

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

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

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

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

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

Form C-101  
August 1, 2011  
Permit 374356

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

1. Operator Name and Address BURNETT OIL CO INC 801 Cherry Street Unit #9 Fort Worth, TX 76102		2. OGRID Number 3080
		3. API Number 30-015-55588
4. Property Code 336442	5. Property Name The Red Raider	6. Well No. 003H

**7. Surface Location**

UL - Lot P	Section 24	Township 18S	Range 26E	Lot Idn	Feet From 1246	N/S Line S	Feet From 800	E/W Line E	County Eddy
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**8. Proposed Bottom Hole Location**

UL - Lot P	Section 19	Township 18S	Range 27E	Lot Idn P	Feet From 350	N/S Line S	Feet From 101	E/W Line E	County Eddy
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**9. Pool Information**

ATOKA;GLORIETA-YESO	3250
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**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3284
16. Multiple N	17. Proposed Depth 9067	18. Formation Yeso	19. Contractor	20. Spud Date 7/1/2025
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	1300	438	0
Prod	8.75	7	32	2900	1442	0
Prod	8.75	5.5	20	9067	1442	2900

**Casing/Cement Program: Additional Comments**

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**22. Proposed Blowout Prevention Program**

Type Annular	Working Pressure 1500	Test Pressure 2000	Manufacturer Hydril Unit
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23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. <b>I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.</b>	<b>OIL CONSERVATION DIVISION</b>
Signature:	
Printed Name: Electronically filed by Heather Dissmore	Approved By: Ward Rikala
Title: Engineering Technician	Title: Petroleum Specialist Supervisor
Email Address: hdissmore@burnettoil.com	Approved Date: 10/28/2024      Expiration Date: 10/28/2026
Date: 10/2/2024      Phone: 817-583-8873	Conditions of Approval Attached

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

**WELL LOCATION INFORMATION**

API Number <b>30-015-55588</b>	Pool Code <b>3250</b>	Pool Name <b>ASOKA; CLORIETTA-YESO</b>
Property Code <b>336442</b>	Property Name <b>THE RED RAIDER</b>	
OGRID No. <b>3080</b>	Operator Name <b>BURNETT OIL COMPANY INC.</b>	Well Number <b>3H</b>
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Ground Level Elevation <b>3284.3'</b>
Mineral Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		

**Surface Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	24	18-S	26-E		1246 FSL	800 FEL	32.729497°N	104.329340°W	EDDY

**Bottom Hole Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	19	18-S	27-E		350 FSL	101 FEL	32.726980°N	104.309825°W	EDDY

Dedicated Acres <b>640</b>	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N) <b>N</b>	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Kick Off Point (KOP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County


**First Take Point (FTP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
4	19	18-S	27-E		350 FSL	101 FWL	32.727043°N	104.326424°W	EDDY

**Last Take Point (LTP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	19	18-S	27-E		350 FSL	101 FEL	32.726980°N	104.309825°W	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation:
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<p><b>OPERATOR CERTIFICATIONS</b></p> <p><i>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.</i></p> <p><i>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.</i></p>	<p><b>SURVEYOR CERTIFICATIONS</b></p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <div style="text-align: right;">  </div>
Signature <i>Randy Bolles</i> Date <b>9/30/2024</b>	Signature and Seal of Professional Surveyor <i>Chad Hargrow</i> <b>8/19/24</b>
Printed Name <b>Randy Bolles</b>  Email Address <b>rbolles@cox.net</b>	Certificate Number 17777  Date of Survey MAY 23, 2024
W.O.#24-864    DRAWN BY: WN    PAGE 1 OF 2	

*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.*

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Form APD Conditions

Permit 374356

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: BURNETT OIL CO INC [3080] 801 Cherry Street Unit #9 Fort Worth, TX 76102	API Number: 30-015-55588
	Well: The Red Raider #003H

OCD Reviewer	Condition
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ward.rikala	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
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing
ward.rikala	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
ward.rikala	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
ward.rikala	This well is in the Roswell Aquifer. Casing shall be sat and cemented back to surface immediately on top of the Aquifer. The next string shall be sat and cemented immediately below the base of the Aquifer.

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## HYDROGEN SULFIDE (H2S) PLAN & TRAINING

This plan was developed in accordance with 43 CFR 3162.3-1, section III.C, Onshore Oil and Gas Operations Order No. 6.

Based on our area testing H2S at 100 PPM has a radius of 139' and does not get off our well sites. There are no schools, residences, churches, parks, public buildings, recreation area or public within 2+ miles of our area.

### A. Training

#### 1. Training of Personnel

**All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in accordance with 43 CFR 3162.3-1, section III.C.3.a. Training will be given in the following areas prior to commencing drilling operations on each well:**

- a. The hazards and characteristics of Hydrogen Sulfide (H2S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures and the prevailing wind.
- d. The proper techniques for first aid and rescue procedures.
- e. **ATTACHED HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN DRILLING EXHIBIT K.**
- f. **ATTACHED EMERGENCY CALL LIST FOR ANY ON SITE EMERGENCY DRILLING EXHIBIT L.**

#### 2. Training of Supervisory Personnel

**In addition to the training above, supervisory personnel will also be trained in the following areas:**

- a. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well, blowout prevention and well control procedures.
- c. The contents and requirements of the H2S Drilling Operations Plan and the Public Protection Plan (if applicable.)

#### 3. Initial and Ongoing Training

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 (if applicable). This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

**B. H2S Drilling Operations Plan**

1. 2M Well Control Equipment
  - a. Remote control choke
  - b. Blooie line off choke
  - c. Half tank
  - d. Mud-gas separator
  
2. **Protective equipment for essential personnel:**
  - a. Mark II Surviveair (or equivalent) 30 minute units located in the dog house and at the primary briefing area (to be determined.)
  - b. Means of communication when using protective breathing apparatus.
  
3. **H2S detection and monitoring equipment:**
  - a. Three (3) portable H2S monitors positioned on location for best coverage and response. These units have warning lights at 10 PPM and warning lights and audible sirens when H2S levels of 15 PPM is reached. A digital display inside the doghouse shows current H2S levels at all three (3) locations.
  - b. An H2S Safety compliance set up is on location during all operations.
  - c. We will monitor and start fans at 1- ppm or less, an increase over 10 ppm results in the shutdown and installation of the mud/gas separator.
  - d. Portable H2S and SO2 monitor(s).
  
4. **Visual warning systems:**
  - a. Wind direction indicators will be positioned for maximum visibility.
  - b. Caution/Danger signs will 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 reasonable distance from the immediate location. Bilingual signs will be used when appropriate.
  
5. **Mud program:**
  - a. The mud program has been designed to minimize the volume of H2S circulated to the 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, wellheads, Hydril BOPS, drilling spools, kill lines, choke manifold, valves and lines will be suitable for H2S service.
  - b. All elastomers used for packing and seals shall be H2S trim.
  
7. **Communication:**
  - a. Cellular Telephone and/or 2-way radio will be provided at well site.
  - b. Landline telephone is located in our field office.

# BURNETT OIL CO., INC.

## EXHIBIT L - HYDROGEN SULFIDE (H2S) CONTIGENCY PLAN

### A. Emergency Procedures

In the event of a release of gas containing H2S, the first responder(s) must

1. Isolate the area and prevent entry by other persons into the 100 PPM ROE. Assumed 100PPM ROE = 3000’.
2. Evacuate any public places encompassed by 100 PPM ROE.
3. Be equipped with H2S monitors and air packs in order to control release.
4. Use the “buddy system” to ensure no injuries occur during the response.
5. Take precautions to avoid personal injury during this operation.
6. Have received training in the following:
  - a. H2S detection
  - b. Measures for protection against this gas
  - c. Equipment used for protection and emergency response.

### B. Ignition of Gas Source

Should control of the well be considered lost and ignition considered, care will be taken to protect against exposure to Sulfur Dioxide (SO2). Intentional ignition will be coordinated with the NMOCD and local officials. Additionally, the New Mexico State Police may become involved. NM State Police shall be the incident command on scene of any major release. Care will be taken to protect downwind whenever there is an ignition of gas.

### C. Characteristics of H2S and SO2

<u>Common Name</u>	<u>Chemical Formula</u>	<u>Specific Gravity</u>	<u>Threshold Limit</u>	<u>Hazardous Limit</u>	<u>Lethal Concentration</u>
Hydrogen Sulfide	H2S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO2	2.21 Air = 1	2 ppm	NA	1000 ppm

#### **D. Contacting Authorities**

Burnett Oil Co., Inc. personnel will liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD will be notified of the release as soon as possible but no later than four (4) hours after the incident. Agencies will ask for information such as type and volume of release, wind and direction, location of release, etc. Be sure all is written down and ready to give to contact list attached. Burnett's response must be in coordination with the State of New Mexico's Hazardous Materials Emergency Response Plan.

Directions to the site are as follows:

Burnett Office  
87 Square Lake Road (CR #220)  
Loco Hills, NM 88255

Loco Hills, New Mexico (2 miles East of Loco Hills on US Hwy 82 to C #220. Then North on CR #220 approximately one (1) mile to office.



Hydrogen Sulfide Contingency Plan

**EXHIBIT M - EMERGENCY NOTIFICATION LIST**

**BURNETT CONTACTS**

<b>Burnett's New Mexico Office</b>	<b>817.332.5108 x 102</b>
87 Square Lake Road (CR #220) Loco Hills, New Mexico 88255	
<b>Directions: Loco Hills, NM – 2 miles east of Loco Hills on US Hwy 82 to CR#220. Then North on CR #220 approximately one (1) mile to office.</b>	
<b>Burnett Oil Home Office</b>	<b>817.332.5108</b>
Burnett Plaza – Suite 1500   801 Cherry Street – Unit #9  Fort Worth, Texas 76102	
Walter Glasgow	<b>Office - 817.583.8871</b>
VP Engineering	<b>Cell - 817.343.5567</b>
Tyler Deans	<b>Office – 575.677.2313</b>
VP Engineering- New Mexico	<b>Cell – 432-553-4699</b>
Bryan Burnes	<b>Office – 817.332.5108</b>
HSE & Security Coordinator	<b>Cell – 575-706-5999</b>

**SHERIFF/POLICE CONTACTS**

Eddy County Sheriff	911 or 575.677.2313
New Mexico State Police	575.746.2701

**FIRE DEPARTMENT**

Loco Hills Fire Department (VOLUNTEER ONLY)	911 or 575.677.2349
For Medical and Fire (Artesia)	575.746.2701

**AIR AMBULANCE**

Flight for Life Air Ambulance	(Lubbock)	806.743.9911
Aerocare Air Ambulance	(Lubbock)	806.747.8923
Med Flight Air Ambulance	(Albuq)	505.842.4433
S B Med Svc Air Ambulance	(Albuq)	505.842.4949

**FEDERAL AND STATE**

US Bureau of Land Management (Carlsbad)	575.361.2822	575.234.5972
New Mexico Oil Conservation Division (Artesia)		575.748.1283
New Mexico Emergency Response Commission (24 hour)		575.827.9126
Local Emergency Planning Operation Center (Artesia)		505.842.4949
National Emergency Response Center (Washington, DC)		800.424.8802

**OTHER IMPORTANT NUMBERS**

Boots & Coots IWC	800.256.9688
Cudd Pressure Control	432.570.5300
Halliburton Services	575.746.2757
BJ Service	575.746.2293

**THIS MUST BE POSTED AT THE RIG WHILE ON LOCATION**

BURNETT OIL CO., INC.

## **Burnett Oil Company**

Eddy County, New Mexico (NAD83)  
The Aggie/The Red Raider [PRELIM]  
The Red Raider #3H

Wellbore #1  
PRELIM

## **Anticollision Report**

20 December, 2023



**Stryker Directional**  
Anticollision Report



**BURNETT OIL CO., INC.**

<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

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

<b>Survey Tool Program</b>	<b>Date</b>	12/20/2023		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	9,067.33	PRELIM (Wellbore #1)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Horned Frog/Maverick</b>						
The Horned Frog #1H - Wellbore #1 - Design #2						Out of range
The Horned Frog #2H - Wellbore #1 - Design #2						Out of range
The Horned Frog #3H - Wellbore #1 - Design #2	2,440.08	4,688.96	1,970.31	1,925.72	44.192	CC, ES
The Horned Frog #3H - Wellbore #1 - Design #2	2,550.00	4,667.84	1,980.96	1,935.67	43.735	SF
The Maverick #1H - Wellbore #1 - Design #2	2,560.55	4,668.05	1,143.66	1,101.92	27.398	CC, ES
The Maverick #1H - Wellbore #1 - Design #2	2,700.00	4,631.64	1,163.98	1,120.12	26.539	SF
The Maverick #2H - Wellbore #1 - Design #2	2,847.03	4,219.95	421.12	387.24	12.431	CC
The Maverick #2H - Wellbore #1 - Design #2	2,850.00	4,218.92	421.13	387.09	12.372	ES
The Maverick #2H - Wellbore #1 - Design #2	3,000.00	4,165.26	450.47	410.57	11.288	SF
The Maverick #3H - Wellbore #1 - Design #2	3,892.94	3,913.00	56.83	31.75	2.266	CC
The Maverick #3H - Wellbore #1 - Design #2	3,900.00	3,906.99	56.95	31.03	2.198	ES
The Maverick #3H - Wellbore #1 - Design #2	4,000.00	3,823.34	79.98	43.19	2.174	SF
<b>The Aggie/The Red Raider [PRELIM]</b>						
The Aggie #1H - Wellbore #1 - PRELIM						Out of range
The Aggie #2H - Wellbore #1 - PRELIM						Out of range
The Aggie #3H - Wellbore #1 - PRELIM	2,486.86	3,836.57	2,201.18	2,172.48	76.685	CC, ES
The Aggie #3H - Wellbore #1 - PRELIM	3,200.00	4,000.00	2,482.75	2,446.18	67.881	SF
The Red Raider #1H - Wellbore #1 - PRELIM	2,109.30	2,109.30	40.00	28.51	3.482	CC, ES, SF
The Red Raider #2H - Wellbore #1 - PRELIM	2,193.00	2,193.00	20.00	8.26	1.704	CC, ES, SF

<b>Offset Design</b>	Horned Frog/Maverick - The Horned Frog #3H - Wellbore #1 - Design #2											<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b>	0-MWD											<b>Offset Well Error:</b>	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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,400.00	1,400.00	4,729.29	3,046.67	4.59	41.79	-1.20	1,834.37	-38.39	2,465.34	2,428.50	36.84	66.912	
1,500.00	1,500.00	4,727.11	3,046.72	4.77	41.75	-1.13	1,834.37	-36.21	2,399.70	2,362.17	37.54	63.929	
1,600.00	1,600.00	4,724.93	3,046.77	4.94	41.70	-1.06	1,834.38	-34.03	2,336.50	2,298.26	38.24	61.100	
1,700.00	1,700.00	4,722.75	3,046.81	5.10	41.65	-0.99	1,834.38	-31.85	2,275.93	2,236.98	38.95	58.432	
1,800.00	1,800.00	4,720.58	3,046.86	5.27	41.61	-0.93	1,834.38	-29.68	2,218.22	2,178.56	39.66	55.928	
1,900.00	1,900.00	4,718.40	3,046.91	5.43	41.56	-0.86	1,834.39	-27.50	2,163.59	2,123.22	40.37	53.596	
2,000.00	2,000.00	4,716.22	3,046.96	5.58	41.52	-0.79	1,834.39	-25.32	2,112.28	2,071.22	41.06	51.441	
2,100.00	2,100.00	4,714.04	3,047.00	5.73	41.47	-0.72	1,834.39	-23.14	2,064.55	2,022.81	41.74	49.467	

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.**

<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Measured Depth (usft)	Reference		Offset		Semi Major Axis			Distance					Warning		
	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Measured 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	
2,193.00	2,193.00	4,712.01	3,047.05	5.86	41.43	-0.66	1,834.40	-21.12	2,023.57	1,981.25	42.33	47.810			
2,200.00	2,200.00	4,711.85	3,047.05	5.87	41.42	-0.65	1,834.40	-20.95	2,020.66	1,978.30	42.36	47.703			
2,250.00	2,249.94	4,709.82	3,047.10	6.06	41.38	-0.62	1,834.40	-18.92	2,002.10	1,959.37	42.73	46.854			
2,300.00	2,299.60	4,706.33	3,047.17	6.51	41.31	-0.59	1,834.40	-15.43	1,987.67	1,944.39	43.28	45.929			
2,350.00	2,348.75	4,701.40	3,047.28	6.94	41.20	-0.55	1,834.41	-10.50	1,977.51	1,933.73	43.79	45.162			
2,400.00	2,397.13	4,695.05	3,047.42	7.34	41.07	-0.51	1,834.42	-4.16	1,971.74	1,927.48	44.25	44.557			
2,440.08	2,435.21	4,688.96	3,047.55	7.64	40.95	-0.49	1,834.43	1.93	1,970.31	1,925.72	44.59	44.192	CC, ES		
2,450.00	2,444.52	4,687.32	3,047.59	7.72	40.91	-0.48	1,834.43	3.58	1,970.40	1,925.73	44.66	44.117			
2,500.00	2,490.68	4,678.23	3,047.78	8.08	40.72	-0.45	1,834.44	12.66	1,973.49	1,928.48	45.01	43.844			
2,550.00	2,535.40	4,667.84	3,048.01	8.41	40.51	-0.41	1,834.46	23.05	1,980.96	1,935.67	45.29	43.735	SF		
2,600.00	2,578.44	4,656.19	3,048.26	8.72	40.26	-0.38	1,834.47	34.69	1,992.71	1,947.20	45.51	43.788			
2,650.00	2,619.61	4,643.35	3,048.54	9.01	40.00	-0.35	1,834.49	47.53	2,008.58	1,962.93	45.65	43.997			
2,700.00	2,658.70	4,629.37	3,048.85	9.28	39.71	-0.32	1,834.51	61.51	2,028.38	1,982.65	45.73	44.357			
2,750.00	2,695.52	4,614.33	3,049.18	9.53	39.40	-0.30	1,834.53	76.55	2,051.87	2,006.13	45.74	44.859			
2,800.00	2,729.90	4,598.28	3,049.53	9.75	39.07	-0.27	1,834.55	92.59	2,078.79	2,033.10	45.69	45.495			
2,850.00	2,761.65	4,581.33	3,049.90	9.95	38.72	-0.25	1,834.57	109.54	2,108.88	2,063.28	45.60	46.251			
2,880.50	2,779.67	4,570.57	3,050.13	10.03	38.50	-0.24	1,834.59	120.29	2,128.65	2,083.17	45.48	46.807			
2,900.00	2,790.86	4,563.60	3,050.28	10.06	38.36	-0.23	1,834.60	127.27	2,141.65	2,096.27	45.38	47.195			
3,000.00	2,848.22	4,527.84	3,051.06	10.22	37.63	-0.19	1,834.65	163.02	2,209.50	2,164.63	44.86	49.251			
3,080.50	2,894.39	4,499.05	3,051.69	10.37	37.05	-0.17	1,834.69	191.79	2,265.43	2,220.98	44.45	50.965			
3,100.00	2,905.45	4,491.78	3,051.85	10.53	36.91	-0.16	1,834.70	199.07	2,279.11	2,234.76	44.35	51.391			
3,150.00	2,932.56	4,470.44	3,052.31	11.32	36.48	-0.14	1,834.73	220.40	2,314.01	2,269.92	44.10	52.477			
3,200.00	2,957.72	4,445.37	3,052.86	12.28	35.98	-0.13	1,834.76	245.47	2,348.38	2,304.52	43.86	53.546			
3,250.00	2,980.75	4,416.74	3,053.48	13.23	35.42	-0.12	1,834.80	274.09	2,381.87	2,338.27	43.59	54.638			
3,300.00	3,001.47	4,400.00	3,053.85	14.19	35.09	-0.47	1,834.87	290.82	2,414.23	2,370.52	43.71	55.228			
3,350.00	3,019.72	4,400.00	3,053.85	15.15	35.09	-1.27	1,834.87	290.82	2,445.44	2,401.12	44.32	55.175			
3,400.00	3,035.35	4,368.94	3,054.53	16.13	34.43	-1.41	1,835.37	321.87	2,474.96	2,430.81	44.15	56.064			

