

Santa Fe Main Office
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State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-54686
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Burnett Oil Company Inc.		6. State Oil & Gas Lease No. 335058
3. Address of Operator 801 Cherry Street, Unit #9 Fort Worth, TX 76102		7. Lease Name or Unit Agreement Name The Horned Frog
4. Well Location Unit Letter <u>M</u> : <u>1308</u> feet from the <u>South</u> line and <u>828</u> feet from the <u>West</u> line Section <u>19</u> Township <u>18S</u> Range <u>27E</u> NMPM County <u>Eddy</u>		8. Well Number 19H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) GL 3282.4		9. OGRID Number 3080
		10. Pool name or Wildcat Asoka; Glorietta-Yeso

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐	Name Change ☒	OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Burnett is requesting a name change from "The Maverick #3H" to "**The Horned Frog #19H**".

The existing approved APD's for The Horned Frog #1,2 & 3 and The Maverick #1,2 & 3 are being amended for name change and minimal changes to footage calls, directional drilling plans, anti-collision plans. There will be 9 wells per section (instead of 6) with all 9 wells flowing into one central battery.

All required documents are attached, including C-102, Standard Planning Report, Anti-Collision Report, Well Plan diagram, Drilling Plan, NGMP & H2S Plan and Training.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Randy Bolles TITLE Regulatory Consultant DATE 12/11/2024

Type or print name Randy Bolles E-mail address: rbolles@cox.net PHONE: 405-738-0183

For State Use Only

APPROVED

BY: _____ TITLE _____ DATE _____ Conditions
of Approval (if any):

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
			Submittal Type:	☐ Initial Submittal
				☒ Amended Report
		☐ As Drilled		

WELL LOCATION INFORMATION

API Number 30-015-54686	Pool Code 3250	Pool Name Asoka; Clorietta-Yeso
Property Code 335058	Property Name THE HORNE D FROG	Well Number 19H
OGRID No. 3080	Operator Name BURNETT OIL COMPANY INC.	Ground Level Elevation 3282.4'
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
4	19	18-S	27-E		1308 FSL	828 FWL	32.729503°N	104.324137°W	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	24	18-S	26-E		350 FSL	101 FWL	32.726989°N	104.343773°W	EDDY

Dedicated Acres 640	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☐ 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)

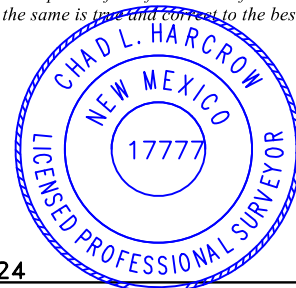
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	24	18-S	26-E		350 FSL	101 FEL	32.726852°N	104.327195°W	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	24	18-S	26-E		350 FSL	101 FWL	32.726989°N	104.343773°W	EDDY

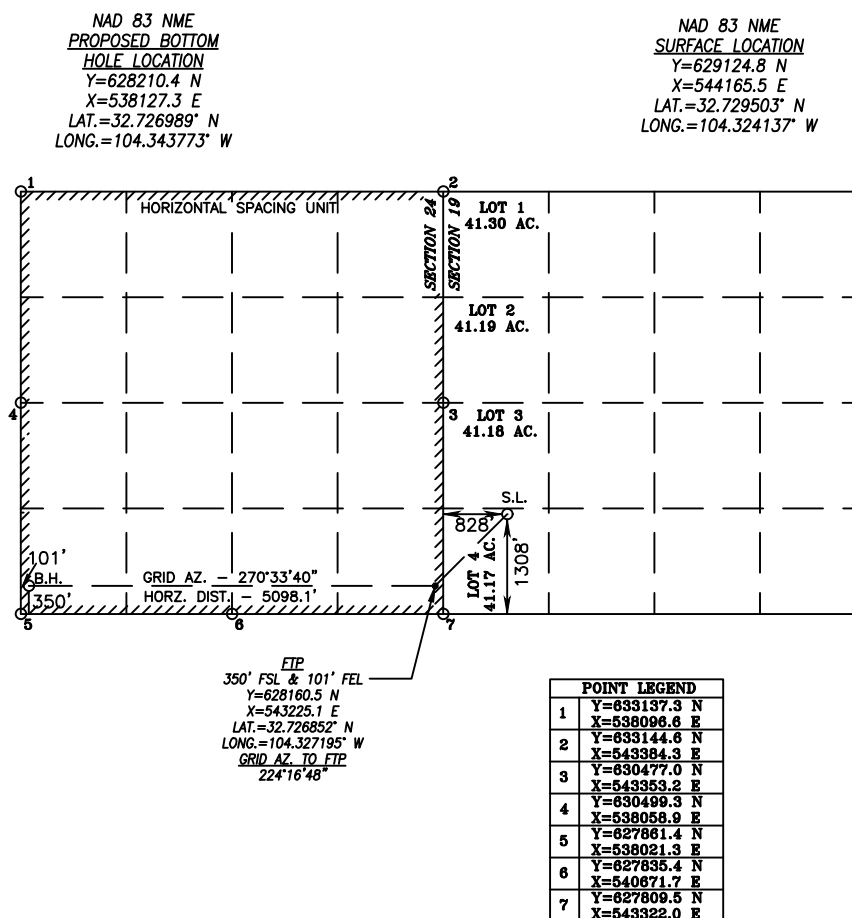
Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3282.4'
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and 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> <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>		SURVEYOR CERTIFICATIONS <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>	
Signature <i>Randy Bolles</i>	Date 12/09/2024	Signature and Seal of Professional Surveyor <i>Chad Harcrow</i> 11/27/24	
Printed Name Randy Bolles		Certificate Number 17777	Date of Survey NOVEMBER 8, 2023
Email Address rbolles@cox.net		W.O.#24-1185	DRAWN BY: WN PAGE 1 OF 2



This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.





**The Horned Frog #19H
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'-9000'	5-1/2"	20#	BTC	L-80	1.125	1.00	1.80

b. Surface Casing Info

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

c. Production casing

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

3. Cementing Program

DRILLING PLAN

Horizontal Yeso

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

a. 9 5/8" Surface Casing:

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

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

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

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

4. Pressure Control Equipment:

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

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

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

DRILLING PLAN

Horizontal Yeso

5. Auxiliary Well Control and Monitoring Equipment:

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

6. Proposed Mud Circulation System (Closed Loop System)

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

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

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

7. Logging, Coring and Testing program:

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

8. Potential Hazards:

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

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

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

9. Anticipated Start Date and Duration of Operation

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

DRILLING PLAN

Horizontal Yeso

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

10. Completion Procedure

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



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**

Burnett's New Mexico Office 817.332.5108 x 102
87 Square Lake Road (CR #220) Loco Hills, New Mexico 88255
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.

Burnett Oil Home Office 817.332.5108
Burnett Plaza – Suite 1500 | 801 Cherry Street – Unit #9| Fort Worth, Texas 76102

Walter Glasgow Office - 817.583.8871
VP Engineering Cell - 817.343.5567

Tyler Deans Office – 575.677.2313
VP Engineering- New Mexico Cell – 432-553-4699

Bryan Burnes Office – 817.332.5108
HSE & Security Coordinator Cell – 575-706-5999

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)

Horned Frog/Aggie Project

The Horned Frog #19H

Wellbore #1

Plan: Design #1

Standard Planning Report

06 December, 2024



Stryker Directional
Planning Report



Database:	EDM 5000.1 Server	Local Co-ordinate Reference:	Well The Horned Frog #19H
Company:	Burnett Oil Company	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site:	Horned Frog/Aggie Project	North Reference:	Grid
Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Site		Horned Frog/Aggie Project			
Site Position:		Northing:	631,901.37 usft	Latitude:	32.737135
From:	Map	Easting:	544,178.50 usft	Longitude:	-104.324094
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.00 °

Well	The Horned Frog #19H					
Well Position	+N/-S	-2,776.47 usft	Northing:	629,124.89 usft	Latitude:	32.729503
	+E/-W	-13.05 usft	Easting:	544,165.46 usft	Longitude:	-104.324137
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	3,282.40 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/18/2024	6.53	60.14	47,359.65638668

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	261.39

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,230.33	0.00	0.00	2,230.33	0.00	0.00	0.00	0.00	0.00	0.00	
2,917.83	55.00	200.00	2,817.00	-286.99	-104.45	8.00	8.00	0.00	200.00	
3,117.83	55.00	200.00	2,931.72	-440.94	-160.49	0.00	0.00	0.00	0.00	
3,684.51	91.47	246.45	3,101.00	-802.15	-530.17	10.00	6.44	8.20	60.13	
4,488.04	91.47	270.56	3,080.09	-961.02	-1,311.51	3.00	0.00	3.00	89.69	
9,216.44	91.47	270.56	2,959.00	-914.51	-6,038.14	0.00	0.00	0.00	0.00	PBHL - Horned Fro

BURNETT OIL CO., INC.

Stryker Directional Planning Report



Database:	EDM 5000.1 Server	Local Co-ordinate Reference:	Well The Horned Frog #19H
Company:	Burnett Oil Company	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site:	Horned Frog/Aggie Project	North Reference:	Grid
Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,230.33	0.00	0.00	2,230.33	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 8.00°/100' Build									
2,250.00	1.57	200.00	2,250.00	-0.25	-0.09	0.13	8.00	8.00	0.00
2,300.00	5.57	200.00	2,299.89	-3.18	-1.16	1.62	8.00	8.00	0.00
2,350.00	9.57	200.00	2,349.44	-9.37	-3.41	4.78	8.00	8.00	0.00
2,400.00	13.57	200.00	2,398.42	-18.80	-6.84	9.58	8.00	8.00	0.00
2,450.00	17.57	200.00	2,446.57	-31.41	-11.43	16.01	8.00	8.00	0.00
2,500.00	21.57	200.00	2,493.67	-47.15	-17.16	24.03	8.00	8.00	0.00
2,550.00	25.57	200.00	2,539.49	-65.93	-24.00	33.60	8.00	8.00	0.00
2,600.00	29.57	200.00	2,583.80	-87.68	-31.91	44.68	8.00	8.00	0.00
2,650.00	33.57	200.00	2,626.39	-112.27	-40.86	57.22	8.00	8.00	0.00
2,700.00	37.57	200.00	2,667.05	-139.60	-50.81	71.14	8.00	8.00	0.00
2,750.00	41.57	200.00	2,705.59	-169.53	-61.70	86.39	8.00	8.00	0.00
2,800.00	45.57	200.00	2,741.80	-201.91	-73.49	102.89	8.00	8.00	0.00
2,850.00	49.57	200.00	2,775.53	-236.58	-86.11	120.56	8.00	8.00	0.00
2,900.00	53.57	200.00	2,806.60	-273.38	-99.50	139.32	8.00	8.00	0.00
2,917.83	55.00	200.00	2,817.00	-286.99	-104.45	146.25	8.00	8.00	0.00
Begin 55.00° Tangent									
3,000.00	55.00	200.00	2,864.14	-350.24	-127.48	178.49	0.00	0.00	0.00
3,100.00	55.00	200.00	2,921.49	-427.21	-155.49	217.71	0.00	0.00	0.00
3,117.83	55.00	200.00	2,931.72	-440.94	-160.49	224.71	0.00	0.00	0.00
Begin 10.00°/100' Build & Turn									
3,150.00	56.65	203.34	2,949.79	-465.66	-170.32	238.13	10.00	5.12	10.38
3,200.00	59.38	208.28	2,976.29	-503.80	-188.80	262.11	10.00	5.46	9.88
3,250.00	62.28	212.94	3,000.67	-541.35	-211.04	289.73	10.00	5.81	9.32
3,300.00	65.34	217.36	3,022.74	-578.00	-236.88	320.76	10.00	6.11	8.83
3,350.00	68.51	221.55	3,042.35	-613.49	-266.11	354.98	10.00	6.35	8.40
3,400.00	71.79	225.57	3,059.33	-647.54	-298.52	392.12	10.00	6.55	8.03
3,450.00	75.14	229.44	3,073.56	-679.90	-333.86	431.91	10.00	6.71	7.73
3,500.00	78.56	233.18	3,084.93	-710.32	-371.86	474.03	10.00	6.84	7.49

BURNETT OIL CO., INC.

Stryker Directional Planning Report



Database:	EDM 5000.1 Server	Local Co-ordinate Reference:	Well The Horned Frog #19H
Company:	Burnett Oil Company	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site:	Horned Frog/Aggie Project	North Reference:	Grid
Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,550.00	82.03	236.84	3,093.36	-738.56	-412.23	518.18	10.00	6.93	7.31
3,600.00	85.53	240.44	3,098.78	-764.41	-454.66	564.00	10.00	6.99	7.19
3,650.00	89.04	244.00	3,101.15	-787.69	-498.83	611.16	10.00	7.03	7.12
3,684.51	91.47	246.45	3,101.00	-802.15	-530.17	644.31	10.00	7.04	7.10
Begin 91.47° Lateral, 3.00°/100' Turn									
3,700.00	91.47	246.91	3,100.60	-808.27	-544.38	659.28	3.00	0.02	3.00
3,800.00	91.49	249.92	3,098.02	-845.05	-637.33	756.69	3.00	0.01	3.00
3,900.00	91.50	252.92	3,095.42	-876.90	-732.07	855.13	3.00	0.01	3.00
4,000.00	91.50	255.92	3,092.80	-903.75	-828.35	954.35	3.00	0.01	3.00
4,100.00	91.50	258.92	3,090.18	-925.52	-925.91	1,054.06	3.00	0.00	3.00
4,200.00	91.50	261.92	3,087.56	-942.16	-1,024.47	1,154.00	3.00	0.00	3.00
4,300.00	91.49	264.92	3,084.95	-953.61	-1,123.76	1,253.89	3.00	-0.01	3.00
4,400.00	91.48	267.92	3,082.36	-959.85	-1,223.52	1,353.46	3.00	-0.01	3.00
4,488.04	91.47	270.56	3,080.09	-961.02	-1,311.51	1,440.64	3.00	-0.01	3.00
Hold 270.56° Azi									
4,500.00	91.47	270.56	3,079.79	-960.90	-1,323.47	1,452.44	0.00	0.00	0.00
4,600.00	91.47	270.56	3,077.23	-959.91	-1,423.44	1,551.13	0.00	0.00	0.00
4,700.00	91.47	270.56	3,074.67	-958.93	-1,523.40	1,649.82	0.00	0.00	0.00
4,800.00	91.47	270.56	3,072.10	-957.95	-1,623.36	1,748.51	0.00	0.00	0.00
4,900.00	91.47	270.56	3,069.54	-956.96	-1,723.32	1,847.19	0.00	0.00	0.00
5,000.00	91.47	270.56	3,066.98	-955.98	-1,823.29	1,945.88	0.00	0.00	0.00
5,100.00	91.47	270.56	3,064.42	-955.00	-1,923.25	2,044.57	0.00	0.00	0.00
5,200.00	91.47	270.56	3,061.86	-954.01	-2,023.21	2,143.26	0.00	0.00	0.00
5,300.00	91.47	270.56	3,059.30	-953.03	-2,123.17	2,241.95	0.00	0.00	0.00
5,400.00	91.47	270.56	3,056.74	-952.05	-2,223.13	2,340.63	0.00	0.00	0.00
5,500.00	91.47	270.56	3,054.18	-951.06	-2,323.10	2,439.32	0.00	0.00	0.00
5,600.00	91.47	270.56	3,051.62	-950.08	-2,423.06	2,538.01	0.00	0.00	0.00
5,700.00	91.47	270.56	3,049.06	-949.10	-2,523.02	2,636.70	0.00	0.00	0.00
5,800.00	91.47	270.56	3,046.49	-948.11	-2,622.98	2,735.39	0.00	0.00	0.00
5,900.00	91.47	270.56	3,043.93	-947.13	-2,722.95	2,834.07	0.00	0.00	0.00
6,000.00	91.47	270.56	3,041.37	-946.14	-2,822.91	2,932.76	0.00	0.00	0.00
6,100.00	91.47	270.56	3,038.81	-945.16	-2,922.87	3,031.45	0.00	0.00	0.00
6,200.00	91.47	270.56	3,036.25	-944.18	-3,022.83	3,130.14	0.00	0.00	0.00
6,300.00	91.47	270.56	3,033.69	-943.19	-3,122.80	3,228.83	0.00	0.00	0.00
6,400.00	91.47	270.56	3,031.13	-942.21	-3,222.76	3,327.51	0.00	0.00	0.00
6,500.00	91.47	270.56	3,028.57	-941.23	-3,322.72	3,426.20	0.00	0.00	0.00
6,600.00	91.47	270.56	3,026.01	-940.24	-3,422.68	3,524.89	0.00	0.00	0.00
6,700.00	91.47	270.56	3,023.45	-939.26	-3,522.65	3,623.58	0.00	0.00	0.00
6,800.00	91.47	270.56	3,020.88	-938.28	-3,622.61	3,722.26	0.00	0.00	0.00
6,900.00	91.47	270.56	3,018.32	-937.29	-3,722.57	3,820.95	0.00	0.00	0.00
7,000.00	91.47	270.56	3,015.76	-936.31	-3,822.53	3,919.64	0.00	0.00	0.00
7,100.00	91.47	270.56	3,013.20	-935.33	-3,922.49	4,018.33	0.00	0.00	0.00
7,200.00	91.47	270.56	3,010.64	-934.34	-4,022.46	4,117.02	0.00	0.00	0.00
7,300.00	91.47	270.56	3,008.08	-933.36	-4,122.42	4,215.70	0.00	0.00	0.00
7,400.00	91.47	270.56	3,005.52	-932.37	-4,222.38	4,314.39	0.00	0.00	0.00
7,500.00	91.47	270.56	3,002.96	-931.39	-4,322.34	4,413.08	0.00	0.00	0.00
7,600.00	91.47	270.56	3,000.40	-930.41	-4,422.31	4,511.77	0.00	0.00	0.00
7,700.00	91.47	270.56	2,997.84	-929.42	-4,522.27	4,610.46	0.00	0.00	0.00
7,800.00	91.47	270.56	2,995.27	-928.44	-4,622.23	4,709.14	0.00	0.00	0.00
7,900.00	91.47	270.56	2,992.71	-927.46	-4,722.19	4,807.83	0.00	0.00	0.00
8,000.00	91.47	270.56	2,990.15	-926.47	-4,822.16	4,906.52	0.00	0.00	0.00
8,100.00	91.47	270.56	2,987.59	-925.49	-4,922.12	5,005.21	0.00	0.00	0.00
8,200.00	91.47	270.56	2,985.03	-924.51	-5,022.08	5,103.90	0.00	0.00	0.00
8,300.00	91.47	270.56	2,982.47	-923.52	-5,122.04	5,202.58	0.00	0.00	0.00

Stryker Directional
Planning Report



Database:	EDM 5000.1 Server	Local Co-ordinate Reference:	Well The Horned Frog #19H
Company:	Burnett Oil Company	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site:	Horned Frog/Aggie Project	North Reference:	Grid
Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,400.00	91.47	270.56	2,979.91	-922.54	-5,222.01	5,301.27	0.00	0.00	0.00
8,500.00	91.47	270.56	2,977.35	-921.56	-5,321.97	5,399.96	0.00	0.00	0.00
8,600.00	91.47	270.56	2,974.79	-920.57	-5,421.93	5,498.65	0.00	0.00	0.00
8,700.00	91.47	270.56	2,972.23	-919.59	-5,521.89	5,597.34	0.00	0.00	0.00
8,800.00	91.47	270.56	2,969.67	-918.60	-5,621.86	5,696.02	0.00	0.00	0.00
8,900.00	91.47	270.56	2,967.10	-917.62	-5,721.82	5,794.71	0.00	0.00	0.00
9,000.00	91.47	270.56	2,964.54	-916.64	-5,821.78	5,893.40	0.00	0.00	0.00
9,100.00	91.47	270.56	2,961.98	-915.65	-5,921.74	5,992.09	0.00	0.00	0.00
9,200.00	91.47	270.56	2,959.42	-914.67	-6,021.70	6,090.78	0.00	0.00	0.00
9,216.44	91.47	270.56	2,959.00	-914.51	-6,038.14	6,107.00	0.00	0.00	0.00
PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL - Horned Frog #	0.00	0.00	2,959.00	-914.51	-6,038.14	628,210.39	538,127.32	32.726989	-104.343773
- plan hits target center									
- Point									
FTP - Horned Frog #1	0.00	0.00	3,101.00	-964.35	-940.30	628,160.55	543,225.15	32.726853	-104.327195
- plan misses target center by 37.24usft at 4120.37usft MD (3089.65 TVD, -929.33 N, -945.91 E)									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,230.33	2,230.33	0.00	0.00	KOP, Begin 8.00°/100' Build
2,917.83	2,817.00	-286.99	-104.45	Begin 55.00° Tangent
3,117.83	2,931.72	-440.94	-160.49	Begin 10.00°/100' Build & Turn
3,684.51	3,101.00	-802.15	-530.17	Begin 91.47° Lateral, 3.00°/100' Turn
4,488.04	3,080.09	-961.02	-1,311.51	Hold 270.56° Azi
9,216.44	2,959.00	-914.51	-6,038.14	PBHL

BURNETT OIL CO., INC.

