	-3,351.73	-2,908.62	2,398.01	2,274.31	123.70	19.386		
6,100.00	3,040.00	6,294.54	3,451.92	67.06	66.51	-178.99	-3,350.76	-3,008.50	2,396.79	2,268.61	128.18	18.698		
6,200.00	3,036.17	6,394.53	3,447.39	69.27	68.76	-178.99	-3,349.78	-3,108.39	2,395.57	2,262.90	132.67	18.056		
6,300.00	3,032.33	6,494.53	3,442.85	71.48	71.01	-178.99	-3,348.81	-3,208.27	2,394.35	2,257.18	137.17	17.455		
6,400.00	3,028.49	6,594.52	3,438.32	73.70	73.27	-178.99	-3,347.83	-3,308.15	2,393.13	2,251.46	141.68	16.892		
6,500.00	3,024.65	6,694.51	3,433.78	75.93	75.53	-178.99	-3,346.86	-3,408.04	2,391.92	2,245.73	146.19	16.362		
6,600.00	3,020.82	6,794.50	3,429.25	78.16	77.80	-178.99	-3,345.88	-3,507.92	2,390.70	2,240.00	150.70	15.864		
6,700.00	3,016.98	6,894.49	3,424.71	80.40	80.07	-178.99	-3,344.91	-3,607.80	2,389.48	2,234.26	155.22	15.394		
6,800.00	3,013.14	6,994.48	3,420.18	82.65	82.34	-178.99	-3,343.93	-3,707.69	2,388.26	2,228.51	159.75	14.950		
6,900.00	3,009.30	7,094.47	3,415.64	84.89	84.61	-178.99	-3,342.96	-3,807.57	2,387.05	2,222.77	164.28	14.531		
7,000.00	3,005.46	7,194.47	3,411.11	87.15	86.89	-178.99	-3,341.99	-3,907.46	2,385.83	2,217.02	168.81	14.133		
7,100.00	3,001.63	7,294.46	3,406.57	89.40	89.17	-178.99	-3,341.01	-4,007.34	2,384.61	2,211.26	173.35	13.756		
7,200.00	2,997.79	7,394.45	3,402.04	91.66	91.45	-178.99	-3,340.04	-4,107.22	2,383.39	2,205.51	177.89	13.398		
7,300.00	2,993.95	7,494.44	3,397.50	93.92	93.74	-178.99	-3,339.06	-4,207.11	2,382.18	2,199.75	182.43	13.058		
7,400.00	2,990.11	7,594.43	3,392.97	96.19	96.02	-178.99	-3,338.09	-4,306.99	2,380.96	2,193.98	186.98	12.734		
7,500.00	2,986.27	7,694.42	3,388.43	98.45	98.31	-178.99	-3,337.11	-4,406.87	2,379.74	2,188.22	191.52	12.425		
7,600.00	2,982.44	7,794.41	3,383.90	100.72	100.60	-179.00	-3,336.14	-4,506.76	2,378.52	2,182.45	196.08	12.131		
7,700.00	2,978.60	7,894.41	3,379.37	103.00	102.89	-179.00	-3,335.16	-4,606.64	2,377.31	2,176.68	200.63	11.849		
7,800.00	2,974.76	7,994.40	3,374.83	105.27	105.18	-179.00	-3,334.19	-4,706.52	2,376.09	2,170.91	205.18	11.580		
7,900.00	2,970.92	8,094.39	3,370.30	107.55	107.47	-179.00	-3,333.21	-4,806.41	2,374.87	2,165.13	209.74	11.323		

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

Stryker Directional
Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,000.00	2,967.09	8,194.38	3,365.76	109.83	109.77	-179.00	-3,332.24	-4,906.29	2,373.66	2,159.36	214.30	11.076		
8,100.00	2,963.25	8,294.37	3,361.23	112.11	112.06	-179.00	-3,331.26	-5,006.18	2,372.44	2,153.58	218.86	10.840		
8,200.00	2,959.41	8,394.36	3,356.69	114.39	114.36	-179.00	-3,330.29	-5,106.06	2,371.23	2,147.80	223.43	10.613		
8,300.00	2,955.57	8,494.35	3,352.16	116.67	116.66	-179.00	-3,329.31	-5,205.94	2,370.01	2,142.02	227.99	10.395		
8,400.00	2,951.73	8,594.34	3,347.62	118.96	118.96	-179.00	-3,328.34	-5,305.83	2,368.79	2,136.24	232.56	10.186		
8,500.00	2,947.90	8,694.34	3,343.09	121.25	121.26	-179.00	-3,327.36	-5,405.71	2,367.58	2,130.45	237.12	9.985		
8,600.00	2,944.06	8,794.33	3,338.55	123.53	123.56	-179.00	-3,326.39	-5,505.59	2,366.36	2,124.67	241.69	9.791		
8,700.00	2,940.22	8,894.32	3,334.02	125.82	125.86	-179.00	-3,325.41	-5,605.48	2,365.15	2,118.88	246.27	9.604		
8,800.00	2,936.38	8,994.31	3,329.48	128.11	128.16	-179.00	-3,324.44	-5,705.36	2,363.93	2,113.09	250.84	9.424		
8,900.00	2,932.55	9,094.30	3,324.95	130.41	130.46	-179.00	-3,323.46	-5,805.25	2,362.71	2,107.30	255.41	9.251		
9,000.00	2,928.71	9,194.29	3,320.41	132.70	132.77	-179.00	-3,322.49	-5,905.13	2,361.50	2,101.51	259.99	9.083		
9,100.00	2,924.87	9,294.28	3,315.88	134.99	135.07	-179.00	-3,321.51	-6,005.01	2,360.28	2,095.72	264.56	8.922		
9,148.72	2,923.00	9,336.27	3,313.97	136.11	136.04	-179.17	-3,321.11	-6,046.95	2,359.70	2,092.99	266.71	8.847 SF		

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

Stryker Directional
Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,000.00	2,879.71	2,500.00	2,502.64	11.26	7.50	177.22	-2,793.16	-45.65	2,473.12	2,455.01	18.11	136.533		
3,100.00	2,937.06	2,550.00	2,551.74	11.49	7.96	176.43	-2,801.30	-50.35	2,410.86	2,392.02	18.84	127.979		
3,200.00	2,993.73	2,550.00	2,551.74	11.74	7.96	175.42	-2,801.30	-50.35	2,350.45	2,331.18	19.27	121.990		
3,300.00	3,043.27	2,570.97	2,572.11	12.09	8.15	174.12	-2,805.60	-52.83	2,294.22	2,274.09	20.13	113.980		
3,400.00	3,082.95	2,600.00	2,600.06	13.50	8.41	172.44	-2,812.39	-56.75	2,244.40	2,223.19	21.21	105.816		
3,500.00	3,111.56	2,600.00	2,600.06	15.16	8.41	170.27	-2,812.39	-56.75	2,202.86	2,180.56	22.30	98.776		
3,600.00	3,128.22	2,600.00	2,600.06	16.87	8.41	167.80	-2,812.39	-56.75	2,172.06	2,148.42	23.64	91.886		
3,700.00	3,132.44	2,625.40	2,624.23	18.62	8.62	165.28	-2,819.14	-60.65	2,152.94	2,127.56	25.38	84.839		
3,800.00	3,128.71	2,632.29	2,630.74	20.26	8.68	162.59	-2,821.10	-61.78	2,145.10	2,118.07	27.03	79.361		
3,849.54	3,126.80	2,650.00	2,647.37	21.14	8.83	161.36	-2,826.38	-64.83	2,144.34	2,116.31	28.03	76.508	CC, ES	
3,900.00	3,124.84	2,650.00	2,647.37	22.04	8.83	159.97	-2,826.38	-64.83	2,145.36	2,116.42	28.94	74.122		
4,000.00	3,120.96	2,650.00	2,647.37	23.88	8.83	157.25	-2,826.38	-64.83	2,153.44	2,122.61	30.84	69.833		
4,100.00	3,117.07	2,650.00	2,647.37	25.76	8.83	154.58	-2,826.38	-64.83	2,169.46	2,136.71	32.75	66.249		
4,200.00	3,113.17	2,650.00	2,647.37	27.67	8.83	151.98	-2,826.38	-64.83	2,193.23	2,158.60	34.63	63.329		
4,300.00	3,109.26	2,669.30	2,665.31	29.62	8.99	149.64	-2,832.53	-68.38	2,224.24	2,187.67	36.58	60.809		
4,400.00	3,105.37	2,677.11	2,672.52	31.58	9.05	147.32	-2,835.14	-69.89	2,262.41	2,224.04	38.37	58.961		
4,500.00	3,101.47	2,684.99	2,679.75	33.57	9.11	145.13	-2,837.85	-71.45	2,307.26	2,267.19	40.07	57.587		
4,600.00	3,097.60	2,700.00	2,693.44	35.57	9.24	143.15	-2,843.18	-74.53	2,358.37	2,316.68	41.69	56.565		
4,700.00	3,093.74	2,700.00	2,693.44	37.57	9.24	141.18	-2,843.18	-74.53	2,415.24	2,372.13	43.11	56.028		
4,800.00	3,089.90	2,700.00	2,693.44	39.54	9.24	139.34	-2,843.18	-74.53	2,477.19	2,432.82	44.37	55.832	SF	