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



<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													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	4.60	0.00	0.00	88.65	37.85	1,600.18	1,600.64					
100.00	100.00	95.40	100.00	0.95	0.91	88.65	37.85	1,600.18	1,600.63	1,598.77	1.86	860.953		
200.00	200.00	195.40	200.00	1.52	1.50	88.65	37.85	1,600.18	1,600.63	1,597.61	3.02	530.147		
300.00	300.00	295.40	300.00	1.95	1.93	88.65	37.85	1,600.18	1,600.63	1,596.75	3.88	412.220		
400.00	400.00	395.40	400.00	2.30	2.29	88.65	37.85	1,600.18	1,600.63	1,596.04	4.59	348.537		
500.00	500.00	495.40	500.00	2.61	2.60	88.65	37.85	1,600.18	1,600.63	1,595.42	5.21	307.166		
600.00	600.00	595.40	600.00	2.89	2.88	88.65	37.85	1,600.18	1,600.63	1,594.86	5.77	277.501		
700.00	700.00	695.40	700.00	3.15	3.13	88.65	37.85	1,600.18	1,600.63	1,594.35	6.28	254.877		
800.00	800.00	795.40	800.00	3.38	3.37	88.65	37.85	1,600.18	1,600.63	1,593.87	6.76	236.877		
900.00	900.00	895.40	900.00	3.61	3.60	88.65	37.85	1,600.18	1,600.63	1,593.42	7.21	222.107		
1,000.00	1,000.00	995.40	1,000.00	3.82	3.81	88.65	37.85	1,600.18	1,600.63	1,593.00	7.63	209.699		
1,100.00	1,100.00	1,095.40	1,100.00	4.02	4.02	88.65	37.85	1,600.18	1,600.63	1,592.59	8.04	199.081		
1,200.00	1,200.00	1,195.40	1,200.00	4.22	4.21	88.65	37.85	1,600.18	1,600.63	1,592.20	8.43	189.857		
1,300.00	1,300.00	1,295.40	1,300.00	4.41	4.40	88.65	37.85	1,600.18	1,600.63	1,591.82	8.81	181.744		
1,400.00	1,400.00	1,395.40	1,400.00	4.59	4.58	88.65	37.85	1,600.18	1,600.63	1,591.46	9.17	174.534		
1,500.00	1,500.00	1,495.40	1,500.00	4.77	4.76	88.65	37.85	1,600.18	1,600.63	1,591.11	9.52	168.071		
1,600.00	1,600.00	1,595.40	1,600.00	4.94	4.93	88.65	37.85	1,600.18	1,600.63	1,590.76	9.87	162.231		
1,700.00	1,700.00	1,695.40	1,700.00	5.10	5.10	88.65	37.85	1,600.18	1,600.63	1,590.43	10.20	156.921		
1,800.00	1,800.00	4,725.13	3,066.12	5.27	43.25	-1.99	933.32	-32.46	1,573.28	1,543.79	29.48	53.360		
1,900.00	1,900.00	4,722.68	3,066.18	5.43	43.20	-1.84	933.32	-30.01	1,493.98	1,463.42	30.55	48.895		
2,000.00	2,000.00	4,720.23	3,066.24	5.58	43.15	-1.69	933.32	-27.57	1,417.30	1,385.56	31.74	44.659		
2,100.00	2,100.00	4,717.78	3,066.30	5.73	43.10	-1.54	933.33	-25.12	1,343.68	1,310.65	33.03	40.680		
2,193.00	2,193.00	4,715.51	3,066.36	5.86	43.05	-1.40	933.33	-22.84	1,278.43	1,244.10	34.33	37.239		
2,200.00	2,200.00	4,715.32	3,066.36	5.87	43.05	-1.39	933.33	-22.66	1,273.68	1,239.26	34.42	36.999		
2,250.00	2,249.94	4,713.16	3,066.42	6.06	43.00	-1.31	933.33	-20.49	1,241.79	1,206.56	35.23	35.244		
2,300.00	2,299.60	4,709.54	3,066.51	6.51	42.92	-1.23	933.34	-16.87	1,213.76	1,177.50	36.26	33.475		
2,350.00	2,348.75	4,704.48	3,066.63	6.94	42.82	-1.15	933.35	-11.82	1,190.00	1,152.67	37.33	31.876		
2,400.00	2,397.13	4,698.00	3,066.79	7.34	42.68	-1.07	933.36	-5.34	1,170.86	1,132.43	38.43	30.469		
2,450.00	2,444.52	4,690.14	3,066.98	7.72	42.52	-0.99	933.37	2.52	1,156.64	1,117.12	39.52	29.270		
2,500.00	2,490.68	4,680.93	3,067.21	8.08	42.33	-0.90	933.38	11.72	1,147.56	1,107.00	40.57	28.289		
2,550.00	2,535.40	4,670.43	3,067.46	8.41	42.11	-0.83	933.40	22.22	1,143.78	1,102.23	41.55	27.530		
2,560.55	2,544.63	4,668.05	3,067.52	8.48	42.06	-0.81	933.40	24.60	1,143.66	1,101.92	41.74	27.398 CC, ES		
2,600.00	2,578.44	4,658.67	3,067.75	8.72	41.86	-0.75	933.42	33.98	1,145.31	1,102.88	42.44	26.990		
2,650.00	2,619.61	4,645.72	3,068.07	9.01	41.59	-0.68	933.44	46.92	1,152.10	1,108.89	43.21	26.663		
2,700.00	2,658.70	4,631.64	3,068.41	9.28	41.30	-0.62	933.46	61.00	1,163.98	1,120.12	43.86	26.539 SF		
2,750.00	2,695.52	4,616.50	3,068.78	9.53	40.99	-0.56	933.48	76.13	1,180.69	1,136.32	44.38	26.607		
2,800.00	2,729.90	4,600.38	3,069.18	9.75	40.66	-0.50	933.51	92.25	1,201.93	1,157.17	44.76	26.851		
2,850.00	2,761.65	4,583.35	3,069.60	9.95	40.31	-0.45	933.54	109.28	1,227.32	1,182.29	45.03	27.254		
2,880.50	2,779.67	4,572.54	3,069.86	10.03	40.09	-0.43	933.55	120.08	1,244.68	1,199.58	45.09	27.602		
2,900.00	2,790.86	4,565.54	3,070.03	10.06	39.94	-0.41	933.56	127.08	1,256.27	1,211.17	45.10	27.856		
3,000.00	2,848.22	4,529.65	3,070.91	10.22	39.21	-0.33	933.62	162.96	1,318.10	1,273.06	45.03	29.270		
3,080.50	2,894.39	4,500.75	3,071.62	10.37	38.63	-0.27	933.66	191.85	1,370.46	1,325.56	44.90	30.521		
3,100.00	2,905.45	4,493.45	3,071.80	10.53	38.48	-0.26	933.68	199.15	1,383.43	1,338.57	44.86	30.841		
3,150.00	2,932.56	4,472.05	3,072.32	11.32	38.05	-0.23	933.71	220.54	1,416.81	1,372.08	44.73	31.674		
3,200.00	2,957.72	4,446.91	3,072.94	12.28	37.55	-0.20	933.75	245.67	1,450.03	1,405.43	44.59	32.516		
3,250.00	2,980.75	2,850.00	2,781.76	13.23	9.91	56.33	259.01	1,487.49	1,465.68	1,444.97	20.71	70.774		
3,300.00	3,001.47	2,838.10	2,773.91	14.19	9.85	54.91	251.04	1,491.56	1,461.25	1,439.70	21.55	67.798		
3,350.00	3,019.72	2,824.49	2,764.75	15.15	9.79	53.50	242.08	1,496.13	1,454.41	1,432.02	22.39	64.966		
3,400.00	3,035.35	2,810.98	2,755.47	16.13	9.73	52.04	233.33	1,500.58	1,445.15	1,421.93	23.23	62.216		
3,450.00	3,048.27	2,800.00	2,747.79	17.11	9.68	50.48	226.33	1,504.15	1,433.50	1,409.40	24.10	59.482		
3,500.00	3,058.35	2,784.30	2,736.61	18.11	9.61	49.03	216.52	1,509.15	1,419.45	1,394.50	24.95	56.893		
3,550.00	3,065.53	2,771.14	2,727.05	19.10	9.54	47.48	208.46	1,513.25	1,403.04	1,377.22	25.82	54.335		

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

**Stryker Directional**  
Anticollision Report



<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												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
3,600.00	3,069.76	2,750.00	2,711.35	20.11	9.44	46.13	195.84	1,519.68	1,384.34	1,357.72	26.62	52.000	
3,601.94	3,069.86	2,750.00	2,711.35	20.15	9.44	46.05	195.84	1,519.68	1,383.56	1,356.90	26.66	51.894	
3,700.00	3,075.01	2,733.64	2,698.92	22.17	9.35	42.62	186.37	1,524.51	1,345.45	1,316.94	28.50	47.200	
3,800.00	3,080.28	2,712.11	2,682.20	24.17	9.23	39.04	174.29	1,530.66	1,309.21	1,278.98	30.23	43.305	
3,900.00	3,085.58	2,700.00	2,672.61	26.22	9.17	35.01	167.69	1,534.03	1,276.07	1,244.01	32.05	39.809	
4,000.00	3,090.89	2,676.35	2,653.54	28.30	9.03	31.06	155.23	1,540.37	1,246.33	1,212.63	33.70	36.980	
4,100.00	3,096.20	2,650.00	2,631.76	30.40	8.87	26.91	142.02	1,547.11	1,220.64	1,185.43	35.21	34.669	
4,200.00	3,101.52	2,650.00	2,631.76	32.52	8.87	21.96	142.02	1,547.11	1,199.00	1,162.04	36.96	32.444	
4,300.00	3,106.83	2,650.00	2,631.76	34.66	8.87	16.83	142.02	1,547.11	1,182.26	1,143.70	38.57	30.656	
4,400.00	3,112.13	2,626.50	2,611.89	36.80	8.73	11.99	130.84	1,552.80	1,170.10	1,130.50	39.60	29.545	
4,500.00	3,117.42	2,617.42	2,604.10	38.94	8.67	6.73	126.68	1,554.92	1,163.25	1,122.61	40.64	28.625	
4,582.44	3,121.75	2,600.00	2,589.00	40.70	8.56	2.44	118.94	1,558.86	1,161.70	1,120.59	41.11	28.260	
4,600.00	3,122.67	2,600.00	2,589.00	41.07	8.56	1.46	118.94	1,558.86	1,161.78	1,120.53	41.25	28.164	
4,627.02	3,124.09	2,600.00	2,589.00	41.64	8.56	-0.03	118.94	1,558.86	1,162.24	1,120.80	41.44	28.045	
4,700.00	3,127.91	2,600.00	2,589.00	43.17	8.56	-4.07	118.94	1,558.86	1,166.31	1,124.44	41.87	27.858	
4,800.00	3,133.14	2,600.00	2,589.00	45.29	8.56	-9.54	118.94	1,558.86	1,179.22	1,136.98	42.24	27.914	
4,900.00	3,138.37	2,600.00	2,589.00	47.45	8.56	-14.83	118.94	1,558.86	1,200.35	1,157.96	42.39	28.317	
4,927.02	3,139.79	2,600.00	2,589.00	48.03	8.56	-16.22	118.94	1,558.86	1,207.42	1,165.03	42.39	28.484	
4,998.60	3,142.64	2,582.43	2,573.56	49.60	8.44	-19.76	111.47	1,562.67	1,228.09	1,186.13	41.96	29.267	
5,000.00	3,142.68	2,582.33	2,573.48	49.63	8.44	-19.83	111.43	1,562.69	1,228.53	1,186.57	41.96	29.281	
5,100.00	3,145.42	2,575.56	2,567.47	51.83	8.39	-24.61	108.64	1,564.11	1,263.35	1,221.77	41.59	30.378	
5,200.00	3,148.15	2,569.06	2,561.67	54.07	8.35	-29.08	106.02	1,565.45	1,304.84	1,263.76	41.08	31.766	
5,300.00	3,150.89	2,550.00	2,544.54	56.31	8.22	-33.23	98.58	1,569.24	1,352.55	1,312.36	40.19	33.652	
5,400.00	3,153.63	2,550.00	2,544.54	58.58	8.22	-37.02	98.58	1,569.24	1,405.40	1,365.77	39.63	35.467	
5,500.00	3,156.36	2,550.00	2,544.54	60.86	8.22	-40.46	98.58	1,569.24	1,463.18	1,424.18	39.00	37.513	
5,600.00	3,159.10	2,550.00	2,544.54	63.15	8.22	-43.59	98.58	1,569.24	1,525.34	1,486.99	38.35	39.771	
5,700.00	3,161.84	2,550.00	2,544.54	65.46	8.22	-46.42	98.58	1,569.24	1,591.36	1,553.67	37.69	42.223	
5,800.00	3,164.58	2,550.00	2,544.54	67.78	8.22	-48.98	98.58	1,569.24	1,660.78	1,623.75	37.03	44.851	
5,900.00	3,167.31	2,530.17	2,526.48	70.10	8.07	-51.43	91.28	1,572.96	1,732.82	1,696.80	36.02	48.109	
6,000.00	3,170.05	2,525.41	2,522.12	72.44	8.04	-53.57	89.60	1,573.82	1,807.68	1,772.37	35.32	51.185	
6,100.00	3,172.79	2,520.82	2,517.90	74.78	8.01	-55.52	88.00	1,574.63	1,884.84	1,850.19	34.65	54.401	
6,200.00	3,175.52	2,500.00	2,498.59	77.13	7.85	-57.40	81.04	1,578.18	1,964.25	1,930.51	33.75	58.206	
6,300.00	3,178.26	2,500.00	2,498.59	79.49	7.85	-59.00	81.04	1,578.18	2,045.12	2,011.90	33.22	61.557	
6,400.00	3,181.00	2,500.00	2,498.59	81.85	7.85	-60.46	81.04	1,578.18	2,127.61	2,094.89	32.73	65.007	
6,500.00	3,183.73	2,500.00	2,498.59	84.22	7.85	-61.80	81.04	1,578.18	2,211.55	2,179.29	32.26	68.546	
6,600.00	3,186.47	2,500.00	2,498.59	86.59	7.85	-63.04	81.04	1,578.18	2,296.78	2,264.95	31.83	72.165	
6,700.00	3,189.21	2,500.00	2,498.59	88.97	7.85	-64.18	81.04	1,578.18	2,383.15	2,351.73	31.42	75.854	
6,800.00	3,191.94	2,500.00	2,498.59	91.35	7.85	-65.23	81.04	1,578.18	2,470.55	2,439.52	31.03	79.607	