Burnett Oil Company

Eddy County, New Mexico (NAD83)

Horned Frog/Aggie Project

The Horned Frog #19H

Wellbore #1

Design #1

Anticollision Report

06 December, 2024



BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	12/6/2024
From (usft)	To (usft)	Survey (Wellbore)
0.00	9,216.44	Design #1 (Wellbore #1)
		Tool Name
		MWD
		Description
		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
Offset Well - Wellbore - Design						
Horned Frog/Aggie Project						
The Aggie #11H - Wellbore #1 - Design #1						Out of range
The Aggie #13H - Wellbore #1 - Design #1						Out of range
The Aggie #15H - Wellbore #1 - Design #1	2,529.97	4,421.15	1,633.62	1,591.49	38.780	CC, ES
The Aggie #15H - Wellbore #1 - Design #1	2,700.00	4,402.54	1,661.80	1,617.50	37.515	SF
The Aggie #17H - Wellbore #1 - Design #1	2,833.19	4,397.31	596.29	560.70	16.753	CC, ES
The Aggie #17H - Wellbore #1 - Design #1	3,000.00	4,350.50	630.99	590.13	15.442	SF
The Aggie #19H - Wellbore #1 - Design #1	3,906.40	4,103.25	137.91	113.60	5.673	CC, ES
The Aggie #19H - Wellbore #1 - Design #1	4,000.00	4,025.29	146.93	117.68	5.024	SF
The Aggie #32H - Wellbore #1 - Design #1						Out of range
The Aggie #34H - Wellbore #1 - Design #1	2,200.00	2,203.10	1,988.47	1,976.70	168.895	CC, ES
The Aggie #34H - Wellbore #1 - Design #1	5,300.00	2,775.53	2,480.95	2,430.92	49.589	SF
The Aggie #36H - Wellbore #1 - Design #1	2,758.36	4,676.17	1,289.33	1,253.31	35.794	CC, ES
The Aggie #36H - Wellbore #1 - Design #1	2,900.00	4,641.46	1,309.91	1,271.68	34.267	SF
The Aggie #38H - Wellbore #1 - Design #1	3,387.81	4,571.19	559.85	529.22	18.279	CC
The Aggie #38H - Wellbore #1 - Design #1	3,400.00	4,563.00	559.97	528.96	18.058	ES
The Aggie #38H - Wellbore #1 - Design #1	3,600.00	4,406.47	589.21	553.93	16.700	SF
The Horned Frog #11H - Wellbore #1 - Design #1						Out of range
The Horned Frog #13H - Wellbore #1 - Design #1						Out of range
The Horned Frog #15H - Wellbore #1 - Design #1	2,200.00	2,201.40	1,383.99	1,372.22	117.583	CC, ES
The Horned Frog #15H - Wellbore #1 - Design #1	9,216.44	8,704.40	2,288.23	1,998.45	7.896	SF
The Horned Frog #17H - Wellbore #1 - Design #1	2,200.00	2,200.00	40.02	28.25	3.401	CC
The Horned Frog #17H - Wellbore #1 - Design #1	2,204.45	2,204.45	40.03	28.24	3.397	ES, SF
The Horned Frog #32H - Wellbore #1 - Design #1						Out of range
The Horned Frog #34H - Wellbore #1 - Design #1	2,200.00	2,201.50	1,403.99	1,392.22	119.275	CC, ES
The Horned Frog #34H - Wellbore #1 - Design #1	2,700.00	2,650.00	1,544.16	1,528.85	100.839	SF
The Horned Frog #36H - Wellbore #1 - Design #1	2,715.50	3,650.00	1,344.35	1,324.24	66.860	CC, ES
The Horned Frog #36H - Wellbore #1 - Design #1	9,216.44	9,325.92	1,783.70	1,503.47	6.365	SF
The Horned Frog #38H - Wellbore #1 - Design #1	2,200.00	2,200.00	20.01	8.24	1.700	CC, ES, SF
Horned Frog/Maverick Offsets						
McCall #1 - Wellbore #1 - Surveys	9,021.88	2,969.45	1,279.39	1,068.26	6.060	CC, ES
McCall #1 - Wellbore #1 - Surveys	9,100.00	2,967.37	1,281.77	1,069.99	6.053	SF
McCall #2 - Wellbore #1 - Surveys	8,730.90	1,125.00	2,244.28	2,128.76	19.427	CC, ES
McCall #2 - Wellbore #1 - Surveys	9,100.00	1,125.00	2,274.43	2,155.69	19.155	SF
McCall #2 (2) - Wellbore #1 - Surveys	9,009.30	2,962.35	30.44	-179.71	0.145	Level 1, CC, ES, SF
Terry Evans #1 - Wellbore #1 - Surveys						Out of range

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

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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	2.90	2.90	0.00	0.03	-45.64	1,380.57	-1,411.83	1,974.65					
100.00	100.00	102.90	102.90	0.95	0.97	-45.64	1,380.57	-1,411.83	1,974.65	1,972.73	1.92	1,028.746		
200.00	200.00	202.90	202.90	1.52	1.54	-45.64	1,380.57	-1,411.83	1,974.65	1,971.59	3.06	645.748		
300.00	300.00	302.90	302.90	1.95	1.96	-45.64	1,380.57	-1,411.83	1,974.65	1,970.74	3.91	504.650		
400.00	400.00	402.90	402.90	2.30	2.31	-45.64	1,380.57	-1,411.83	1,974.65	1,970.03	4.62	427.635		
500.00	500.00	502.90	502.90	2.61	2.62	-45.64	1,380.57	-1,411.83	1,974.65	1,969.42	5.23	377.331		
600.00	600.00	602.90	602.90	2.89	2.90	-45.64	1,380.57	-1,411.83	1,974.65	1,968.86	5.79	341.151		
700.00	700.00	702.90	702.90	3.15	3.15	-45.64	1,380.57	-1,411.83	1,974.65	1,968.35	6.30	313.502		
800.00	800.00	802.90	802.90	3.38	3.39	-45.64	1,380.57	-1,411.83	1,974.65	1,967.88	6.77	291.475		
900.00	900.00	902.90	902.90	3.61	3.61	-45.64	1,380.57	-1,411.83	1,974.65	1,967.43	7.22	273.381		
1,000.00	1,000.00	1,002.90	1,002.90	3.82	3.83	-45.64	1,380.57	-1,411.83	1,974.65	1,967.00	7.65	258.169		
1,100.00	1,100.00	1,102.90	1,102.90	4.02	4.03	-45.64	1,380.57	-1,411.83	1,974.65	1,966.59	8.06	245.143		
1,200.00	1,200.00	1,202.90	1,202.90	4.22	4.23	-45.64	1,380.57	-1,411.83	1,974.65	1,966.20	8.45	233.820		
1,300.00	1,300.00	1,302.90	1,302.90	4.41	4.41	-45.64	1,380.57	-1,411.83	1,974.65	1,965.83	8.82	223.858		
1,400.00	1,400.00	1,402.90	1,402.90	4.59	4.59	-45.64	1,380.57	-1,411.83	1,974.65	1,965.47	9.18	215.002		
1,500.00	1,500.00	1,502.90	1,502.90	4.77	4.77	-45.64	1,380.57	-1,411.83	1,974.65	1,965.11	9.54	207.059		
1,600.00	1,600.00	1,602.90	1,602.90	4.94	4.94	-45.64	1,380.57	-1,411.83	1,974.65	1,964.77	9.88	199.882		
1,700.00	1,700.00	1,702.90	1,702.90	5.10	5.11	-45.64	1,380.57	-1,411.83	1,974.65	1,964.44	10.21	193.353		
1,800.00	1,800.00	1,802.90	1,802.90	5.27	5.27	-45.64	1,380.57	-1,411.83	1,974.65	1,964.11	10.54	187.380		
1,900.00	1,900.00	4,436.38	3,175.86	5.43	38.10	8.19	1,422.89	204.91	1,920.17	1,886.11	34.06	56.378		
2,000.00	2,000.00	4,435.99	3,175.86	5.58	38.09	8.18	1,422.95	204.53	1,855.38	1,820.31	35.07	52.907		
2,100.00	2,100.00	4,435.61	3,175.86	5.73	38.08	8.16	1,423.00	204.15	1,793.84	1,757.73	36.11	49.680		
2,200.00	2,200.00	4,435.22	3,175.86	5.88	38.07	8.15	1,423.05	203.77	1,735.88	1,698.71	37.17	46.706		
2,300.00	2,299.89	4,434.14	3,175.87	6.15	38.05	8.13	1,423.21	202.69	1,684.76	1,646.44	38.31	43.973		
2,400.00	2,398.42	4,430.30	3,175.88	7.02	37.95	8.12	1,423.74	198.90	1,650.21	1,610.18	40.02	41.230		
2,500.00	2,493.67	4,423.66	3,175.91	7.79	37.80	8.10	1,424.66	192.32	1,634.50	1,592.83	41.67	39.224		
2,529.97	2,521.30	4,421.15	3,175.92	7.99	37.74	8.10	1,425.01	189.83	1,633.62	1,591.49	42.13	38.780 CC, ES		
2,600.00	2,583.80	4,414.35	3,175.94	8.47	37.58	8.08	1,425.96	183.10	1,638.45	1,595.33	43.13	37.992		
2,700.00	2,667.05	4,402.54	3,175.99	9.06	37.30	8.07	1,427.60	171.41	1,661.80	1,617.50	44.30	37.515 SF		
2,800.00	2,741.80	4,388.47	3,176.04	9.56	36.96	8.06	1,429.56	157.47	1,703.26	1,658.11	45.14	37.730		
2,900.00	2,806.60	4,372.41	3,176.10	9.97	36.58	8.05	1,431.80	141.57	1,760.72	1,715.06	45.67	38.557		
3,000.00	2,864.14	4,355.18	3,176.17	10.15	36.18	8.04	1,434.19	124.51	1,828.46	1,782.74	45.71	39.998		
3,100.00	2,921.49	4,337.93	3,176.24	10.32	35.77	8.03	1,436.59	107.43	1,899.03	1,853.37	45.67	41.586		
3,200.00	2,976.29	4,307.41	3,176.35	11.08	35.06	7.79	1,440.82	77.20	1,972.61	1,927.28	45.33	43.520		
3,300.00	3,022.74	4,175.82	3,176.86	12.82	31.85	5.15	1,455.60	-53.55	2,047.44	2,004.61	42.84	47.798		
3,400.00	3,059.33	3,964.40	3,177.67	14.56	26.74	0.92	1,466.74	-264.62	2,117.70	2,078.97	38.73	54.677		
3,500.00	3,084.93	3,857.51	3,178.08	16.32	24.24	0.01	1,467.10	-371.51	2,179.29	2,142.06	37.22	58.544		
3,600.00	3,098.78	3,774.65	3,178.40	18.12	22.32	0.01	1,467.10	-454.37	2,232.83	2,196.37	36.47	61.231		
3,700.00	3,100.60	3,684.93	3,178.75	19.88	20.27	0.01	1,467.10	-544.09	2,276.62	2,240.86	35.76	63.659		
3,800.00	3,098.02	3,323.98	3,107.17	21.65	12.73	-6.34	1,452.68	-892.44	2,311.86	2,281.05	30.81	75.044		
3,900.00	3,095.42	3,183.27	3,029.47	23.62	10.54	-6.81	1,437.24	-1,008.62	2,331.62	2,300.99	30.63	76.133		
4,000.00	3,092.80	3,100.61	2,982.05	25.63	10.28	-6.06	1,427.81	-1,075.67	2,347.40	2,316.03	31.36	74.846		
4,100.00	3,090.18	3,026.36	2,938.86	27.66	10.11	-5.11	1,419.41	-1,135.47	2,359.32	2,326.94	32.38	72.860		
4,200.00	3,087.56	2,966.86	2,900.64	29.70	9.87	-3.79	1,413.07	-1,180.60	2,368.02	2,334.35	33.67	70.340		
4,300.00	3,084.95	2,914.84	2,864.21	31.75	9.63	-2.27	1,407.90	-1,217.36	2,373.93	2,338.83	35.10	67.635		
4,400.00	3,082.36	2,869.52	2,830.35	33.81	9.40	-0.57	1,403.71	-1,247.18	2,377.38	2,340.76	36.63	64.905		
4,500.00	3,079.79	2,830.11	2,799.41	35.82	9.19	1.26	1,400.31	-1,271.35	2,378.71	2,340.57	38.15	62.358		
4,600.00	3,077.23	2,800.00	2,774.89	37.77	9.02	3.27	1,397.88	-1,288.65	2,381.29	2,341.72	39.57	60.178		
4,700.00	3,074.67	2,765.25	2,745.71	39.78	8.81	5.24	1,395.25	-1,307.34	2,387.26	2,346.26	41.00	58.233		
4,800.00	3,072.10	2,750.00	2,732.63	41.83	8.72	7.47	1,394.16	-1,315.09	2,396.81	2,354.37	42.44	56.479		
4,900.00	3,069.54	2,714.51	2,701.55	43.92	8.49	9.46	1,391.78	-1,332.05	2,409.83	2,366.02	43.80	55.018		

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

Stryker Directional
Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Horned Frog/Aggie Project - The Aggie #15H - Wellbore #1 - Design #1													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		
5,000.00	3,066.98	2,700.00	2,688.61	46.05	8.39	11.67	1,390.87	-1,338.54	2,426.53	2,381.37	45.16	53.734		
5,100.00	3,064.42	2,674.12	2,665.20	48.21	8.21	13.75	1,389.33	-1,349.47	2,446.79	2,400.36	46.43	52.693		
5,200.00	3,061.86	2,650.00	2,643.04	50.40	8.04	15.84	1,388.01	-1,358.90	2,470.67	2,423.03	47.64	51.860		
5,300.00	3,059.30	2,650.00	2,643.04	52.61	8.04	18.08	1,388.01	-1,358.90	2,498.05	2,449.21	48.84	51.143		

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	2.00	0.00	0.02	-90.76	-21.57	-1,628.34	1,628.48				
100.00	100.00	102.00	102.00	0.95	0.96	-90.76	-21.57	-1,628.34	1,628.48	1,626.57	1.91	850.680	
200.00	200.00	202.00	202.00	1.52	1.53	-90.76	-21.57	-1,628.34	1,628.48	1,625.43	3.05	533.218	
300.00	300.00	302.00	302.00	1.95	1.96	-90.76	-21.57	-1,628.34	1,628.48	1,624.57	3.91	416.521	
400.00	400.00	402.00	402.00	2.30	2.31	-90.76	-21.57	-1,628.34	1,628.48	1,623.87	4.61	352.880	
500.00	500.00	502.00	502.00	2.61	2.62	-90.76	-21.57	-1,628.34	1,628.48	1,623.25	5.23	311.332	
600.00	600.00	602.00	602.00	2.89	2.90	-90.76	-21.57	-1,628.34	1,628.48	1,622.70	5.79	281.457	
700.00	700.00	702.00	702.00	3.15	3.15	-90.76	-21.57	-1,628.34	1,628.48	1,622.19	6.30	258.632	
800.00	800.00	802.00	802.00	3.38	3.39	-90.76	-21.57	-1,628.34	1,628.48	1,621.71	6.77	240.449	
900.00	900.00	902.00	902.00	3.61	3.61	-90.76	-21.57	-1,628.34	1,628.48	1,621.26	7.22	225.516	
1,000.00	1,000.00	1,002.00	1,002.00	3.82	3.83	-90.76	-21.57	-1,628.34	1,628.48	1,620.84	7.65	212.962	
1,100.00	1,100.00	1,102.00	1,102.00	4.02	4.03	-90.76	-21.57	-1,628.34	1,628.48	1,620.43	8.05	202.212	
1,200.00	1,200.00	1,202.00	1,202.00	4.22	4.22	-90.76	-21.57	-1,628.34	1,628.48	1,620.04	8.44	192.869	
1,300.00	1,300.00	1,302.00	1,302.00	4.41	4.41	-90.76	-21.57	-1,628.34	1,628.48	1,619.67	8.82	184.649	
1,400.00	1,400.00	1,402.00	1,402.00	4.59	4.59	-90.76	-21.57	-1,628.34	1,628.48	1,619.30	9.18	177.342	
1,500.00	1,500.00	1,502.00	1,502.00	4.77	4.77	-90.76	-21.57	-1,628.34	1,628.48	1,618.95	9.54	170.788	
1,600.00	1,600.00	4,481.07	3,198.00	4.94	38.36	-0.51	187.56	-1.66	1,606.99	1,588.37	18.62	86.290	
1,700.00	1,700.00	4,481.07	3,198.00	5.10	38.36	-0.51	187.56	-1.66	1,507.72	1,488.95	18.77	80.341	
1,800.00	1,800.00	4,481.07	3,198.00	5.27	38.36	-0.51	187.56	-1.66	1,408.55	1,389.62	18.93	74.414	
1,900.00	1,900.00	4,481.07	3,198.00	5.43	38.36	-0.51	187.56	-1.66	1,309.51	1,290.39	19.11	68.512	
2,000.00	2,000.00	4,481.07	3,198.00	5.58	38.36	-0.51	187.56	-1.66	1,210.62	1,191.29	19.33	62.634	
2,100.00	2,100.00	4,481.07	3,198.00	5.73	38.36	-0.51	187.56	-1.66	1,111.94	1,092.36	19.58	56.782	
2,200.00	2,200.00	4,481.07	3,198.00	5.88	38.36	-0.51	187.56	-1.66	1,013.51	993.62	19.89	50.957	
2,300.00	2,299.89	4,479.88	3,198.00	6.15	38.33	-0.51	187.55	-2.84	916.19	895.88	20.31	45.110	
2,400.00	2,398.42	4,474.06	3,198.00	7.02	38.19	-0.51	187.50	-8.66	823.84	802.62	21.21	38.836	
2,500.00	2,493.67	4,463.49	3,198.00	7.79	37.94	-0.51	187.41	-19.23	740.47	717.55	22.92	32.310	
2,600.00	2,583.80	4,448.38	3,198.00	8.47	37.58	-0.51	187.27	-34.34	671.11	645.38	25.73	26.082	
2,700.00	2,667.05	4,429.02	3,198.00	9.06	37.12	-0.51	187.10	-53.70	621.72	592.06	29.66	20.962	
2,800.00	2,741.80	4,405.80	3,198.00	9.56	36.57	-0.51	186.90	-76.92	597.90	563.75	34.15	17.509	
2,833.19	2,764.48	4,397.31	3,198.00	9.70	36.37	-0.51	186.82	-85.41	596.29	560.70	35.59	16.753 CC, ES	
2,900.00	2,806.60	4,379.15	3,198.00	9.97	35.94	-0.51	186.66	-103.57	602.74	564.51	38.23	15.767	
3,000.00	2,864.14	4,350.50	3,198.00	10.15	35.26	-0.51	186.41	-132.22	630.99	590.13	40.86	15.442 SF	
3,100.00	2,921.49	4,321.80	3,198.00	10.32	34.58	-0.51	186.16	-160.91	672.02	629.47	42.54	15.796	
3,200.00	2,976.29	4,287.82	3,198.00	11.08	33.78	-0.51	185.86	-194.89	723.84	680.46	43.38	16.685	
3,300.00	3,022.74	4,239.09	3,198.00	12.82	32.63	-0.51	185.42	-243.63	782.87	739.38	43.49	18.002	
3,400.00	3,059.33	4,176.83	3,198.00	14.56	31.17	-0.51	184.87	-305.88	843.60	800.55	43.05	19.597	
3,500.00	3,084.93	4,102.94	3,198.00	16.32	29.45	-0.51	184.22	-379.77	901.44	859.09	42.35	21.285	
3,600.00	3,098.78	4,019.66	3,198.00	18.12	27.52	-0.51	183.48	-463.04	952.91	911.29	41.62	22.898	
3,700.00	3,100.60	3,929.56	3,198.00	19.88	25.46	-0.51	182.69	-553.14	995.58	954.68	40.90	24.341	
3,800.00	3,098.02	3,784.13	3,198.00	21.65	22.01	-3.42	178.94	-698.50	1,030.48	990.87	39.61	26.015	
3,900.00	3,095.42	3,577.73	3,195.21	23.62	17.27	-9.42	155.90	-903.44	1,051.47	1,013.45	38.03	27.650	
4,000.00	3,092.80	3,394.04	3,148.94	25.63	13.53	-13.63	123.51	-1,077.40	1,058.40	1,021.28	37.13	28.508	
4,100.00	3,090.18	3,258.16	3,080.74	27.66	11.28	-14.56	95.56	-1,191.21	1,055.05	1,017.94	37.12	28.425	
4,200.00	3,087.56	3,175.15	3,033.12	29.70	10.42	-12.84	77.96	-1,256.89	1,047.79	1,009.96	37.82	27.702	
4,300.00	3,084.95	3,092.66	2,985.81	31.75	10.30	-11.07	60.47	-1,322.17	1,038.25	999.74	38.51	26.959	
4,400.00	3,082.36	3,024.45	2,945.04	33.81	10.10	-8.56	46.33	-1,374.96	1,027.01	987.60	39.41	26.061	
4,500.00	3,079.79	2,967.22	2,907.05	35.82	9.86	-5.32	35.26	-1,416.28	1,015.61	975.34	40.28	25.216	
4,600.00	3,077.23	2,917.52	2,871.36	37.77	9.63	-1.52	26.30	-1,449.69	1,008.23	967.24	40.98	24.600	
4,658.20	3,075.74	2,891.55	2,851.79	38.93	9.50	0.90	21.89	-1,466.17	1,007.03	965.67	41.35	24.351	
4,700.00	3,074.67	2,874.12	2,838.31	39.78	9.41	2.73	19.03	-1,476.84	1,007.66	966.08	41.59	24.230	
4,800.00	3,072.10	2,836.16	2,808.05	41.83	9.20	7.30	13.10	-1,498.97	1,014.49	972.47	42.02	24.145	
4,900.00	3,069.54	2,800.00	2,778.13	43.92	8.99	11.98	7.84	-1,518.59	1,029.01	986.79	42.22	24.371	