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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												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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
6,900.00	3,009.30	2,998.61	3,009.30	84.89	71.64	-123.26	-2,353.84	-5,843.93	2,484.77	2,377.95	106.83	23.260	
7,000.00	3,005.46	2,994.77	3,005.46	87.15	71.56	-124.56	-2,353.84	-5,843.93	2,401.76	2,292.12	109.64	21.907	
7,100.00	3,001.63	2,982.37	2,993.11	89.40	71.30	-125.96	-2,353.77	-5,843.93	2,320.06	2,207.56	112.50	20.623	
7,200.00	2,997.79	2,978.66	2,989.40	91.66	71.22	-127.46	-2,353.75	-5,843.93	2,239.84	2,124.10	115.75	19.351	
7,300.00	2,993.95	2,974.96	2,985.70	93.92	71.15	-129.07	-2,353.73	-5,843.93	2,161.28	2,042.05	119.23	18.127	
7,400.00	2,990.11	2,971.25	2,981.99	96.19	71.07	-130.79	-2,353.70	-5,843.93	2,084.54	1,961.58	122.96	16.954	
7,500.00	2,986.27	2,967.54	2,978.28	98.45	70.99	-132.65	-2,353.68	-5,843.93	2,009.84	1,882.90	126.94	15.833	
7,600.00	2,982.44	2,963.84	2,974.58	100.72	70.92	-134.65	-2,353.66	-5,843.93	1,937.41	1,806.23	131.18	14.769	
7,700.00	2,978.60	2,960.13	2,970.87	103.00	70.84	-136.80	-2,353.64	-5,843.93	1,867.53	1,731.84	135.69	13.764	
7,800.00	2,974.76	2,956.43	2,967.17	105.27	70.76	-139.12	-2,353.62	-5,843.93	1,800.48	1,660.02	140.46	12.819	
7,900.00	2,970.92	2,952.72	2,963.46	107.55	70.69	-141.61	-2,353.60	-5,843.93	1,736.59	1,591.11	145.48	11.937	
8,000.00	2,967.09	2,949.02	2,959.76	109.83	70.61	-144.28	-2,353.58	-5,843.93	1,676.23	1,525.50	150.74	11.120	
8,100.00	2,963.25	2,945.31	2,956.05	112.11	70.53	-147.15	-2,353.56	-5,843.93	1,619.80	1,463.60	156.20	10.370	
8,200.00	2,959.41	2,941.60	2,952.34	114.39	70.45	-150.22	-2,353.54	-5,843.93	1,567.70	1,405.88	161.82	9.688	
8,300.00	2,955.57	2,937.90	2,948.64	116.67	70.38	-153.48	-2,353.52	-5,843.93	1,520.40	1,352.86	167.54	9.075	
8,400.00	2,951.73	2,934.19	2,944.93	118.96	70.30	-156.95	-2,353.50	-5,843.93	1,478.34	1,305.07	173.28	8.532	
8,500.00	2,947.90	2,930.49	2,941.23	121.25	70.22	-160.60	-2,353.48	-5,843.93	1,442.00	1,263.07	178.93	8.059	
8,600.00	2,944.06	2,926.78	2,937.52	123.53	70.15	-164.43	-2,353.46	-5,843.93	1,411.81	1,227.42	184.39	7.657	
8,700.00	2,940.22	2,923.07	2,933.82	125.82	70.07	-168.40	-2,353.45	-5,843.93	1,388.17	1,198.63	189.54	7.324	
8,800.00	2,936.38	2,919.37	2,930.11	128.11	69.99	-172.49	-2,353.43	-5,843.93	1,371.42	1,177.17	194.25	7.060	
8,900.00	2,932.55	2,915.66	2,926.40	130.41	69.92	-176.66	-2,353.41	-5,843.93	1,361.82	1,163.41	198.41	6.864	
8,981.43	2,929.42	2,912.64	2,923.39	132.27	69.85	179.91	-2,353.40	-5,843.93	1,359.38	1,158.06	201.33	6.752	CC
9,000.00	2,928.71	2,911.95	2,922.70	132.70	69.84	179.13	-2,353.39	-5,843.93	1,359.51	1,157.58	201.93	6.733	ES
9,100.00	2,924.87	2,908.25	2,918.99	134.99	69.76	174.93	-2,353.38	-5,843.93	1,364.54	1,159.80	204.73	6.665	
9,148.72	2,923.00	2,906.44	2,917.19	136.11	69.73	172.90	-2,353.37	-5,843.93	1,369.62	1,163.79	205.83	6.654	SF

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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
Horned Frog/Maverick Offsets - McCall #2 - Wellbore #1 - Surveys													Offset Well Error:	0.00 usft
Survey Program: 900-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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,700.00	2,978.60	1,125.00	1,138.91	103.00	54.88	-145.38	-2,353.87	-5,505.68	2,474.32	2,376.66	97.66	25.336		
7,800.00	2,974.76	1,125.00	1,138.91	105.27	54.88	-148.32	-2,353.87	-5,505.68	2,435.14	2,335.38	99.76	24.410		
7,900.00	2,970.92	1,125.00	1,138.91	107.55	54.88	-151.46	-2,353.87	-5,505.68	2,399.48	2,297.59	101.89	23.549		
8,000.00	2,967.09	1,125.00	1,138.91	109.83	54.88	-154.81	-2,353.87	-5,505.68	2,367.51	2,263.45	104.06	22.751		
8,100.00	2,963.25	1,125.00	1,138.91	112.11	54.88	-158.35	-2,353.87	-5,505.68	2,339.39	2,233.14	106.25	22.018		
8,200.00	2,959.41	1,125.00	1,138.91	114.39	54.88	-162.07	-2,353.87	-5,505.68	2,315.25	2,206.79	108.46	21.347		
8,300.00	2,955.57	1,125.00	1,138.91	116.67	54.88	-165.95	-2,353.87	-5,505.68	2,295.21	2,184.53	110.67	20.739		
8,400.00	2,951.73	1,125.00	1,138.91	118.96	54.88	-169.97	-2,353.87	-5,505.68	2,279.39	2,166.49	112.89	20.191		
8,500.00	2,947.90	1,125.00	1,138.91	121.25	54.88	-174.10	-2,353.87	-5,505.68	2,267.87	2,152.77	115.10	19.703		
8,600.00	2,944.06	1,125.00	1,138.91	123.53	54.88	-178.28	-2,353.87	-5,505.68	2,260.72	2,143.43	117.29	19.275		
8,700.00	2,940.22	1,125.00	1,138.91	125.82	54.88	-177.51	-2,353.87	-5,505.68	2,257.98	2,138.53	119.44	18.904		
8,711.91	2,939.76	1,125.00	1,138.91	126.10	54.88	-177.01	-2,353.87	-5,505.68	2,257.94	2,138.25	119.70	18.864	CC	
8,800.00	2,936.38	1,125.00	1,138.91	128.11	54.88	-173.33	-2,353.87	-5,505.68	2,259.66	2,138.11	121.55	18.590	ES	
8,900.00	2,932.55	1,125.00	1,138.91	130.41	54.88	-169.22	-2,353.87	-5,505.68	2,265.76	2,142.17	123.59	18.332		
9,000.00	2,928.71	1,125.00	1,138.91	132.70	54.88	-165.21	-2,353.87	-5,505.68	2,276.25	2,150.69	125.56	18.129		
9,100.00	2,924.87	1,125.00	1,138.91	134.99	54.88	-161.35	-2,353.87	-5,505.68	2,291.05	2,163.62	127.43	17.979		
9,148.72	2,923.00	1,125.00	1,138.91	136.11	54.88	-159.53	-2,353.87	-5,505.68	2,299.81	2,171.50	128.30	17.925	SF	

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

Stryker Directional Anticollision Report



BURNETT OIL CO., INC.