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.**

<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													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	4.60	0.00	0.00	89.36	17.85	1,600.08	1,600.19					
100.00	100.00	95.40	100.00	0.95	0.91	89.36	17.85	1,600.08	1,600.18	1,598.32	1.86	860.712		
200.00	200.00	195.40	200.00	1.52	1.50	89.36	17.85	1,600.08	1,600.18	1,597.16	3.02	529.999		
300.00	300.00	295.40	300.00	1.95	1.93	89.36	17.85	1,600.08	1,600.18	1,596.30	3.88	412.104		
400.00	400.00	395.40	400.00	2.30	2.29	89.36	17.85	1,600.08	1,600.18	1,595.59	4.59	348.439		
500.00	500.00	495.40	500.00	2.61	2.60	89.36	17.85	1,600.08	1,600.18	1,594.97	5.21	307.080		
600.00	600.00	595.40	600.00	2.89	2.88	89.36	17.85	1,600.08	1,600.18	1,594.41	5.77	277.423		
700.00	700.00	695.40	700.00	3.15	3.13	89.36	17.85	1,600.08	1,600.18	1,593.90	6.28	254.806		
800.00	800.00	795.40	800.00	3.38	3.37	89.36	17.85	1,600.08	1,600.18	1,593.43	6.76	236.811		
900.00	900.00	895.40	900.00	3.61	3.60	89.36	17.85	1,600.08	1,600.18	1,592.98	7.21	222.045		
1,000.00	1,000.00	995.40	1,000.00	3.82	3.81	89.36	17.85	1,600.08	1,600.18	1,592.55	7.63	209.641		
1,100.00	1,100.00	1,095.40	1,100.00	4.02	4.02	89.36	17.85	1,600.08	1,600.18	1,592.14	8.04	199.025		
1,200.00	1,200.00	1,195.40	1,200.00	4.22	4.21	89.36	17.85	1,600.08	1,600.18	1,591.75	8.43	189.804		
1,300.00	1,300.00	1,295.40	1,300.00	4.41	4.40	89.36	17.85	1,600.08	1,600.18	1,591.38	8.81	181.693		
1,400.00	1,400.00	1,395.40	1,400.00	4.59	4.58	89.36	17.85	1,600.08	1,600.18	1,591.01	9.17	174.486		
1,500.00	1,500.00	1,395.40	1,400.00	4.77	38.33	-64.75	18.18	-38.53	1,579.20	1,561.15	18.06	87.465		
1,600.00	1,600.00	1,395.40	1,400.00	4.94	38.27	-63.27	18.18	-36.09	1,479.24	1,461.13	18.11	81.665		
1,700.00	1,700.00	1,395.40	1,400.00	5.10	38.21	-61.62	18.18	-33.66	1,379.28	1,361.10	18.18	75.887		
1,800.00	1,800.00	1,395.40	1,400.00	5.27	38.15	-59.77	18.19	-31.22	1,279.32	1,261.08	18.24	70.134		
1,900.00	1,900.00	1,395.40	1,400.00	5.43	38.10	-57.70	18.19	-28.78	1,179.36	1,161.05	18.31	64.410		
2,000.00	2,000.00	1,395.40	1,400.00	5.58	38.04	-55.36	18.20	-26.34	1,079.40	1,061.02	18.38	58.717		
2,100.00	2,100.00	1,395.40	1,400.00	5.73	37.98	-52.72	18.20	-23.91	979.45	960.99	18.46	53.059		
2,193.00	2,193.00	1,395.40	1,400.00	5.86	37.92	-49.93	18.21	-21.64	886.49	867.96	18.53	47.830		
2,200.00	2,200.00	1,395.40	1,400.00	5.87	37.92	-49.65	18.21	-21.46	879.50	860.96	18.54	47.438		
2,250.00	2,249.94	1,395.40	1,400.00	6.06	37.87	-44.99	18.21	-19.30	829.65	811.07	18.58	44.657		
2,300.00	2,299.60	1,395.40	1,400.00	6.51	37.78	-36.83	18.22	-15.69	780.23	761.60	18.63	41.885		
2,350.00	2,348.75	1,395.40	1,400.00	6.94	37.66	-27.90	18.23	-10.63	731.56	712.85	18.71	39.098		
2,400.00	2,397.13	1,395.40	1,400.00	7.34	37.50	-20.32	18.24	-4.17	684.03	665.17	18.87	36.256		
2,450.00	2,444.52	1,395.40	1,400.00	7.72	37.31	-14.67	18.25	3.68	638.12	618.97	19.15	33.318		
2,500.00	2,490.68	1,395.40	1,400.00	8.08	37.09	-10.67	18.27	12.88	594.38	574.74	19.65	30.254		
2,550.00	2,535.40	1,395.40	1,400.00	8.41	36.84	-7.88	18.29	23.37	553.52	533.07	20.45	27.070		
2,600.00	2,578.44	1,395.40	1,400.00	8.72	36.56	-5.91	18.31	35.11	516.35	494.69	21.66	23.838		
2,650.00	2,619.61	1,395.40	1,400.00	9.01	36.25	-4.51	18.33	48.05	483.84	460.47	23.37	20.702		
2,700.00	2,658.70	1,395.40	1,400.00	9.28	35.91	-3.49	18.36	62.11	457.06	431.46	25.60	17.854		
2,750.00	2,695.52	1,395.40	1,400.00	9.53	35.55	-2.73	18.39	77.23	437.10	408.84	28.26	15.464		
2,800.00	2,729.90	1,395.40	1,400.00	9.75	35.16	-2.17	18.42	93.34	424.92	393.75	31.17	13.632		
2,847.03	2,759.84	1,395.40	1,400.00	9.94	34.78	-1.77	18.45	109.32	421.12	387.24	33.88	12.431 CC		
2,850.00	2,761.65	1,395.40	1,400.00	9.95	34.75	-1.75	18.45	110.35	421.13	387.09	34.04	12.372 ES		
2,880.50	2,779.67	1,395.40	1,400.00	10.03	34.49	-1.54	18.47	121.15	423.03	387.47	35.56	11.897		
2,900.00	2,790.86	1,395.40	1,400.00	10.06	34.33	-1.42	18.48	128.14	425.64	389.22	36.42	11.686		
3,000.00	2,848.22	1,395.40	1,400.00	10.22	33.47	-0.96	18.55	164.00	450.47	410.57	39.91	11.288 SF		
3,080.50	2,894.39	1,395.40	1,400.00	10.37	32.78	-0.70	18.60	192.87	482.81	441.28	41.53	11.625		
3,100.00	2,905.45	1,395.40	1,400.00	10.53	32.60	-0.65	18.61	200.16	492.06	450.28	41.77	11.779		
3,150.00	2,932.56	1,395.40	1,400.00	11.32	32.09	-0.53	18.65	221.54	517.79	475.61	42.18	12.274		
3,200.00	2,957.72	1,395.40	1,400.00	12.28	31.49	-0.44	18.70	246.66	545.59	503.24	42.35	12.883		
3,250.00	2,980.75	1,395.40	1,400.00	13.23	30.81	-0.37	18.75	275.32	574.49	532.19	42.30	13.582		
3,300.00	3,001.47	1,395.40	1,400.00	14.19	30.05	-0.30	18.81	307.30	603.63	561.53	42.10	14.337		
3,350.00	3,019.72	1,395.40	1,400.00	15.15	29.22	-0.26	18.87	342.36	632.30	590.48	41.82	15.119		
3,400.00	3,035.35	1,395.40	1,400.00	16.13	28.32	-0.22	18.94	380.23	659.88	618.38	41.50	15.901		
3,450.00	3,048.27	1,395.40	1,400.00	17.11	27.37	-0.19	19.01	420.62	685.86	644.69	41.17	16.659		
3,500.00	3,058.35	1,395.40	1,400.00	18.11	26.36	-0.17	19.09	463.24	709.83	668.97	40.86	17.373		
3,550.00	3,065.53	1,395.40	1,400.00	19.10	25.32	-0.15	19.17	507.74	731.46	690.88	40.58	18.027		

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.**

<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Horned Frog/Maverick - The Maverick #2H - Wellbore #1 - Design #2													Offset Well Error:	0.00 usft
Survey Program: 0-MWD														
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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,600.00	3,069.76	3,775.34	3,093.07	20.11	24.24	-0.15	19.26	553.80	750.47	710.13	40.34	18.601		
3,601.94	3,069.86	3,773.52	3,093.12	20.15	24.20	-0.15	19.26	555.62	751.15	710.82	40.34	18.623		
3,700.00	3,075.01	3,681.20	3,095.37	22.17	22.06	-0.14	19.43	647.91	783.97	743.94	40.03	19.583		
3,800.00	3,080.28	3,585.95	3,097.69	24.17	19.88	-0.13	19.60	743.13	814.19	774.47	39.72	20.498		
3,900.00	3,085.58	3,487.94	3,097.64	26.22	17.69	-0.01	19.76	841.10	841.02	801.49	39.53	21.277		
4,000.00	3,090.89	3,391.29	3,083.00	28.30	15.61	-0.12	19.81	936.52	864.41	824.98	39.43	21.924		
4,100.00	3,096.20	3,302.74	3,055.68	30.40	13.83	-1.00	19.75	1,020.66	885.36	845.91	39.45	22.443		
4,200.00	3,101.52	3,225.00	3,021.27	32.52	12.43	-2.82	19.61	1,090.30	905.37	865.81	39.57	22.883		
4,300.00	3,106.83	3,154.02	2,982.24	34.66	11.30	-5.26	19.42	1,149.56	925.91	886.24	39.67	23.339		
4,400.00	3,112.13	3,075.62	2,937.27	36.80	10.32	-7.36	19.20	1,213.78	947.00	907.26	39.73	23.835		
4,500.00	3,117.42	2,996.99	2,892.17	38.94	10.20	-9.44	18.97	1,278.19	968.30	928.51	39.79	24.338		
4,600.00	3,122.67	2,937.01	2,856.88	41.07	10.04	-12.46	18.80	1,326.67	990.28	950.40	39.89	24.827		
4,627.02	3,124.09	2,923.43	2,848.38	41.64	9.99	-13.42	18.77	1,337.26	996.60	956.72	39.87	24.993		
4,700.00	3,127.91	2,888.97	2,825.93	43.17	9.85	-16.11	18.68	1,363.40	1,015.45	975.65	39.80	25.517		
4,800.00	3,133.14	2,850.00	2,799.07	45.29	9.67	-20.09	18.58	1,391.62	1,046.43	1,006.83	39.59	26.431		
4,900.00	3,138.37	2,800.00	2,762.42	47.45	9.43	-23.58	18.46	1,425.62	1,083.37	1,044.08	39.29	27.576		
4,927.02	3,139.79	2,800.00	2,762.42	48.03	9.43	-24.96	18.46	1,425.62	1,094.26	1,055.08	39.18	27.930		
4,998.60	3,142.64	2,776.22	2,744.18	49.60	9.30	-27.74	18.41	1,440.87	1,124.99	1,086.11	38.88	28.933		
5,000.00	3,142.68	2,775.77	2,743.83	49.63	9.30	-27.79	18.40	1,441.16	1,125.61	1,086.74	38.88	28.954		
5,100.00	3,145.42	2,750.00	2,723.49	51.83	9.16	-31.70	18.35	1,456.98	1,172.81	1,134.43	38.38	30.557		
5,200.00	3,148.15	2,718.36	2,697.76	54.07	8.98	-35.19	18.29	1,475.39	1,224.99	1,187.16	37.82	32.386		
5,300.00	3,150.89	2,700.00	2,682.47	56.31	8.87	-38.72	18.25	1,485.55	1,281.81	1,244.60	37.21	34.447		
5,400.00	3,153.63	2,672.38	2,658.98	58.58	8.70	-41.78	18.20	1,500.08	1,342.75	1,306.19	36.56	36.723		
5,500.00	3,156.36	2,650.00	2,639.55	60.86	8.56	-44.68	18.16	1,511.18	1,407.49	1,371.59	35.90	39.208		
5,600.00	3,159.10	2,650.00	2,639.55	63.15	8.56	-47.63	18.16	1,511.18	1,475.76	1,440.50	35.26	41.852		
5,700.00	3,161.84	2,618.91	2,612.00	65.46	8.35	-49.92	18.11	1,525.59	1,546.63	1,512.04	34.59	44.713		
5,800.00	3,164.58	2,600.00	2,594.95	67.78	8.23	-52.16	18.08	1,533.76	1,620.38	1,586.43	33.95	47.730		
5,900.00	3,167.31	2,600.00	2,594.95	70.10	8.23	-54.36	18.08	1,533.76	1,696.53	1,663.16	33.37	50.833		
6,000.00	3,170.05	2,578.48	2,575.29	72.44	8.07	-56.18	18.05	1,542.51	1,774.64	1,741.87	32.77	54.151		
6,100.00	3,172.79	2,550.00	2,548.88	74.78	7.87	-57.81	18.01	1,553.17	1,854.95	1,822.78	32.17	57.664		
6,200.00	3,175.52	2,550.00	2,548.88	77.13	7.87	-59.48	18.01	1,553.17	1,936.43	1,904.75	31.68	61.118		
6,300.00	3,178.26	2,550.00	2,548.88	79.49	7.87	-60.99	18.01	1,553.17	2,019.59	1,988.36	31.23	64.670		
6,400.00	3,181.00	2,550.00	2,548.88	81.85	7.87	-62.38	18.01	1,553.17	2,104.20	2,073.40	30.80	68.309		
6,500.00	3,183.73	2,529.73	2,529.84	84.22	7.72	-63.56	17.99	1,560.12	2,189.77	2,159.43	30.33	72.193		
6,600.00	3,186.47	2,521.96	2,522.49	86.59	7.66	-64.70	17.98	1,562.64	2,276.51	2,246.58	29.93	76.056		
6,700.00	3,189.21	2,500.00	2,501.58	88.97	7.49	-65.71	17.96	1,569.33	2,364.40	2,334.90	29.50	80.153		
6,800.00	3,191.94	2,500.00	2,501.58	91.35	7.49	-66.72	17.96	1,569.33	2,452.83	2,423.65	29.18	84.062		

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.**

<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													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	4.60	0.00	0.00	90.08	-2.15	1,599.98	1,599.99					
100.00	100.00	95.40	100.00	0.95	0.91	90.08	-2.15	1,599.98	1,599.98	1,598.13	1.86	860.605		
200.00	200.00	195.40	200.00	1.52	1.50	90.08	-2.15	1,599.98	1,599.98	1,596.97	3.02	529.933		
300.00	300.00	295.40	300.00	1.95	1.93	90.08	-2.15	1,599.98	1,599.98	1,596.10	3.88	412.053		
400.00	400.00	395.40	400.00	2.30	2.29	90.08	-2.15	1,599.98	1,599.98	1,595.39	4.59	348.396		
500.00	500.00	495.40	500.00	2.61	2.60	90.08	-2.15	1,599.98	1,599.98	1,594.77	5.21	307.042		
600.00	600.00	595.40	600.00	2.89	2.88	90.08	-2.15	1,599.98	1,599.98	1,594.22	5.77	277.389		
700.00	700.00	695.40	700.00	3.15	3.13	90.08	-2.15	1,599.98	1,599.98	1,593.70	6.28	254.774		
800.00	800.00	795.40	800.00	3.38	3.37	90.08	-2.15	1,599.98	1,599.98	1,593.23	6.76	236.781		
900.00	900.00	895.40	900.00	3.61	3.60	90.08	-2.15	1,599.98	1,599.98	1,592.78	7.21	222.017		
1,000.00	1,000.00	995.40	1,000.00	3.82	3.81	90.08	-2.15	1,599.98	1,599.98	1,592.35	7.63	209.615		
1,100.00	1,100.00	1,095.40	1,100.00	4.02	4.02	90.08	-2.15	1,599.98	1,599.98	1,591.94	8.04	199.001		
1,200.00	1,200.00	1,195.40	1,200.00	4.22	4.21	90.08	-2.15	1,599.98	1,599.98	1,591.55	8.43	189.780		
1,300.00	1,300.00	1,295.40	1,300.00	4.41	4.40	90.08	-2.15	1,599.98	1,599.98	1,591.18	8.81	181.671		
1,400.00	1,400.00	1,395.40	1,400.00	4.59	4.58	90.08	-2.15	1,599.98	1,599.98	1,590.81	9.17	174.464		
1,500.00	1,500.00	1,495.40	1,500.00	4.77	4.76	90.08	-2.15	1,599.98	1,599.98	1,590.46	9.52	168.003		
1,600.00	1,600.00	1,595.40	1,600.00	4.94	4.93	90.08	-2.15	1,599.98	1,599.98	1,590.12	9.87	162.166		
1,700.00	1,700.00	1,695.40	1,700.00	5.10	5.10	90.08	-2.15	1,599.98	1,599.98	1,589.78	10.20	156.857		
1,800.00	1,800.00	1,788.36	1,788.36	5.27	41.52	-177.76	-897.99	-35.19	1,594.60	1,566.41	28.19	56.566		
1,900.00	1,900.00	1,785.57	1,785.57	5.43	41.46	-177.93	-897.98	-32.40	1,513.05	1,483.92	29.13	51.942		
2,000.00	2,000.00	1,782.78	1,782.78	5.58	41.40	-178.11	-897.98	-29.61	1,433.82	1,403.64	30.18	47.516		
2,100.00	2,100.00	1,779.98	1,779.98	5.73	41.34	-178.29	-897.97	-26.82	1,357.33	1,326.00	31.33	43.317		
2,193.00	2,193.00	1,777.39	1,777.39	5.86	41.29	-178.45	-897.97	-24.22	1,289.08	1,256.57	32.51	39.648		
2,200.00	2,200.00	1,777.18	1,777.18	5.87	41.28	-178.47	-897.97	-24.01	1,284.05	1,251.45	32.60	39.385		
2,250.00	2,249.94	1,774.84	1,774.84	6.06	41.23	-178.55	-897.97	-21.68	1,247.42	1,214.11	33.30	37.454		
2,300.00	2,299.60	1,771.05	1,771.05	6.51	41.16	-178.63	-897.96	-17.89	1,209.62	1,175.54	34.08	35.496		
2,350.00	2,348.75	1,765.83	1,765.83	6.94	41.05	-178.71	-897.95	-12.67	1,170.73	1,135.95	34.78	33.658		
2,400.00	2,397.13	1,759.19	1,759.19	7.34	40.91	-178.78	-897.94	-6.03	1,130.82	1,095.40	35.42	31.923		
2,450.00	2,444.52	1,751.17	1,751.17	7.72	40.74	-178.84	-897.92	1.99	1,089.95	1,053.95	36.00	30.279		
2,500.00	2,490.68	1,741.81	1,741.81	8.08	40.55	-178.90	-897.91	11.34	1,048.19	1,011.68	36.51	28.713		
2,550.00	2,535.40	1,731.15	1,731.15	8.41	40.32	-178.96	-897.89	21.99	1,005.60	968.65	36.95	27.218		
2,600.00	2,578.44	1,719.25	1,719.25	8.72	40.08	-179.01	-897.87	33.89	962.26	924.94	37.32	25.783		
2,650.00	2,619.61	1,706.17	1,706.17	9.01	39.81	-179.06	-897.84	46.97	918.25	880.62	37.63	24.403		
2,700.00	2,658.70	1,691.97	1,691.97	9.28	39.51	-179.11	-897.82	61.17	873.63	835.76	37.87	23.070		
2,750.00	2,695.52	1,676.71	1,676.71	9.53	39.20	-179.15	-897.79	76.42	828.49	790.44	38.04	21.779		
2,800.00	2,729.90	1,660.47	1,660.47	9.75	38.87	-179.18	-897.76	92.64	782.91	744.77	38.14	20.527		
2,850.00	2,761.65	1,643.34	1,643.34	9.95	38.52	-179.21	-897.73	109.77	737.01	698.84	38.17	19.311		
2,880.50	2,779.67	1,632.48	1,632.48	10.03	38.30	-179.22	-897.71	120.63	708.89	670.75	38.14	18.586		
2,900.00	2,790.86	1,625.45	1,625.45	10.06	38.15	-179.23	-897.70	127.66	690.90	652.79	38.12	18.126		
3,000.00	2,848.22	1,589.37	1,589.37	10.22	37.43	-179.28	-897.64	163.72	598.83	560.75	38.08	15.725		
3,080.50	2,894.39	1,560.33	1,560.33	10.37	36.84	-179.33	-897.58	192.75	525.03	486.85	38.18	13.751		
3,100.00	2,905.45	1,553.00	1,553.00	10.53	36.70	-179.34	-897.57	200.08	507.31	469.09	38.22	13.275		
3,150.00	2,932.56	1,531.51	1,531.51	11.32	36.27	-179.37	-897.53	221.55	463.00	424.69	38.31	12.086		
3,200.00	2,957.72	1,506.30	1,506.30	12.28	35.77	-179.41	-897.49	246.76	420.57	382.16	38.41	10.949		
3,250.00	2,980.75	1,477.56	1,477.56	13.23	35.21	-179.44	-897.44	275.49	380.30	341.81	38.49	9.880		
3,300.00	3,001.47	1,441.33	1,441.33	14.19	34.48	-179.48	-897.21	311.70	342.31	303.74	38.57	8.875		
3,350.00	3,019.72	1,400.49	1,400.49	15.15	33.67	-179.53	-896.16	352.51	306.33	267.73	38.60	7.936		
3,400.00	3,035.35	1,357.88	1,357.88	16.13	32.77	-179.54	-894.14	395.06	272.38	233.88	38.51	7.074		
3,450.00	3,048.27	1,313.80	1,313.80	17.11	31.85	-179.51	-891.05	439.01	240.55	202.25	38.30	6.281		
3,500.00	3,058.35	1,268.54	1,268.54	18.11	30.91	-179.47	-886.83	484.05	210.93	173.00	37.94	5.560		
3,550.00	3,065.53	1,222.37	1,222.37	19.10	29.94	-179.42	-881.42	529.89	183.70	146.35	37.35	4.919		
3,600.00	3,069.76	1,175.53	1,175.53	20.11	28.97	-179.37	-874.80	576.24	159.14	122.70	36.44	4.367		