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

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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		
5,000.00	3,066.98	2,773.53	2,755.61	46.05	8.83	16.88	4.25	-1,532.00	1,051.23	1,008.99	42.24	24.885		
5,100.00	3,064.42	2,750.00	2,735.16	48.21	8.68	21.67	1.23	-1,543.25	1,080.98	1,038.93	42.05	25.708		
5,200.00	3,061.86	2,724.53	2,712.61	50.40	8.51	26.20	-1.83	-1,554.69	1,117.83	1,076.18	41.65	26.841		
5,300.00	3,059.30	2,700.00	2,690.51	52.61	8.35	30.48	-4.58	-1,564.96	1,161.31	1,120.23	41.08	28.267		
5,400.00	3,056.74	2,685.48	2,677.25	54.85	8.25	34.60	-6.12	-1,570.70	1,210.78	1,170.32	40.46	29.924		
5,500.00	3,054.18	2,668.84	2,661.93	57.10	8.13	38.34	-7.79	-1,576.94	1,265.67	1,225.93	39.74	31.847		
5,600.00	3,051.62	2,650.00	2,644.39	59.36	7.99	41.75	-9.58	-1,583.61	1,325.40	1,286.44	38.96	34.023		
5,700.00	3,049.06	2,650.00	2,644.39	61.65	7.99	45.00	-9.58	-1,583.61	1,389.45	1,351.17	38.28	36.300		
5,800.00	3,046.49	2,627.69	2,623.40	63.94	7.83	47.78	-11.54	-1,590.92	1,457.06	1,419.63	37.43	38.925		
5,900.00	3,043.93	2,600.00	2,597.05	66.25	7.62	50.29	-13.73	-1,599.10	1,528.32	1,491.76	36.55	41.810		
6,000.00	3,041.37	2,600.00	2,597.05	68.57	7.62	52.70	-13.73	-1,599.10	1,601.97	1,566.06	35.91	44.613		
6,100.00	3,038.81	2,600.00	2,597.05	70.90	7.62	54.87	-13.73	-1,599.10	1,678.35	1,643.06	35.29	47.562		
6,200.00	3,036.25	2,600.00	2,597.05	73.24	7.62	56.83	-13.73	-1,599.10	1,757.10	1,722.40	34.70	50.640		
6,300.00	3,033.69	2,579.10	2,576.95	75.59	7.45	58.56	-15.21	-1,604.63	1,837.51	1,803.53	33.98	54.075		
6,400.00	3,031.13	2,571.46	2,569.56	77.94	7.39	60.18	-15.71	-1,606.50	1,919.78	1,886.38	33.40	57.477		
6,500.00	3,028.57	2,550.00	2,548.70	80.30	7.22	61.63	-17.02	-1,611.37	2,003.77	1,971.02	32.75	61.184		
6,600.00	3,026.01	2,550.00	2,548.70	82.66	7.22	62.99	-17.02	-1,611.37	2,088.76	2,056.47	32.30	64.674		
6,700.00	3,023.45	2,550.00	2,548.70	85.04	7.22	64.24	-17.02	-1,611.37	2,175.04	2,143.16	31.87	68.238		
6,800.00	3,020.88	2,550.00	2,548.70	87.41	7.22	65.39	-17.02	-1,611.37	2,262.44	2,230.96	31.48	71.866		
6,900.00	3,018.32	2,550.00	2,548.70	89.79	7.22	66.45	-17.02	-1,611.37	2,350.85	2,319.74	31.12	75.552		
7,000.00	3,015.76	2,550.00	2,548.70	92.18	7.22	67.42	-17.02	-1,611.37	2,440.16	2,409.38	30.78	79.287		

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

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COMPASS 5000.17 Build 03

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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	2.00	2.00	0.00	0.02	-92.17	-61.59	-1,628.83	1,630.00				
100.00	100.00	102.00	102.00	0.95	0.96	-92.17	-61.59	-1,628.83	1,630.00	1,628.08	1.91	851.470	
200.00	200.00	202.00	202.00	1.52	1.53	-92.17	-61.59	-1,628.83	1,630.00	1,626.94	3.05	533.712	
300.00	300.00	302.00	302.00	1.95	1.96	-92.17	-61.59	-1,628.83	1,630.00	1,626.09	3.91	416.907	
400.00	400.00	402.00	402.00	2.30	2.31	-92.17	-61.59	-1,628.83	1,630.00	1,625.38	4.61	353.208	
500.00	500.00	502.00	502.00	2.61	2.62	-92.17	-61.59	-1,628.83	1,630.00	1,624.76	5.23	311.621	
600.00	600.00	602.00	602.00	2.89	2.90	-92.17	-61.59	-1,628.83	1,630.00	1,624.21	5.79	281.718	
700.00	700.00	702.00	702.00	3.15	3.15	-92.17	-61.59	-1,628.83	1,630.00	1,623.70	6.30	258.872	
800.00	800.00	802.00	802.00	3.38	3.39	-92.17	-61.59	-1,628.83	1,630.00	1,623.22	6.77	240.672	
900.00	900.00	902.00	902.00	3.61	3.61	-92.17	-61.59	-1,628.83	1,630.00	1,622.77	7.22	225.725	
1,000.00	1,000.00	1,002.00	1,002.00	3.82	3.83	-92.17	-61.59	-1,628.83	1,630.00	1,622.35	7.65	213.159	
1,100.00	1,100.00	1,102.00	1,102.00	4.02	4.03	-92.17	-61.59	-1,628.83	1,630.00	1,621.94	8.05	202.400	
1,200.00	1,200.00	1,202.00	1,202.00	4.22	4.22	-92.17	-61.59	-1,628.83	1,630.00	1,621.55	8.44	193.048	
1,300.00	1,300.00	1,302.00	1,302.00	4.41	4.41	-92.17	-61.59	-1,628.83	1,630.00	1,621.18	8.82	184.820	
1,400.00	1,400.00	1,402.00	1,402.00	4.59	4.59	-92.17	-61.59	-1,628.83	1,630.00	1,620.81	9.18	177.506	
1,500.00	1,500.00	1,502.00	1,502.00	4.77	4.77	-92.17	-61.59	-1,628.83	1,630.00	1,620.46	9.54	170.947	
1,600.00	1,600.00	1,602.00	1,602.00	4.94	4.94	-92.17	-61.59	-1,628.83	1,630.00	1,620.12	9.88	165.020	
1,700.00	1,700.00	1,702.00	1,702.00	5.10	5.11	-92.17	-61.59	-1,628.83	1,630.00	1,619.78	10.21	159.628	
1,800.00	1,800.00	1,802.00	1,802.00	5.27	5.27	-92.17	-61.59	-1,628.83	1,630.00	1,619.46	10.54	154.696	
1,900.00	1,900.00	1,902.00	1,902.00	5.43	5.43	-92.17	-61.59	-1,628.83	1,630.00	1,619.14	10.86	150.161	
2,000.00	2,000.00	4,858.78	3,235.00	5.58	43.36	179.49	-957.69	8.53	1,561.26	1,530.48	30.78	50.730	
2,100.00	2,100.00	4,858.78	3,235.00	5.73	43.36	179.49	-957.69	8.53	1,483.55	1,451.63	31.92	46.479	
2,200.00	2,200.00	4,858.78	3,235.00	5.88	43.36	179.49	-957.69	8.53	1,408.66	1,375.49	33.17	42.469	
2,300.00	2,299.89	4,857.59	3,235.00	6.15	43.33	179.49	-957.70	7.34	1,334.87	1,300.33	34.53	38.657	
2,400.00	2,398.42	4,851.77	3,235.00	7.02	43.21	179.49	-957.75	1.52	1,256.28	1,220.26	36.01	34.882	
2,500.00	2,493.67	4,841.20	3,235.00	7.79	42.99	179.49	-957.84	-9.05	1,173.05	1,135.82	37.23	31.508	
2,600.00	2,583.80	4,826.09	3,235.00	8.47	42.68	179.49	-957.98	-24.16	1,085.79	1,047.62	38.17	28.443	
2,700.00	2,667.05	4,806.73	3,235.00	9.06	42.27	179.49	-958.15	-43.52	995.18	956.34	38.84	25.624	
2,800.00	2,741.80	4,783.50	3,235.00	9.56	41.79	179.49	-958.36	-66.75	901.96	862.75	39.21	23.003	
2,900.00	2,806.60	4,756.85	3,235.00	9.97	41.24	179.49	-958.60	-93.40	807.08	767.82	39.26	20.558	
3,000.00	2,864.14	4,728.19	3,235.00	10.15	40.66	179.49	-958.85	-122.05	711.69	672.60	39.09	18.207	
3,100.00	2,921.49	4,699.49	3,235.00	10.32	40.07	179.49	-959.11	-150.75	616.42	577.41	39.01	15.803	
3,200.00	2,976.29	4,665.50	3,235.00	11.08	39.38	179.49	-959.41	-184.74	522.97	484.05	38.91	13.440	
3,300.00	3,022.74	4,607.14	3,235.00	12.82	38.18	-179.07	-959.32	-243.10	435.49	396.83	38.66	11.264	
3,400.00	3,059.33	4,534.91	3,235.00	14.56	36.62	-176.90	-956.78	-315.28	355.06	317.12	37.94	9.358	
3,500.00	3,084.93	4,454.94	3,235.00	16.32	34.88	-174.50	-950.78	-395.02	283.34	246.82	36.53	7.757	
3,600.00	3,098.78	4,369.74	3,235.00	18.12	33.01	-171.94	-940.72	-479.62	222.98	188.99	34.00	6.559	
3,700.00	3,100.60	4,281.47	3,235.00	19.88	31.06	-169.29	-926.34	-566.70	178.79	148.99	29.80	6.000	
3,800.00	3,098.02	4,193.97	3,235.00	21.65	29.11	-166.67	-908.12	-652.27	149.74	124.72	25.02	5.984	
3,900.00	3,095.42	4,108.64	3,235.00	23.62	27.21	-164.11	-886.60	-734.83	137.95	113.83	24.12	5.720	
3,906.40	3,095.25	4,103.25	3,235.00	23.75	27.09	-163.95	-885.12	-740.02	137.91	113.60	24.31	5.673 CC, ES	
4,000.00	3,092.80	4,025.29	3,235.00	25.63	25.34	18.39	-862.04	-814.48	146.93	117.68	29.25	5.024 SF	
4,100.00	3,090.18	3,943.71	3,235.00	27.66	23.51	20.84	-834.65	-891.32	172.77	138.61	34.17	5.057	
4,200.00	3,087.56	3,863.75	3,235.00	29.70	21.77	23.24	-804.66	-965.43	208.67	171.95	36.72	5.683	
4,300.00	3,084.95	3,785.27	3,235.00	31.75	20.12	25.59	-772.22	-1,036.89	249.74	211.96	37.78	6.611	
4,400.00	3,082.36	3,705.72	3,235.85	33.81	18.51	27.36	-735.98	-1,107.66	293.07	254.87	38.20	7.672	
4,500.00	3,079.79	3,628.98	3,225.52	35.82	16.94	29.67	-695.97	-1,172.55	337.08	298.92	38.17	8.832	
4,600.00	3,077.23	3,560.85	3,211.49	37.77	15.58	33.02	-656.58	-1,226.29	385.19	347.68	37.51	10.269	
4,700.00	3,074.67	3,500.00	3,193.85	39.78	14.40	36.62	-618.79	-1,270.56	439.72	403.23	36.49	12.049	
4,800.00	3,072.10	3,450.00	3,175.88	41.83	13.45	40.67	-586.21	-1,303.94	500.58	465.46	35.11	14.256	
4,900.00	3,069.54	3,409.53	3,159.15	43.92	12.70	44.75	-559.01	-1,328.78	567.18	533.61	33.57	16.895	
5,000.00	3,066.98	3,373.22	3,142.54	46.05	12.03	48.33	-534.10	-1,349.31	638.78	606.66	32.12	19.889	

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

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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		
5,100.00	3,064.42	3,350.00	3,131.15	48.21	11.62	52.12	-517.96	-1,361.53	714.64	684.03	30.61	23.346		
5,200.00	3,061.86	3,315.38	3,113.13	50.40	11.07	54.48	-493.68	-1,378.37	793.83	764.22	29.61	26.810		
5,300.00	3,059.30	3,292.20	3,100.39	52.61	10.75	57.07	-477.29	-1,388.70	875.96	847.36	28.60	30.627		
5,400.00	3,056.74	3,263.33	3,083.92	54.85	10.49	58.95	-456.83	-1,400.64	960.40	932.47	27.93	34.389		
5,500.00	3,054.18	3,220.22	3,059.19	57.10	10.35	59.88	-426.24	-1,418.30	1,045.99	1,018.34	27.65	37.830		
5,600.00	3,051.62	3,177.11	3,034.46	59.36	10.33	60.68	-395.66	-1,435.96	1,132.31	1,104.95	27.35	41.394		
5,700.00	3,049.06	3,134.00	3,009.74	61.65	10.26	61.36	-365.08	-1,453.61	1,219.19	1,191.97	27.22	44.790		
5,800.00	3,046.49	3,090.90	2,985.01	63.94	10.21	61.95	-334.50	-1,471.27	1,306.52	1,279.39	27.13	48.161		
5,900.00	3,043.93	3,050.00	2,961.08	66.25	10.12	62.56	-305.78	-1,487.85	1,394.27	1,367.16	27.11	51.421		
6,000.00	3,041.37	3,016.38	2,940.07	68.57	9.99	63.36	-283.05	-1,500.97	1,482.52	1,455.50	27.02	54.866		
6,100.00	3,038.81	2,983.44	2,918.32	70.90	9.85	64.13	-261.64	-1,513.34	1,571.30	1,544.36	26.94	58.317		
6,200.00	3,036.25	2,950.00	2,895.10	73.24	9.70	64.84	-240.80	-1,525.37	1,660.61	1,633.71	26.90	61.730		
6,300.00	3,033.69	2,924.45	2,876.62	75.59	9.58	65.69	-225.53	-1,534.19	1,750.44	1,723.66	26.78	65.361		
6,400.00	3,031.13	2,900.00	2,858.35	77.94	9.46	66.50	-211.45	-1,542.31	1,840.78	1,814.12	26.66	69.048		
6,500.00	3,028.57	2,873.66	2,838.06	80.30	9.33	67.22	-196.90	-1,550.71	1,931.61	1,905.00	26.61	72.600		
6,600.00	3,026.01	2,850.00	2,819.32	82.66	9.20	67.94	-184.40	-1,557.93	2,022.91	1,996.38	26.52	76.272		
6,700.00	3,023.45	2,829.89	2,803.03	85.04	9.09	68.67	-174.19	-1,563.82	2,114.66	2,088.23	26.43	80.025		
6,800.00	3,020.88	2,810.29	2,786.83	87.41	8.98	69.35	-164.63	-1,569.34	2,206.84	2,180.51	26.33	83.805		
6,900.00	3,018.32	2,800.00	2,778.21	89.79	8.92	70.12	-159.77	-1,572.15	2,299.45	2,273.30	26.15	87.950		
7,000.00	3,015.76	2,775.03	2,756.97	92.18	8.77	70.65	-148.41	-1,578.71	2,392.39	2,366.24	26.16	91.462		
7,100.00	3,013.20	2,750.00	2,735.22	94.57	8.61	71.16	-137.68	-1,584.90	2,485.75	2,459.59	26.17	94.999		