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
3,300.00	3,043.27	3,024.42	3,043.27	12.09	62.92	-92.50	-680.45	-2,768.88	2,488.20	2,413.51	74.69	33.312			
3,400.00	3,082.95	3,064.10	3,082.95	13.50	63.76	-90.97	-680.45	-2,768.88	2,424.17	2,347.49	76.67	31.618			
3,500.00	3,111.56	3,092.70	3,111.56	15.16	64.37	-89.51	-680.45	-2,768.88	2,350.14	2,271.79	78.36	29.993			
3,600.00	3,128.22	3,109.37	3,128.22	16.87	64.72	-88.16	-680.45	-2,768.88	2,267.96	2,188.24	79.72	28.450			
3,700.00	3,132.44	3,113.59	3,132.44	18.62	64.81	-86.97	-680.45	-2,768.88	2,179.61	2,098.90	80.71	27.006			
3,800.00	3,128.71	3,109.86	3,128.71	20.26	64.73	-85.89	-680.45	-2,768.88	2,088.15	2,006.72	81.42	25.646			
3,900.00	3,124.84	3,105.99	3,124.84	22.04	64.65	-84.80	-680.45	-2,768.88	1,996.02	1,913.84	82.17	24.290			
4,000.00	3,120.96	3,102.11	3,120.96	23.88	64.57	-83.71	-680.45	-2,768.88	1,903.28	1,820.32	82.96	22.942			
4,100.00	3,117.07	3,098.22	3,117.07	25.76	64.49	-82.60	-680.45	-2,768.88	1,809.98	1,726.20	83.78	21.605			
4,200.00	3,113.17	3,094.31	3,113.17	27.67	64.40	-81.49	-680.45	-2,768.88	1,716.12	1,631.51	84.62	20.281			
4,300.00	3,109.26	3,090.41	3,109.26	29.62	64.32	-80.36	-680.45	-2,768.88	1,621.76	1,536.27	85.49	18.971			
4,400.00	3,105.37	3,086.51	3,105.37	31.58	64.24	-79.22	-680.45	-2,768.88	1,526.90	1,440.52	86.38	17.676			
4,500.00	3,101.47	3,082.62	3,101.47	33.57	64.16	-78.06	-680.45	-2,768.88	1,431.59	1,344.29	87.30	16.398			
4,600.00	3,097.60	3,078.75	3,097.60	35.57	64.07	-76.87	-680.45	-2,768.88	1,335.86	1,247.61	88.25	15.137			
4,700.00	3,093.74	3,074.89	3,093.74	37.57	63.99	-75.66	-680.45	-2,768.88	1,239.73	1,150.50	89.23	13.894			
4,800.00	3,089.90	3,071.05	3,089.90	39.54	63.91	-74.39	-680.45	-2,768.88	1,143.35	1,053.10	90.25	12.669			
4,900.00	3,086.06	3,067.21	3,086.06	41.53	63.83	-72.91	-680.45	-2,768.88	1,047.50	956.05	91.45	11.454			
5,000.00	3,082.22	3,063.37	3,082.22	43.55	63.75	-71.13	-680.45	-2,768.88	952.49	859.58	92.91	10.252			
5,100.00	3,078.38	3,059.53	3,078.38	45.60	63.67	-68.97	-680.45	-2,768.88	858.59	763.90	94.69	9.067			
5,200.00	3,074.54	3,055.69	3,074.54	47.67	63.59	-66.27	-680.45	-2,768.88	766.22	669.32	96.90	7.907			
5,300.00	3,070.71	3,051.86	3,070.71	49.76	63.50	-62.85	-680.45	-2,768.88	676.00	576.34	99.66	6.783			
5,400.00	3,066.87	3,048.02	3,066.87	51.88	63.42	-58.40	-680.45	-2,768.88	588.92	485.78	103.14	5.710			
5,500.00	3,063.03	3,044.18	3,063.03	54.01	63.34	-52.46	-680.45	-2,768.88	506.61	399.09	107.52	4.712			
5,600.00	3,059.19	3,040.34	3,059.19	56.15	63.26	-44.33	-680.45	-2,768.88	431.79	318.94	112.86	3.826			
5,700.00	3,055.36	3,036.50	3,055.36	58.31	63.18	-33.15	-680.45	-2,768.88	369.07	250.34	118.73	3.109			
5,800.00	3,051.52	3,032.67	3,051.52	60.48	63.10	-18.24	-680.45	-2,768.88	325.49	202.04	123.46	2.637			
5,900.00	3,047.68	3,028.83	3,047.68	62.67	63.02	-0.37	-680.45	-2,768.88	309.28	185.28	124.00	2.494 CC, ES, SF			
5,904.45	3,047.51	3,028.66	3,047.51	62.76	63.01	0.46	-680.45	-2,768.88	309.29	185.40	123.89	2.497			
6,000.00	3,043.84	3,024.99	3,043.84	64.86	62.94	17.57	-680.45	-2,768.88	324.55	205.68	118.87	2.730			
6,100.00	3,040.00	3,021.15	3,040.00	67.06	62.85	32.59	-680.45	-2,768.88	367.39	256.81	110.58	3.322			
6,200.00	3,036.17	3,017.32	3,036.17	69.27	62.77	43.88	-680.45	-2,768.88	429.65	327.26	102.38	4.197			
6,300.00	3,032.33	3,013.48	3,032.33	71.48	62.69	52.08	-680.45	-2,768.88	504.17	408.53	95.64	5.272			
6,400.00	3,028.49	3,009.64	3,028.49	73.70	62.61	58.08	-680.45	-2,768.88	586.30	495.84	90.46	6.482			
6,500.00	3,024.65	3,005.80	3,024.65	75.93	62.53	62.57	-680.45	-2,768.88	673.26	586.71	86.55	7.779			
6,600.00	3,020.82	3,001.96	3,020.82	78.16	62.45	66.02	-680.45	-2,768.88	763.40	679.80	83.60	9.132			
6,700.00	3,016.98	2,998.13	3,016.98	80.40	62.37	68.73	-680.45	-2,768.88	855.51	774.34	81.37	10.516			
6,800.00	3,013.14	2,994.29	3,013.14	82.65	62.29	70.91	-680.45	-2,768.88	949.57	869.90	79.68	11.918			
6,900.00	3,009.30	2,990.45	3,009.30	84.89	62.20	72.70	-680.45	-2,768.88	1,044.56	966.18	78.38	13.327			
7,000.00	3,005.46	2,986.66	3,005.46	87.15	62.17	74.18	-680.46	-2,768.88	1,140.39	1,062.94	77.45	14.725			
7,100.00	3,001.63	2,982.79	3,001.63	89.40	62.09	75.44	-680.44	-2,768.88	1,236.87	1,160.19	76.68	16.130			
7,200.00	2,997.79	2,978.92	2,997.79	91.66	62.01	76.51	-680.41	-2,768.88	1,333.86	1,257.77	76.09	17.530			
7,300.00	2,993.95	2,977.05	2,993.95	93.92	61.93	77.44	-680.39	-2,768.88	1,431.26	1,355.62	75.63	18.923			
7,400.00	2,990.11	2,973.18	2,990.11	96.19	61.85	78.25	-680.36	-2,768.88	1,528.98	1,453.70	75.28	20.311			
7,500.00	2,986.27	2,969.31	2,986.27	98.45	61.77	78.96	-680.34	-2,768.88	1,626.97	1,551.96	75.00	21.692			
7,600.00	2,982.44	2,965.44	2,982.44	100.72	61.69	79.59	-680.31	-2,768.88	1,725.18	1,650.39	74.79	23.067			
7,700.00	2,978.60	2,961.57	2,978.60	103.00	61.61	80.15	-680.29	-2,768.88	1,823.58	1,748.96	74.62	24.437			
7,800.00	2,974.76	2,957.70	2,974.76	105.27	61.53	80.66	-680.27	-2,768.88	1,922.13	1,847.64	74.49	25.803			
7,900.00	2,970.92	2,953.83	2,970.92	107.55	61.45	81.11	-680.25	-2,768.88	2,020.82	1,946.43	74.39	27.165			
8,000.00	2,967.09	2,949.96	2,967.09	109.83	61.37	81.52	-680.23	-2,768.88	2,119.63	2,045.32	74.31	28.523			
8,100.00	2,963.25	2,946.09	2,963.25	112.11	61.29	81.90	-680.20	-2,768.88	2,218.54	2,144.28	74.25	29.878			
8,200.00	2,959.41	2,942.22	2,959.41	114.39	61.21	82.24	-680.18	-2,768.88	2,317.53	2,243.32	74.21	31.230			
8,300.00	2,955.57	2,938.35	2,955.57	116.67	61.13	82.56	-680.16	-2,768.88	2,416.60	2,342.43	74.17	32.581			

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

BURNETT OIL CO., INC.