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.**

<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													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			
3,601.94	3,069.86	4,173.70	3,134.50	20.15	28.93	171.84	-874.52	578.04	158.25	121.86	36.40	4.348			
3,700.00	3,075.01	4,082.89	3,137.09	22.17	27.04	169.45	-858.37	667.36	114.08	80.70	33.38	3.417			
3,800.00	3,080.28	3,993.44	3,139.64	24.17	25.20	167.86	-838.33	754.49	74.45	47.47	26.98	2.759			
3,892.94	3,085.20	3,913.00	3,141.92	26.07	23.54	-43.82	-816.84	831.97	56.83	31.75	25.08	2.266 CC			
3,900.00	3,085.58	3,906.99	3,142.09	26.22	23.42	-30.11	-815.10	837.72	56.95	31.03	25.91	2.198 ES			
4,000.00	3,090.89	3,823.34	3,144.46	28.30	21.73	-20.86	-789.07	917.17	79.98	43.19	36.79	2.174 SF			
4,100.00	3,096.20	3,742.33	3,146.74	30.40	20.08	-22.55	-760.56	992.96	123.43	84.58	38.85	3.177			
4,200.00	3,101.52	3,665.45	3,147.96	32.52	18.57	-25.22	-730.12	1,063.51	173.23	134.67	38.56	4.493			
4,300.00	3,106.83	3,600.00	3,143.82	34.66	17.35	-30.01	-699.71	1,121.29	227.63	190.34	37.29	6.104			
4,400.00	3,112.13	3,535.65	3,134.42	36.80	16.16	-33.55	-665.83	1,175.14	286.47	250.44	36.04	7.949			
4,500.00	3,117.42	3,481.68	3,122.54	38.94	15.18	-38.00	-634.68	1,217.55	349.43	315.06	34.37	10.167			
4,600.00	3,122.67	3,433.98	3,109.10	41.07	14.33	-42.32	-605.30	1,252.63	415.91	383.25	32.66	12.736			
4,627.02	3,124.09	3,422.06	3,105.32	41.64	14.11	-43.45	-597.71	1,261.01	434.40	402.22	32.18	13.501			
4,700.00	3,127.91	3,400.00	3,097.90	43.17	13.73	-47.25	-583.43	1,276.09	486.09	455.44	30.66	15.855			
4,800.00	3,133.14	3,350.00	3,079.03	45.29	12.85	-49.46	-550.02	1,308.12	560.68	531.12	29.56	18.970			
4,900.00	3,138.37	3,324.90	3,068.53	47.45	12.41	-53.26	-532.76	1,323.02	639.07	611.05	28.01	22.812			
4,927.02	3,139.79	3,317.24	3,065.19	48.03	12.27	-54.07	-527.43	1,327.40	660.82	633.15	27.68	23.876			
4,998.60	3,142.64	3,300.00	3,057.46	49.60	11.98	-56.20	-515.36	1,336.97	719.40	692.57	26.83	26.815			
5,000.00	3,142.68	3,300.00	3,057.46	49.63	11.98	-56.26	-515.36	1,336.97	720.56	693.75	26.81	26.880			
5,100.00	3,145.42	3,273.70	3,045.09	51.83	11.51	-58.59	-496.72	1,350.78	804.42	778.57	25.85	31.115			
5,200.00	3,148.15	3,250.00	3,033.35	54.07	11.11	-60.63	-479.71	1,362.40	890.38	865.33	25.05	35.538			
5,300.00	3,150.89	3,233.99	3,025.13	56.31	10.81	-62.72	-468.14	1,369.79	978.06	953.78	24.28	40.285			
5,400.00	3,153.63	3,217.47	3,016.40	58.58	10.56	-64.45	-456.13	1,377.02	1,067.19	1,043.49	23.71	45.019			
5,500.00	3,156.36	3,200.00	3,006.90	60.86	10.46	-65.87	-443.36	1,384.23	1,157.56	1,134.28	23.28	49.719			
5,600.00	3,159.10	3,189.55	3,001.09	63.15	10.43	-67.36	-435.69	1,388.33	1,248.94	1,226.06	22.88	54.576			
5,700.00	3,161.84	3,173.50	2,991.99	65.46	10.40	-68.45	-423.89	1,394.28	1,341.24	1,318.65	22.59	59.385			
5,800.00	3,164.58	3,152.05	2,979.69	67.78	10.35	-69.22	-408.10	1,401.99	1,434.14	1,411.74	22.40	64.023			
5,900.00	3,167.31	3,117.71	2,959.99	70.10	10.30	-69.51	-382.82	1,414.32	1,527.23	1,504.90	22.33	68.391			
6,000.00	3,170.05	3,083.38	2,940.30	72.44	10.25	-69.76	-357.54	1,426.65	1,620.41	1,598.10	22.30	72.650			
6,100.00	3,172.79	3,049.04	2,920.60	74.78	10.19	-69.98	-332.26	1,438.98	1,713.67	1,691.34	22.33	76.736			
6,200.00	3,175.52	3,014.70	2,900.91	77.13	10.14	-70.18	-306.98	1,451.31	1,807.00	1,784.62	22.37	80.761			
6,300.00	3,178.26	2,980.36	2,881.21	79.49	10.09	-70.36	-281.70	1,463.64	1,900.38	1,877.92	22.46	84.598			
6,400.00	3,181.00	2,955.71	2,866.89	81.85	10.04	-70.76	-263.66	1,472.43	1,993.89	1,971.40	22.48	88.680			
6,500.00	3,183.73	2,934.48	2,854.04	84.22	9.96	-71.21	-248.48	1,479.84	2,087.64	2,065.16	22.48	92.861			
6,600.00	3,186.47	2,914.32	2,841.37	86.59	9.88	-71.65	-234.38	1,486.72	2,181.63	2,159.16	22.47	97.072			
6,700.00	3,189.21	2,900.00	2,832.10	88.97	9.83	-72.18	-224.57	1,491.50	2,275.87	2,253.46	22.41	101.556			
6,800.00	3,191.94	2,876.99	2,816.77	91.35	9.73	-72.51	-209.15	1,499.02	2,370.32	2,347.85	22.47	105.488			
6,900.00	3,194.68	2,850.00	2,798.09	93.73	9.61	-72.77	-191.64	1,507.56	2,465.03	2,442.46	22.57	109.213			

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.**

<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 0-MWD													The Aggie/The Red Raider [PRELIM] - The Aggie #3H - Wellbore #1 - PRELIM		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				
1,800.00	1,800.00	3,800.00	3,138.55	5.27	22.46	18.92	1,946.21	667.19	2,454.50	2,430.04	24.46	100.346				
1,900.00	1,900.00	3,800.00	3,138.55	5.43	22.46	18.92	1,946.21	667.19	2,401.43	2,376.56	24.87	96.566				
2,000.00	2,000.00	3,800.00	3,138.55	5.58	22.46	18.92	1,946.21	667.19	2,351.42	2,326.15	25.27	93.053				
2,100.00	2,100.00	3,800.00	3,138.55	5.73	22.46	18.92	1,946.21	667.19	2,304.66	2,279.00	25.66	89.811				
2,193.00	2,193.00	3,800.00	3,138.55	5.86	22.46	18.92	1,946.21	667.19	2,264.27	2,238.27	26.00	87.073				
2,200.00	2,200.00	3,800.00	3,138.55	5.87	22.46	18.92	1,946.21	667.19	2,261.38	2,235.36	26.02	86.907				
2,250.00	2,249.94	3,800.00	3,138.55	6.06	22.46	18.88	1,946.21	667.19	2,242.59	2,216.35	26.24	85.464				
2,300.00	2,299.60	3,800.00	3,138.55	6.51	22.46	18.77	1,946.21	667.19	2,227.20	2,200.62	26.58	83.786				
2,350.00	2,348.75	3,800.00	3,138.55	6.94	22.46	18.59	1,946.21	667.19	2,215.34	2,188.42	26.93	82.273				
2,400.00	2,397.13	3,827.24	3,138.21	7.34	23.03	19.11	1,937.23	692.90	2,206.80	2,178.90	27.90	79.103				
2,450.00	2,444.52	3,832.22	3,138.15	7.72	23.14	18.94	1,935.62	697.62	2,202.19	2,173.84	28.36	77.665				
2,486.86	2,478.68	3,836.57	3,138.10	7.98	23.23	18.80	1,934.23	701.74	2,201.18	2,172.48	28.70	76.685	CC, ES			
2,500.00	2,490.68	3,838.26	3,138.08	8.08	23.27	18.74	1,933.69	703.33	2,201.31	2,172.48	28.83	76.353				
2,550.00	2,535.40	3,845.29	3,137.99	8.41	23.41	18.51	1,931.47	710.01	2,204.14	2,174.81	29.32	75.172				
2,600.00	2,578.44	3,853.27	3,137.89	8.72	23.58	18.26	1,928.98	717.58	2,210.63	2,180.80	29.82	74.121				
2,650.00	2,619.61	3,862.12	3,137.78	9.01	23.77	17.98	1,926.26	726.00	2,220.69	2,190.35	30.34	73.197				
2,700.00	2,658.70	3,871.77	3,137.66	9.28	23.98	17.67	1,923.33	735.20	2,234.22	2,203.35	30.86	72.394				
2,750.00	2,695.52	3,900.00	3,137.31	9.53	24.58	17.81	1,915.03	762.18	2,251.20	2,219.38	31.82	70.747				
2,800.00	2,729.90	3,900.00	3,137.31	9.75	24.58	17.18	1,915.03	762.18	2,271.03	2,238.94	32.10	70.755				
2,850.00	2,761.65	3,900.00	3,137.31	9.95	24.58	16.52	1,915.03	762.18	2,293.92	2,261.55	32.36	70.880				
2,880.50	2,779.67	3,900.00	3,137.31	10.03	24.58	16.11	1,915.03	762.18	2,309.29	2,276.80	32.49	71.081				
2,900.00	2,790.86	3,900.00	3,137.31	10.06	24.58	15.85	1,915.03	762.18	2,319.51	2,286.95	32.55	71.250				
3,000.00	2,848.22	3,940.70	3,136.80	10.22	25.45	15.54	1,903.77	801.29	2,372.95	2,339.01	33.94	69.912				
3,080.50	2,894.39	3,959.38	3,136.57	10.37	25.85	14.96	1,898.89	819.32	2,417.85	2,383.12	34.73	69.616				
3,100.00	2,905.45	3,963.96	3,136.51	10.53	25.95	14.82	1,897.71	823.75	2,428.85	2,393.92	34.93	69.545				
3,150.00	2,932.56	4,000.00	3,136.07	11.32	26.72	14.97	1,888.87	858.68	2,456.61	2,420.45	36.17	67.926				
3,200.00	2,957.72	4,000.00	3,136.07	12.28	26.72	14.21	1,888.87	858.68	2,482.75	2,446.18	36.57	67.881	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.**

<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													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	0.27	40.00	0.19	40.00					
100.00	100.00	100.00	100.00	0.95	0.95	0.27	40.00	0.19	40.00	38.10	1.90	21.021		
200.00	200.00	200.00	200.00	1.52	1.52	0.27	40.00	0.19	40.00	36.96	3.05	13.134		
300.00	300.00	300.00	300.00	1.95	1.95	0.27	40.00	0.19	40.00	36.10	3.90	10.250		
400.00	400.00	400.00	400.00	2.30	2.30	0.27	40.00	0.19	40.00	35.39	4.61	8.679		
500.00	500.00	500.00	500.00	2.61	2.61	0.27	40.00	0.19	40.00	34.78	5.23	7.655		
600.00	600.00	600.00	600.00	2.89	2.89	0.27	40.00	0.19	40.00	34.22	5.78	6.920		
700.00	700.00	700.00	700.00	3.15	3.15	0.27	40.00	0.19	40.00	33.71	6.29	6.358		
800.00	800.00	800.00	800.00	3.38	3.38	0.27	40.00	0.19	40.00	33.23	6.77	5.910		
900.00	900.00	900.00	900.00	3.61	3.61	0.27	40.00	0.19	40.00	32.78	7.22	5.543		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	0.27	40.00	0.19	40.00	32.36	7.64	5.234		
1,100.00	1,100.00	1,100.00	1,100.00	4.02	4.02	0.27	40.00	0.19	40.00	31.95	8.05	4.969		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	0.27	40.00	0.19	40.00	31.56	8.44	4.740		
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	0.27	40.00	0.19	40.00	31.19	8.82	4.537		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	0.27	40.00	0.19	40.00	30.82	9.18	4.358		
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	0.27	40.00	0.19	40.00	30.47	9.53	4.197		
1,600.00	1,600.00	1,600.00	1,600.00	4.94	4.94	0.27	40.00	0.19	40.00	30.13	9.87	4.051		
1,700.00	1,700.00	1,700.00	1,700.00	5.10	5.10	0.27	40.00	0.19	40.00	29.79	10.21	3.919		
1,800.00	1,800.00	1,800.00	1,800.00	5.27	5.27	0.27	40.00	0.19	40.00	29.47	10.53	3.797		
1,900.00	1,900.00	1,900.00	1,900.00	5.43	5.43	0.27	40.00	0.19	40.00	29.15	10.85	3.686		
2,000.00	2,000.00	2,000.00	2,000.00	5.58	5.58	0.27	40.00	0.19	40.00	28.84	11.16	3.583		
2,100.00	2,100.00	2,100.00	2,100.00	5.73	5.73	0.27	40.00	0.19	40.00	28.53	11.47	3.488		
2,109.30	2,109.30	2,109.30	2,109.30	5.75	5.74	0.27	40.00	0.19	40.00	28.51	11.49	3.482	CC, ES, SF	
2,193.00	2,193.00	2,190.30	2,190.26	5.86	5.94	1.17	41.64	0.85	41.74	29.96	11.78	3.544		
2,200.00	2,200.00	2,196.92	2,196.86	5.87	5.97	1.39	42.10	1.03	42.26	30.46	11.80	3.581		
2,250.00	2,249.94	2,243.58	2,243.21	6.06	6.40	2.37	46.93	2.99	49.49	37.19	12.30	4.023		
2,300.00	2,299.60	2,288.48	2,287.42	6.51	6.81	2.39	54.22	5.93	62.70	49.75	12.95	4.843		
2,350.00	2,348.75	2,330.77	2,328.53	6.94	7.17	1.75	63.42	9.65	81.54	68.04	13.50	6.040		
2,400.00	2,397.13	2,369.82	2,365.90	7.34	7.49	0.75	73.90	13.88	105.56	91.59	13.97	7.557		
2,450.00	2,444.52	2,405.19	2,399.18	7.72	7.77	-0.41	85.01	18.37	134.24	119.89	14.36	9.351		
2,500.00	2,490.68	2,436.69	2,428.28	8.08	8.00	-1.67	96.17	22.88	167.05	152.38	14.67	11.385		
2,550.00	2,535.40	2,464.27	2,453.30	8.41	8.20	-2.96	106.91	27.22	203.44	188.51	14.93	13.626		
2,600.00	2,578.44	2,488.02	2,474.48	8.72	8.36	-4.27	116.87	31.24	242.87	227.73	15.14	16.046		
2,650.00	2,619.61	2,508.12	2,492.12	9.01	8.50	-5.57	125.80	34.85	284.85	269.55	15.30	18.616		
2,700.00	2,658.70	2,524.79	2,506.54	9.28	8.60	-6.84	133.56	37.99	328.91	313.48	15.43	21.314		
2,750.00	2,695.52	2,538.29	2,518.07	9.53	8.69	-8.08	140.06	40.62	374.64	359.10	15.54	24.114		
2,800.00	2,729.90	2,550.00	2,527.97	9.75	8.77	-9.23	145.87	42.96	421.66	406.01	15.65	26.947		
2,850.00	2,761.65	2,550.00	2,527.97	9.95	8.77	-10.71	145.87	42.96	469.71	454.18	15.53	30.247		
2,880.50	2,779.67	2,560.39	2,536.67	10.03	8.83	-11.10	151.15	45.09	499.24	483.52	15.72	31.756		
2,900.00	2,790.86	2,562.40	2,538.33	10.06	8.84	-11.51	152.18	45.51	518.24	502.50	15.74	32.926		
3,000.00	2,848.22	2,571.92	2,546.21	10.22	8.90	-13.24	157.14	47.51	616.02	600.20	15.82	38.934		
3,080.50	2,894.39	2,578.76	2,551.82	10.37	8.94	-14.30	160.76	48.98	695.04	679.16	15.88	43.761		
3,100.00	2,905.45	2,580.31	2,553.09	10.53	8.95	-14.55	161.59	49.31	714.18	698.28	15.90	44.929		
3,150.00	2,932.56	2,584.05	2,556.14	11.32	8.97	-15.38	163.60	50.12	762.88	746.94	15.94	47.855		
3,200.00	2,957.72	2,587.49	2,558.93	12.28	8.99	-16.44	165.45	50.87	810.86	794.86	16.00	50.667		
3,250.00	2,980.75	2,600.00	2,569.02	13.23	9.06	-17.41	172.32	53.65	858.02	841.78	16.24	52.841		
3,300.00	3,001.47	2,600.00	2,569.02	14.19	9.06	-18.88	172.32	53.65	903.90	887.64	16.26	55.588		
3,350.00	3,019.72	2,600.00	2,569.02	15.15	9.06	-20.44	172.32	53.65	948.54	932.24	16.30	58.206		
3,400.00	3,035.35	2,600.00	2,569.02	16.13	9.06	-22.08	172.32	53.65	991.78	975.43	16.34	60.680		
3,450.00	3,048.27	2,600.00	2,569.02	17.11	9.06	-23.78	172.32	53.65	1,033.49	1,017.08	16.41	62.994		
3,500.00	3,058.35	2,600.00	2,569.02	18.11	9.06	-25.52	172.32	53.65	1,073.55	1,057.07	16.48	65.134		
3,550.00	3,065.53	2,600.00	2,569.02	19.10	9.06	-27.29	172.32	53.65	1,111.85	1,095.27	16.57	67.085		

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.