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

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COMPASS 5000.17 Build 03

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-MWMD												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	3.10	3.10	0.00	0.03	-45.22	1,400.58	-1,411.53	1,988.47				
100.00	100.00	103.10	103.10	0.95	0.97	-45.22	1,400.58	-1,411.53	1,988.47	1,986.55	1.92	1,035.331	
200.00	200.00	203.10	203.10	1.52	1.54	-45.22	1,400.58	-1,411.53	1,988.47	1,985.41	3.06	650.086	
300.00	300.00	303.10	303.10	1.95	1.96	-45.22	1,400.58	-1,411.53	1,988.47	1,984.56	3.91	508.091	
400.00	400.00	403.10	403.10	2.30	2.31	-45.22	1,400.58	-1,411.53	1,988.47	1,983.86	4.62	430.571	
500.00	500.00	503.10	503.10	2.61	2.62	-45.22	1,400.58	-1,411.53	1,988.47	1,983.24	5.23	379.932	
600.00	600.00	603.10	603.10	2.89	2.90	-45.22	1,400.58	-1,411.53	1,988.47	1,982.68	5.79	343.509	
700.00	700.00	703.10	703.10	3.15	3.15	-45.22	1,400.58	-1,411.53	1,988.47	1,982.17	6.30	315.673	
800.00	800.00	803.10	803.10	3.38	3.39	-45.22	1,400.58	-1,411.53	1,988.47	1,981.70	6.78	293.496	
900.00	900.00	903.10	903.10	3.61	3.62	-45.22	1,400.58	-1,411.53	1,988.47	1,981.25	7.22	275.279	
1,000.00	1,000.00	1,003.10	1,003.10	3.82	3.83	-45.22	1,400.58	-1,411.53	1,988.47	1,980.82	7.65	259.963	
1,100.00	1,100.00	1,103.10	1,103.10	4.02	4.03	-45.22	1,400.58	-1,411.53	1,988.47	1,980.42	8.06	246.847	
1,200.00	1,200.00	1,203.10	1,203.10	4.22	4.23	-45.22	1,400.58	-1,411.53	1,988.47	1,980.03	8.45	235.447	
1,300.00	1,300.00	1,303.10	1,303.10	4.41	4.41	-45.22	1,400.58	-1,411.53	1,988.47	1,979.65	8.82	225.416	
1,400.00	1,400.00	1,403.10	1,403.10	4.59	4.60	-45.22	1,400.58	-1,411.53	1,988.47	1,979.29	9.18	216.499	
1,500.00	1,500.00	1,503.10	1,503.10	4.77	4.77	-45.22	1,400.58	-1,411.53	1,988.47	1,978.94	9.54	208.501	
1,600.00	1,600.00	1,603.10	1,603.10	4.94	4.94	-45.22	1,400.58	-1,411.53	1,988.47	1,978.59	9.88	201.274	
1,700.00	1,700.00	1,703.10	1,703.10	5.10	5.11	-45.22	1,400.58	-1,411.53	1,988.47	1,978.26	10.21	194.701	
1,800.00	1,800.00	1,803.10	1,803.10	5.27	5.27	-45.22	1,400.58	-1,411.53	1,988.47	1,977.93	10.54	188.686	
1,900.00	1,900.00	1,903.10	1,903.10	5.43	5.43	-45.22	1,400.58	-1,411.53	1,988.47	1,977.62	10.86	183.156	
2,000.00	2,000.00	2,003.10	2,003.10	5.58	5.59	-45.22	1,400.58	-1,411.53	1,988.47	1,977.31	11.17	178.047	
2,100.00	2,100.00	2,103.10	2,103.10	5.73	5.74	-45.22	1,400.58	-1,411.53	1,988.47	1,977.00	11.47	173.307	
2,200.00	2,200.00	2,203.10	2,203.10	5.88	5.89	-45.22	1,400.58	-1,411.53	1,988.47	1,976.70	11.77	168.895 CC, ES	
2,300.00	2,299.89	2,302.99	2,302.99	6.15	6.04	-45.13	1,400.58	-1,411.53	1,989.89	1,977.89	12.00	165.819	
2,400.00	2,398.42	2,401.52	2,401.52	7.02	6.18	-44.70	1,400.58	-1,411.53	1,996.94	1,984.60	12.34	161.799	
2,500.00	2,493.67	2,496.77	2,496.77	7.79	6.31	-43.92	1,400.58	-1,411.53	2,010.02	1,997.30	12.72	158.051	
2,600.00	2,583.80	2,586.90	2,586.90	8.47	6.44	-42.83	1,400.58	-1,411.53	2,029.35	2,016.18	13.16	154.170	
2,700.00	2,667.05	2,670.15	2,670.15	9.06	6.54	-41.46	1,400.58	-1,411.53	2,055.16	2,041.47	13.69	150.072	
2,800.00	2,741.80	2,731.69	2,731.64	9.56	6.69	-39.81	1,401.82	-1,410.28	2,087.86	2,073.54	14.32	145.822	
2,900.00	2,806.60	2,775.39	2,775.13	9.97	7.00	-37.92	1,404.93	-1,407.18	2,127.89	2,112.86	15.03	141.575	
3,000.00	2,864.14	2,800.00	2,799.46	10.15	7.22	-36.00	1,407.50	-1,404.61	2,173.77	2,158.02	15.75	137.991	
3,100.00	2,921.49	2,834.49	2,833.33	10.32	7.49	-34.08	1,412.10	-1,400.01	2,222.66	2,206.10	16.56	134.212	
3,200.00	2,976.29	2,850.00	2,848.45	11.08	7.62	-32.22	1,414.54	-1,397.57	2,271.19	2,253.68	17.51	129.727	
3,300.00	3,022.74	2,869.04	2,866.91	12.82	7.77	-30.11	1,417.85	-1,394.26	2,312.62	2,293.77	18.85	122.717	
3,400.00	3,059.33	2,874.71	2,872.38	14.56	7.81	-27.91	1,418.90	-1,393.20	2,346.20	2,325.97	20.22	116.006	
3,500.00	3,084.93	2,874.26	2,871.94	16.32	7.81	-25.63	1,418.82	-1,393.29	2,371.33	2,349.65	21.68	109.361	
3,600.00	3,098.78	2,868.80	2,866.67	18.12	7.76	-23.30	1,417.80	-1,394.30	2,387.54	2,364.30	23.23	102.766	
3,700.00	3,100.60	2,850.00	2,848.45	19.88	7.62	-21.00	1,414.54	-1,397.57	2,394.57	2,369.82	24.75	96.739	
3,800.00	3,098.02	2,850.00	2,848.45	21.65	7.62	-18.60	1,414.54	-1,397.57	2,397.40	2,371.03	26.37	90.915	
3,900.00	3,095.42	2,850.00	2,848.45	23.62	7.62	-16.19	1,414.54	-1,397.57	2,399.19	2,370.96	28.23	84.998	
4,000.00	3,092.80	2,832.71	2,831.59	25.63	7.48	-13.87	1,411.83	-1,400.28	2,399.76	2,369.75	30.02	79.946	
4,100.00	3,090.18	2,825.66	2,824.69	27.66	7.42	-11.50	1,410.81	-1,401.30	2,399.29	2,367.45	31.84	75.348	
4,200.00	3,087.56	2,819.35	2,818.50	29.70	7.37	-9.12	1,409.93	-1,402.17	2,397.73	2,364.07	33.66	71.235	
4,300.00	3,084.95	2,800.00	2,799.46	31.75	7.22	-6.78	1,407.50	-1,404.61	2,395.21	2,359.82	35.38	67.691	
4,400.00	3,082.36	2,800.00	2,799.46	33.81	7.22	-4.37	1,407.50	-1,404.61	2,391.43	2,354.24	37.19	64.301	
4,500.00	3,079.79	2,800.00	2,799.46	35.82	7.22	-1.96	1,407.50	-1,404.61	2,386.67	2,347.76	38.91	61.337	
4,600.00	3,077.23	2,800.00	2,799.46	37.77	7.22	0.46	1,407.50	-1,404.61	2,384.09	2,343.61	40.48	58.889	
4,611.66	3,076.93	2,800.00	2,799.46	38.00	7.22	0.74	1,407.50	-1,404.61	2,384.06	2,343.39	40.67	58.622	
4,700.00	3,074.67	2,800.00	2,799.46	39.78	7.22	2.87	1,407.50	-1,404.61	2,385.70	2,343.66	42.04	56.752	
4,800.00	3,072.10	2,800.00	2,799.46	41.83	7.22	5.28	1,407.50	-1,404.61	2,391.49	2,347.94	43.55	54.910	
4,900.00	3,069.54	2,800.00	2,799.46	43.92	7.22	7.68	1,407.50	-1,404.61	2,401.44	2,356.41	45.02	53.340	
5,000.00	3,066.98	2,800.00	2,799.46	46.05	7.22	10.05	1,407.50	-1,404.61	2,415.48	2,369.05	46.43	52.022	

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

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COMPASS 5000.17 Build 03

Stryker Directional
Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Horned Frog/Aggie Project - The Aggie #34H - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	3,064.42	2,800.00	2,799.46	48.21	7.22	12.38	1,407.50	-1,404.61	2,433.56	2,385.78	47.78	50.934	
5,200.00	3,061.86	2,778.48	2,778.18	50.40	7.03	14.64	1,405.22	-1,406.89	2,455.21	2,406.35	48.86	50.248	
5,300.00	3,059.30	2,775.53	2,775.26	52.61	7.00	16.89	1,404.94	-1,407.17	2,480.95	2,430.92	50.03	49.589 SF	

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-MWMD												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	3.30	3.30	0.00	0.03	-46.07	1,360.56	-1,412.14	1,960.93				
100.00	100.00	103.30	103.30	0.95	0.97	-46.07	1,360.56	-1,412.14	1,960.93	1,959.01	1.92	1,020.385	
200.00	200.00	203.30	203.30	1.52	1.54	-46.07	1,360.56	-1,412.14	1,960.93	1,957.87	3.06	640.903	
300.00	300.00	303.30	303.30	1.95	1.96	-46.07	1,360.56	-1,412.14	1,960.93	1,957.02	3.91	500.964	
400.00	400.00	403.30	403.30	2.30	2.31	-46.07	1,360.56	-1,412.14	1,960.93	1,956.31	4.62	424.551	
500.00	500.00	503.30	503.30	2.61	2.62	-46.07	1,360.56	-1,412.14	1,960.93	1,955.70	5.23	374.631	
600.00	600.00	603.30	603.30	2.89	2.90	-46.07	1,360.56	-1,412.14	1,960.93	1,955.14	5.79	338.721	
700.00	700.00	703.30	703.30	3.15	3.15	-46.07	1,360.56	-1,412.14	1,960.93	1,954.63	6.30	311.278	
800.00	800.00	803.30	803.30	3.38	3.39	-46.07	1,360.56	-1,412.14	1,960.93	1,954.16	6.78	289.412	
900.00	900.00	903.30	903.30	3.61	3.62	-46.07	1,360.56	-1,412.14	1,960.93	1,953.71	7.22	271.450	
1,000.00	1,000.00	1,003.30	1,003.30	3.82	3.83	-46.07	1,360.56	-1,412.14	1,960.93	1,953.28	7.65	256.349	
1,100.00	1,100.00	1,103.30	1,103.30	4.02	4.03	-46.07	1,360.56	-1,412.14	1,960.93	1,952.88	8.06	243.416	
1,200.00	1,200.00	1,203.30	1,203.30	4.22	4.23	-46.07	1,360.56	-1,412.14	1,960.93	1,952.49	8.45	232.176	
1,300.00	1,300.00	1,303.30	1,303.30	4.41	4.41	-46.07	1,360.56	-1,412.14	1,960.93	1,952.11	8.82	222.285	
1,400.00	1,400.00	1,403.30	1,403.30	4.59	4.60	-46.07	1,360.56	-1,412.14	1,960.93	1,951.75	9.19	213.492	
1,500.00	1,500.00	1,503.30	1,503.30	4.77	4.77	-46.07	1,360.56	-1,412.14	1,960.93	1,951.40	9.54	205.606	
1,600.00	1,600.00	1,603.30	1,603.30	4.94	4.94	-46.07	1,360.56	-1,412.14	1,960.93	1,951.05	9.88	198.480	
1,700.00	1,700.00	1,703.30	1,703.30	5.10	5.11	-46.07	1,360.56	-1,412.14	1,960.93	1,950.72	10.21	191.998	
1,800.00	1,800.00	4,729.68	3,551.28	5.27	35.21	-1.24	807.02	-17.47	1,925.36	1,901.33	24.03	80.127	
1,900.00	1,900.00	4,730.75	3,551.29	5.43	35.23	-1.16	807.02	-16.39	1,835.05	1,810.43	24.62	74.534	
2,000.00	2,000.00	4,731.83	3,551.30	5.58	35.25	-1.09	807.02	-15.31	1,745.80	1,720.53	25.27	69.082	
2,100.00	2,100.00	4,732.90	3,551.31	5.73	35.28	-1.01	807.01	-14.24	1,657.77	1,631.79	25.99	63.788	
2,200.00	2,200.00	4,733.98	3,551.33	5.88	35.30	-0.93	807.01	-13.16	1,571.18	1,544.40	26.78	58.669	
2,300.00	2,299.89	4,733.90	3,551.32	6.15	35.30	-0.85	807.01	-13.24	1,488.09	1,460.38	27.70	53.717	
2,400.00	2,398.42	4,729.30	3,551.27	7.02	35.20	-0.76	807.02	-17.84	1,415.48	1,386.30	29.17	48.520	
2,500.00	2,493.67	4,720.06	3,551.18	7.79	34.99	-0.67	807.03	-27.08	1,356.86	1,325.90	30.96	43.827	
2,600.00	2,583.80	4,706.34	3,551.03	8.47	34.69	-0.57	807.06	-40.80	1,315.21	1,282.27	32.94	39.929	
2,700.00	2,667.05	4,688.43	3,550.84	9.06	34.30	-0.48	807.09	-58.71	1,292.88	1,257.94	34.93	37.011	
2,758.36	2,711.81	4,676.17	3,550.70	9.35	34.03	-0.43	807.11	-70.97	1,289.33	1,253.31	36.02	35.794 CC, ES	
2,800.00	2,741.80	4,666.66	3,550.60	9.56	33.83	-0.40	807.12	-80.48	1,291.13	1,254.38	36.75	35.136	
2,900.00	2,806.60	4,641.46	3,550.33	9.97	33.28	-0.33	807.16	-105.68	1,309.91	1,271.68	38.23	34.267 SF	
3,000.00	2,864.14	4,614.24	3,550.04	10.15	32.69	-0.27	807.21	-132.90	1,343.75	1,304.77	38.98	34.474	
3,100.00	2,921.49	4,586.97	3,549.74	10.32	32.10	-0.22	807.26	-160.17	1,383.65	1,344.14	39.51	35.016	
3,200.00	2,976.29	4,554.38	3,549.39	11.08	31.40	-0.17	807.31	-192.75	1,429.58	1,389.74	39.85	35.878	
3,300.00	3,022.74	4,506.93	3,548.88	12.82	30.39	-0.14	807.39	-240.20	1,480.77	1,440.86	39.91	37.107	
3,400.00	3,059.33	4,445.79	3,548.23	14.56	29.12	-0.11	807.49	-301.33	1,533.93	1,494.27	39.66	38.678	
3,500.00	3,084.93	4,398.80	3,547.72	16.32	28.14	0.89	807.57	-348.32	1,586.08	1,546.27	39.81	39.841	
3,600.00	3,098.78	4,339.29	3,547.08	18.12	26.80	1.71	808.59	-407.82	1,635.41	1,595.76	39.66	41.241	
3,700.00	3,100.60	4,300.00	3,546.65	19.88	25.93	3.44	810.29	-447.07	1,680.84	1,640.84	40.01	42.015	
3,800.00	3,098.02	4,243.11	3,546.04	21.65	24.63	4.60	814.17	-503.82	1,722.96	1,682.93	40.02	43.047	
3,900.00	3,095.42	4,200.00	3,545.57	23.62	23.67	6.24	818.23	-546.74	1,762.81	1,722.23	40.59	43.434	
4,000.00	3,092.80	4,146.07	3,544.99	25.63	22.50	7.52	824.68	-600.27	1,800.28	1,759.22	41.05	43.851	
4,100.00	3,090.18	4,100.00	3,544.49	27.66	21.52	9.06	831.39	-645.85	1,835.37	1,793.67	41.69	44.021	
4,200.00	3,087.56	4,050.00	3,543.93	29.70	20.52	10.47	839.91	-695.11	1,868.03	1,825.65	42.38	44.076	
4,300.00	3,084.95	4,000.00	3,541.34	31.75	19.45	11.89	850.57	-743.88	1,898.60	1,855.58	43.02	44.132	
4,400.00	3,082.36	3,972.25	3,538.46	33.81	18.86	13.99	857.62	-770.56	1,927.03	1,883.05	43.98	43.820	
4,500.00	3,079.79	3,934.41	3,532.88	35.82	18.05	15.78	868.52	-806.36	1,953.58	1,908.86	44.72	43.683	
4,600.00	3,077.23	3,900.00	3,526.18	37.77	17.33	17.65	879.66	-838.21	1,981.20	1,935.83	45.37	43.667	
4,700.00	3,074.67	3,850.00	3,513.71	39.78	16.28	19.03	897.88	-883.05	2,011.88	1,966.01	45.86	43.867	
4,800.00	3,072.10	3,830.18	3,507.89	41.83	15.87	21.21	905.73	-900.29	2,045.28	1,998.66	46.63	43.865	
4,900.00	3,069.54	3,800.00	3,498.10	43.92	15.26	23.04	918.36	-925.89	2,081.73	2,034.47	47.25	44.053	
5,000.00	3,066.98	3,770.03	3,487.29	46.05	14.65	24.82	931.66	-950.47	2,121.06	2,073.20	47.86	44.321	

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

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Horned Frog/Aggie Project - The Aggie #36H - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	3,064.42	3,750.00	3,479.47	48.21	14.26	26.78	940.96	-966.40	2,163.27	2,114.79	48.48	44.626	
5,200.00	3,061.86	3,717.36	3,465.75	50.40	13.61	28.37	956.76	-991.44	2,208.19	2,159.20	48.98	45.081	
5,300.00	3,059.30	3,700.00	3,457.97	52.61	13.28	30.25	965.49	-1,004.27	2,255.88	2,206.35	49.52	45.551	
5,400.00	3,056.74	3,671.59	3,444.52	54.85	12.73	31.81	980.22	-1,024.50	2,306.13	2,256.16	49.97	46.152	
5,500.00	3,054.18	3,650.00	3,433.74	57.10	12.32	33.46	991.78	-1,039.21	2,358.93	2,308.53	50.40	46.801	
5,600.00	3,051.62	3,631.92	3,424.36	59.36	12.02	35.11	1,001.67	-1,051.07	2,414.16	2,363.32	50.84	47.482	
5,700.00	3,049.06	3,600.00	3,406.99	61.65	11.52	36.41	1,019.62	-1,070.96	2,471.86	2,420.61	51.25	48.230	

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

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BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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	1.90	1.90	0.00	0.02	-91.46	-41.60	-1,628.60	1,629.13					
100.00	100.00	101.90	101.90	0.95	0.96	-91.46	-41.60	-1,628.60	1,629.13	1,627.22	1.91	851.271		
200.00	200.00	201.90	201.90	1.52	1.53	-91.46	-41.60	-1,628.60	1,629.13	1,626.08	3.05	533.504		
300.00	300.00	301.90	301.90	1.95	1.96	-91.46	-41.60	-1,628.60	1,629.13	1,625.22	3.91	416.723		
400.00	400.00	401.90	401.90	2.30	2.31	-91.46	-41.60	-1,628.60	1,629.13	1,624.51	4.61	353.044		
500.00	500.00	501.90	501.90	2.61	2.62	-91.46	-41.60	-1,628.60	1,629.13	1,623.90	5.23	311.472		
600.00	600.00	601.90	601.90	2.89	2.90	-91.46	-41.60	-1,628.60	1,629.13	1,623.34	5.79	281.581		
700.00	700.00	701.90	701.90	3.15	3.15	-91.46	-41.60	-1,628.60	1,629.13	1,622.83	6.30	258.744		
800.00	800.00	801.90	801.90	3.38	3.39	-91.46	-41.60	-1,628.60	1,629.13	1,622.36	6.77	240.553		
900.00	900.00	901.90	901.90	3.61	3.61	-91.46	-41.60	-1,628.60	1,629.13	1,621.91	7.22	225.612		
1,000.00	1,000.00	1,001.90	1,001.90	3.82	3.83	-91.46	-41.60	-1,628.60	1,629.13	1,621.48	7.65	213.052		
1,100.00	1,100.00	1,101.90	1,101.90	4.02	4.03	-91.46	-41.60	-1,628.60	1,629.13	1,621.08	8.05	202.297		
1,200.00	1,200.00	1,201.90	1,201.90	4.22	4.22	-91.46	-41.60	-1,628.60	1,629.13	1,620.69	8.44	192.950		
1,300.00	1,300.00	1,301.90	1,301.90	4.41	4.41	-91.46	-41.60	-1,628.60	1,629.13	1,620.31	8.82	184.726		
1,400.00	1,400.00	1,401.90	1,401.90	4.59	4.59	-91.46	-41.60	-1,628.60	1,629.13	1,619.95	9.18	177.415		
1,500.00	1,500.00	1,501.90	1,501.90	4.77	4.77	-91.46	-41.60	-1,628.60	1,629.13	1,619.59	9.53	170.859		
1,600.00	1,600.00	1,601.90	1,601.90	4.94	4.94	-91.46	-41.60	-1,628.60	1,629.13	1,619.25	9.88	164.935		
1,700.00	1,700.00	1,701.90	1,701.90	5.10	5.11	-91.46	-41.60	-1,628.60	1,629.13	1,618.92	10.21	159.546		
1,800.00	1,800.00	1,801.90	1,801.90	5.27	5.27	-91.46	-41.60	-1,628.60	1,629.13	1,618.59	10.54	154.616		
1,900.00	1,900.00	1,901.90	1,901.90	5.43	5.43	-91.46	-41.60	-1,628.60	1,629.13	1,618.27	10.85	150.083		
2,000.00	2,000.00	4,850.64	3,561.56	5.58	38.76	-176.87	-384.94	-21.03	1,606.60	1,586.02	20.58	78.057		
2,100.00	2,100.00	4,852.20	3,561.59	5.73	38.80	-177.11	-384.92	-19.46	1,509.71	1,488.76	20.95	72.064		
2,200.00	2,200.00	4,853.77	3,561.61	5.88	38.83	-177.34	-384.91	-17.89	1,413.26	1,391.88	21.37	66.122		
2,300.00	2,299.89	4,854.15	3,561.62	6.15	38.84	-177.55	-384.91	-17.51	1,316.49	1,294.66	21.83	60.299		
2,400.00	2,398.42	4,849.88	3,561.55	7.02	38.74	-177.66	-384.94	-21.79	1,217.68	1,195.54	22.15	54.984		
2,500.00	2,493.67	4,840.80	3,561.41	7.79	38.53	-177.68	-385.02	-30.86	1,118.19	1,096.01	22.19	50.400		
2,600.00	2,583.80	4,827.10	3,561.20	8.47	38.21	-177.57	-385.15	-44.56	1,019.92	997.96	21.95	46.455		
2,700.00	2,667.05	4,809.05	3,560.91	9.06	37.79	-177.25	-385.31	-62.61	925.26	903.75	21.50	43.026		
2,800.00	2,741.80	4,786.99	3,560.57	9.56	37.28	-176.52	-385.50	-84.66	837.32	816.32	20.99	39.882		
2,900.00	2,806.60	4,761.36	3,560.17	9.97	36.68	-174.52	-385.73	-110.29	760.09	739.35	20.74	36.644		
3,000.00	2,864.14	4,733.61	3,559.73	10.15	36.04	-163.54	-385.98	-138.03	694.70	673.95	20.75	33.483		
3,100.00	2,921.49	4,705.81	3,559.29	10.32	35.40	-14.16	-386.23	-165.83	637.30	615.51	21.80	29.240		
3,200.00	2,976.29	4,672.69	3,558.78	11.08	34.64	-4.95	-386.52	-198.95	592.40	568.23	24.17	24.506		
3,300.00	3,022.74	4,624.68	3,558.02	12.82	33.53	-3.02	-386.95	-246.94	566.65	539.05	27.60	20.530		
3,387.81	3,055.44	4,571.19	3,557.18	14.34	32.31	-2.29	-387.43	-300.42	559.85	529.22	30.63	18.279 CC		
3,400.00	3,059.33	4,563.00	3,557.06	14.56	32.13	-2.22	-387.50	-308.61	559.97	528.96	31.01	18.058 ES		
3,500.00	3,084.93	4,489.52	3,555.90	16.32	30.46	-1.82	-388.15	-382.08	569.14	535.50	33.64	16.918		
3,600.00	3,098.78	4,406.47	3,554.60	18.12	28.60	-1.60	-388.89	-465.12	589.21	553.93	35.28	16.700 SF		
3,700.00	3,100.60	4,316.40	3,553.19	19.88	26.61	-1.48	-389.70	-555.18	615.18	579.16	36.02	17.081		
3,800.00	3,098.02	4,223.10	3,551.73	21.65	24.59	-1.40	-390.53	-648.46	640.97	604.65	36.32	17.649		
3,900.00	3,095.42	4,128.05	3,550.24	23.62	22.58	-1.35	-391.37	-743.50	664.08	627.41	36.67	18.107		
4,000.00	3,092.80	4,030.10	3,548.46	25.63	20.53	-1.46	-392.06	-841.43	684.03	647.08	36.95	18.514		
4,100.00	3,090.18	3,928.97	3,537.26	27.66	18.34	-1.66	-385.43	-941.58	700.10	662.79	37.31	18.766		
4,200.00	3,087.56	3,836.75	3,515.13	29.70	16.37	-0.52	-370.00	-1,029.67	713.15	675.19	37.96	18.785		
4,300.00	3,084.95	3,755.19	3,486.54	31.75	14.67	1.96	-349.21	-1,103.08	724.90	686.18	38.72	18.720		
4,400.00	3,082.36	3,684.32	3,455.28	33.81	13.25	5.52	-326.04	-1,162.26	736.97	697.58	39.40	18.707		
4,500.00	3,079.79	3,623.15	3,423.89	35.82	12.13	9.85	-302.50	-1,209.15	750.77	710.92	39.86	18.837		
4,600.00	3,077.23	3,561.43	3,388.91	37.77	11.14	14.03	-276.09	-1,252.60	769.91	729.78	40.14	19.182		
4,700.00	3,074.67	3,490.05	3,347.97	39.78	10.62	17.22	-245.15	-1,302.21	795.03	754.49	40.54	19.610		
4,800.00	3,072.10	3,418.68	3,307.03	41.83	10.50	20.06	-214.21	-1,351.82	825.34	784.53	40.81	20.225		
4,900.00	3,069.54	3,324.68	3,250.48	43.92	10.24	21.48	-174.50	-1,415.49	859.69	818.30	41.38	20.774		
5,000.00	3,066.98	3,235.90	3,188.81	46.05	9.86	23.45	-140.75	-1,469.60	896.70	854.88	41.81	21.445		