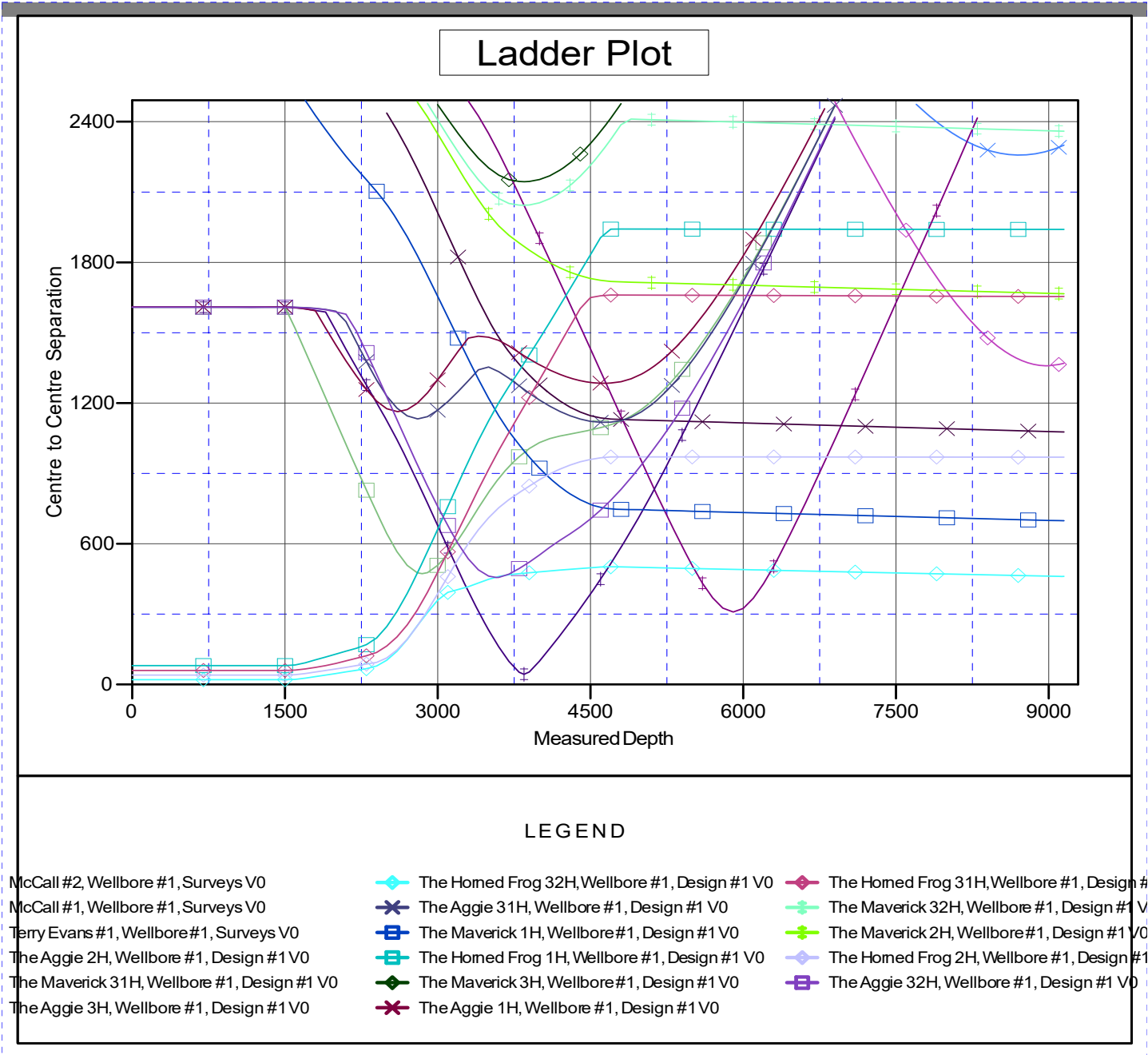
Stryker Directional
Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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 @ 3309.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: The Horned Frog 3H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.00°



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

BURNETT OIL CO., INC.

Stryker Directional Anticollision Report

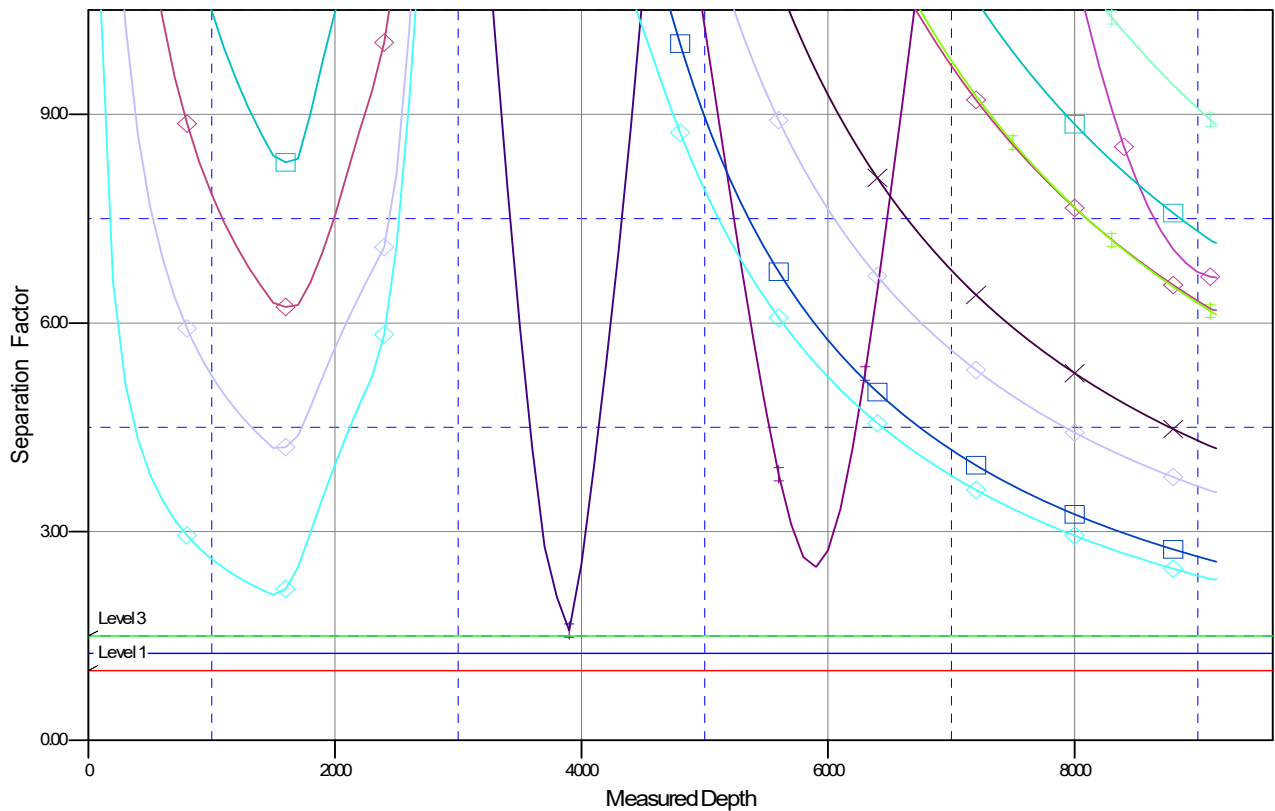


Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog 3H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3309.00usft
Reference Site:	Aggie/Horned Frog/Maverick	MD Reference:	RKB @ 3309.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog 3H	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 @ 3309.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: The Horned Frog 3H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.00°