<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													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		
3,600.00	3,069.76	2,600.00	2,569.02	20.11	9.06	-29.07	172.32	53.65	1,148.28	1,131.59	16.69	68.791		
3,601.94	3,069.86	2,600.00	2,569.02	20.15	9.06	-29.14	172.32	53.65	1,149.66	1,132.96	16.70	68.861		
3,700.00	3,075.01	2,600.00	2,569.02	22.17	9.06	-32.48	172.32	53.65	1,220.12	1,203.16	16.95	71.965		
3,800.00	3,080.28	2,600.00	2,569.02	24.17	9.06	-35.57	172.32	53.65	1,293.82	1,276.73	17.08	75.738		
3,900.00	3,085.58	2,618.08	2,583.36	26.22	9.16	-37.97	182.54	57.78	1,368.74	1,351.24	17.50	78.205		
4,000.00	3,090.89	2,624.33	2,588.25	28.30	9.20	-40.46	186.14	59.23	1,444.92	1,427.18	17.74	81.456		
4,100.00	3,096.20	2,631.68	2,593.96	30.40	9.24	-42.75	190.44	60.97	1,521.91	1,503.92	18.00	84.572		
4,200.00	3,101.52	2,650.00	2,607.98	32.52	9.34	-44.65	201.37	65.38	1,599.56	1,581.13	18.43	86.787		
4,300.00	3,106.83	2,650.00	2,607.98	34.66	9.34	-46.84	201.37	65.38	1,677.47	1,658.89	18.58	90.305		
4,400.00	3,112.13	2,650.00	2,607.98	36.80	9.34	-48.92	201.37	65.38	1,755.71	1,736.99	18.72	93.776		
4,500.00	3,117.42	4,479.76	3,091.85	38.94	37.32	0.05	919.29	1,434.13	1,829.47	1,759.94	69.53	26.313		
4,600.00	3,122.67	4,579.71	3,098.82	41.07	39.38	0.04	919.30	1,533.83	1,832.13	1,758.06	74.08	24.733		
4,627.02	3,124.09	4,606.72	3,100.70	41.64	39.94	0.04	919.31	1,560.78	1,832.25	1,756.96	75.29	24.334		
4,700.00	3,127.91	4,679.69	3,105.79	43.17	41.48	0.04	919.32	1,633.57	1,832.24	1,753.64	78.60	23.310		
4,800.00	3,133.14	4,779.39	3,112.54	45.29	43.61	0.03	919.34	1,733.04	1,832.22	1,749.06	83.16	22.033		
4,806.90	3,133.50	4,786.22	3,112.90	45.44	43.75	0.02	919.34	1,739.86	1,832.22	1,748.75	83.47	21.949		
4,900.00	3,138.37	4,878.74	3,115.80	47.45	45.76	0.01	919.35	1,832.33	1,832.24	1,744.49	87.75	20.881		
4,927.02	3,139.79	4,905.74	3,116.43	48.03	46.35	0.01	919.36	1,859.33	1,832.25	1,743.25	89.00	20.588		
4,998.60	3,142.64	4,977.32	3,118.09	49.60	47.93	0.01	919.37	1,930.88	1,832.26	1,739.94	92.32	19.847		
5,000.00	3,142.68	4,978.71	3,118.12	49.63	47.96	0.01	919.37	1,932.28	1,832.26	1,739.88	92.39	19.833		
5,100.00	3,145.42	5,078.71	3,120.44	51.83	50.18	0.01	919.38	2,032.25	1,832.27	1,735.21	97.05	18.879		
5,200.00	3,148.15	5,178.71	3,122.76	54.07	52.43	0.01	919.40	2,132.22	1,832.27	1,730.52	101.75	18.008		
5,300.00	3,150.89	5,278.71	3,125.08	56.31	54.69	0.01	919.41	2,232.19	1,832.27	1,725.81	106.47	17.210		
5,400.00	3,153.63	5,378.71	3,127.40	58.58	56.97	0.01	919.43	2,332.17	1,832.28	1,721.08	111.20	16.478		
5,500.00	3,156.36	5,478.71	3,129.72	60.86	59.26	0.01	919.44	2,432.14	1,832.28	1,716.34	115.95	15.803		
5,600.00	3,159.10	5,578.71	3,132.05	63.15	61.57	0.01	919.45	2,532.11	1,832.29	1,711.58	120.71	15.179		
5,700.00	3,161.84	5,678.71	3,134.37	65.46	63.89	0.01	919.47	2,632.08	1,832.29	1,706.81	125.48	14.602		
5,800.00	3,164.58	5,778.71	3,136.69	67.78	66.22	0.01	919.48	2,732.06	1,832.29	1,702.03	130.27	14.066		
5,900.00	3,167.31	5,878.71	3,139.01	70.10	68.55	0.01	919.50	2,832.03	1,832.30	1,697.24	135.06	13.566		
6,000.00	3,170.05	5,978.71	3,141.33	72.44	70.90	0.01	919.51	2,932.00	1,832.30	1,692.44	139.86	13.101		
6,100.00	3,172.79	6,078.71	3,143.65	74.78	73.25	0.01	919.53	3,031.97	1,832.31	1,687.63	144.67	12.665		
6,200.00	3,175.52	6,178.70	3,145.97	77.13	75.61	0.01	919.54	3,131.94	1,832.31	1,682.82	149.49	12.257		
6,300.00	3,178.26	6,278.70	3,148.29	79.49	77.98	0.01	919.56	3,231.92	1,832.32	1,678.00	154.31	11.874		
6,400.00	3,181.00	6,378.70	3,150.61	81.85	80.35	0.01	919.57	3,331.89	1,832.32	1,673.18	159.14	11.514		
6,500.00	3,183.73	6,478.70	3,152.93	84.22	82.73	0.01	919.59	3,431.86	1,832.32	1,668.35	163.98	11.174		
6,600.00	3,186.47	6,578.70	3,155.25	86.59	85.11	0.01	919.60	3,531.83	1,832.33	1,663.51	168.82	10.854		
6,700.00	3,189.21	6,678.70	3,157.57	88.97	87.49	0.01	919.61	3,631.80	1,832.33	1,658.68	173.66	10.551		
6,800.00	3,191.94	6,778.70	3,159.90	91.35	89.88	0.01	919.63	3,731.78	1,832.34	1,653.83	178.51	10.265		
6,900.00	3,194.68	6,878.70	3,162.22	93.73	92.28	0.02	919.64	3,831.75	1,832.34	1,648.99	183.36	9.993		
7,000.00	3,197.42	6,978.70	3,164.54	96.12	94.67	0.02	919.66	3,931.72	1,832.35	1,644.14	188.21	9.736		
7,100.00	3,200.16	7,078.70	3,166.86	98.52	97.07	0.02	919.67	4,031.69	1,832.36	1,639.29	193.07	9.491		
7,200.00	3,202.89	7,178.70	3,169.18	100.91	99.48	0.02	919.69	4,131.67	1,832.36	1,634.43	197.93	9.258		
7,300.00	3,205.63	7,278.69	3,171.50	103.31	101.88	0.02	919.70	4,231.64	1,832.37	1,629.58	202.79	9.036		
7,400.00	3,208.37	7,378.69	3,173.82	105.71	104.29	0.02	919.72	4,331.61	1,832.37	1,624.72	207.66	8.824		
7,500.00	3,211.10	7,478.69	3,176.14	108.12	106.70	0.02	919.73	4,431.58	1,832.38	1,619.85	212.52	8.622		
7,600.00	3,213.84	7,578.69	3,178.46	110.52	109.11	0.02	919.75	4,531.55	1,832.38	1,614.99	217.39	8.429		
7,700.00	3,216.58	7,678.69	3,180.78	112.93	111.53	0.02	919.76	4,631.53	1,832.39	1,610.12	222.27	8.244		
7,800.00	3,219.31	7,778.69	3,183.10	115.35	113.94	0.02	919.77	4,731.50	1,832.39	1,605.26	227.14	8.067		
7,900.00	3,222.05	7,878.69	3,185.42	117.76	116.36	0.02	919.79	4,831.47	1,832.40	1,600.39	232.01	7.898		
8,000.00	3,224.79	7,978.69	3,187.75	120.17	118.78	0.02	919.80	4,931.44	1,832.41	1,595.52	236.89	7.735		
8,100.00	3,227.52	8,078.69	3,190.07	122.59	121.20	0.02	919.82	5,031.42	1,832.41	1,590.64	241.77	7.579		
8,200.00	3,230.26	8,178.69	3,192.39	125.01	123.63	0.02	919.83	5,131.39	1,832.42	1,585.77	246.65	7.429		

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

**Stryker Directional**  
Anticollision Report



<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,300.00	3,233.00	8,278.69	3,194.71	127.43	126.05	0.02	919.85	5,231.36	1,832.43	1,580.89	251.53	7.285		
8,400.00	3,235.74	8,378.69	3,197.03	129.85	128.48	0.02	919.86	5,331.33	1,832.43	1,576.02	256.41	7.146		
8,500.00	3,238.47	8,478.68	3,199.35	132.27	130.90	0.02	919.88	5,431.30	1,832.44	1,571.14	261.30	7.013		
8,600.00	3,241.21	8,578.68	3,201.67	134.70	133.33	0.02	919.89	5,531.28	1,832.45	1,566.26	266.18	6.884		
8,700.00	3,243.95	8,678.68	3,203.99	137.12	135.76	0.02	919.91	5,631.25	1,832.45	1,561.38	271.07	6.760		
8,800.00	3,246.68	8,778.68	3,206.31	139.55	138.19	0.02	919.92	5,731.22	1,832.46	1,556.50	275.96	6.640		
8,900.00	3,249.42	8,878.68	3,208.63	141.98	140.62	0.02	919.93	5,831.19	1,832.47	1,551.62	280.84	6.525		
9,000.00	3,252.16	8,978.68	3,210.95	144.40	143.06	0.02	919.95	5,931.17	1,832.47	1,546.74	285.73	6.413		
9,000.34	3,252.17	8,979.02	3,210.96	144.41	143.06	0.02	919.95	5,931.50	1,832.47	1,546.72	285.75	6.413		
9,067.33	3,254.00	9,045.32	3,212.50	146.04	144.68	0.01	919.96	5,997.78	1,832.48	1,543.47	289.01	6.341		
9,068.14	3,254.02	9,045.32	3,212.50	146.06	144.68	-0.03	919.96	5,997.78	1,832.48	1,543.46	289.02	6.340		

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.**

<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Aggie/The Red Raider [PRELIM] - The Red Raider #2H - Wellbore #1 - PRELIM													Offset Well Error:	0.00 usft
Survey Program: 0-MWD														
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	0.27	20.00	0.09	20.00					
100.00	100.00	100.00	100.00	0.95	0.95	0.27	20.00	0.09	20.00	18.10	1.90	10.510		
200.00	200.00	200.00	200.00	1.52	1.52	0.27	20.00	0.09	20.00	16.95	3.05	6.567		
300.00	300.00	300.00	300.00	1.95	1.95	0.27	20.00	0.09	20.00	16.10	3.90	5.125		
400.00	400.00	400.00	400.00	2.30	2.30	0.27	20.00	0.09	20.00	15.39	4.61	4.340		
500.00	500.00	500.00	500.00	2.61	2.61	0.27	20.00	0.09	20.00	14.78	5.23	3.828		
600.00	600.00	600.00	600.00	2.89	2.89	0.27	20.00	0.09	20.00	14.22	5.78	3.460		
700.00	700.00	700.00	700.00	3.15	3.15	0.27	20.00	0.09	20.00	13.71	6.29	3.179		
800.00	800.00	800.00	800.00	3.38	3.38	0.27	20.00	0.09	20.00	13.23	6.77	2.955		
900.00	900.00	900.00	900.00	3.61	3.61	0.27	20.00	0.09	20.00	12.78	7.22	2.771		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	0.27	20.00	0.09	20.00	12.36	7.64	2.617		
1,100.00	1,100.00	1,100.00	1,100.00	4.02	4.02	0.27	20.00	0.09	20.00	11.95	8.05	2.485		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	0.27	20.00	0.09	20.00	11.56	8.44	2.370		
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	0.27	20.00	0.09	20.00	11.18	8.82	2.269		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	0.27	20.00	0.09	20.00	10.82	9.18	2.179		
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	0.27	20.00	0.09	20.00	10.47	9.53	2.098		
1,600.00	1,600.00	1,600.00	1,600.00	4.94	4.94	0.27	20.00	0.09	20.00	10.13	9.87	2.026		
1,700.00	1,700.00	1,700.00	1,700.00	5.10	5.10	0.27	20.00	0.09	20.00	9.79	10.21	1.959		
1,800.00	1,800.00	1,800.00	1,800.00	5.27	5.27	0.27	20.00	0.09	20.00	9.47	10.53	1.899		
1,900.00	1,900.00	1,900.00	1,900.00	5.43	5.43	0.27	20.00	0.09	20.00	9.15	10.85	1.843		
2,000.00	2,000.00	2,000.00	2,000.00	5.58	5.58	0.27	20.00	0.09	20.00	8.84	11.16	1.792		
2,100.00	2,100.00	2,100.00	2,100.00	5.73	5.73	0.27	20.00	0.09	20.00	8.53	11.47	1.744		
2,193.00	2,193.00	2,193.00	2,193.00	5.86	5.87	0.27	20.00	0.09	20.00	8.26	11.74	1.704	CC, ES, SF	
2,200.00	2,200.00	2,200.00	2,200.00	5.87	5.88	0.23	20.00	0.09	20.03	8.28	11.75	1.705		
2,250.00	2,249.94	2,249.94	2,249.94	6.06	5.95	-2.24	20.00	0.09	22.07	10.08	11.99	1.841		
2,300.00	2,299.60	2,299.60	2,299.60	6.51	6.01	-6.74	20.01	0.15	27.43	14.96	12.46	2.200		
2,350.00	2,348.75	2,348.84	2,348.78	6.94	6.21	-7.59	20.29	2.47	36.14	23.23	12.91	2.800		
2,400.00	2,397.13	2,397.33	2,396.93	7.34	6.64	-5.41	20.97	8.02	48.11	34.83	13.28	3.622		
2,450.00	2,444.52	2,444.62	2,443.43	7.72	7.05	-2.48	22.02	16.53	63.43	49.82	13.61	4.661		
2,500.00	2,490.68	2,490.33	2,487.74	8.08	7.42	0.18	23.38	27.64	82.16	68.25	13.91	5.908		
2,550.00	2,535.40	2,534.16	2,529.48	8.41	7.76	2.24	25.01	40.90	104.24	90.05	14.19	7.346		
2,600.00	2,578.44	2,575.87	2,568.36	8.72	8.06	3.68	26.85	55.86	129.53	115.05	14.47	8.951		
2,650.00	2,619.61	2,615.31	2,604.26	9.01	8.34	4.56	28.83	72.04	157.80	143.05	14.75	10.695		
2,700.00	2,658.70	2,652.37	2,637.15	9.28	8.58	4.98	30.92	89.02	188.82	173.78	15.04	12.553		
2,750.00	2,695.52	2,687.04	2,667.06	9.53	8.80	5.04	33.05	106.40	222.34	206.99	15.35	14.487		
2,800.00	2,729.90	2,719.33	2,694.13	9.75	8.99	4.83	35.20	123.87	258.10	242.43	15.66	16.477		
2,850.00	2,761.65	2,750.00	2,719.08	9.95	9.17	4.49	37.37	141.57	295.84	279.84	15.99	18.496		
2,880.50	2,779.67	2,766.42	2,732.12	10.03	9.26	4.06	38.59	151.47	319.73	303.55	16.18	19.758		
2,900.00	2,790.86	2,777.08	2,740.46	10.06	9.32	3.85	39.40	158.06	335.22	318.92	16.30	20.566		
3,000.00	2,848.22	2,830.31	2,780.58	10.22	9.59	3.12	43.66	192.77	415.32	398.39	16.93	24.535		
3,080.50	2,894.39	2,871.26	2,809.61	10.37	9.78	2.80	47.18	221.42	480.55	463.06	17.48	27.484		
3,100.00	2,905.45	2,881.02	2,816.28	10.53	9.82	2.72	48.04	228.49	496.37	478.74	17.63	28.159		
3,150.00	2,932.56	2,906.64	2,833.33	11.32	9.93	2.32	50.37	247.47	536.24	518.16	18.09	29.651		
3,200.00	2,957.72	2,933.18	2,850.26	12.28	10.04	1.73	52.87	267.76	574.94	556.26	18.68	30.775		
3,250.00	2,980.75	2,960.72	2,867.01	13.23	10.13	1.00	55.53	289.45	612.23	592.89	19.35	31.646		
3,300.00	3,001.47	2,991.62	2,884.90	14.19	10.20	0.36	58.60	314.46	647.90	627.76	20.15	32.160		
3,350.00	3,019.72	3,027.19	2,905.31	15.15	10.25	-0.15	62.15	343.38	681.56	660.41	21.14	32.233		
3,400.00	3,035.35	3,063.81	2,926.31	16.13	10.31	-0.78	65.81	373.15	713.02	690.79	22.23	32.077		
3,450.00	3,048.27	3,101.18	2,947.74	17.11	10.47	-1.51	69.54	403.54	742.21	718.83	23.38	31.745		
3,500.00	3,058.35	3,139.04	2,969.46	18.11	11.03	-2.33	73.32	434.31	769.09	744.47	24.63	31.231		
3,550.00	3,065.53	3,177.07	2,991.27	19.10	11.61	-3.23	77.11	465.24	793.65	767.73	25.92	30.614		
3,600.00	3,069.76	3,223.61	3,016.47	20.11	12.36	-3.64	81.49	504.10	815.72	788.16	27.56	29.595		