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

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BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Azimuth from North (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
5,100.00	3,064.42	3,165.13	3,134.28	48.21	9.51	26.37	-116.91	-1,507.84	937.86	896.01	41.85	22.410	
5,200.00	3,061.86	3,108.43	3,087.56	50.40	9.20	29.75	-99.93	-1,535.07	984.03	942.47	41.56	23.679	
5,300.00	3,059.30	3,062.52	3,047.95	52.61	8.92	33.30	-87.64	-1,554.76	1,035.45	994.43	41.02	25.240	
5,400.00	3,056.74	3,024.88	3,014.42	54.85	8.69	36.82	-78.59	-1,569.28	1,091.97	1,051.65	40.33	27.079	
5,500.00	3,054.18	2,993.61	2,985.92	57.10	8.48	40.19	-71.79	-1,580.19	1,153.24	1,113.72	39.52	29.179	
5,600.00	3,051.62	2,967.32	2,961.55	59.36	8.30	43.37	-66.58	-1,588.53	1,218.79	1,180.12	38.67	31.516	
5,700.00	3,049.06	2,950.00	2,945.30	61.65	8.19	46.38	-63.41	-1,593.61	1,288.18	1,250.41	37.77	34.109	
5,800.00	3,046.49	2,925.75	2,922.31	63.94	8.01	49.01	-59.33	-1,600.16	1,360.88	1,323.93	36.95	36.831	
5,900.00	3,043.93	2,900.00	2,897.63	66.25	7.83	51.39	-55.44	-1,606.39	1,436.58	1,400.42	36.16	39.728	
6,000.00	3,041.37	2,900.00	2,897.63	68.57	7.83	53.79	-55.44	-1,606.39	1,514.75	1,479.45	35.31	42.904	
6,100.00	3,038.81	2,881.68	2,879.92	70.90	7.69	55.79	-52.97	-1,610.37	1,595.16	1,560.57	34.59	46.120	
6,200.00	3,036.25	2,870.28	2,868.84	73.24	7.60	57.67	-51.55	-1,612.64	1,677.53	1,643.64	33.89	49.501	
6,300.00	3,033.69	2,850.00	2,849.03	75.59	7.45	59.32	-49.25	-1,616.32	1,761.65	1,728.39	33.25	52.975	
6,400.00	3,031.13	2,850.00	2,849.03	77.94	7.45	60.93	-49.25	-1,616.32	1,847.12	1,814.49	32.63	56.605	
6,500.00	3,028.57	2,850.00	2,849.03	80.30	7.45	62.40	-49.25	-1,616.32	1,934.00	1,901.93	32.06	60.323	
6,600.00	3,026.01	2,850.00	2,849.03	82.66	7.45	63.75	-49.25	-1,616.32	2,022.08	1,990.54	31.54	64.118	
6,700.00	3,023.45	2,828.41	2,827.81	85.04	7.28	64.88	-47.14	-1,619.71	2,110.94	2,079.86	31.08	67.923	
6,800.00	3,020.88	2,822.17	2,821.66	87.41	7.23	65.99	-46.59	-1,620.59	2,200.82	2,170.19	30.64	71.838	
6,900.00	3,018.32	2,816.45	2,816.01	89.79	7.18	67.02	-46.11	-1,621.36	2,291.50	2,261.28	30.23	75.810	
7,000.00	3,015.76	2,800.00	2,799.73	92.18	7.06	67.93	-44.87	-1,623.35	2,382.97	2,353.14	29.84	79.863	
7,100.00	3,013.20	2,800.00	2,799.73	94.57	7.06	68.83	-44.87	-1,623.35	2,474.95	2,445.46	29.49	83.918	

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

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COMPASS 5000.17 Build 03

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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	1.40	1.40	0.00	0.01	-0.50	1,383.93	-12.11	1,383.99				
100.00	100.00	101.40	101.40	0.95	0.96	-0.50	1,383.93	-12.11	1,383.99	1,382.08	1.91	724.257	
200.00	200.00	201.40	201.40	1.52	1.53	-0.50	1,383.93	-12.11	1,383.99	1,380.93	3.05	453.543	
300.00	300.00	301.40	301.40	1.95	1.96	-0.50	1,383.93	-12.11	1,383.99	1,380.08	3.91	354.177	
400.00	400.00	401.40	401.40	2.30	2.31	-0.50	1,383.93	-12.11	1,383.99	1,379.37	4.61	300.020	
500.00	500.00	501.40	501.40	2.61	2.62	-0.50	1,383.93	-12.11	1,383.99	1,378.76	5.23	264.674	
600.00	600.00	601.40	601.40	2.89	2.89	-0.50	1,383.93	-12.11	1,383.99	1,378.20	5.78	239.263	
700.00	700.00	701.40	701.40	3.15	3.15	-0.50	1,383.93	-12.11	1,383.99	1,377.69	6.30	219.851	
800.00	800.00	801.40	801.40	3.38	3.39	-0.50	1,383.93	-12.11	1,383.99	1,377.22	6.77	204.389	
900.00	900.00	901.40	901.40	3.61	3.61	-0.50	1,383.93	-12.11	1,383.99	1,376.77	7.22	191.691	
1,000.00	1,000.00	1,001.40	1,001.40	3.82	3.82	-0.50	1,383.93	-12.11	1,383.99	1,376.34	7.65	181.017	
1,100.00	1,100.00	1,101.40	1,101.40	4.02	4.03	-0.50	1,383.93	-12.11	1,383.99	1,375.93	8.05	171.877	
1,200.00	1,200.00	1,201.40	1,201.40	4.22	4.22	-0.50	1,383.93	-12.11	1,383.99	1,375.54	8.44	163.934	
1,300.00	1,300.00	1,301.40	1,301.40	4.41	4.41	-0.50	1,383.93	-12.11	1,383.99	1,375.17	8.82	156.946	
1,400.00	1,400.00	1,401.40	1,401.40	4.59	4.59	-0.50	1,383.93	-12.11	1,383.99	1,374.80	9.18	150.733	
1,500.00	1,500.00	1,501.40	1,501.40	4.77	4.77	-0.50	1,383.93	-12.11	1,383.99	1,374.45	9.53	145.162	
1,600.00	1,600.00	1,601.40	1,601.40	4.94	4.94	-0.50	1,383.93	-12.11	1,383.99	1,374.11	9.88	140.128	
1,700.00	1,700.00	1,701.40	1,701.40	5.10	5.11	-0.50	1,383.93	-12.11	1,383.99	1,373.78	10.21	135.549	
1,800.00	1,800.00	1,801.40	1,801.40	5.27	5.27	-0.50	1,383.93	-12.11	1,383.99	1,373.45	10.54	131.360	
1,900.00	1,900.00	1,901.40	1,901.40	5.43	5.43	-0.50	1,383.93	-12.11	1,383.99	1,373.13	10.85	127.508	
2,000.00	2,000.00	2,001.40	2,001.40	5.58	5.58	-0.50	1,383.93	-12.11	1,383.99	1,372.82	11.17	123.950	
2,100.00	2,100.00	2,101.40	2,101.40	5.73	5.74	-0.50	1,383.93	-12.11	1,383.99	1,372.52	11.47	120.650	
2,200.00	2,200.00	2,201.40	2,201.40	5.88	5.89	-0.50	1,383.93	-12.11	1,383.99	1,372.22	11.77	117.583 CC, ES	
2,300.00	2,299.89	2,301.06	2,301.05	6.15	5.99	-0.48	1,383.93	-12.78	1,387.16	1,375.07	12.09	114.703	
2,400.00	2,398.42	2,398.58	2,397.89	7.02	6.73	-0.68	1,383.88	-23.60	1,402.78	1,389.86	12.92	108.570	
2,500.00	2,493.67	2,491.36	2,487.86	7.79	7.49	-1.15	1,383.79	-46.00	1,431.24	1,417.55	13.69	104.570	
2,600.00	2,583.80	2,576.93	2,567.63	8.47	8.12	-1.75	1,383.65	-76.81	1,472.12	1,457.70	14.42	102.081	
2,700.00	2,667.05	2,653.89	2,635.79	9.06	8.64	-2.32	1,383.50	-112.47	1,524.69	1,509.55	15.14	100.689	
2,800.00	2,741.80	2,721.83	2,692.48	9.56	9.04	-2.76	1,383.33	-149.88	1,587.89	1,572.01	15.88	99.999	
2,900.00	2,806.60	2,781.02	2,738.79	9.97	9.36	-3.01	1,383.17	-186.71	1,660.29	1,643.67	16.62	99.919	
3,000.00	2,864.14	2,833.93	2,777.48	10.15	9.62	-3.15	1,383.01	-222.78	1,738.10	1,720.85	17.25	100.750	
3,100.00	2,921.49	2,884.22	2,811.70	10.32	9.84	-3.29	1,382.85	-259.62	1,816.46	1,798.50	17.97	101.111	
3,200.00	2,976.29	2,933.88	2,842.87	11.08	10.04	-3.32	1,382.68	-298.26	1,894.46	1,875.60	18.87	100.417	
3,300.00	3,022.74	2,994.58	2,878.01	12.82	10.18	-3.24	1,382.47	-347.75	1,969.03	1,948.77	20.26	97.185	
3,400.00	3,059.33	3,066.31	2,919.15	14.56	10.29	-3.05	1,382.21	-406.51	2,037.55	2,015.44	22.11	92.143	
3,500.00	3,084.93	3,141.29	2,962.16	16.32	11.37	-2.63	1,381.94	-467.94	2,098.14	2,073.88	24.26	86.484	
3,600.00	3,098.78	3,206.40	2,997.78	18.12	12.42	-1.81	1,381.72	-522.41	2,149.64	2,123.13	26.51	81.078	
3,700.00	3,100.60	3,274.58	3,028.41	19.88	13.64	-1.02	1,381.50	-583.27	2,191.36	2,162.26	29.09	75.318	
3,800.00	3,098.02	3,350.00	3,053.61	21.65	15.13	-0.44	1,381.29	-654.30	2,226.87	2,194.76	32.11	69.356	
3,900.00	3,095.42	3,437.38	3,070.86	23.62	17.00	-0.20	1,381.09	-739.88	2,258.15	2,222.27	35.88	62.928	
4,000.00	3,092.80	3,528.87	3,074.82	25.63	19.03	-0.07	1,380.93	-831.18	2,284.77	2,244.84	39.93	57.221	
4,100.00	3,090.18	3,626.49	3,072.45	27.66	21.26	-0.07	1,380.79	-928.77	2,306.39	2,262.13	44.27	52.101	
4,200.00	3,087.56	3,725.11	3,070.04	29.70	23.54	-0.07	1,380.65	-1,027.36	2,322.89	2,274.14	48.74	47.656	
4,300.00	3,084.95	3,824.45	3,067.63	31.75	25.87	-0.07	1,380.50	-1,126.68	2,334.19	2,280.87	53.32	43.775	
4,400.00	3,082.36	3,924.26	3,065.20	33.81	28.22	-0.07	1,380.36	-1,226.45	2,340.29	2,282.31	57.98	40.366	
4,500.00	3,079.79	4,024.24	3,062.76	35.82	30.60	-0.07	1,380.21	-1,326.41	2,341.19	2,278.57	62.62	37.387	
4,600.00	3,077.23	4,124.24	3,060.33	37.77	32.99	-0.07	1,380.07	-1,426.37	2,340.06	2,272.87	67.18	34.830	
4,700.00	3,074.67	4,224.23	3,057.89	39.78	35.39	-0.07	1,379.93	-1,526.34	2,338.93	2,267.13	71.80	32.576	
4,800.00	3,072.10	4,324.22	3,055.46	41.83	37.80	-0.07	1,379.78	-1,626.30	2,337.80	2,261.35	76.45	30.579	
4,900.00	3,069.54	4,424.22	3,053.02	43.92	40.21	-0.07	1,379.64	-1,726.26	2,336.67	2,255.54	81.13	28.800	
5,000.00	3,066.98	4,524.21	3,050.59	46.05	42.63	-0.07	1,379.49	-1,826.23	2,335.54	2,249.70	85.84	27.207	
5,100.00	3,064.42	4,624.20	3,048.15	48.21	45.06	-0.07	1,379.35	-1,926.19	2,334.41	2,243.84	90.58	25.773	

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

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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	
5,200.00	3,061.86	4,724.20	3,045.72	50.40	47.48	-0.07	1,379.20	-2,026.16	2,333.28	2,237.96	95.33	24.476	
5,300.00	3,059.30	4,824.19	3,043.28	52.61	49.91	-0.07	1,379.06	-2,126.12	2,332.15	2,232.06	100.10	23.299	
5,400.00	3,056.74	4,924.18	3,040.85	54.85	52.35	-0.07	1,378.91	-2,226.08	2,331.03	2,226.15	104.88	22.226	
5,500.00	3,054.18	5,024.18	3,038.41	57.10	54.78	-0.07	1,378.77	-2,326.05	2,329.90	2,220.22	109.67	21.244	
5,600.00	3,051.62	5,124.17	3,035.98	59.36	57.22	-0.07	1,378.63	-2,426.01	2,328.77	2,214.29	114.48	20.342	
5,700.00	3,049.06	5,224.17	3,033.54	61.65	59.66	-0.07	1,378.48	-2,525.97	2,327.64	2,208.35	119.29	19.512	
5,800.00	3,046.49	5,324.16	3,031.11	63.94	62.11	-0.07	1,378.34	-2,625.94	2,326.51	2,202.39	124.12	18.744	
5,900.00	3,043.93	5,424.15	3,028.67	66.25	64.55	-0.07	1,378.19	-2,725.90	2,325.38	2,196.43	128.95	18.033	
6,000.00	3,041.37	5,524.15	3,026.24	68.57	66.99	-0.07	1,378.05	-2,825.87	2,324.25	2,190.47	133.79	17.373	
6,100.00	3,038.81	5,624.14	3,023.80	70.90	69.44	-0.07	1,377.90	-2,925.83	2,323.12	2,184.49	138.63	16.758	
6,200.00	3,036.25	5,724.13	3,021.37	73.24	71.89	-0.07	1,377.76	-3,025.79	2,321.99	2,178.52	143.48	16.184	
6,300.00	3,033.69	5,824.13	3,018.93	75.59	74.33	-0.07	1,377.61	-3,125.76	2,320.87	2,172.53	148.33	15.646	
6,400.00	3,031.13	5,924.12	3,016.50	77.94	76.78	-0.07	1,377.47	-3,225.72	2,319.74	2,166.55	153.19	15.143	
6,500.00	3,028.57	6,024.11	3,014.06	80.30	79.23	-0.07	1,377.32	-3,325.68	2,318.61	2,160.55	158.05	14.670	
6,600.00	3,026.01	6,124.11	3,011.63	82.66	81.68	-0.07	1,377.18	-3,425.65	2,317.48	2,154.56	162.92	14.225	
6,700.00	3,023.45	6,224.10	3,009.19	85.04	84.13	-0.07	1,377.04	-3,525.61	2,316.35	2,148.56	167.79	13.805	
6,800.00	3,020.88	6,324.09	3,006.76	87.41	86.58	-0.07	1,376.89	-3,625.58	2,315.22	2,142.56	172.66	13.409	
6,900.00	3,018.32	6,424.09	3,004.32	89.79	89.03	-0.07	1,376.75	-3,725.54	2,314.09	2,136.56	177.54	13.034	
7,000.00	3,015.76	6,524.08	3,001.89	92.18	91.49	-0.07	1,376.60	-3,825.50	2,312.96	2,130.55	182.41	12.680	
7,100.00	3,013.20	6,624.08	2,999.46	94.57	93.94	-0.07	1,376.46	-3,925.47	2,311.83	2,124.54	187.29	12.343	
7,200.00	3,010.64	6,724.07	2,997.02	96.96	96.39	-0.07	1,376.31	-4,025.43	2,310.71	2,118.53	192.18	12.024	
7,300.00	3,008.08	6,824.06	2,994.59	99.36	98.85	-0.07	1,376.17	-4,125.39	2,309.58	2,112.52	197.06	11.720	
7,400.00	3,005.52	6,924.06	2,992.15	101.76	101.30	-0.07	1,376.02	-4,225.36	2,308.45	2,106.50	201.95	11.431	
7,500.00	3,002.96	7,024.05	2,989.72	104.16	103.75	-0.07	1,375.88	-4,325.32	2,307.32	2,100.48	206.84	11.155	
7,600.00	3,000.40	7,124.04	2,987.28	106.57	106.21	-0.07	1,375.74	-4,425.29	2,306.19	2,094.47	211.73	10.892	
7,700.00	2,997.84	7,224.04	2,984.85	108.98	108.66	-0.07	1,375.59	-4,525.25	2,305.06	2,088.45	216.62	10.641	
7,800.00	2,995.27	7,324.03	2,982.41	111.39	111.12	-0.07	1,375.45	-4,625.21	2,303.93	2,082.42	221.51	10.401	
7,900.00	2,992.71	7,424.02	2,979.98	113.80	113.57	-0.07	1,375.30	-4,725.18	2,302.80	2,076.40	226.40	10.171	
8,000.00	2,990.15	7,524.02	2,977.54	116.22	116.03	-0.07	1,375.16	-4,825.14	2,301.68	2,070.38	231.30	9.951	
8,100.00	2,987.59	7,624.01	2,975.11	118.63	118.48	-0.07	1,375.01	-4,925.11	2,300.55	2,064.35	236.19	9.740	
8,200.00	2,985.03	7,724.00	2,972.67	121.05	120.94	-0.07	1,374.87	-5,025.07	2,299.42	2,058.33	241.09	9.538	
8,300.00	2,982.47	7,824.00	2,970.24	123.47	123.40	-0.07	1,374.72	-5,125.03	2,298.29	2,052.30	245.99	9.343	
8,400.00	2,979.91	7,923.99	2,967.80	125.89	125.85	-0.07	1,374.58	-5,225.00	2,297.16	2,046.27	250.89	9.156	
8,500.00	2,977.35	8,023.99	2,965.37	128.32	128.31	-0.07	1,374.44	-5,324.96	2,296.03	2,040.24	255.79	8.976	
8,600.00	2,974.79	8,123.98	2,962.93	130.74	130.77	-0.07	1,374.29	-5,424.92	2,294.90	2,034.21	260.69	8.803	
8,700.00	2,972.23	8,223.97	2,960.50	133.17	133.22	-0.07	1,374.15	-5,524.89	2,293.77	2,028.18	265.59	8.636	
8,800.00	2,969.67	8,323.97	2,958.06	135.60	135.68	-0.07	1,374.00	-5,624.85	2,292.65	2,022.15	270.50	8.476	
8,900.00	2,967.10	8,423.96	2,955.63	138.03	138.14	-0.07	1,373.86	-5,724.82	2,291.52	2,016.12	275.40	8.321	
9,000.00	2,964.54	8,523.95	2,953.19	140.46	140.59	-0.08	1,373.71	-5,824.78	2,290.39	2,010.08	280.30	8.171	
9,100.00	2,961.98	8,623.95	2,950.76	142.89	143.05	-0.08	1,373.57	-5,924.74	2,289.26	2,004.05	285.21	8.027	
9,200.00	2,959.42	8,704.40	2,948.80	145.32	145.03	0.41	1,373.45	-6,005.18	2,288.21	1,998.71	289.50	7.904	
9,206.30	2,959.26	8,704.40	2,948.80	145.47	145.03	0.57	1,373.45	-6,005.18	2,288.21	1,998.60	289.61	7.901	
9,216.44	2,959.00	8,704.40	2,948.80	145.72	145.03	0.83	1,373.45	-6,005.18	2,288.23	1,998.45	289.78	7.896 SF	