Separation Factor Plot

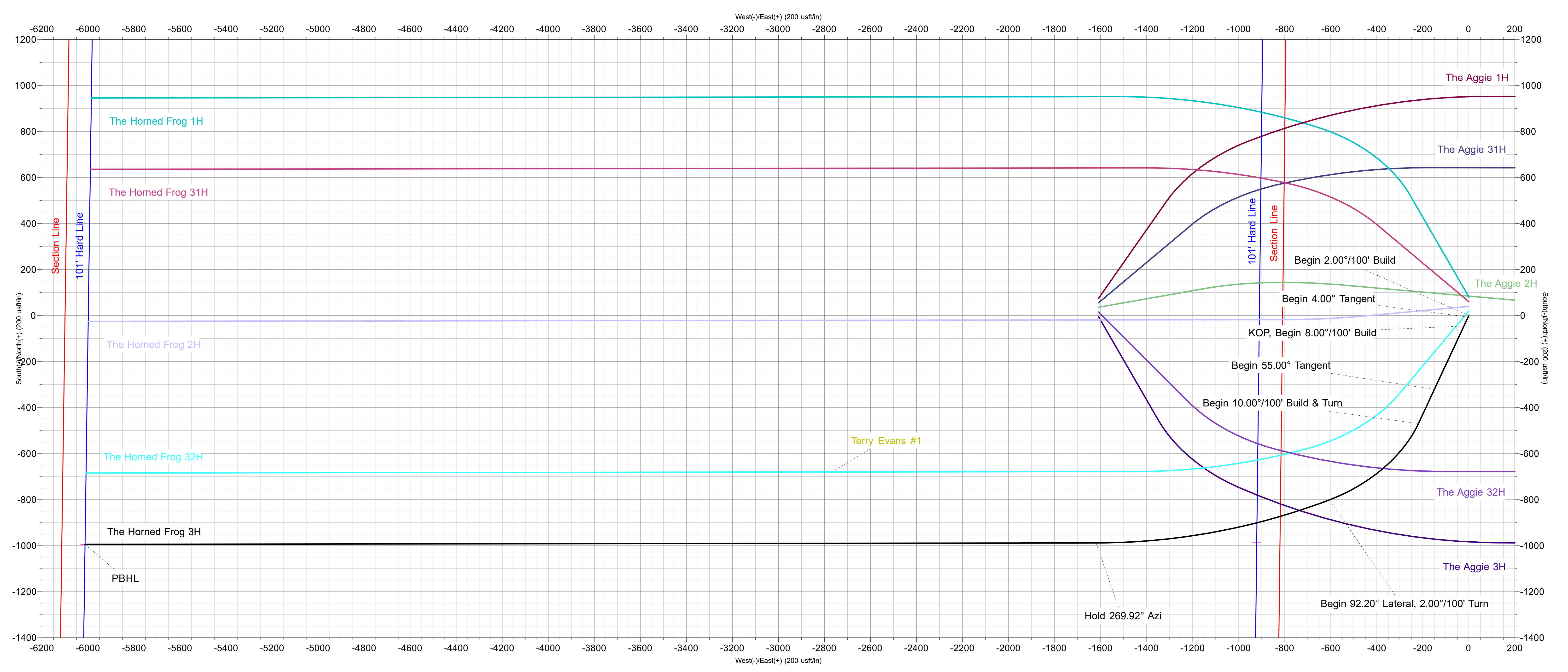


LEGEND

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

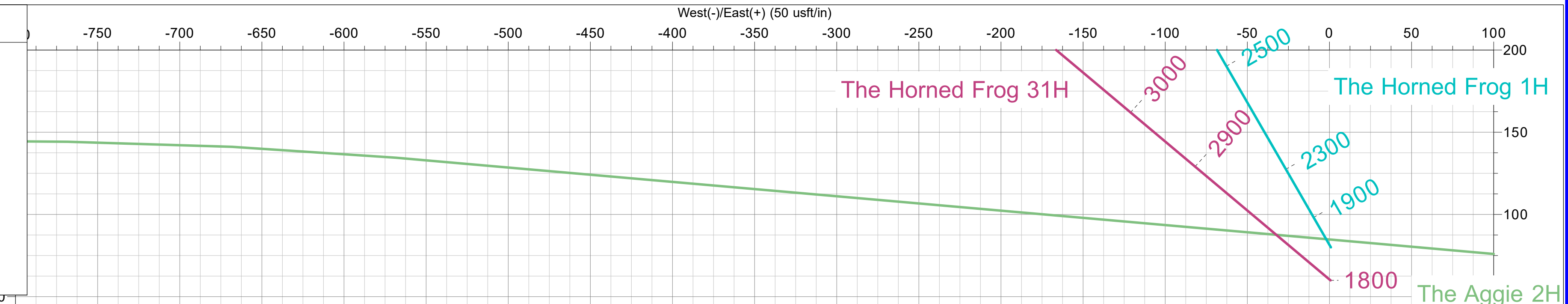
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

To convert a Magnetic Direction to a Grid Direction, Add 6.46°



ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	Begin 2.00°/100' Build
1700.00	4.00	205.00	1699.84	-6.32	-2.95	3.94	6.98	Begin 4.00° Tangent
2320.67	4.00	205.00	2319.00	-45.56	-21.25	28.40	50.27	KOP, Begin 8.00°/100' Build
2958.17	55.00	205.00	2855.72	-320.77	-149.58	199.90	353.93	Begin 55.00° Tangent
3158.17	55.00	205.00	2970.43	-469.25	-218.82	292.43	517.76	Begin 10.00°/100' Build & Turn
3713.94	92.20	249.15	3132.02	-800.80	-605.30	727.83	1039.14	Begin 92.20° Lateral, 2.00°/100' Turn
4751.66	92.20	269.92	3091.75	-988.11	-1619.41	1758.91	2076.07	Hold 269.92° Azi
9148.72	92.20	269.92	2923.00	-994.26	-6013.23	6094.88	6469.90	PBHL