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.**

<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
The Aggie/The Red Raider [PRELIM] - The Red Raider #2H - Wellbore #1 - PRELIM														
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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,601.94	3,069.86	3,225.52	3,017.44	20.15	12.40	-3.65	81.65	505.74	816.52	788.89	27.63	29.552		
3,700.00	3,075.01	3,332.78	3,062.84	22.17	14.38	-3.18	89.41	602.43	855.09	823.42	31.67	27.002		
3,800.00	3,080.28	3,461.53	3,092.82	24.17	17.08	-1.15	94.26	727.27	888.93	852.26	36.67	24.243		
3,900.00	3,085.58	3,575.38	3,098.55	26.22	19.62	-0.02	94.79	840.92	916.05	874.65	41.41	22.124		
4,000.00	3,090.89	3,672.56	3,100.94	28.30	21.83	-0.02	94.79	938.07	939.41	893.71	45.70	20.558		
4,100.00	3,096.20	3,795.91	3,103.98	30.40	24.69	1.51	93.78	1,061.37	958.70	907.66	51.04	18.783		
4,200.00	3,101.52	3,945.63	3,107.66	32.52	28.29	4.51	85.91	1,210.82	970.03	912.56	57.47	16.878		
4,300.00	3,106.83	4,053.70	3,110.32	34.66	30.84	4.99	76.59	1,318.46	974.51	912.11	62.41	15.616		
4,400.00	3,112.13	4,153.65	3,112.78	36.80	33.21	5.00	67.89	1,418.00	975.44	908.35	67.09	14.539		
4,500.00	3,117.42	4,253.57	3,115.24	38.94	35.59	5.00	59.18	1,517.51	972.89	901.09	71.80	13.549		
4,600.00	3,122.67	4,353.35	3,117.69	41.07	37.98	5.01	50.49	1,616.87	966.86	890.33	76.53	12.634		
4,627.02	3,124.09	4,380.26	3,118.36	41.64	38.63	5.01	48.14	1,643.68	964.64	886.85	77.79	12.400		
4,700.00	3,127.91	4,452.94	3,120.15	43.17	40.37	5.01	41.81	1,716.05	958.29	877.09	81.20	11.802		
4,800.00	3,133.14	4,552.52	3,122.60	45.29	42.77	5.02	33.13	1,815.22	949.59	863.70	85.89	11.055		
4,900.00	3,138.37	4,652.10	3,125.05	47.45	45.18	5.02	24.46	1,914.39	940.91	850.30	90.61	10.384		
4,927.02	3,139.79	4,679.00	3,125.71	48.03	45.83	5.02	22.11	1,941.19	938.56	846.68	91.89	10.214		
4,998.60	3,142.64	4,750.30	3,127.46	49.60	47.56	5.02	15.90	2,012.20	932.34	837.06	95.28	9.786		
5,000.00	3,142.68	4,751.70	3,127.50	49.63	47.59	5.02	15.78	2,013.58	932.21	836.87	95.34	9.778		
5,100.00	3,145.42	4,831.46	3,129.46	51.83	49.53	3.79	9.49	2,093.07	924.37	824.97	99.40	9.299		
5,200.00	3,148.15	4,900.00	3,131.15	54.07	51.21	1.85	5.80	2,161.49	919.14	816.14	103.00	8.924		
5,300.00	3,150.89	4,982.73	3,133.19	56.31	53.26	0.77	3.54	2,244.16	916.47	809.35	107.12	8.555		
5,349.70	3,152.25	5,020.41	3,134.12	57.44	54.18	0.02	3.30	2,281.83	916.15	807.15	109.00	8.405		
5,400.00	3,153.63	5,070.71	3,135.36	58.58	55.41	0.02	3.31	2,332.11	916.15	804.74	111.42	8.223		
5,500.00	3,156.36	5,170.71	3,137.82	60.86	57.84	0.02	3.32	2,432.08	916.16	799.93	116.23	7.883		
5,600.00	3,159.10	5,270.71	3,140.29	63.15	60.27	0.02	3.34	2,532.05	916.17	795.12	121.05	7.569		
5,700.00	3,161.84	5,370.71	3,142.75	65.46	62.71	0.02	3.36	2,632.02	916.17	790.30	125.87	7.279		
5,800.00	3,164.58	5,470.71	3,145.22	67.78	65.14	0.02	3.38	2,731.99	916.18	785.48	130.71	7.010		
5,900.00	3,167.31	5,570.71	3,147.68	70.10	67.58	0.02	3.40	2,831.96	916.19	780.64	135.54	6.759		
6,000.00	3,170.05	5,670.71	3,150.15	72.44	70.02	0.02	3.41	2,931.93	916.19	775.81	140.39	6.526		
6,100.00	3,172.79	5,770.71	3,152.61	74.78	72.47	0.02	3.43	3,031.90	916.20	770.96	145.24	6.308		
6,200.00	3,175.52	5,870.71	3,155.08	77.13	74.91	0.02	3.45	3,131.87	916.21	766.12	150.09	6.104		
6,300.00	3,178.26	5,970.71	3,157.54	79.49	77.35	0.02	3.47	3,231.84	916.21	761.27	154.95	5.913		
6,400.00	3,181.00	6,070.71	3,160.01	81.85	79.80	0.02	3.48	3,331.81	916.22	756.41	159.81	5.733		
6,500.00	3,183.73	6,170.70	3,162.47	84.22	82.24	0.02	3.50	3,431.77	916.23	751.56	164.67	5.564		
6,600.00	3,186.47	6,270.70	3,164.94	86.59	84.69	0.02	3.52	3,531.74	916.24	746.70	169.54	5.404		
6,700.00	3,189.21	6,370.70	3,167.41	88.97	87.14	0.02	3.54	3,631.71	916.24	741.84	174.41	5.253		
6,800.00	3,191.94	6,470.70	3,169.87	91.35	89.59	0.02	3.55	3,731.68	916.25	736.97	179.28	5.111		
6,900.00	3,194.68	6,570.70	3,172.34	93.73	92.03	0.02	3.57	3,831.65	916.26	732.10	184.15	4.976		
7,000.00	3,197.42	6,670.70	3,174.80	96.12	94.48	0.02	3.59	3,931.62	916.27	727.24	189.03	4.847		
7,100.00	3,200.16	6,770.70	3,177.27	98.52	96.93	0.03	3.61	4,031.59	916.27	722.37	193.91	4.725		
7,200.00	3,202.89	6,870.70	3,179.73	100.91	99.38	0.03	3.62	4,131.56	916.28	717.49	198.79	4.609		
7,300.00	3,205.63	6,970.70	3,182.20	103.31	101.83	0.03	3.64	4,231.53	916.29	712.62	203.67	4.499		
7,400.00	3,208.37	7,070.70	3,184.66	105.71	104.28	0.03	3.66	4,331.50	916.30	707.75	208.55	4.394		
7,500.00	3,211.10	7,170.70	3,187.13	108.12	106.74	0.03	3.68	4,431.47	916.30	702.87	213.44	4.293		
7,600.00	3,213.84	7,270.70	3,189.59	110.52	109.19	0.03	3.70	4,531.44	916.31	697.99	218.32	4.197		
7,700.00	3,216.58	7,370.70	3,192.06	112.93	111.64	0.03	3.71	4,631.41	916.32	693.11	223.21	4.105		
7,800.00	3,219.31	7,470.70	3,194.52	115.35	114.09	0.03	3.73	4,731.37	916.33	688.23	228.09	4.017		
7,900.00	3,222.05	7,570.70	3,196.99	117.76	116.54	0.03	3.75	4,831.34	916.34	683.35	232.98	3.933		
8,000.00	3,224.79	7,670.70	3,199.45	120.17	119.00	0.03	3.77	4,931.31	916.35	678.47	237.87	3.852		
8,100.00	3,227.52	7,770.70	3,201.92	122.59	121.45	0.03	3.78	5,031.28	916.35	673.59	242.76	3.775		
8,200.00	3,230.26	7,870.70	3,204.38	125.01	123.90	0.03	3.80	5,131.25	916.36	668.71	247.66	3.700		
8,300.00	3,233.00	7,970.70	3,206.85	127.43	126.36	0.03	3.82	5,231.22	916.37	663.82	252.55	3.629		

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



**Stryker Directional**  
Anticollision Report



<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													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		
8,400.00	3,235.74	8,070.70	3,209.31	129.85	128.81	0.03	3.84	5,331.19	916.38	658.94	257.44	3.560		
8,500.00	3,238.47	8,170.70	3,211.78	132.27	131.26	0.03	3.85	5,431.16	916.39	654.05	262.33	3.493		
8,600.00	3,241.21	8,270.70	3,214.24	134.70	133.72	0.03	3.87	5,531.13	916.40	649.17	267.23	3.429		
8,700.00	3,243.95	8,370.70	3,216.71	137.12	136.17	0.03	3.89	5,631.10	916.41	644.28	272.12	3.368		
8,800.00	3,246.68	8,470.70	3,219.17	139.55	138.62	0.03	3.91	5,731.07	916.41	639.40	277.02	3.308		
8,900.00	3,249.42	8,570.70	3,221.64	141.98	141.08	0.03	3.93	5,831.04	916.42	634.51	281.92	3.251		
9,000.00	3,252.16	8,670.70	3,224.10	144.40	143.53	0.03	3.94	5,931.01	916.43	629.62	286.81	3.195		
9,001.08	3,252.19	8,671.78	3,224.13	144.43	143.56	0.03	3.94	5,932.09	916.43	629.57	286.86	3.195		
9,067.33	3,254.00	8,737.49	3,225.75	146.04	145.17	0.00	3.95	5,997.78	916.44	626.36	290.08	3.159		
9,068.14	3,254.02	8,737.49	3,225.75	146.06	145.17	-0.05	3.95	5,997.78	916.44	626.36	290.08	3.159		

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

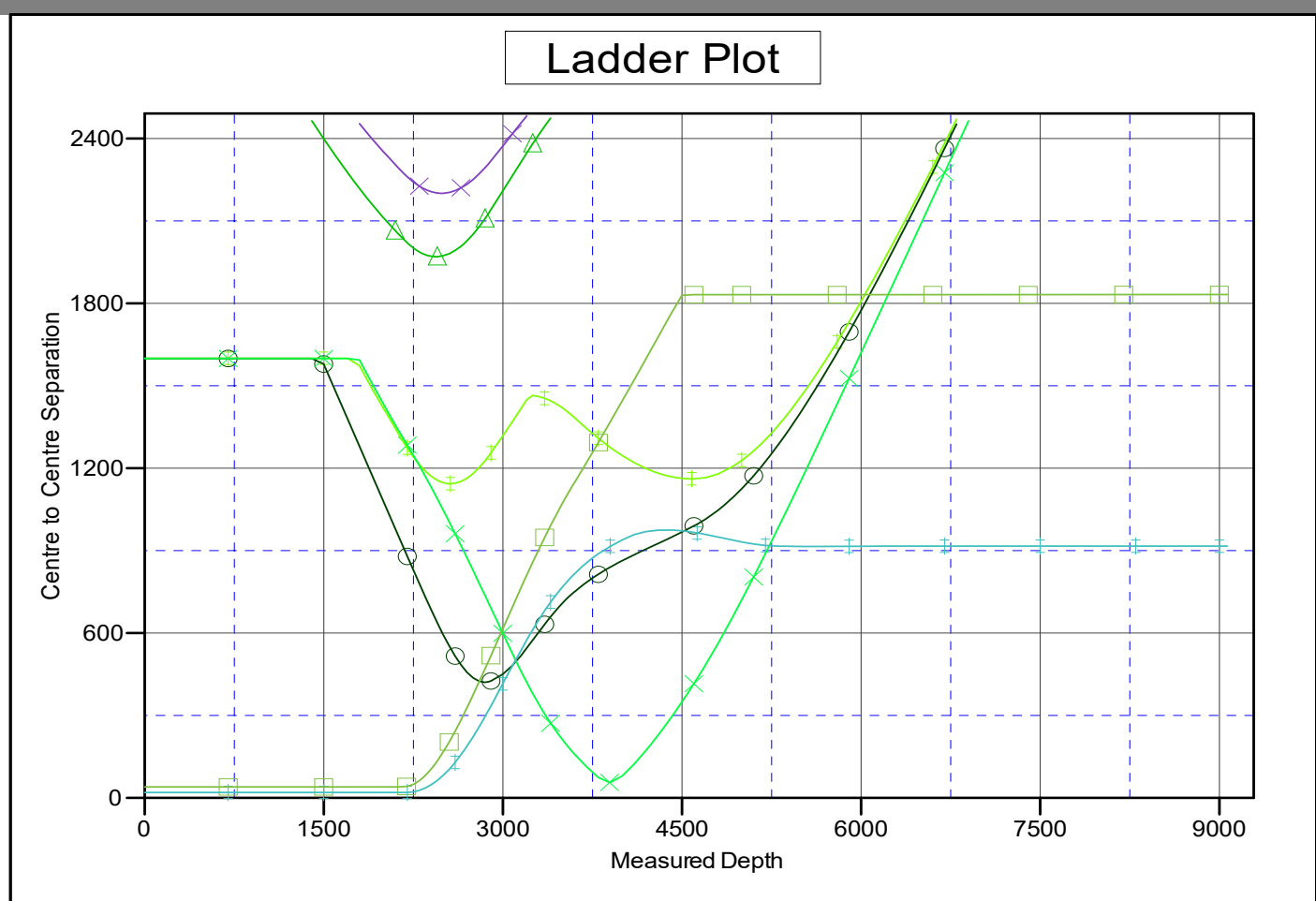
**Stryker Directional**  
Anticollision Report



BURNETT OIL CO., INC.

<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Reference Depths are relative to RKB @ 3305.00usft (18' Rig)      Coordinates are relative to: The Red Raider #3H  
 Offset Depths are relative to Offset Datum      Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
 Central Meridian is -104.333334      Grid Convergence at Surface is: 0.00°



**LEGEND**

- Maverick #1H, Wellbore #1, Design #2 V0
- The Maverick #3H, Wellbore #1, Design #2 V0
- The Red Raider #2H, Wellbore #1, PRELIM V0
- Maverick #2H, Wellbore #1, Design #2 V0
- The Red Raider #1H, Wellbore #1, PRELIM V0
- The Aggie #3H, Wellbore #1, PRELIM V0
- Homed Frog #3H, Wellbore #1, Design #2 V0

**Stryker Directional**  
Anticollision Report

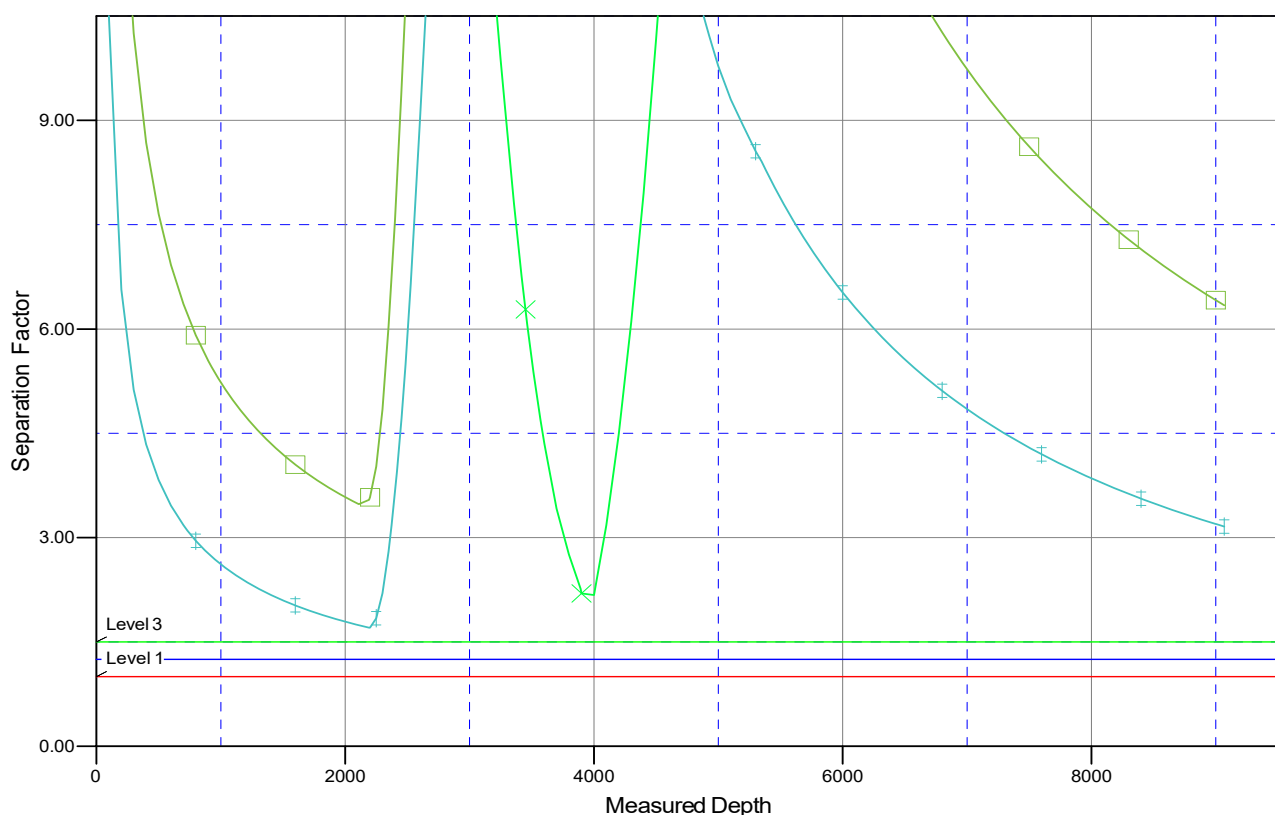


BURNETT OIL CO., INC.