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

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COMPASS 5000.17 Build 03

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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	0.43	40.02	0.30	40.02				
100.00	100.00	100.00	100.00	0.95	0.95	0.43	40.02	0.30	40.02	38.12	1.90	21.031	
200.00	200.00	200.00	200.00	1.52	1.52	0.43	40.02	0.30	40.02	36.97	3.05	13.141	
300.00	300.00	300.00	300.00	1.95	1.95	0.43	40.02	0.30	40.02	36.12	3.90	10.255	
400.00	400.00	400.00	400.00	2.30	2.30	0.43	40.02	0.30	40.02	35.41	4.61	8.684	
500.00	500.00	500.00	500.00	2.61	2.61	0.43	40.02	0.30	40.02	34.80	5.23	7.659	
600.00	600.00	600.00	600.00	2.89	2.89	0.43	40.02	0.30	40.02	34.24	5.78	6.923	
700.00	700.00	700.00	700.00	3.15	3.15	0.43	40.02	0.30	40.02	33.73	6.29	6.361	
800.00	800.00	800.00	800.00	3.38	3.38	0.43	40.02	0.30	40.02	33.25	6.77	5.913	
900.00	900.00	900.00	900.00	3.61	3.61	0.43	40.02	0.30	40.02	32.80	7.22	5.545	
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	0.43	40.02	0.30	40.02	32.38	7.64	5.236	
1,100.00	1,100.00	1,100.00	1,100.00	4.02	4.02	0.43	40.02	0.30	40.02	31.97	8.05	4.972	
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	0.43	40.02	0.30	40.02	31.58	8.44	4.742	
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	0.43	40.02	0.30	40.02	31.20	8.82	4.540	
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	0.43	40.02	0.30	40.02	30.84	9.18	4.360	
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	0.43	40.02	0.30	40.02	30.49	9.53	4.199	
1,600.00	1,600.00	1,600.00	1,600.00	4.94	4.94	0.43	40.02	0.30	40.02	30.15	9.87	4.053	
1,700.00	1,700.00	1,700.00	1,700.00	5.10	5.10	0.43	40.02	0.30	40.02	29.81	10.21	3.921	
1,800.00	1,800.00	1,800.00	1,800.00	5.27	5.27	0.43	40.02	0.30	40.02	29.49	10.53	3.799	
1,900.00	1,900.00	1,900.00	1,900.00	5.43	5.43	0.43	40.02	0.30	40.02	29.17	10.85	3.688	
2,000.00	2,000.00	2,000.00	2,000.00	5.58	5.58	0.43	40.02	0.30	40.02	28.86	11.16	3.585	
2,100.00	2,100.00	2,100.00	2,100.00	5.73	5.73	0.43	40.02	0.30	40.02	28.55	11.47	3.489	
2,200.00	2,200.00	2,200.00	2,200.00	5.88	5.88	0.43	40.02	0.30	40.02	28.25	11.77	3.401 CC	
2,204.45	2,204.45	2,204.45	2,204.45	5.90	5.89	0.44	40.02	0.30	40.03	28.24	11.78	3.397 ES, SF	
2,300.00	2,299.89	2,299.60	2,299.59	6.15	5.99	1.34	40.12	-0.14	43.31	31.21	12.10	3.578	
2,400.00	2,398.42	2,396.22	2,395.63	7.02	6.69	-2.82	42.28	-9.85	61.21	48.27	12.94	4.730	
2,500.00	2,493.67	2,486.62	2,483.51	7.79	7.44	-7.94	46.82	-30.27	95.42	81.78	13.65	6.993	
2,600.00	2,583.80	2,567.75	2,559.59	8.47	8.05	-10.38	52.92	-57.67	144.98	130.72	14.26	10.167	
2,700.00	2,667.05	2,638.12	2,622.64	9.06	8.53	-10.60	59.70	-88.10	207.57	192.75	14.82	14.008	
2,800.00	2,741.80	2,700.00	2,675.33	9.56	8.92	-9.77	66.74	-119.74	280.59	265.20	15.39	18.232	
2,900.00	2,806.60	2,750.00	2,715.73	9.97	9.20	-8.04	73.14	-148.48	361.57	345.64	15.93	22.700	
3,000.00	2,864.14	2,787.87	2,744.91	10.15	9.40	-5.94	78.38	-172.04	447.12	430.79	16.33	27.378	
3,100.00	2,921.49	2,826.61	2,773.40	10.32	9.59	-4.71	84.09	-197.66	533.98	517.18	16.80	31.783	
3,200.00	2,976.29	2,864.31	2,799.72	11.08	9.76	-3.39	89.95	-224.00	620.45	603.08	17.37	35.714	
3,300.00	3,022.74	2,900.00	2,823.29	12.82	9.92	-1.13	95.77	-250.15	702.80	684.67	18.13	38.773	
3,400.00	3,059.33	2,950.00	2,854.02	14.56	10.11	0.75	104.34	-288.64	779.47	760.14	19.33	40.324	
3,500.00	3,084.93	3,003.99	2,885.06	16.32	10.20	2.79	113.94	-331.75	849.09	828.29	20.80	40.825	
3,600.00	3,098.78	3,068.51	2,922.07	18.12	10.30	4.58	125.42	-383.34	910.01	887.24	22.77	39.961	
3,700.00	3,100.60	3,133.49	2,959.33	19.88	11.22	6.58	136.99	-435.30	961.97	937.09	24.88	38.670	
3,800.00	3,098.02	3,223.57	3,008.34	21.65	12.70	7.32	152.29	-509.24	1,009.52	981.62	27.90	36.181	
3,900.00	3,095.42	3,366.20	3,062.43	23.62	15.50	5.05	170.02	-639.62	1,051.51	1,018.33	33.19	31.684	
4,000.00	3,092.80	3,549.57	3,083.80	25.63	19.53	0.40	179.26	-820.73	1,083.07	1,042.88	40.19	26.946	
4,100.00	3,090.18	3,643.69	3,081.41	27.66	21.64	0.57	180.19	-914.81	1,105.81	1,061.41	44.39	24.908	
4,200.00	3,087.56	3,742.12	3,078.88	29.70	23.89	0.57	181.16	-1,013.20	1,123.41	1,074.57	48.84	23.003	
4,300.00	3,084.95	3,841.33	3,076.33	31.75	26.19	0.57	182.13	-1,112.38	1,135.84	1,082.45	53.39	21.275	
4,400.00	3,082.36	3,941.06	3,073.76	33.81	28.53	0.57	183.11	-1,212.07	1,143.06	1,085.03	58.02	19.700	
4,500.00	3,079.79	4,041.03	3,071.19	35.82	30.89	0.57	184.10	-1,312.00	1,145.08	1,082.43	62.65	18.277	
4,600.00	3,077.23	4,141.03	3,068.62	37.77	33.26	0.57	185.08	-1,411.96	1,145.08	1,077.88	67.20	17.039	
4,700.00	3,074.67	4,241.03	3,066.05	39.78	35.65	0.57	186.06	-1,511.92	1,145.08	1,073.27	71.81	15.946	
4,800.00	3,072.10	4,341.03	3,063.47	41.83	38.04	0.57	187.04	-1,611.88	1,145.08	1,068.63	76.45	14.978	
4,900.00	3,069.54	4,441.03	3,060.90	43.92	40.45	0.57	188.03	-1,711.85	1,145.08	1,063.95	81.13	14.114	
5,000.00	3,066.98	4,541.03	3,058.33	46.05	42.86	0.57	189.01	-1,811.81	1,145.08	1,059.25	85.83	13.341	

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

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COMPASS 5000.17 Build 03

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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	
5,100.00	3,064.42	4,641.03	3,055.76	48.21	45.28	0.57	189.99	-1,911.77	1,145.08	1,054.52	90.56	12.644	
5,200.00	3,061.86	4,741.03	3,053.19	50.40	47.70	0.57	190.97	-2,011.73	1,145.08	1,049.77	95.31	12.015	
5,300.00	3,059.30	4,841.03	3,050.61	52.61	50.12	0.57	191.96	-2,111.70	1,145.08	1,045.00	100.07	11.443	
5,400.00	3,056.74	4,941.03	3,048.04	54.85	52.55	0.57	192.94	-2,211.66	1,145.07	1,040.22	104.85	10.921	
5,500.00	3,054.18	5,041.03	3,045.47	57.10	54.98	0.57	193.92	-2,311.62	1,145.07	1,035.43	109.64	10.444	
5,600.00	3,051.62	5,141.03	3,042.90	59.36	57.41	0.57	194.90	-2,411.58	1,145.07	1,030.63	114.44	10.006	
5,700.00	3,049.06	5,241.03	3,040.32	61.65	59.85	0.57	195.88	-2,511.54	1,145.07	1,025.81	119.26	9.602	
5,800.00	3,046.49	5,341.03	3,037.75	63.94	62.29	0.57	196.87	-2,611.51	1,145.07	1,020.99	124.08	9.229	
5,900.00	3,043.93	5,441.03	3,035.18	66.25	64.73	0.57	197.85	-2,711.47	1,145.07	1,016.16	128.91	8.883	
6,000.00	3,041.37	5,541.03	3,032.61	68.57	67.17	0.57	198.83	-2,811.43	1,145.07	1,011.32	133.74	8.562	
6,100.00	3,038.81	5,641.03	3,030.03	70.90	69.61	0.57	199.81	-2,911.39	1,145.07	1,006.48	138.59	8.262	
6,200.00	3,036.25	5,741.03	3,027.46	73.24	72.06	0.57	200.80	-3,011.35	1,145.07	1,001.63	143.43	7.983	
6,300.00	3,033.69	5,841.03	3,024.89	75.59	74.50	0.57	201.78	-3,111.32	1,145.07	996.78	148.29	7.722	
6,400.00	3,031.13	5,941.03	3,022.32	77.94	76.95	0.57	202.76	-3,211.28	1,145.06	991.92	153.15	7.477	
6,500.00	3,028.57	6,041.03	3,019.75	80.30	79.40	0.57	203.74	-3,311.24	1,145.06	987.06	158.01	7.247	
6,600.00	3,026.01	6,141.03	3,017.17	82.66	81.85	0.57	204.73	-3,411.20	1,145.06	982.19	162.87	7.030	
6,700.00	3,023.45	6,241.03	3,014.60	85.04	84.30	0.57	205.71	-3,511.16	1,145.06	977.32	167.74	6.826	
6,800.00	3,020.88	6,341.03	3,012.03	87.41	86.75	0.57	206.69	-3,611.13	1,145.06	972.45	172.61	6.634	
6,900.00	3,018.32	6,441.03	3,009.46	89.79	89.20	0.57	207.67	-3,711.09	1,145.06	967.57	177.49	6.451	
7,000.00	3,015.76	6,541.03	3,006.88	92.18	91.65	0.57	208.66	-3,811.05	1,145.06	962.69	182.37	6.279	
7,100.00	3,013.20	6,641.03	3,004.31	94.57	94.10	0.57	209.64	-3,911.01	1,145.06	957.81	187.25	6.115	
7,200.00	3,010.64	6,741.03	3,001.74	96.96	96.55	0.57	210.62	-4,010.97	1,145.06	952.93	192.13	5.960	
7,300.00	3,008.08	6,841.03	2,999.17	99.36	99.01	0.57	211.60	-4,110.94	1,145.06	948.04	197.02	5.812	
7,400.00	3,005.52	6,941.03	2,996.60	101.76	101.46	0.57	212.59	-4,210.90	1,145.05	943.15	201.90	5.671	
7,500.00	3,002.96	7,041.03	2,994.02	104.16	103.91	0.57	213.57	-4,310.86	1,145.05	938.26	206.79	5.537	
7,600.00	3,000.40	7,141.03	2,991.45	106.57	106.37	0.57	214.55	-4,410.82	1,145.05	933.37	211.68	5.409	
7,700.00	2,997.84	7,241.03	2,988.88	108.98	108.82	0.57	215.53	-4,510.79	1,145.05	928.48	216.57	5.287	
7,800.00	2,995.27	7,341.03	2,986.31	111.39	111.28	0.57	216.52	-4,610.75	1,145.05	923.59	221.46	5.170	
7,900.00	2,992.71	7,441.03	2,983.73	113.80	113.73	0.57	217.50	-4,710.71	1,145.05	918.69	226.36	5.059	
8,000.00	2,990.15	7,541.03	2,981.16	116.22	116.19	0.57	218.48	-4,810.67	1,145.05	913.79	231.26	4.951	
8,100.00	2,987.59	7,641.03	2,978.59	118.63	118.64	0.57	219.46	-4,910.63	1,145.05	908.90	236.15	4.849	
8,200.00	2,985.03	7,741.03	2,976.02	121.05	121.10	0.57	220.45	-5,010.60	1,145.05	904.00	241.05	4.750	
8,300.00	2,982.47	7,841.03	2,973.44	123.47	123.56	0.57	221.43	-5,110.56	1,145.05	899.10	245.95	4.656	
8,400.00	2,979.91	7,941.03	2,970.87	125.89	126.01	0.57	222.41	-5,210.52	1,145.04	894.20	250.85	4.565	
8,500.00	2,977.35	8,041.03	2,968.30	128.32	128.47	0.57	223.39	-5,310.48	1,145.04	889.29	255.75	4.477	
8,600.00	2,974.79	8,141.03	2,965.73	130.74	130.93	0.57	224.38	-5,410.44	1,145.04	884.39	260.65	4.393	
8,700.00	2,972.23	8,241.03	2,963.16	133.17	133.38	0.57	225.36	-5,510.41	1,145.04	879.49	265.56	4.312	
8,800.00	2,969.67	8,341.03	2,960.58	135.60	135.84	0.57	226.34	-5,610.37	1,145.04	874.58	270.46	4.234	
8,900.00	2,967.10	8,441.03	2,958.01	138.03	138.30	0.57	227.32	-5,710.33	1,145.04	869.68	275.36	4.158	
9,000.00	2,964.54	8,541.03	2,955.44	140.46	140.76	0.57	228.31	-5,810.29	1,145.04	864.77	280.27	4.086	
9,100.00	2,961.98	8,641.03	2,952.87	142.89	143.21	0.57	229.29	-5,910.25	1,145.04	859.86	285.17	4.015	
9,200.00	2,959.42	8,741.03	2,950.29	145.32	145.67	0.57	230.27	-6,010.22	1,145.04	854.96	290.08	3.947	
9,210.90	2,959.14	8,751.93	2,950.01	145.59	145.94	0.57	230.38	-6,021.11	1,145.04	854.42	290.61	3.940	
9,216.44	2,959.00	8,752.46	2,950.00	145.72	145.95	0.83	230.38	-6,021.64	1,145.05	854.35	290.70	3.939	

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

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COMPASS 5000.17 Build 03

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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	1.50	1.50	0.00	0.01	-0.48	1,403.94	-11.81	1,403.99					
100.00	100.00	101.50	101.50	0.95	0.96	-0.48	1,403.94	-11.81	1,403.99	1,402.08	1.91	734.507		
200.00	200.00	201.50	201.50	1.52	1.53	-0.48	1,403.94	-11.81	1,403.99	1,400.94	3.05	460.035		
300.00	300.00	301.50	301.50	1.95	1.96	-0.48	1,403.94	-11.81	1,403.99	1,400.08	3.91	359.264		
400.00	400.00	401.50	401.50	2.30	2.31	-0.48	1,403.94	-11.81	1,403.99	1,399.38	4.61	304.336		
500.00	500.00	501.50	501.50	2.61	2.62	-0.48	1,403.94	-11.81	1,403.99	1,398.76	5.23	268.485		
600.00	600.00	601.50	601.50	2.89	2.89	-0.48	1,403.94	-11.81	1,403.99	1,398.21	5.78	242.711		
700.00	700.00	701.50	701.50	3.15	3.15	-0.48	1,403.94	-11.81	1,403.99	1,397.70	6.30	223.021		
800.00	800.00	801.50	801.50	3.38	3.39	-0.48	1,403.94	-11.81	1,403.99	1,397.22	6.77	207.337		
900.00	900.00	901.50	901.50	3.61	3.61	-0.48	1,403.94	-11.81	1,403.99	1,396.77	7.22	194.457		
1,000.00	1,000.00	1,001.50	1,001.50	3.82	3.82	-0.48	1,403.94	-11.81	1,403.99	1,396.35	7.65	183.629		
1,100.00	1,100.00	1,101.50	1,101.50	4.02	4.03	-0.48	1,403.94	-11.81	1,403.99	1,395.94	8.05	174.358		
1,200.00	1,200.00	1,201.50	1,201.50	4.22	4.22	-0.48	1,403.94	-11.81	1,403.99	1,395.55	8.44	166.300		
1,300.00	1,300.00	1,301.50	1,301.50	4.41	4.41	-0.48	1,403.94	-11.81	1,403.99	1,395.17	8.82	159.211		
1,400.00	1,400.00	1,401.50	1,401.50	4.59	4.59	-0.48	1,403.94	-11.81	1,403.99	1,394.81	9.18	152.909		
1,500.00	1,500.00	1,501.50	1,501.50	4.77	4.77	-0.48	1,403.94	-11.81	1,403.99	1,394.46	9.53	147.258		
1,600.00	1,600.00	1,601.50	1,601.50	4.94	4.94	-0.48	1,403.94	-11.81	1,403.99	1,394.12	9.88	142.151		
1,700.00	1,700.00	1,701.50	1,701.50	5.10	5.11	-0.48	1,403.94	-11.81	1,403.99	1,393.78	10.21	137.507		
1,800.00	1,800.00	1,801.50	1,801.50	5.27	5.27	-0.48	1,403.94	-11.81	1,403.99	1,393.46	10.54	133.257		
1,900.00	1,900.00	1,901.50	1,901.50	5.43	5.43	-0.48	1,403.94	-11.81	1,403.99	1,393.14	10.85	129.350		
2,000.00	2,000.00	2,001.50	2,001.50	5.58	5.58	-0.48	1,403.94	-11.81	1,403.99	1,392.83	11.17	125.740		
2,100.00	2,100.00	2,101.50	2,101.50	5.73	5.74	-0.48	1,403.94	-11.81	1,403.99	1,392.52	11.47	122.392		
2,200.00	2,200.00	2,201.50	2,201.50	5.88	5.89	-0.48	1,403.94	-11.81	1,403.99	1,392.22	11.77	119.275 CC, ES		
2,300.00	2,299.89	2,301.39	2,301.39	6.15	6.03	-0.43	1,403.94	-11.81	1,407.17	1,395.01	12.16	115.761		
2,400.00	2,398.42	2,399.92	2,399.92	7.02	6.18	-0.20	1,403.94	-11.81	1,422.75	1,409.67	13.08	108.809		
2,500.00	2,493.67	2,495.17	2,495.17	7.79	6.31	0.21	1,403.94	-11.81	1,451.10	1,437.18	13.92	104.247		
2,600.00	2,583.80	2,585.30	2,585.30	8.47	6.44	0.77	1,403.94	-11.81	1,491.76	1,477.06	14.69	101.531		
2,700.00	2,667.05	2,650.00	2,650.00	9.06	6.49	1.45	1,403.96	-11.82	1,544.16	1,528.85	15.31	100.839 SF		
2,800.00	2,741.80	2,700.00	2,699.94	9.56	6.69	2.14	1,405.32	-13.45	1,608.94	1,593.03	15.91	101.143		
2,900.00	2,806.60	2,700.00	2,699.94	9.97	6.69	2.93	1,405.32	-13.45	1,684.39	1,668.16	16.22	103.839		
3,000.00	2,864.14	2,734.26	2,734.03	10.15	6.97	3.63	1,407.55	-16.11	1,766.22	1,749.69	16.53	106.829		
3,100.00	2,921.49	2,750.00	2,749.62	10.32	7.12	4.29	1,408.93	-17.75	1,849.44	1,832.72	16.72	110.609		
3,200.00	2,976.29	2,775.14	2,774.41	11.08	7.32	5.01	1,411.58	-20.91	1,933.45	1,916.43	17.02	113.603		
3,300.00	3,022.74	2,800.00	2,798.78	12.82	7.53	6.08	1,414.75	-24.69	2,016.66	1,999.20	17.46	115.518		
3,400.00	3,059.33	2,800.00	2,798.78	14.56	7.53	7.56	1,414.75	-24.69	2,096.83	2,079.02	17.82	117.681		
3,500.00	3,084.93	2,816.98	2,815.32	16.32	7.65	9.19	1,417.23	-27.64	2,172.20	2,153.82	18.38	118.190		
3,600.00	3,098.78	2,824.93	2,823.03	18.12	7.72	11.03	1,418.47	-29.13	2,241.20	2,222.19	19.01	117.909		
3,700.00	3,100.60	2,829.68	2,827.62	19.88	7.75	13.00	1,419.25	-30.05	2,302.55	2,282.86	19.69	116.929		
3,800.00	3,098.02	2,833.65	2,831.46	21.65	7.78	14.99	1,419.91	-30.83	2,360.02	2,339.55	20.47	115.267		
3,900.00	3,095.42	2,850.00	2,847.19	23.62	7.91	16.88	1,422.76	-34.24	2,416.15	2,394.56	21.59	111.922		
4,000.00	3,092.80	2,850.00	2,847.19	25.63	7.91	18.85	1,422.76	-34.24	2,470.70	2,448.06	22.64	109.119		