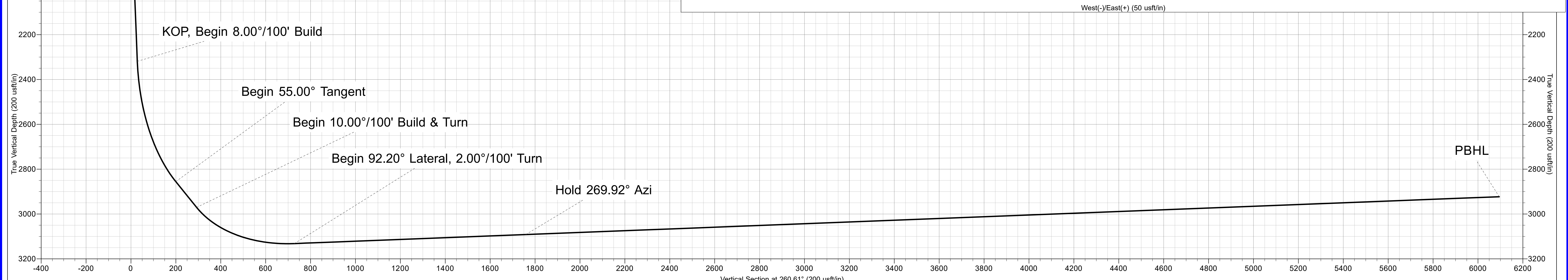
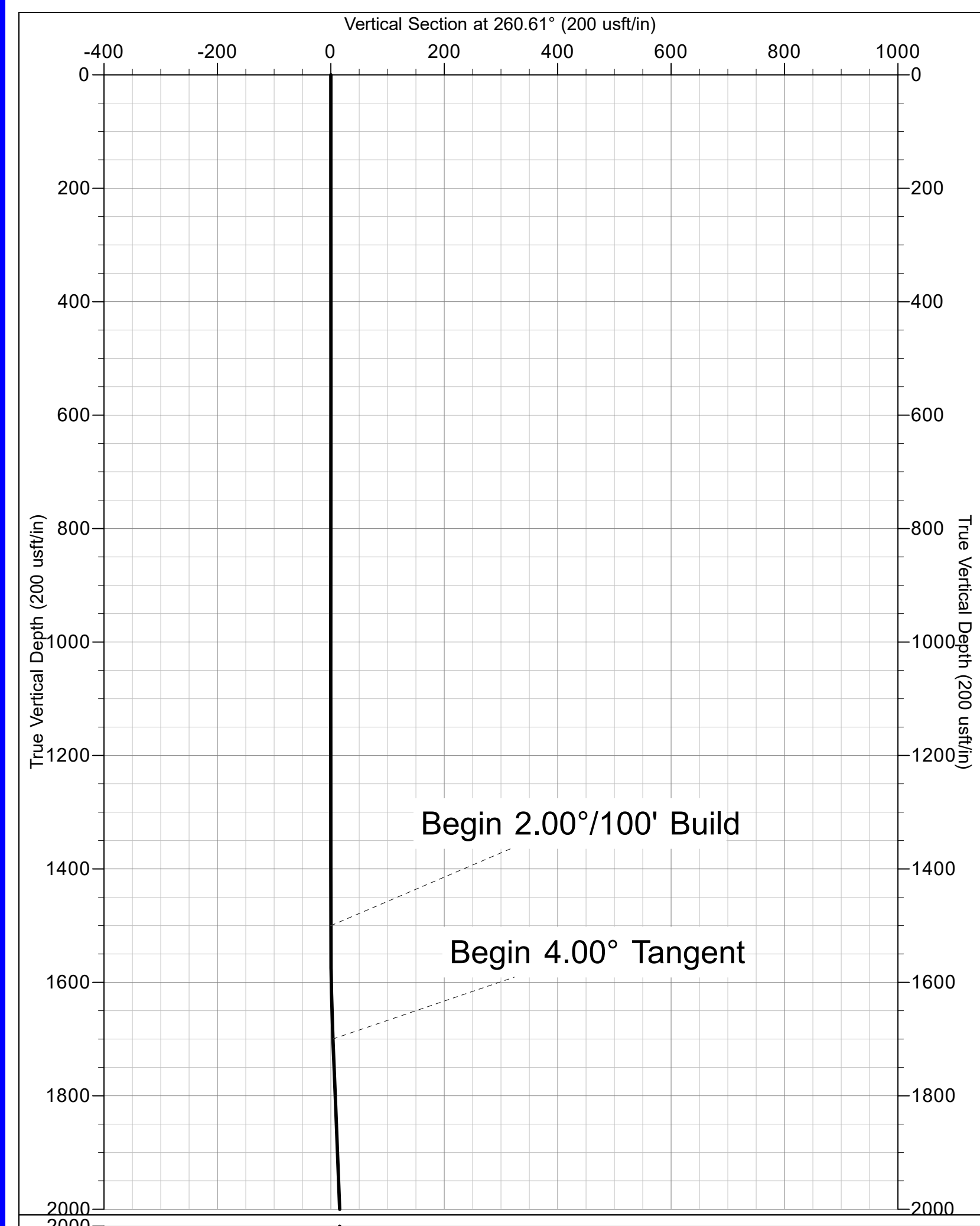
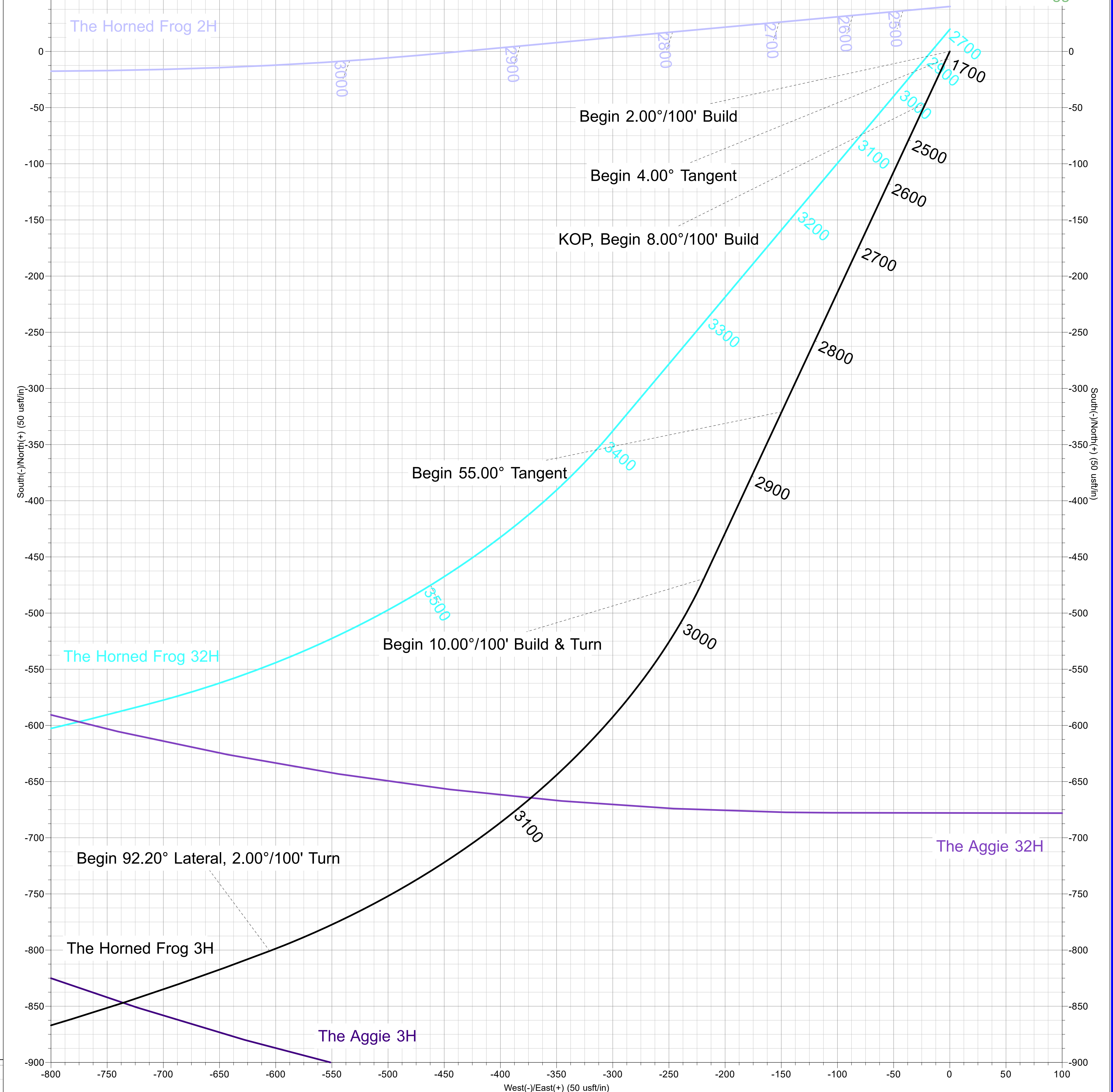


Azimuths to Grid North
 True North: 0.00°
 Magnetic North: 6.46°

Magnetic Field
 Strength: 47307.2nT
 Dip Angle: 60.12°
 Date: 6/6/2025
 Model: IGRF2020

US State Plane 1983
 New Mexico Eastern Zone

Created By: HLH
 Date: 10:47, June 12 2025
 Plan: Design #1



BURNETT OIL CO., INC.

Burnett Oil Company

Eddy County, New Mexico (NAD83)

Aggie/Horned Frog/Maverick

The Horned Frog 3H

Wellbore #1

Plan: Design #1

Standard Planning Report

11 June, 2025



Stryker Directional
Planning Report



Database:	EDM 5000 Server	Local Co-ordinate Reference:	Well The Horned Frog 3H
Company:	Burnett Oil Company	TVD Reference:	RKB @ 3309.00usft
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3309.00usft
Site:	Aggie/Horned Frog/Maverick	North Reference:	Grid
Well:	The Horned Frog 3H	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		

Site	Aggie/Horned Frog/Maverick				
Site Position:		Northing:	631,921.51 usft	Latitude:	32.737190
From:	Lat/Long	Easting:	544,179.05 usft	Longitude:	-104.324092
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.00 °

Well	The Horned Frog 3H					
Well Position	+N/-S	-80.04 usft	Northing:	631,841.47 usft	Latitude:	32.736970
	+E/-W	-0.92 usft	Easting:	544,178.13 usft	Longitude:	-104.324095
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,289.70 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/6/2025	6.47	60.12	47,307.22914742

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	260.61

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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,700.00	4.00	205.00	1,699.84	-6.32	-2.95	2.00	2.00	0.00	205.00	
2,320.67	4.00	205.00	2,319.00	-45.56	-21.25	0.00	0.00	0.00	0.00	
2,958.17	55.00	205.00	2,855.72	-320.77	-149.58	8.00	8.00	0.00	0.00	
3,158.17	55.00	205.00	2,970.43	-469.25	-218.82	0.00	0.00	0.00	0.00	
3,713.94	92.20	249.15	3,132.02	-800.80	-605.30	10.00	6.69	7.94	57.54	
4,751.66	92.20	269.92	3,091.75	-988.11	-1,619.41	2.00	0.00	2.00	89.60	
9,148.72	92.20	269.92	2,923.00	-994.26	-6,013.23	0.00	0.00	0.00	0.00	BHL - The Horned F