<b>Company:</b>	Burnett Oil Company	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Reference Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM5000
<b>Reference Design:</b>	PRELIM	<b>Offset TVD Reference:</b>	Reference Datum

Reference Depths are relative to RKB @ 3305.00usft (18' Rig)      Coordinates are relative to: The Red Raider #3H  
 Offset Depths are relative to Offset Datum      Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
 Central Meridian is -104.333334      Grid Convergence at Surface is: 0.00°

**Separation Factor Plot**

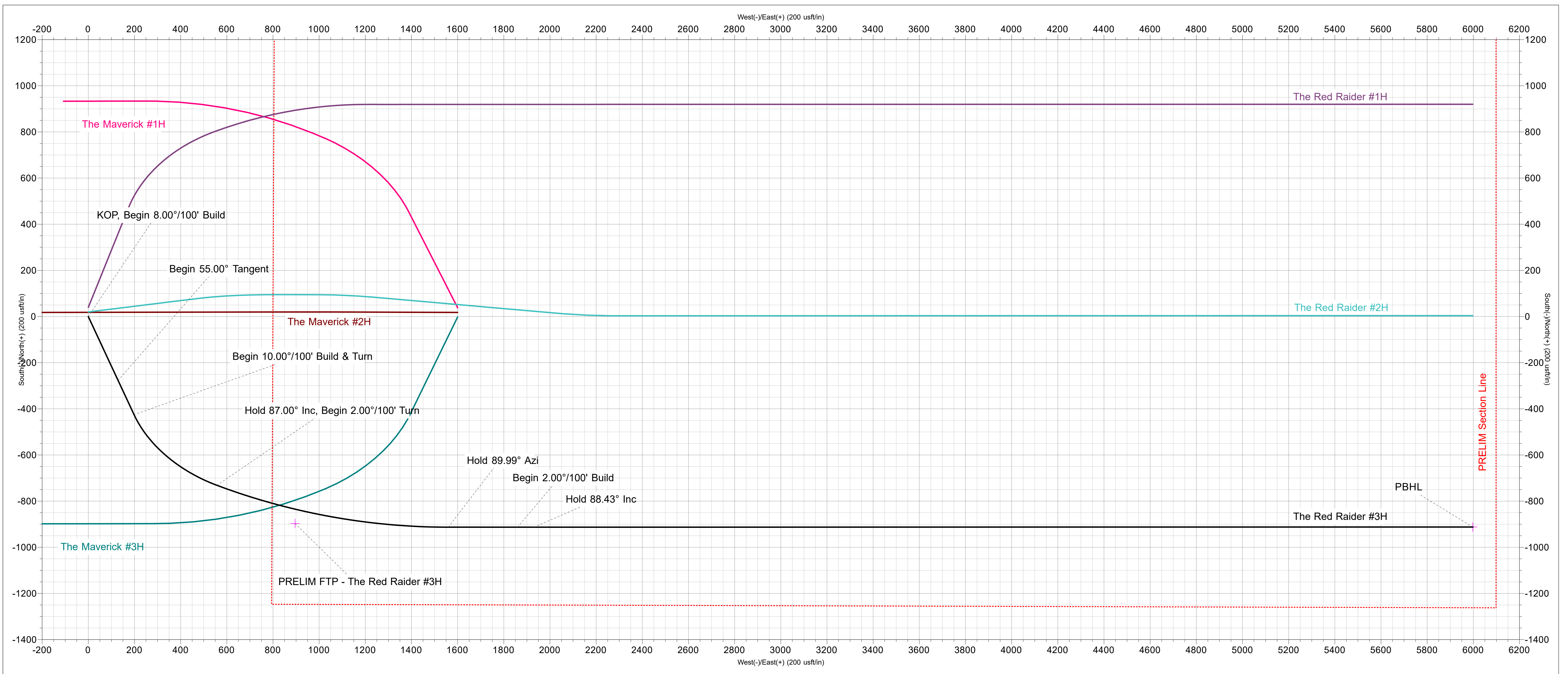


**LEGEND**

- Maverick #1H, Wellbore #1, Design #2 V0
- Maverick #2H, Wellbore #1, Design #2 V0
- Homed Frog #3H, Wellbore #1, Design #2 V0
- The Maverick #3H, Wellbore #1, Design #2 V0
- The Red Raider #1H, Wellbore #1, PRELIM V0
- The Aggie #3H, Wellbore #1, PRELIM V0
- The Red Raider #2H, Wellbore #1, PRELIM V0

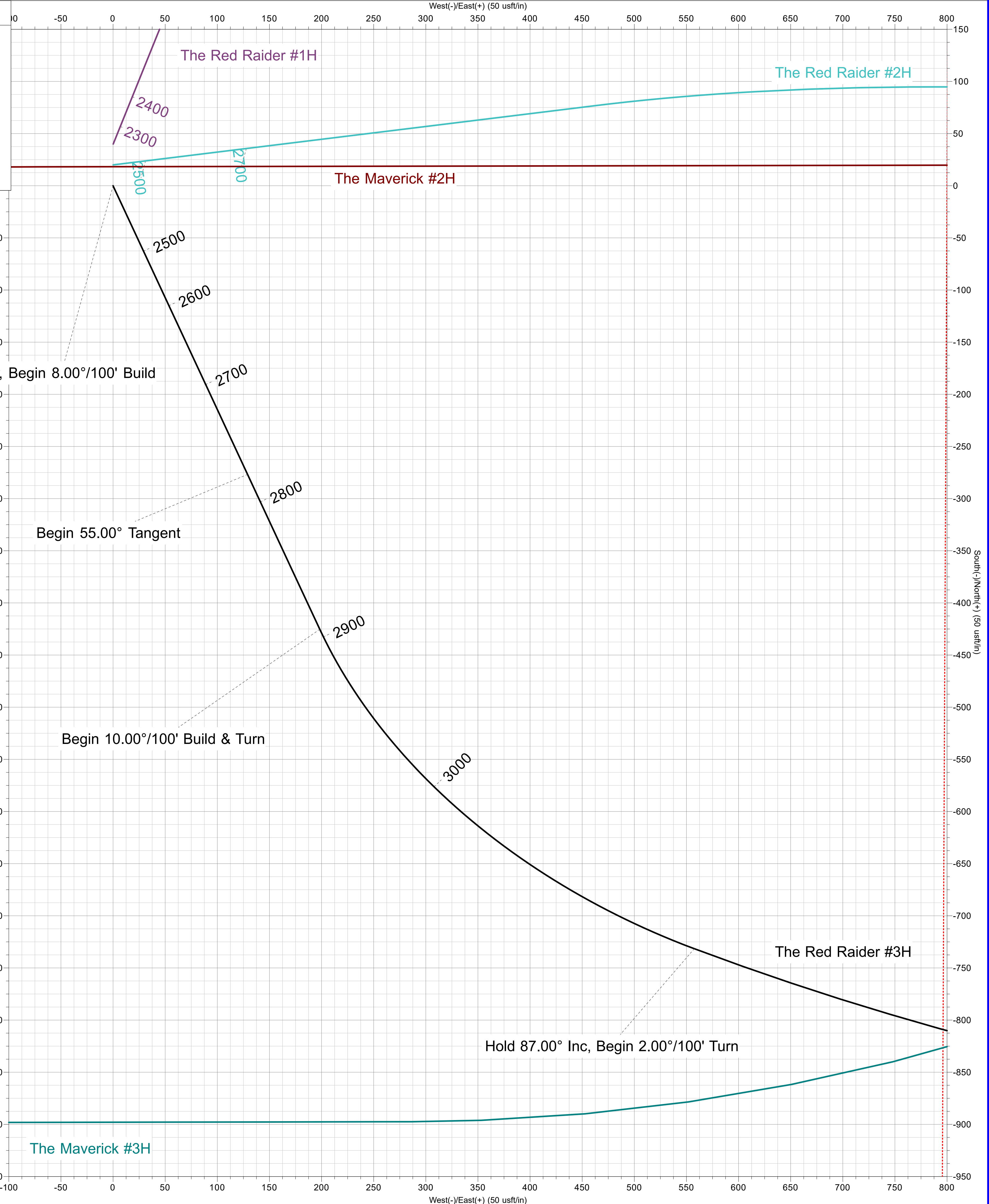


To convert a Magnetic Direction to a Grid Direction, Add 6.64°

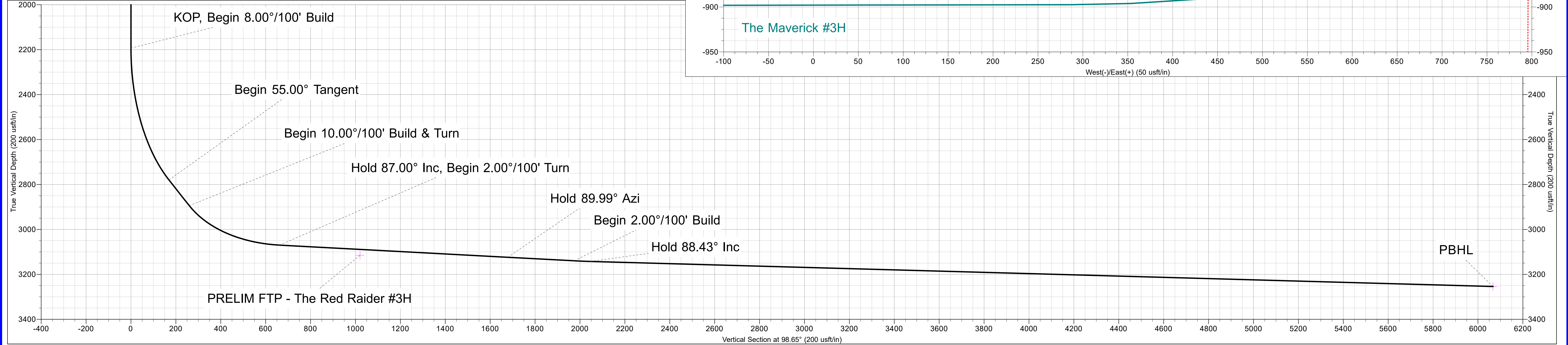
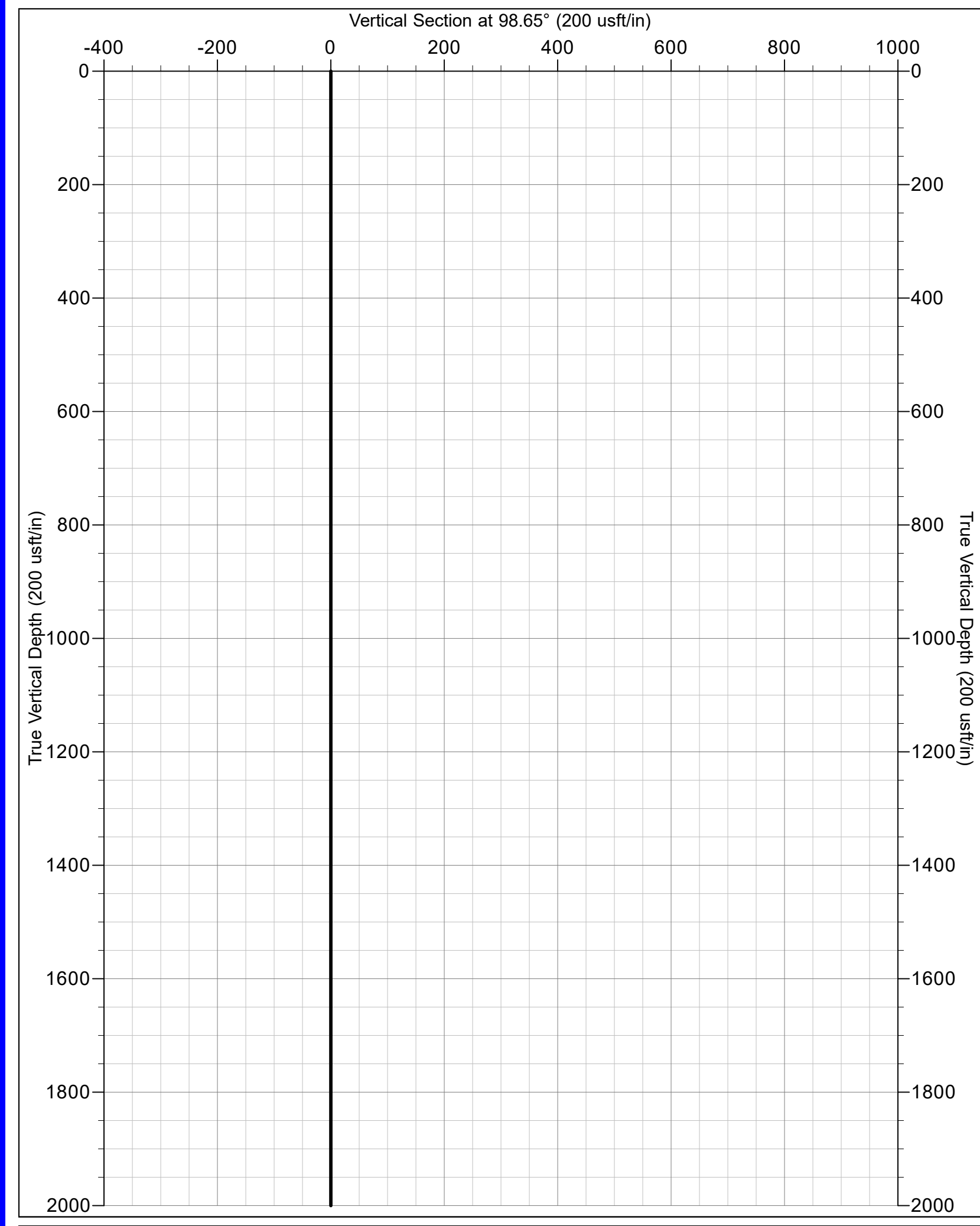


ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
2193.00	0.00	0.00	2193.00	0.00	0.00	0.00	0.00	KOP, Begin 8.00°/100' Build
2880.50	55.00	155.00	2779.67	-276.79	129.07	169.21	305.40	Begin 55.00° Tangent
3080.50	55.00	155.00	2894.39	-425.27	198.31	259.98	469.23	Begin 10.00°/100' Build & Turn
3601.94	87.00	110.52	3069.86	-731.53	557.55	661.18	952.93	Hold 87.00° Inc, Begin 2.00°/100' Turn
4627.02	87.00	89.99	3124.09	-912.80	1559.46	1678.95	1976.57	Hold 89.99° Azi
4927.02	87.00	89.99	3139.79	-912.75	1859.05	1975.13	2276.16	Begin 2.00°/100' Build
4998.60	88.43	89.99	3142.64	-912.73	1930.58	2045.84	2347.68	Hold 88.43° Inc
9067.33	88.43	89.99	3254.00	-912.05	5997.78	6066.73	6414.89	PBHL



Azimuths to Grid North  
 True North: 0.00°  
 Magnetic North: 6.64°  
 Magnetic Field  
 Strength: 47454.3nT  
 Dip Angle: 60.16°  
 Date: 12/18/2023  
 Model: IGRF2020  
 US State Plane 1983  
 New Mexico Eastern Zone  
 Created By: HLH  
 Date: 11:52, December 20 2023  
 Plan: PRELIM



BURNETT OIL CO., INC.