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

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COMPASS 5000.17 Build 03

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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	1.30	1.30	0.00	0.01	-0.52	1,363.92	-12.42	1,363.98				
100.00	100.00	101.30	101.30	0.95	0.96	-0.52	1,363.92	-12.42	1,363.98	1,362.07	1.91	714.001	
200.00	200.00	201.30	201.30	1.52	1.53	-0.52	1,363.92	-12.42	1,363.98	1,360.93	3.05	447.050	
300.00	300.00	301.30	301.30	1.95	1.96	-0.52	1,363.92	-12.42	1,363.98	1,360.07	3.91	349.089	
400.00	400.00	401.30	401.30	2.30	2.31	-0.52	1,363.92	-12.42	1,363.98	1,359.37	4.61	295.702	
500.00	500.00	501.30	501.30	2.61	2.62	-0.52	1,363.92	-12.42	1,363.98	1,358.75	5.23	260.861	
600.00	600.00	601.30	601.30	2.89	2.89	-0.52	1,363.92	-12.42	1,363.98	1,358.20	5.78	235.815	
700.00	700.00	701.30	701.30	3.15	3.15	-0.52	1,363.92	-12.42	1,363.98	1,357.69	6.29	216.681	
800.00	800.00	801.30	801.30	3.38	3.39	-0.52	1,363.92	-12.42	1,363.98	1,357.21	6.77	201.441	
900.00	900.00	901.30	901.30	3.61	3.61	-0.52	1,363.92	-12.42	1,363.98	1,356.76	7.22	188.926	
1,000.00	1,000.00	1,001.30	1,001.30	3.82	3.82	-0.52	1,363.92	-12.42	1,363.98	1,356.33	7.65	178.405	
1,100.00	1,100.00	1,101.30	1,101.30	4.02	4.03	-0.52	1,363.92	-12.42	1,363.98	1,355.93	8.05	169.397	
1,200.00	1,200.00	1,201.30	1,201.30	4.22	4.22	-0.52	1,363.92	-12.42	1,363.98	1,355.54	8.44	161.568	
1,300.00	1,300.00	1,301.30	1,301.30	4.41	4.41	-0.52	1,363.92	-12.42	1,363.98	1,355.16	8.82	154.680	
1,400.00	1,400.00	1,401.30	1,401.30	4.59	4.59	-0.52	1,363.92	-12.42	1,363.98	1,354.80	9.18	148.557	
1,500.00	1,500.00	1,501.30	1,501.30	4.77	4.77	-0.52	1,363.92	-12.42	1,363.98	1,354.45	9.53	143.066	
1,600.00	1,600.00	1,601.30	1,601.30	4.94	4.94	-0.52	1,363.92	-12.42	1,363.98	1,354.10	9.88	138.105	
1,700.00	1,700.00	1,701.30	1,701.30	5.10	5.11	-0.52	1,363.92	-12.42	1,363.98	1,353.77	10.21	133.592	
1,800.00	1,800.00	1,801.30	1,801.30	5.27	5.27	-0.52	1,363.92	-12.42	1,363.98	1,353.44	10.54	129.463	
1,900.00	1,900.00	1,901.30	1,901.30	5.43	5.43	-0.52	1,363.92	-12.42	1,363.98	1,353.13	10.85	125.667	
2,000.00	2,000.00	2,001.30	2,001.30	5.58	5.58	-0.52	1,363.92	-12.42	1,363.98	1,352.81	11.17	122.160	
2,100.00	2,100.00	2,101.30	2,101.30	5.73	5.74	-0.52	1,363.92	-12.42	1,363.98	1,352.51	11.47	118.907	
2,200.00	2,200.00	2,201.30	2,201.30	5.88	5.89	-0.52	1,363.92	-12.42	1,363.98	1,352.21	11.77	115.879	
2,300.00	2,299.89	2,301.19	2,301.19	6.15	6.03	-0.47	1,363.92	-12.42	1,367.15	1,355.00	12.16	112.473	
2,400.00	2,398.42	2,399.72	2,399.72	7.02	6.18	-0.23	1,363.92	-12.42	1,382.73	1,369.66	13.08	105.754	
2,500.00	2,493.67	3,539.89	3,348.44	7.79	10.85	-16.21	996.74	-320.68	1,382.11	1,365.25	16.86	81.966	
2,600.00	2,583.80	3,600.00	3,381.00	8.47	11.77	-17.18	960.65	-355.99	1,355.53	1,337.23	18.31	74.051	
2,700.00	2,667.05	3,650.00	3,405.80	9.06	12.70	-17.51	932.61	-389.11	1,344.59	1,324.66	19.93	67.479	
2,715.50	2,679.23	3,650.00	3,405.80	9.14	12.70	-17.22	932.61	-389.11	1,344.35	1,324.24	20.11	66.860 CC, ES	
2,800.00	2,741.80	3,700.00	3,428.34	9.56	13.63	-17.61	906.59	-425.35	1,349.86	1,328.24	21.62	62.436	
2,900.00	2,806.60	3,750.00	3,448.44	9.97	14.58	-17.52	882.80	-464.45	1,371.22	1,347.87	23.34	58.738	
3,000.00	2,864.14	3,784.15	3,460.69	10.15	15.23	-16.69	867.92	-492.63	1,404.13	1,379.57	24.56	57.178	
3,100.00	2,921.49	3,820.98	3,472.50	10.32	15.94	-16.07	853.19	-524.25	1,441.38	1,415.56	25.82	55.827	
3,200.00	2,976.29	3,850.00	3,480.74	11.08	16.51	-15.02	842.59	-549.97	1,482.02	1,454.95	27.07	54.753	
3,300.00	3,022.74	3,900.00	3,492.69	12.82	17.50	-14.33	826.48	-595.76	1,523.48	1,494.47	29.01	52.520	
3,400.00	3,059.33	3,928.02	3,498.11	14.56	18.05	-12.45	818.68	-622.11	1,563.94	1,533.39	30.55	51.195	
3,500.00	3,084.93	3,965.45	3,503.89	16.32	18.80	-10.66	809.69	-657.97	1,602.10	1,569.75	32.34	49.533	
3,600.00	3,098.78	4,000.00	3,507.73	18.12	19.50	-8.60	802.86	-691.62	1,636.66	1,602.53	34.13	47.951	
3,700.00	3,100.60	4,050.00	3,510.71	19.88	20.50	-6.99	795.53	-740.98	1,666.72	1,630.38	36.34	45.865	
3,800.00	3,098.02	4,111.22	3,511.83	21.65	21.64	-5.75	789.07	-801.84	1,693.39	1,654.58	38.81	43.631	
3,900.00	3,095.42	4,208.71	3,513.53	23.62	23.52	-5.75	778.88	-898.79	1,715.56	1,672.95	42.61	40.261	
4,000.00	3,092.80	4,307.21	3,515.25	25.63	25.50	-5.75	768.59	-996.73	1,732.76	1,686.15	46.60	37.181	
4,100.00	3,090.18	4,363.64	3,516.02	27.66	26.68	-4.30	763.43	-1,052.91	1,746.12	1,696.67	49.45	35.309	
4,200.00	3,087.56	4,400.00	3,516.27	29.70	27.45	-2.18	760.95	-1,089.19	1,757.11	1,705.45	51.66	34.012	
4,300.00	3,084.95	4,474.60	3,516.18	31.75	29.11	-1.34	757.93	-1,163.72	1,765.17	1,709.94	55.23	31.961	
4,400.00	3,082.36	4,536.69	3,515.48	33.81	30.45	-0.08	757.56	-1,225.81	1,770.87	1,712.54	58.33	30.362	
4,500.00	3,079.79	4,624.77	3,514.09	35.82	32.31	0.32	758.40	-1,313.87	1,773.01	1,710.78	62.24	28.489	
4,600.00	3,077.23	4,724.76	3,512.51	37.77	34.46	0.32	759.36	-1,413.85	1,773.22	1,706.73	66.50	26.666	
4,700.00	3,074.67	4,824.76	3,510.93	39.78	36.64	0.32	760.31	-1,513.83	1,773.44	1,702.61	70.83	25.038	
4,800.00	3,072.10	4,924.75	3,509.35	41.83	38.86	0.32	761.27	-1,613.81	1,773.65	1,698.44	75.22	23.581	
4,900.00	3,069.54	5,024.75	3,507.78	43.92	41.11	0.32	762.22	-1,713.78	1,773.87	1,694.22	79.65	22.272	
5,000.00	3,066.98	5,124.74	3,506.20	46.05	43.37	0.32	763.18	-1,813.76	1,774.08	1,689.97	84.11	21.091	

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

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COMPASS 5000.17 Build 03

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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	
5,100.00	3,064.42	5,224.74	3,504.62	48.21	45.66	0.32	764.13	-1,913.74	1,774.30	1,685.68	88.61	20.023	
5,200.00	3,061.86	5,324.73	3,503.04	50.40	47.97	0.32	765.09	-2,013.72	1,774.51	1,681.38	93.14	19.052	
5,300.00	3,059.30	5,424.73	3,501.46	52.61	50.29	0.32	766.05	-2,113.70	1,774.73	1,677.04	97.69	18.167	
5,400.00	3,056.74	5,524.73	3,499.88	54.85	52.62	0.32	767.00	-2,213.67	1,774.95	1,672.69	102.26	17.358	
5,500.00	3,054.18	5,624.72	3,498.31	57.10	54.96	0.31	767.96	-2,313.65	1,775.17	1,668.33	106.84	16.615	
5,600.00	3,051.62	5,724.72	3,496.73	59.36	57.31	0.31	768.91	-2,413.63	1,775.39	1,663.95	111.44	15.931	
5,700.00	3,049.06	5,824.71	3,495.15	61.65	59.68	0.31	769.87	-2,513.61	1,775.60	1,659.55	116.05	15.300	
5,800.00	3,046.49	5,924.71	3,493.57	63.94	62.05	0.31	770.83	-2,613.59	1,775.82	1,655.15	120.67	14.716	
5,900.00	3,043.93	6,024.70	3,491.99	66.25	64.42	0.31	771.78	-2,713.57	1,776.04	1,650.74	125.31	14.174	
6,000.00	3,041.37	6,124.70	3,490.41	68.57	66.80	0.31	772.74	-2,813.54	1,776.26	1,646.32	129.95	13.669	
6,100.00	3,038.81	6,224.69	3,488.84	70.90	69.19	0.31	773.69	-2,913.52	1,776.49	1,641.89	134.60	13.198	
6,200.00	3,036.25	6,324.69	3,487.26	73.24	71.59	0.31	774.65	-3,013.50	1,776.71	1,637.45	139.25	12.759	
6,300.00	3,033.69	6,424.68	3,485.68	75.59	73.98	0.31	775.61	-3,113.48	1,776.93	1,633.01	143.92	12.347	
6,400.00	3,031.13	6,524.68	3,484.10	77.94	76.39	0.31	776.56	-3,213.46	1,777.15	1,628.57	148.58	11.961	
6,500.00	3,028.57	6,624.67	3,482.52	80.30	78.79	0.31	777.52	-3,313.43	1,777.38	1,624.12	153.25	11.598	
6,600.00	3,026.01	6,724.67	3,480.94	82.66	81.20	0.31	778.47	-3,413.41	1,777.60	1,619.67	157.93	11.256	
6,700.00	3,023.45	6,824.66	3,479.37	85.04	83.61	0.31	779.43	-3,513.39	1,777.82	1,615.21	162.61	10.933	
6,800.00	3,020.88	6,924.66	3,477.79	87.41	86.03	0.31	780.38	-3,613.37	1,778.05	1,610.76	167.29	10.628	
6,900.00	3,018.32	7,024.65	3,476.21	89.79	88.44	0.31	781.34	-3,713.35	1,778.27	1,606.30	171.98	10.340	
7,000.00	3,015.76	7,124.65	3,474.63	92.18	90.86	0.31	782.30	-3,813.32	1,778.50	1,601.83	176.67	10.067	
7,100.00	3,013.20	7,224.64	3,473.05	94.57	93.29	0.31	783.25	-3,913.30	1,778.73	1,597.37	181.36	9.808	
7,200.00	3,010.64	7,324.64	3,471.48	96.96	95.71	0.31	784.21	-4,013.28	1,778.95	1,592.90	186.05	9.562	
7,300.00	3,008.08	7,424.63	3,469.90	99.36	98.14	0.31	785.16	-4,113.26	1,779.18	1,588.44	190.74	9.328	
7,400.00	3,005.52	7,524.63	3,468.32	101.76	100.57	0.30	786.12	-4,213.24	1,779.41	1,583.97	195.44	9.105	
7,500.00	3,002.96	7,624.62	3,466.74	104.16	102.99	0.30	787.08	-4,313.22	1,779.64	1,579.50	200.13	8.892	
7,600.00	3,000.40	7,724.62	3,465.16	106.57	105.43	0.30	788.03	-4,413.19	1,779.86	1,575.03	204.83	8.689	
7,700.00	2,997.84	7,824.61	3,463.58	108.98	107.86	0.30	788.99	-4,513.17	1,780.09	1,570.56	209.53	8.496	
7,800.00	2,995.27	7,924.61	3,462.01	111.39	110.29	0.30	789.94	-4,613.15	1,780.32	1,566.09	214.23	8.310	
7,900.00	2,992.71	8,024.60	3,460.43	113.80	112.73	0.30	790.90	-4,713.13	1,780.55	1,561.62	218.93	8.133	
8,000.00	2,990.15	8,124.60	3,458.85	116.22	115.16	0.30	791.86	-4,813.11	1,780.78	1,557.16	223.63	7.963	
8,100.00	2,987.59	8,224.59	3,457.27	118.63	117.60	0.30	792.81	-4,913.08	1,781.02	1,552.69	228.33	7.800	
8,200.00	2,985.03	8,324.59	3,455.69	121.05	120.04	0.30	793.77	-5,013.06	1,781.25	1,548.22	233.03	7.644	
8,300.00	2,982.47	8,424.59	3,454.11	123.47	122.48	0.30	794.72	-5,113.04	1,781.48	1,543.75	237.73	7.494	
8,400.00	2,979.91	8,524.58	3,452.54	125.89	124.92	0.30	795.68	-5,213.02	1,781.71	1,539.28	242.44	7.349	
8,500.00	2,977.35	8,624.58	3,450.96	128.32	127.36	0.30	796.63	-5,313.00	1,781.95	1,534.81	247.14	7.210	
8,600.00	2,974.79	8,724.57	3,449.38	130.74	129.80	0.30	797.59	-5,412.97	1,782.18	1,530.34	251.84	7.077	
8,700.00	2,972.23	8,824.57	3,447.80	133.17	132.25	0.30	798.55	-5,512.95	1,782.42	1,525.87	256.54	6.948	
8,800.00	2,969.67	8,924.56	3,446.22	135.60	134.69	0.30	799.50	-5,612.93	1,782.65	1,521.41	261.24	6.824	
8,900.00	2,967.10	9,024.56	3,444.64	138.03	137.13	0.30	800.46	-5,712.91	1,782.89	1,516.94	265.94	6.704	
9,000.00	2,964.54	9,124.55	3,443.07	140.46	139.58	0.30	801.41	-5,812.89	1,783.12	1,512.48	270.64	6.588	
9,100.00	2,961.98	9,224.55	3,441.49	142.89	142.02	0.30	802.37	-5,912.87	1,783.36	1,508.01	275.34	6.477	
9,200.00	2,959.42	9,324.54	3,439.91	145.32	144.47	0.30	803.33	-6,012.84	1,783.59	1,503.55	280.04	6.369	
9,216.44	2,959.00	9,325.92	3,439.89	145.72	144.50	0.80	803.34	-6,014.22	1,783.70	1,503.47	280.23	6.365 SF	