Stryker Directional
Planning Report



Database:	EDM 5000 Server	Local Co-ordinate Reference:	Well The Horned Frog 3H
Company:	Burnett Oil Company	TVD Reference:	RKB @ 3309.00usft
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3309.00usft
Site:	Aggie/Horned Frog/Maverick	North Reference:	Grid
Well:	The Horned Frog 3H	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	
Begin 2.00°/100' Build										
1,600.00	2.00	205.00	1,599.98	-1.58	-0.74	0.99	2.00	2.00	0.00	
1,700.00	4.00	205.00	1,699.84	-6.32	-2.95	3.94	2.00	2.00	0.00	
Begin 4.00° Tangent										
1,800.00	4.00	205.00	1,799.59	-12.65	-5.90	7.88	0.00	0.00	0.00	
1,900.00	4.00	205.00	1,899.35	-18.97	-8.85	11.82	0.00	0.00	0.00	
2,000.00	4.00	205.00	1,999.11	-25.29	-11.79	15.76	0.00	0.00	0.00	
2,100.00	4.00	205.00	2,098.86	-31.61	-14.74	19.70	0.00	0.00	0.00	
2,200.00	4.00	205.00	2,198.62	-37.94	-17.69	23.64	0.00	0.00	0.00	
2,300.00	4.00	205.00	2,298.38	-44.26	-20.64	27.58	0.00	0.00	0.00	
2,320.67	4.00	205.00	2,319.00	-45.56	-21.25	28.40	0.00	0.00	0.00	
KOP, Begin 8.00°/100' Build										
2,350.00	6.35	205.00	2,348.20	-47.96	-22.36	29.89	8.00	8.00	0.00	
2,400.00	10.35	205.00	2,397.66	-54.54	-25.43	33.99	8.00	8.00	0.00	
2,450.00	14.35	205.00	2,446.50	-64.22	-29.95	40.02	8.00	8.00	0.00	
2,500.00	18.35	205.00	2,494.47	-76.97	-35.89	47.97	8.00	8.00	0.00	
2,550.00	22.35	205.00	2,541.34	-92.73	-43.24	57.79	8.00	8.00	0.00	
2,600.00	26.35	205.00	2,586.88	-111.40	-51.95	69.43	8.00	8.00	0.00	
2,650.00	30.35	205.00	2,630.88	-132.92	-61.98	82.83	8.00	8.00	0.00	
2,700.00	34.35	205.00	2,673.11	-157.16	-73.28	97.94	8.00	8.00	0.00	
2,750.00	38.35	205.00	2,713.38	-184.01	-85.80	114.67	8.00	8.00	0.00	
2,800.00	42.35	205.00	2,751.48	-213.34	-99.48	132.95	8.00	8.00	0.00	
2,850.00	46.35	205.00	2,787.23	-245.01	-114.25	152.69	8.00	8.00	0.00	
2,900.00	50.35	205.00	2,820.45	-278.86	-130.03	173.78	8.00	8.00	0.00	
2,950.00	54.35	205.00	2,850.99	-314.73	-146.76	196.14	8.00	8.00	0.00	
2,958.17	55.00	205.00	2,855.72	-320.77	-149.58	199.90	8.00	8.00	0.00	
Begin 55.00° Tangent										
3,000.00	55.00	205.00	2,879.71	-351.82	-164.06	219.25	0.00	0.00	0.00	
3,100.00	55.00	205.00	2,937.06	-426.06	-198.68	265.52	0.00	0.00	0.00	
3,158.17	55.00	205.00	2,970.43	-469.25	-218.82	292.43	0.00	0.00	0.00	
Begin 10.00°/100' Build & Turn										
3,200.00	57.32	209.19	2,993.73	-500.16	-234.65	313.10	10.00	5.54	10.03	
3,250.00	60.26	213.92	3,019.65	-536.56	-257.04	341.13	10.00	5.88	9.46	
3,300.00	63.36	218.37	3,043.27	-572.12	-283.04	372.58	10.00	6.20	8.90	
3,350.00	66.59	222.58	3,064.43	-606.55	-312.46	407.22	10.00	6.46	8.42	
3,400.00	69.93	226.59	3,082.95	-639.60	-345.06	444.78	10.00	6.68	8.02	
3,450.00	73.36	230.43	3,098.70	-671.01	-380.61	484.97	10.00	6.85	7.68	
3,500.00	76.85	234.13	3,111.56	-700.56	-418.82	527.50	10.00	6.99	7.40	

Stryker Directional Planning Report



BURNETT OIL CO., INC.

Database:	EDM 5000 Server	Local Co-ordinate Reference:	Well The Horned Frog 3H
Company:	Burnett Oil Company	TVD Reference:	RKB @ 3309.00usft
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3309.00usft
Site:	Aggie/Horned Frog/Maverick	North Reference:	Grid
Well:	The Horned Frog 3H	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)
3,550.00	80.40	237.73	3,121.42	-728.00	-459.42	572.02	10.00	7.09	7.19
3,600.00	83.98	241.25	3,128.22	-753.13	-502.09	618.22	10.00	7.16	7.04
3,650.00	87.58	244.73	3,131.90	-775.77	-546.50	665.73	10.00	7.21	6.95
3,700.00	91.19	248.19	3,132.44	-795.73	-592.32	714.19	10.00	7.23	6.91
3,713.94	92.20	249.15	3,132.02	-800.80	-605.30	727.83	10.00	7.22	6.92
Begin 92.20° Lateral, 2.00°/100' Turn									
3,800.00	92.21	250.87	3,128.71	-830.19	-686.11	812.35	2.00	0.01	2.00
3,900.00	92.22	252.87	3,124.84	-861.28	-781.07	911.11	2.00	0.01	2.00
4,000.00	92.23	254.88	3,120.96	-889.03	-877.06	1,010.34	2.00	0.01	2.00
4,100.00	92.23	256.88	3,117.07	-913.42	-973.96	1,109.92	2.00	0.00	2.00
4,200.00	92.24	258.88	3,113.17	-934.40	-1,071.65	1,209.73	2.00	0.00	2.00
4,300.00	92.24	260.88	3,109.26	-951.96	-1,170.02	1,309.64	2.00	0.00	2.00
4,400.00	92.23	262.88	3,105.37	-966.07	-1,268.93	1,409.53	2.00	0.00	2.00
4,500.00	92.23	264.88	3,101.47	-976.72	-1,368.28	1,509.29	2.00	-0.01	2.00
4,600.00	92.22	266.88	3,097.60	-983.89	-1,467.94	1,608.78	2.00	-0.01	2.00
4,700.00	92.21	268.89	3,093.74	-987.58	-1,567.80	1,707.90	2.00	-0.01	2.00
4,751.66	92.20	269.92	3,091.75	-988.11	-1,619.41	1,758.91	2.00	-0.01	2.00
Hold 269.92° Azi									
4,800.00	92.20	269.92	3,089.90	-988.18	-1,667.72	1,806.58	0.00	0.00	0.00
4,900.00	92.20	269.92	3,086.06	-988.32	-1,767.65	1,905.19	0.00	0.00	0.00
5,000.00	92.20	269.92	3,082.22	-988.46	-1,867.57	2,003.80	0.00	0.00	0.00
5,100.00	92.20	269.92	3,078.38	-988.60	-1,967.50	2,102.41	0.00	0.00	0.00
5,200.00	92.20	269.92	3,074.54	-988.74	-2,067.42	2,201.02	0.00	0.00	0.00
5,300.00	92.20	269.92	3,070.71	-988.88	-2,167.35	2,299.64	0.00	0.00	0.00
5,400.00	92.20	269.92	3,066.87	-989.02	-2,267.28	2,398.25	0.00	0.00	0.00
5,500.00	92.20	269.92	3,063.03	-989.16	-2,367.20	2,496.86	0.00	0.00	0.00
5,600.00	92.20	269.92	3,059.19	-989.30	-2,467.13	2,595.47	0.00	0.00	0.00
5,700.00	92.20	269.92	3,055.36	-989.44	-2,567.06	2,694.08	0.00	0.00	0.00
5,800.00	92.20	269.92	3,051.52	-989.58	-2,666.98	2,792.69	0.00	0.00	0.00
5,900.00	92.20	269.92	3,047.68	-989.72	-2,766.91	2,891.30	0.00	0.00	0.00
6,000.00	92.20	269.92	3,043.84	-989.86	-2,866.83	2,989.91	0.00	0.00	0.00
6,100.00	92.20	269.92	3,040.00	-990.00	-2,966.76	3,088.52	0.00	0.00	0.00
6,200.00	92.20	269.92	3,036.17	-990.14	-3,066.69	3,187.13	0.00	0.00	0.00
6,300.00	92.20	269.92	3,032.33	-990.28	-3,166.61	3,285.74	0.00	0.00	0.00
6,400.00	92.20	269.92	3,028.49	-990.42	-3,266.54	3,384.35	0.00	0.00	0.00
6,500.00	92.20	269.92	3,024.65	-990.56	-3,366.47	3,482.96	0.00	0.00	0.00
6,600.00	92.20	269.92	3,020.82	-990.70	-3,466.39	3,581.57	0.00	0.00	0.00
6,700.00	92.20	269.92	3,016.98	-990.84	-3,566.32	3,680.18	0.00	0.00	0.00
6,800.00	92.20	269.92	3,013.14	-990.98	-3,666.24	3,778.79	0.00	0.00	0.00
6,900.00	92.20	269.92	3,009.30	-991.12	-3,766.17	3,877.40	0.00	0.00	0.00
7,000.00	92.20	269.92	3,005.46	-991.26	-3,866.10	3,976.01	0.00	0.00	0.00
7,100.00	92.20	269.92	3,001.63	-991.40	-3,966.02	4,074.62	0.00	0.00	0.00
7,200.00	92.20	269.92	2,997.79	-991.54	-4,065.95	4,173.23	0.00	0.00	0.00
7,300.00	92.20	269.92	2,993.95	-991.68	-4,165.88	4,271.84	0.00	0.00	0.00
7,400.00	92.20	269.92	2,990.11	-991.82	-4,265.80	4,370.46	0.00	0.00	0.00
7,500.00	92.20	269.92	2,986.27	-991.96	-4,365.73	4,469.07	0.00	0.00	0.00
7,600.00	92.20	269.92	2,982.44	-992.10	-4,465.65	4,567.68	0.00	0.00	0.00
7,700.00	92.20	269.92	2,978.60	-992.24	-4,565.58	4,666.29	0.00	0.00	0.00
7,800.00	92.20	269.92	2,974.76	-992.38	-4,665.51	4,764.90	0.00	0.00	0.00
7,900.00	92.20	269.92	2,970.92	-992.52	-4,765.43	4,863.51	0.00	0.00	0.00
8,000.00	92.20	269.92	2,967.09	-992.66	-4,865.36	4,962.12	0.00	0.00	0.00
8,100.00	92.20	269.92	2,963.25	-992.80	-4,965.29	5,060.73	0.00	0.00	0.00
8,200.00	92.20	269.92	2,959.41	-992.94	-5,065.21	5,159.34	0.00	0.00	0.00