## **Burnett Oil Company**

Eddy County, New Mexico (NAD83)  
The Aggie/The Red Raider [PRELIM]  
The Red Raider #3H

**Wellbore #1**

**Plan: PRELIM**

## **Standard Planning Report**

**20 December, 2023**



**Stryker Directional**  
Planning Report



<b>Database:</b>	EDM5000	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Company:</b>	Burnett Oil Company	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>North Reference:</b>	Grid
<b>Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	PRELIM		

<b>Project</b>	Eddy County, New Mexico (NAD83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

<b>Site</b>	The Aggie/The Red Raider [PRELIM]				
<b>Site Position:</b>	<b>Northing:</b>	631,897.49 usft	<b>Latitude:</b>	32.737124	
<b>From:</b> Map	<b>Easting:</b>	542,578.47 usft	<b>Longitude:</b>	-104.329298	
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.00 °

<b>Well</b>	The Red Raider #3H					
<b>Well Position</b>	<b>+N/-S</b>	-2,770.54 usft	<b>Northing:</b>	629,126.95 usft	<b>Latitude:</b>	32.729509
	<b>+E/-W</b>	-12.95 usft	<b>Easting:</b>	542,565.52 usft	<b>Longitude:</b>	-104.329340
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	3,287.00 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	12/18/2023	6.64	60.16	47,454.27799487

<b>Design</b>	PRELIM			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	98.65

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,193.00	0.00	0.00	2,193.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,880.50	55.00	155.00	2,779.67	-276.79	129.07	8.00	8.00	0.00	155.00	
3,080.50	55.00	155.00	2,894.39	-425.27	198.31	0.00	0.00	0.00	0.00	
3,601.94	87.00	110.52	3,069.86	-731.53	557.55	10.00	6.14	-8.53	-62.40	
4,627.02	87.00	89.99	3,124.09	-912.80	1,559.46	2.00	0.00	-2.00	-90.54	
4,927.02	87.00	89.99	3,139.79	-912.75	1,859.05	0.00	0.00	0.00	0.00	
4,998.60	88.43	89.99	3,142.64	-912.73	1,930.58	2.00	2.00	0.00	0.01	
9,067.33	88.43	89.99	3,254.00	-912.05	5,997.78	0.00	0.00	0.00	0.00	



**Stryker Directional**  
Planning Report



<b>Database:</b>	EDM5000	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Company:</b>	Burnett Oil Company	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>North Reference:</b>	Grid
<b>Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	PRELIM		

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	0.00
100.00	0.00	0.00	100.00	0.00	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	0.00
300.00	0.00	0.00	300.00	0.00	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	0.00
500.00	0.00	0.00	500.00	0.00	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	0.00
700.00	0.00	0.00	700.00	0.00	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	0.00
900.00	0.00	0.00	900.00	0.00	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	0.00
1,100.00	0.00	0.00	1,100.00	0.00	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	0.00
1,300.00	0.00	0.00	1,300.00	0.00	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	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,193.00	0.00	0.00	2,193.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>KOP, Begin 8.00°/100' Build</b>										
2,200.00	0.56	155.00	2,200.00	-0.03	0.01	0.02	8.00	8.00	8.00	0.00
2,250.00	4.56	155.00	2,249.94	-2.05	0.96	1.26	8.00	8.00	8.00	0.00
2,300.00	8.56	155.00	2,299.60	-7.23	3.37	4.42	8.00	8.00	8.00	0.00
2,350.00	12.56	155.00	2,348.75	-15.53	7.24	9.50	8.00	8.00	8.00	0.00
2,400.00	16.56	155.00	2,397.13	-26.92	12.55	16.46	8.00	8.00	8.00	0.00
2,450.00	20.56	155.00	2,444.52	-41.34	19.28	25.27	8.00	8.00	8.00	0.00
2,500.00	24.56	155.00	2,490.68	-58.73	27.38	35.90	8.00	8.00	8.00	0.00
2,550.00	28.56	155.00	2,535.40	-78.98	36.83	48.28	8.00	8.00	8.00	0.00
2,600.00	32.56	155.00	2,578.44	-102.02	47.57	62.37	8.00	8.00	8.00	0.00
2,650.00	36.56	155.00	2,619.61	-127.72	59.56	78.08	8.00	8.00	8.00	0.00
2,700.00	40.56	155.00	2,658.70	-155.96	72.73	95.34	8.00	8.00	8.00	0.00
2,750.00	44.56	155.00	2,695.52	-186.60	87.02	114.08	8.00	8.00	8.00	0.00
2,800.00	48.56	155.00	2,729.90	-219.50	102.36	134.19	8.00	8.00	8.00	0.00
2,850.00	52.56	155.00	2,761.65	-254.49	118.67	155.58	8.00	8.00	8.00	0.00
2,880.50	55.00	155.00	2,779.67	-276.79	129.07	169.21	8.00	8.00	8.00	0.00
<b>Begin 55.00° Tangent</b>										
2,900.00	55.00	155.00	2,790.86	-291.27	135.82	178.06	0.00	0.00	0.00	0.00
3,000.00	55.00	155.00	2,848.22	-365.51	170.44	223.44	0.00	0.00	0.00	0.00
3,080.50	55.00	155.00	2,894.39	-425.27	198.31	259.98	0.00	0.00	0.00	0.00
<b>Begin 10.00°/100' Build &amp; Turn</b>										
3,100.00	55.92	152.91	2,905.45	-439.70	205.36	269.12	10.00	4.72	-10.70	
3,150.00	58.44	147.77	2,932.56	-476.18	226.16	295.17	10.00	5.03	-10.29	
3,200.00	61.15	142.91	2,957.72	-511.69	250.74	324.81	10.00	5.42	-9.73	
3,250.00	64.02	138.30	2,980.75	-545.95	278.92	357.82	10.00	5.75	-9.22	
3,300.00	67.04	133.91	3,001.47	-578.72	310.47	393.94	10.00	6.03	-8.77	
3,350.00	70.17	129.73	3,019.72	-609.73	345.16	432.90	10.00	6.26	-8.38	
3,400.00	73.39	125.70	3,035.35	-638.76	382.73	474.40	10.00	6.45	-8.05	
3,450.00	76.69	121.81	3,048.27	-665.58	422.89	518.13	10.00	6.60	-7.78	
3,500.00	80.04	118.03	3,058.35	-689.99	465.32	563.75	10.00	6.71	-7.57	

### Stryker Directional Planning Report



**BURNETT OIL CO., INC.**

<b>Database:</b>	EDM5000	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Company:</b>	Burnett Oil Company	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>North Reference:</b>	Grid
<b>Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	PRELIM		

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	83.44	114.32	3,065.53	-711.80	509.72	610.92	10.00	6.80	-7.41	
3,601.94	87.00	110.52	3,069.86	-731.53	557.55	661.18	10.00	6.85	-7.31	
<b>Hold 87.00° Inc, Begin 2.00°/100' Turn</b>										
3,700.00	86.98	108.56	3,075.01	-764.28	649.83	757.33	2.00	-0.02	-2.00	
3,800.00	86.97	106.55	3,080.28	-794.40	745.04	855.99	2.00	-0.01	-2.00	
3,900.00	86.96	104.55	3,085.58	-821.17	841.24	955.12	2.00	-0.01	-2.00	
4,000.00	86.95	102.55	3,090.89	-844.56	938.31	1,054.60	2.00	-0.01	-2.00	
4,100.00	86.95	100.54	3,096.20	-864.55	1,036.15	1,154.33	2.00	0.00	-2.00	
4,200.00	86.95	98.54	3,101.52	-881.11	1,134.62	1,254.17	2.00	0.00	-2.00	
4,300.00	86.96	96.54	3,106.83	-894.21	1,233.61	1,354.01	2.00	0.01	-2.00	
4,400.00	86.97	94.54	3,112.13	-903.85	1,333.00	1,453.71	2.00	0.01	-2.00	
4,500.00	86.98	92.53	3,117.42	-910.00	1,432.66	1,553.17	2.00	0.01	-2.00	
4,600.00	87.00	90.53	3,122.67	-912.67	1,532.48	1,652.26	2.00	0.02	-2.00	
4,627.02	87.00	89.99	3,124.09	-912.80	1,559.46	1,678.95	2.00	0.02	-2.00	
<b>Hold 89.99° Azi</b>										
4,700.00	87.00	89.99	3,127.91	-912.78	1,632.34	1,751.00	0.00	0.00	0.00	
4,800.00	87.00	89.99	3,133.14	-912.77	1,732.21	1,849.73	0.00	0.00	0.00	
4,900.00	87.00	89.99	3,138.37	-912.75	1,832.07	1,948.46	0.00	0.00	0.00	
4,927.02	87.00	89.99	3,139.79	-912.75	1,859.05	1,975.13	0.00	0.00	0.00	
<b>Begin 2.00°/100' Build</b>										
4,998.60	88.43	89.99	3,142.64	-912.73	1,930.58	2,045.84	2.00	2.00	0.00	
<b>Hold 88.43° Inc</b>										
5,000.00	88.43	89.99	3,142.68	-912.73	1,931.97	2,047.22	0.00	0.00	0.00	
5,100.00	88.43	89.99	3,145.42	-912.72	2,031.94	2,146.05	0.00	0.00	0.00	
5,200.00	88.43	89.99	3,148.15	-912.70	2,131.90	2,244.87	0.00	0.00	0.00	
5,300.00	88.43	89.99	3,150.89	-912.68	2,231.86	2,343.69	0.00	0.00	0.00	
5,400.00	88.43	89.99	3,153.63	-912.67	2,331.82	2,442.52	0.00	0.00	0.00	
5,500.00	88.43	89.99	3,156.36	-912.65	2,431.79	2,541.34	0.00	0.00	0.00	
5,600.00	88.43	89.99	3,159.10	-912.63	2,531.75	2,640.17	0.00	0.00	0.00	
5,700.00	88.43	89.99	3,161.84	-912.62	2,631.71	2,738.99	0.00	0.00	0.00	
5,800.00	88.43	89.99	3,164.58	-912.60	2,731.67	2,837.82	0.00	0.00	0.00	
5,900.00	88.43	89.99	3,167.31	-912.58	2,831.64	2,936.64	0.00	0.00	0.00	
6,000.00	88.43	89.99	3,170.05	-912.56	2,931.60	3,035.46	0.00	0.00	0.00	
6,100.00	88.43	89.99	3,172.79	-912.55	3,031.56	3,134.29	0.00	0.00	0.00	
6,200.00	88.43	89.99	3,175.52	-912.53	3,131.52	3,233.11	0.00	0.00	0.00	
6,300.00	88.43	89.99	3,178.26	-912.51	3,231.49	3,331.94	0.00	0.00	0.00	
6,400.00	88.43	89.99	3,181.00	-912.50	3,331.45	3,430.76	0.00	0.00	0.00	
6,500.00	88.43	89.99	3,183.73	-912.48	3,431.41	3,529.58	0.00	0.00	0.00	
6,600.00	88.43	89.99	3,186.47	-912.46	3,531.37	3,628.41	0.00	0.00	0.00	
6,700.00	88.43	89.99	3,189.21	-912.45	3,631.34	3,727.23	0.00	0.00	0.00	
6,800.00	88.43	89.99	3,191.94	-912.43	3,731.30	3,826.06	0.00	0.00	0.00	
6,900.00	88.43	89.99	3,194.68	-912.41	3,831.26	3,924.88	0.00	0.00	0.00	
7,000.00	88.43	89.99	3,197.42	-912.40	3,931.22	4,023.71	0.00	0.00	0.00	
7,100.00	88.43	89.99	3,200.16	-912.38	4,031.19	4,122.53	0.00	0.00	0.00	
7,200.00	88.43	89.99	3,202.89	-912.36	4,131.15	4,221.35	0.00	0.00	0.00	
7,300.00	88.43	89.99	3,205.63	-912.35	4,231.11	4,320.18	0.00	0.00	0.00	
7,400.00	88.43	89.99	3,208.37	-912.33	4,331.07	4,419.00	0.00	0.00	0.00	
7,500.00	88.43	89.99	3,211.10	-912.31	4,431.04	4,517.83	0.00	0.00	0.00	
7,600.00	88.43	89.99	3,213.84	-912.30	4,531.00	4,616.65	0.00	0.00	0.00	
7,700.00	88.43	89.99	3,216.58	-912.28	4,630.96	4,715.48	0.00	0.00	0.00	
7,800.00	88.43	89.99	3,219.31	-912.26	4,730.93	4,814.30	0.00	0.00	0.00	
7,900.00	88.43	89.99	3,222.05	-912.25	4,830.89	4,913.12	0.00	0.00	0.00	
8,000.00	88.43	89.99	3,224.79	-912.23	4,930.85	5,011.95	0.00	0.00	0.00	
8,100.00	88.43	89.99	3,227.52	-912.21	5,030.81	5,110.77	0.00	0.00	0.00	



**Stryker Directional**  
Planning Report



**BURNETT OIL CO., INC.**

<b>Database:</b>	EDM5000	<b>Local Co-ordinate Reference:</b>	Well The Red Raider #3H
<b>Company:</b>	Burnett Oil Company	<b>TVD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Project:</b>	Eddy County, New Mexico (NAD83)	<b>MD Reference:</b>	RKB @ 3305.00usft (18' Rig)
<b>Site:</b>	The Aggie/The Red Raider [PRELIM]	<b>North Reference:</b>	Grid
<b>Well:</b>	The Red Raider #3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	PRELIM		

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)
8,200.00	88.43	89.99	3,230.26	-912.20	5,130.78	5,209.60	0.00	0.00	0.00
8,300.00	88.43	89.99	3,233.00	-912.18	5,230.74	5,308.42	0.00	0.00	0.00
8,400.00	88.43	89.99	3,235.74	-912.16	5,330.70	5,407.25	0.00	0.00	0.00
8,500.00	88.43	89.99	3,238.47	-912.14	5,430.66	5,506.07	0.00	0.00	0.00
8,600.00	88.43	89.99	3,241.21	-912.13	5,530.63	5,604.89	0.00	0.00	0.00
8,700.00	88.43	89.99	3,243.95	-912.11	5,630.59	5,703.72	0.00	0.00	0.00
8,800.00	88.43	89.99	3,246.68	-912.09	5,730.55	5,802.54	0.00	0.00	0.00
8,900.00	88.43	89.99	3,249.42	-912.08	5,830.51	5,901.37	0.00	0.00	0.00
9,000.00	88.43	89.99	3,252.16	-912.06	5,930.48	6,000.19	0.00	0.00	0.00
9,067.33	88.43	89.99	3,254.00	-912.05	5,997.78	6,066.73	0.00	0.00	0.00
<b>PBHL</b>									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PRELIM FTP - The R	0.00	0.00	3,115.00	-896.95	895.82	628,230.00	543,461.34	32.727043	-104.326427
- hit/miss target - plan misses target center by 65.73usft at 3972.28usft MD (3089.41 TVD, -838.42 N, 911.32 E) - Point									
PRELIM PBHL - The I	0.00	0.00	3,254.00	-912.05	5,997.78	628,214.90	548,563.30	32.727000	-104.309836
- plan hits target center - Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,193.00	2,193.00	0.00	0.00	KOP, Begin 8.00°/100' Build
2,880.50	2,779.67	-276.79	129.07	Begin 55.00° Tangent
3,080.50	2,894.39	-425.27	198.31	Begin 10.00°/100' Build & Turn
3,601.94	3,069.86	-731.53	557.55	Hold 87.00° Inc, Begin 2.00°/100' Turn
4,627.02	3,124.09	-912.80	1,559.46	Hold 89.99° Azi
4,927.02	3,139.79	-912.75	1,859.05	Begin 2.00°/100' Build
4,998.60	3,142.64	-912.73	1,930.58	Hold 88.43° Inc
9,067.33	3,254.00	-912.05	5,997.78	PBHL



**The Red Raider #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

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

**a. 9 5/8" Surface Casing:**

- Cement to surface
- 20 bbls fresh water spacer at 8.4 lbm/gal.
- Lead: 270 sx Class C Premium Plus Cement, fluid weight 12.2 ppg, slurry yield 2.31 ft<sup>3</sup>/sx, water 13.48 gal/sx.
- Tail: 168 sx Class C Premium Plus Cement, fluid weight 13.2 ppg, slurry yield 1.84 ft<sup>3</sup>/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 ft<sup>3</sup>/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 Company      **OGRID:** 3080      **Date:** 9/6/2024

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

If Other, please describe: \_\_\_\_\_

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

Well Name	API	ULSTR	Footages	Anticipated		
				Anticipated Oil BBL/D	Anticipated Gas MCF/D	Produced Water BBL/D
The Aggie 1H	TBD	A-24-18S-26E	1246 FNL 800 FEL	550 BBL/D	550 MCF/D	2500 BBL/D
The Aggie 2H	TBD	A-24-18S-26E	1266 FNL 800 FEL	550 BBL/D	550 MCF/D	2500 BBL/D
The Aggie 3H	TBD	A-24-18S-26E	1286 FNL 800 FEL	550 BBL/D	550 MCF/D	2500 BBL/D

**IV. Central Delivery Point Name:** The Red Raider Battery [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
The Aggie 1H	TBD	6/1/2025	6/15/2025	9/1/2025	9/15/2025	9/15/2025
The Aggie 2H	TBD	6/15/2025	6/30/2025	9/1/2025	9/15/2025	9/15/2025
The Aggie 3H	TBD	7/01/2025	7/15/2025	9/1/2025	9/15/2025	9/15/2025

**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.



Signature:	<i>Randy Bolles</i>
Printed Name:	Randy Bolles
Title:	President, Randy Bolles Consulting, LLC
E-mail Address:	rbolles@cox.net
Date:	9/6/2024
Phone:	405-738-0183
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	



## NATURAL GAS MANAGEMENT PLAN

### Section 1 – Attachments

Company: \_\_\_\_\_ Well Name: \_\_\_\_\_ API#: \_\_\_\_\_  
 Burnett Oil Co., Inc. FOUR LOCO 1H TBD

**VI. Separation Equipment:** Description of how Operator will size separation equipment to optimize gas capture. A.

This well will be added to an existing tank battery.

B. The engineered system is designed to handle \_\_\_\_\_ MCF/D. It will produce through the following vessels: 11,500

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 \_\_\_\_\_ MCF/D. 0

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

**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.

1 2

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.

Page of

- 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.

2 2

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 Company      **OGRID:** 3080      **Date:** 9/6/2024

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

If Other, please describe: \_\_\_\_\_

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

Well Name	API	ULSTR	Footages	Anticipated		
				Anticipated Oil BBL/D	Anticipated Gas MCF/D	Produced Water BBL/D
The Red Raider 1H	TBD	P-24-18S-26E	1288 FSL 800 FEL	550 BBL/D	550 MCF/D	2500 BBL/D
The Red Raider 2H	TBD	P-24-18S-26E	1266 FSL 800 FEL	550 BBL/D	550 MCF/D	2500 BBL/D
The Red Raider 3H	TBD	P-24-18S-26E	1246 FSL 800 FEL	550 BBL/D	550 MCF/D	2500 BBL/D

**IV. Central Delivery Point Name:**   The Red Raider Battery   [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
The Red Raider 1H	TBD	6/1/2025	6/15/2025	9/1/2025	9/15/2025	9/15/2025
The Red Raider 2H	TBD	6/15/2025	6/30/2025	9/1/2025	9/15/2025	9/15/2025
The Red Raider 3H	TBD	7/01/2025	7/15/2025	9/1/2025	9/15/2025	9/15/2025

**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.

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**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.

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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:

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- (a) power generation on lease;
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- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
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**Section 4 - Notices**

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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.

Signature:	<i>Randy Bolles</i>
Printed Name:	Randy Bolles
Title:	President, Randy Bolles Consulting, LLC
E-mail Address:	rbolles@cox.net
Date:	9/6/2024
Phone:	405-738-0183
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	



## NATURAL GAS MANAGEMENT PLAN

### Section 1 – Attachments

Company: \_\_\_\_\_ Well Name: \_\_\_\_\_ API#: \_\_\_\_\_  
 Burnett Oil Co., Inc. FOUR LOCO 1H TBD

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C. Current battery throughput is \_\_\_\_\_ MCF/D. 0

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

**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.

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1 2

E. Performance Standards

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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.
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Page of

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2 2