Stryker Directional
Planning Report



BURNETT OIL CO., INC.

Database:	EDM 5000 Server	Local Co-ordinate Reference:	Well The Horned Frog 3H
Company:	Burnett Oil Company	TVD Reference:	RKB @ 3309.00usft
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3309.00usft
Site:	Aggie/Horned Frog/Maverick	North Reference:	Grid
Well:	The Horned Frog 3H	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)	
8,300.00	92.20	269.92	2,955.57	-993.08	-5,165.14	5,257.95	0.00	0.00	0.00	
8,400.00	92.20	269.92	2,951.73	-993.22	-5,265.06	5,356.56	0.00	0.00	0.00	
8,500.00	92.20	269.92	2,947.90	-993.36	-5,364.99	5,455.17	0.00	0.00	0.00	
8,600.00	92.20	269.92	2,944.06	-993.50	-5,464.92	5,553.78	0.00	0.00	0.00	
8,700.00	92.20	269.92	2,940.22	-993.64	-5,564.84	5,652.39	0.00	0.00	0.00	
8,800.00	92.20	269.92	2,936.38	-993.78	-5,664.77	5,751.00	0.00	0.00	0.00	
8,900.00	92.20	269.92	2,932.55	-993.92	-5,764.70	5,849.61	0.00	0.00	0.00	
9,000.00	92.20	269.92	2,928.71	-994.06	-5,864.62	5,948.22	0.00	0.00	0.00	
9,100.00	92.20	269.92	2,924.87	-994.20	-5,964.55	6,046.83	0.00	0.00	0.00	
9,148.72	92.20	269.92	2,923.00	-994.26	-6,013.23	6,094.88	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	
BHL - The Horned Frc - plan hits target center - Point	0.00	0.00	2,923.00	-994.26	-6,013.23	630,847.20	538,164.90	32.734237	-104.343651	
FTP - The Horned Frc - plan misses target center by 83.98usft at 4067.21usft MD (3118.34 TVD, -905.79 N, -942.10 E) - Point	0.00	0.00	3,114.00	-987.09	-921.47	630,854.38	543,256.66	32.734257	-104.327092	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,500.00	1,500.00	0.00	0.00	Begin 2.00°/100' Build	
1,700.00	1,699.84	-6.32	-2.95	Begin 4.00° Tangent	
2,320.67	2,319.00	-45.56	-21.25	KOP, Begin 8.00°/100' Build	
2,958.17	2,855.72	-320.77	-149.58	Begin 55.00° Tangent	
3,158.17	2,970.43	-469.25	-218.82	Begin 10.00°/100' Build & Turn	
3,713.94	3,132.02	-800.80	-605.30	Begin 92.20° Lateral, 2.00°/100' Turn	
4,751.66	3,091.75	-988.11	-1,619.41	Hold 269.92° Azi	
9,148.72	2,923.00	-994.26	-6,013.23	PBHL	



**The Horned Frog #3H
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'-9100'	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

NMOCD 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: 12 / 10 / 2025

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: Amended to reflect well name changes and pooling concerns.

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	30-015-54438	D-19-18S-27E	1226 FNL 809 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE HORNEF FROG #31H	30-015-55902	1-19-18S-27E	1246 FNL 809 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE HORNEF FROG #2H	30-015-54437	D-19-18S-27E	1266 FNL 809 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE HORNEF FROG #32H	30-015-55901	1-19-18S-27E	1286FNL 809FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE HORNEF FROG #3H	30-015-54439	D-19-18S-27E	1306 FNL 809 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE MAVERICK #1H	30-015-54684	L-19-18S-27E	1368 FSL 828 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE MAVERICK #31H	30-015-55903	3-19-18S-27E	1348FSL 828FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE MAVERICK #2H	30-015-54685	L-19-18S-27E	1328 FSL 828 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE MAVERICK 32H	30-015-55900	4-19-18S-27E	1308 FSL 828 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE MAVERICK #3H	30-015-54686	M-19-18S-27E	1288 FSL 828FWL	550 BBL/D	550 MCF/D	2500 BBL/D

IV. Central Delivery Point Name: THE MAVERICK 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 Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
THE HORNED FROG #1H	30-015-54438	2/15/2026	2/24/2026	4/08/2026	4/22/2026	4/22/2026
THE HORNED FROG #31H	30-015-55902	1/5/2026	1/15/2026	3/1/2026	3/11/2026	3/11/2026
THE HORNED FROG #2H	30-015-54437	2/25/2026	3/03/2026	5/12/2026	5/28/2026	5/28/2026
THE HORNED FROG #32H	30-015-55901	1/16/2026	1/26/2026	3/5/2026	3/15/2026	3/15/2026
THE HORNED FROG #3H	30-015-54439	3/04/2026	3/14/2026	5/16/2026	6/2/2026	6/02/2026
THE MAVERICK #1H	30-015-54684	3/15/2026	3/25/2026	4/1/2026	4/16/2026	4/16/2026
THE MAVERICK #31H	30-015-55903	4/1/2026	4/11/2026	5/30/2026	6/10/2026	6/10/2026
THE MAVERICK #2H	30-015-54685	4/26/2026	5/05/2026	6/04/2026	6/20/2026	6/20/2026
THE MAVERICK #32H	30-015-55900	4/12/2026	4/22/2026	5/4/2026	5/14/2026	5/14/2026
THE MAVERICK #3H	30-015-54686	3/06/2026	3/16/2026	4/08/2026	4/25/2026	4/25/2026

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:

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: <i>Randy Bolles</i>
Printed Name: Randy Bolles
Title: Regulatory Consultant
E-mail Address: rbolles@cox.net
Date: 12/10/2025
Phone: 405-738-0183
OIL CONSERVATION DMSION (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 1H API 30-015-54438

- 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 0 MCF/D.
 - D. The referenced well is anticipated to produce a maximum of 550 MCF/D for a total throughput of 550 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.