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

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COMPASS 5000.17 Build 03

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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	0.67	20.01	0.23	20.01				
100.00	100.00	100.00	100.00	0.95	0.95	0.67	20.01	0.23	20.01	18.11	1.90	10.516	
200.00	200.00	200.00	200.00	1.52	1.52	0.67	20.01	0.23	20.01	16.97	3.05	6.571	
300.00	300.00	300.00	300.00	1.95	1.95	0.67	20.01	0.23	20.01	16.11	3.90	5.127	
400.00	400.00	400.00	400.00	2.30	2.30	0.67	20.01	0.23	20.01	15.40	4.61	4.342	
500.00	500.00	500.00	500.00	2.61	2.61	0.67	20.01	0.23	20.01	14.79	5.23	3.830	
600.00	600.00	600.00	600.00	2.89	2.89	0.67	20.01	0.23	20.01	14.23	5.78	3.462	
700.00	700.00	700.00	700.00	3.15	3.15	0.67	20.01	0.23	20.01	13.72	6.29	3.180	
800.00	800.00	800.00	800.00	3.38	3.38	0.67	20.01	0.23	20.01	13.24	6.77	2.957	
900.00	900.00	900.00	900.00	3.61	3.61	0.67	20.01	0.23	20.01	12.79	7.22	2.773	
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	0.67	20.01	0.23	20.01	12.37	7.64	2.618	
1,100.00	1,100.00	1,100.00	1,100.00	4.02	4.02	0.67	20.01	0.23	20.01	11.96	8.05	2.486	
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	0.67	20.01	0.23	20.01	11.57	8.44	2.371	
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	0.67	20.01	0.23	20.01	11.20	8.82	2.270	
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	0.67	20.01	0.23	20.01	10.83	9.18	2.180	
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	0.67	20.01	0.23	20.01	10.48	9.53	2.099	
1,600.00	1,600.00	1,600.00	1,600.00	4.94	4.94	0.67	20.01	0.23	20.01	10.14	9.87	2.027	
1,700.00	1,700.00	1,700.00	1,700.00	5.10	5.10	0.67	20.01	0.23	20.01	9.80	10.21	1.960	
1,800.00	1,800.00	1,800.00	1,800.00	5.27	5.27	0.67	20.01	0.23	20.01	9.48	10.53	1.900	
1,900.00	1,900.00	1,900.00	1,900.00	5.43	5.43	0.67	20.01	0.23	20.01	9.16	10.85	1.844	
2,000.00	2,000.00	2,000.00	2,000.00	5.58	5.58	0.67	20.01	0.23	20.01	8.85	11.16	1.793	
2,100.00	2,100.00	2,100.00	2,100.00	5.73	5.73	0.67	20.01	0.23	20.01	8.54	11.47	1.745	
2,200.00	2,200.00	2,200.00	2,200.00	5.88	5.88	0.67	20.01	0.23	20.01	8.24	11.77	1.700 CC, ES, SF	
2,300.00	2,299.89	2,299.89	2,299.89	6.15	6.03	3.43	20.01	0.23	23.23	11.07	12.16	1.910	
2,400.00	2,398.42	2,398.42	2,398.42	7.02	6.17	10.33	20.01	0.23	39.45	26.28	13.16	2.997	
2,500.00	2,493.67	2,493.67	2,493.67	7.79	6.31	14.52	20.01	0.23	69.37	55.29	14.08	4.926	
2,600.00	2,583.80	2,583.80	2,583.80	8.47	6.44	16.62	20.01	0.23	112.38	97.48	14.90	7.544	
2,700.00	2,667.05	2,667.05	2,667.05	9.06	6.55	17.73	20.01	0.23	167.57	151.96	15.61	10.736	
2,800.00	2,741.80	2,745.38	2,745.37	9.56	6.62	18.33	19.94	0.03	233.73	217.52	16.21	14.418	
2,900.00	2,806.60	2,835.10	2,834.70	9.97	7.14	17.60	17.26	-7.32	306.21	289.19	17.02	17.992	
3,000.00	2,864.14	2,930.21	2,927.52	10.15	7.88	15.65	10.29	-26.48	379.73	362.08	17.64	21.522	
3,100.00	2,921.49	3,039.32	3,029.58	10.32	8.63	12.36	-2.81	-62.46	447.72	429.47	18.25	24.536	
3,200.00	2,976.29	3,161.06	3,135.10	11.08	9.37	8.24	-23.48	-119.24	510.66	491.65	19.01	26.857	
3,300.00	3,022.74	3,297.78	3,239.47	12.82	10.05	3.81	-53.57	-201.93	568.52	548.19	20.34	27.954	
3,400.00	3,059.33	3,435.74	3,326.17	14.56	10.51	-0.41	-90.19	-302.54	617.95	595.66	22.29	27.722	
3,500.00	3,084.93	3,524.47	3,377.06	16.32	10.63	0.10	-115.05	-370.84	663.09	638.95	24.14	27.471	
3,600.00	3,098.78	3,611.31	3,426.87	18.12	11.60	1.56	-139.38	-437.68	706.12	680.07	26.05	27.109	
3,700.00	3,100.60	3,804.84	3,510.83	19.88	14.87	-5.39	-193.49	-602.37	741.36	711.21	30.14	24.595	
3,800.00	3,098.02	4,005.87	3,533.56	21.65	19.03	-14.67	-245.26	-794.32	757.68	722.18	35.50	21.342	
3,900.00	3,095.42	4,105.54	3,531.91	23.62	21.20	-14.66	-269.37	-891.01	764.77	725.77	39.00	19.610	
4,000.00	3,092.80	4,205.48	3,530.25	25.63	23.42	-14.66	-293.54	-987.97	767.59	725.01	42.57	18.030	
4,100.00	3,090.18	4,305.44	3,528.59	27.66	25.67	-14.66	-317.72	-1,084.94	766.11	719.95	46.16	16.597	
4,200.00	3,087.56	4,391.39	3,527.16	29.70	27.63	-13.40	-338.06	-1,168.44	760.87	711.53	49.34	15.422	
4,300.00	3,084.95	4,466.71	3,525.91	31.75	29.43	-11.16	-353.20	-1,242.21	754.30	702.07	52.23	14.442	
4,400.00	3,082.36	4,542.22	3,524.65	33.81	31.29	-8.91	-365.45	-1,316.70	746.74	691.67	55.06	13.561	
4,500.00	3,079.79	4,617.95	3,523.39	35.82	33.17	-6.65	-374.77	-1,391.84	738.24	680.47	57.77	12.779	
4,600.00	3,077.23	4,700.00	3,522.02	37.77	35.21	-4.96	-381.49	-1,473.59	731.39	670.80	60.59	12.071	
4,700.00	3,074.67	4,770.81	3,520.84	39.78	36.95	-2.09	-384.47	-1,544.33	727.68	664.70	62.98	11.555	
4,765.35	3,072.99	4,821.03	3,520.00	41.11	38.15	-0.58	-384.99	-1,594.53	727.00	662.31	64.69	11.238	
4,800.00	3,072.10	4,851.66	3,519.49	41.83	38.86	-0.18	-384.73	-1,625.16	727.14	661.38	65.76	11.057	
4,900.00	3,069.54	4,951.65	3,517.84	43.92	41.17	-0.18	-383.75	-1,725.13	727.70	658.28	69.41	10.484	
5,000.00	3,066.98	5,051.65	3,516.18	46.05	43.49	-0.18	-382.77	-1,825.11	728.25	655.16	73.09	9.964	

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

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COMPASS 5000.17 Build 03

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset 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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	3,064.42	5,151.64	3,514.52	48.21	45.83	-0.18	-381.79	-1,925.09	728.80	652.02	76.79	9.491	
5,200.00	3,061.86	5,251.64	3,512.87	50.40	48.18	-0.19	-380.81	-2,025.07	729.36	648.85	80.51	9.060	
5,300.00	3,059.30	5,351.63	3,511.21	52.61	50.54	-0.19	-379.83	-2,125.04	729.92	645.68	84.24	8.665	
5,400.00	3,056.74	5,451.63	3,509.55	54.85	52.91	-0.19	-378.85	-2,225.02	730.47	642.49	87.99	8.302	
5,500.00	3,054.18	5,551.63	3,507.90	57.10	55.29	-0.19	-377.87	-2,325.00	731.03	639.29	91.74	7.968	
5,600.00	3,051.62	5,651.62	3,506.24	59.36	57.68	-0.19	-376.89	-2,424.98	731.59	636.08	95.51	7.660	
5,700.00	3,049.06	5,751.62	3,504.58	61.65	60.07	-0.19	-375.91	-2,524.95	732.15	632.87	99.28	7.375	
5,800.00	3,046.49	5,851.61	3,502.93	63.94	62.47	-0.19	-374.93	-2,624.93	732.71	629.65	103.06	7.110	
5,900.00	3,043.93	5,951.61	3,501.27	66.25	64.87	-0.20	-373.95	-2,724.91	733.27	626.43	106.84	6.863	
6,000.00	3,041.37	6,051.61	3,499.61	68.57	67.28	-0.20	-372.98	-2,824.88	733.83	623.20	110.63	6.633	
6,100.00	3,038.81	6,151.60	3,497.96	70.90	69.69	-0.20	-372.00	-2,924.86	734.40	619.98	114.42	6.418	
6,200.00	3,036.25	6,251.60	3,496.30	73.24	72.10	-0.20	-371.02	-3,024.84	734.96	616.75	118.21	6.217	
6,300.00	3,033.69	6,351.59	3,494.64	75.59	74.52	-0.20	-370.04	-3,124.82	735.52	613.52	122.00	6.029	
6,400.00	3,031.13	6,451.59	3,492.99	77.94	76.94	-0.20	-369.06	-3,224.79	736.09	610.29	125.80	5.851	
6,500.00	3,028.57	6,551.59	3,491.33	80.30	79.36	-0.21	-368.08	-3,324.77	736.65	607.06	129.59	5.685	
6,600.00	3,026.01	6,651.58	3,489.67	82.66	81.78	-0.21	-367.10	-3,424.75	737.22	603.83	133.38	5.527	
6,700.00	3,023.45	6,751.58	3,488.01	85.04	84.21	-0.21	-366.12	-3,524.73	737.78	600.61	137.17	5.378	
6,800.00	3,020.88	6,851.57	3,486.36	87.41	86.64	-0.21	-365.14	-3,624.70	738.35	597.38	140.97	5.238	
6,900.00	3,018.32	6,951.57	3,484.70	89.79	89.07	-0.21	-364.16	-3,724.68	738.92	594.16	144.76	5.105	
7,000.00	3,015.76	7,051.57	3,483.04	92.18	91.50	-0.21	-363.18	-3,824.66	739.49	590.94	148.54	4.978	
7,100.00	3,013.20	7,151.56	3,481.39	94.57	93.94	-0.21	-362.20	-3,924.64	740.05	587.72	152.33	4.858	
7,200.00	3,010.64	7,251.56	3,479.73	96.96	96.37	-0.22	-361.22	-4,024.61	740.62	584.51	156.12	4.744	
7,300.00	3,008.08	7,351.55	3,478.07	99.36	98.81	-0.22	-360.24	-4,124.59	741.19	581.30	159.90	4.635	
7,400.00	3,005.52	7,451.55	3,476.42	101.76	101.25	-0.22	-359.26	-4,224.57	741.76	578.09	163.68	4.532	
7,500.00	3,002.96	7,551.54	3,474.76	104.16	103.69	-0.22	-358.28	-4,324.55	742.34	574.88	167.45	4.433	
7,600.00	3,000.40	7,651.54	3,473.10	106.57	106.13	-0.22	-357.30	-4,424.52	742.91	571.68	171.23	4.339	
7,700.00	2,997.84	7,751.54	3,471.45	108.98	108.57	-0.22	-356.32	-4,524.50	743.48	568.48	175.00	4.249	
7,800.00	2,995.27	7,851.53	3,469.79	111.39	111.01	-0.22	-355.34	-4,624.48	744.05	565.29	178.77	4.162	
7,900.00	2,992.71	7,951.53	3,468.13	113.80	113.45	-0.23	-354.36	-4,724.46	744.63	562.10	182.53	4.080	
8,000.00	2,990.15	8,051.52	3,466.48	116.22	115.90	-0.23	-353.38	-4,824.43	745.20	558.91	186.29	4.000	
8,100.00	2,987.59	8,151.52	3,464.82	118.63	118.34	-0.23	-352.40	-4,924.41	745.78	555.73	190.05	3.924	
8,200.00	2,985.03	8,251.52	3,463.16	121.05	120.79	-0.23	-351.42	-5,024.39	746.36	552.55	193.80	3.851	
8,300.00	2,982.47	8,351.51	3,461.51	123.47	123.23	-0.23	-350.44	-5,124.36	746.93	549.38	197.55	3.781	
8,400.00	2,979.91	8,451.51	3,459.85	125.89	125.68	-0.23	-349.46	-5,224.34	747.51	546.21	201.30	3.713	
8,500.00	2,977.35	8,551.50	3,458.19	128.32	128.13	-0.24	-348.48	-5,324.32	748.09	543.05	205.04	3.648	
8,600.00	2,974.79	8,651.50	3,456.54	130.74	130.58	-0.24	-347.50	-5,424.30	748.67	539.89	208.78	3.586	
8,700.00	2,972.23	8,751.50	3,454.88	133.17	133.02	-0.24	-346.52	-5,524.27	749.25	536.73	212.51	3.526	
8,800.00	2,969.67	8,851.49	3,453.22	135.60	135.47	-0.24	-345.54	-5,624.25	749.83	533.58	216.25	3.467	
8,900.00	2,967.10	8,951.49	3,451.57	138.03	137.92	-0.24	-344.56	-5,724.23	750.41	530.43	219.97	3.411	
9,000.00	2,964.54	9,051.48	3,449.91	140.46	140.37	-0.24	-343.58	-5,824.21	750.99	527.29	223.70	3.357	
9,100.00	2,961.98	9,151.48	3,448.25	142.89	142.82	-0.24	-342.60	-5,924.18	751.57	524.16	227.41	3.305	
9,200.00	2,959.42	9,251.48	3,446.59	145.32	145.27	-0.25	-341.62	-6,024.16	752.15	521.02	231.13	3.254	
9,216.44	2,959.00	9,257.20	3,446.50	145.72	145.41	0.83	-341.56	-6,029.88	752.32	521.13	231.20	3.254	

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

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COMPASS 5000.17 Build 03

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 530-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,900.00	3,018.32	3,016.23	3,015.92	89.79	72.02	-58.35	362.73	-5,831.25	2,477.22	2,344.99	132.23	18.734		
7,000.00	3,015.76	3,013.67	3,013.36	92.18	71.96	-57.11	362.73	-5,831.25	2,392.17	2,257.32	134.85	17.739		
7,100.00	3,013.20	3,011.11	3,010.80	94.57	71.91	-55.78	362.73	-5,831.25	2,308.32	2,170.67	137.65	16.770		
7,200.00	3,010.64	3,008.55	3,008.24	96.96	71.85	-54.36	362.73	-5,831.25	2,225.79	2,085.18	140.62	15.829		
7,300.00	3,008.08	3,005.99	3,005.68	99.36	71.80	-52.82	362.73	-5,831.25	2,144.75	2,000.98	143.78	14.917		
7,400.00	3,005.52	3,003.42	3,003.12	101.76	71.74	-51.17	362.73	-5,831.25	2,065.38	1,918.24	147.13	14.037		
7,500.00	3,002.96	3,000.86	3,000.56	104.16	71.69	-49.38	362.73	-5,831.25	1,987.86	1,837.16	150.70	13.191		
7,600.00	3,000.40	2,998.30	2,998.00	106.57	71.63	-47.45	362.73	-5,831.25	1,912.42	1,757.95	154.47	12.380		
7,700.00	2,997.84	2,995.74	2,995.44	108.98	71.58	-45.37	362.73	-5,831.25	1,839.32	1,680.86	158.46	11.607		
7,800.00	2,995.27	2,993.18	2,992.87	111.39	71.52	-43.12	362.73	-5,831.25	1,768.86	1,606.21	162.65	10.875		
7,900.00	2,992.71	2,990.25	2,998.99	113.80	71.65	-40.68	362.69	-5,831.25	1,701.35	1,534.12	167.22	10.174		
8,000.00	2,990.15	2,996.60	2,996.33	116.22	71.59	-38.05	362.71	-5,831.25	1,637.18	1,465.40	171.78	9.531		
8,100.00	2,987.59	2,993.94	2,993.68	118.63	71.54	-35.21	362.73	-5,831.25	1,576.74	1,400.26	176.47	8.935		
8,200.00	2,985.03	2,991.28	2,991.02	121.05	71.48	-32.15	362.75	-5,831.25	1,520.48	1,339.22	181.25	8.389		
8,300.00	2,982.47	2,988.62	2,988.36	123.47	71.43	-28.87	362.76	-5,831.25	1,468.87	1,282.82	186.05	7.895		
8,400.00	2,979.91	2,985.97	2,985.71	125.89	71.37	-25.36	362.78	-5,831.25	1,422.43	1,231.66	190.77	7.456		
8,500.00	2,977.35	2,983.31	2,983.05	128.32	71.32	-21.63	362.80	-5,831.25	1,381.67	1,186.36	195.31	7.074		
8,600.00	2,974.79	2,980.65	2,980.39	130.74	71.26	-17.69	362.81	-5,831.25	1,347.10	1,147.56	199.54	6.751		
8,700.00	2,972.23	2,978.00	2,977.74	133.17	71.21	-13.56	362.83	-5,831.25	1,319.23	1,115.89	203.34	6.488		
8,800.00	2,969.67	2,975.34	2,975.08	135.60	71.15	-9.28	362.85	-5,831.25	1,298.47	1,091.91	206.56	6.286		
8,900.00	2,967.10	2,972.68	2,972.42	138.03	71.10	-4.88	362.86	-5,831.25	1,285.17	1,076.07	209.10	6.146		
9,000.00	2,964.54	2,970.03	2,969.77	140.46	71.04	-0.42	362.88	-5,831.25	1,279.57	1,068.72	210.86	6.068		
9,021.88	2,963.98	2,969.45	2,969.19	140.99	71.03	0.56	362.88	-5,831.25	1,279.39	1,068.26	211.13	6.060 CC, ES		
9,100.00	2,961.98	2,967.37	2,967.11	142.89	70.99	4.05	362.89	-5,831.25	1,281.77	1,069.99	211.77	6.053 SF		
9,200.00	2,959.42	2,964.72	2,964.46	145.32	70.93	8.48	362.91	-5,831.25	1,291.72	1,079.87	211.85	6.097		
9,216.44	2,959.00	2,964.28	2,964.02	145.72	70.92	9.20	362.91	-5,831.25	1,294.09	1,082.31	211.78	6.111		

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

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Horned Frog/Maverick Offsets - McCall #2 - Wellbore #1 - Surveys													Offset Site Error:	0.00 usft
Survey Program: 900-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,700.00	2,997.84	1,125.00	1,124.91	108.98	54.88	-36.92	362.71	-5,493.00	2,469.73	2,365.20	104.53	23.627		
7,800.00	2,995.27	1,125.00	1,124.91	111.39	54.88	-34.00	362.71	-5,493.00	2,429.69	2,324.02	105.67	22.993		
7,900.00	2,992.71	1,125.00	1,124.91	113.80	54.88	-30.86	362.71	-5,493.00	2,393.16	2,286.36	106.80	22.407		
8,000.00	2,990.15	1,125.00	1,124.91	116.22	54.88	-27.49	362.71	-5,493.00	2,360.30	2,252.38	107.92	21.871		
8,100.00	2,987.59	1,125.00	1,124.91	118.63	54.88	-23.90	362.71	-5,493.00	2,331.28	2,222.26	109.02	21.385		
8,200.00	2,985.03	1,125.00	1,124.91	121.05	54.88	-20.09	362.71	-5,493.00	2,306.22	2,196.12	110.10	20.947		
8,300.00	2,982.47	1,125.00	1,124.91	123.47	54.88	-16.09	362.71	-5,493.00	2,285.28	2,174.11	111.17	20.557		
8,400.00	2,979.91	1,125.00	1,124.91	125.89	54.88	-11.91	362.71	-5,493.00	2,268.55	2,156.33	112.21	20.216		
8,500.00	2,977.35	1,125.00	1,124.91	128.32	54.88	-7.59	362.71	-5,493.00	2,256.13	2,142.89	113.24	19.923		
8,600.00	2,974.79	1,125.00	1,124.91	130.74	54.88	-3.17	362.71	-5,493.00	2,248.10	2,133.85	114.25	19.677		
8,700.00	2,972.23	1,125.00	1,124.91	133.17	54.88	1.29	362.71	-5,493.00	2,244.50	2,129.27	115.23	19.479		
8,730.90	2,971.43	1,125.00	1,124.91	133.92	54.88	2.67	362.71	-5,493.00	2,244.28	2,128.76	115.52	19.427	CC, ES	
8,800.00	2,969.67	1,125.00	1,124.91	135.60	54.88	5.74	362.71	-5,493.00	2,245.35	2,129.17	116.17	19.327		
8,900.00	2,967.10	1,125.00	1,124.91	138.03	54.88	10.13	362.71	-5,493.00	2,250.65	2,133.56	117.08	19.223		
9,000.00	2,964.54	1,125.00	1,124.91	140.46	54.88	14.41	362.71	-5,493.00	2,260.36	2,142.42	117.94	19.165		
9,100.00	2,961.98	1,125.00	1,124.91	142.89	54.88	18.54	362.71	-5,493.00	2,274.43	2,155.69	118.74	19.155	SF	
9,200.00	2,959.42	1,125.00	1,124.91	145.32	54.88	22.48	362.71	-5,493.00	2,292.79	2,173.31	119.47	19.191		
9,216.44	2,959.00	1,125.00	1,124.91	145.72	54.88	23.11	362.71	-5,493.00	2,296.21	2,176.62	119.58	19.202		

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

BURNETT OIL CO., INC.

Stryker Directional

Anticollision Report



Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 500-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
6,600.00	3,026.01	3,024.05	3,023.58	82.66	71.85	-90.11	-945.00	-5,831.37	2,408.70	2,317.38	91.32	26.378	
6,700.00	3,023.45	3,021.49	3,021.02	85.04	71.79	-90.14	-945.00	-5,831.37	2,308.74	2,217.51	91.22	25.308	
6,800.00	3,020.88	3,018.93	3,018.48	87.41	71.73	-90.23	-946.98	-5,831.37	2,208.78	2,117.71	91.07	24.254	
6,900.00	3,018.32	3,016.37	3,015.92	89.79	71.66	-90.26	-946.98	-5,831.37	2,108.83	2,017.86	90.96	23.183	
7,000.00	3,015.76	3,013.80	3,013.36	92.18	71.60	-90.30	-946.98	-5,831.37	2,008.87	1,918.02	90.85	22.111	
7,100.00	3,013.20	3,011.24	3,010.80	94.57	71.54	-90.35	-946.98	-5,831.37	1,908.92	1,818.18	90.74	21.038	
7,200.00	3,010.64	3,008.68	3,008.24	96.96	71.48	-90.40	-946.98	-5,831.37	1,808.96	1,718.35	90.61	19.964	
7,300.00	3,008.08	3,006.12	3,005.68	99.36	71.42	-90.46	-946.98	-5,831.37	1,709.01	1,618.53	90.48	18.889	
7,400.00	3,005.52	3,003.56	3,003.12	101.76	71.36	-90.52	-946.98	-5,831.37	1,609.06	1,518.73	90.33	17.813	
7,500.00	3,002.96	3,001.00	3,000.56	104.16	71.30	-90.59	-946.98	-5,831.37	1,509.11	1,418.94	90.17	16.736	
7,600.00	3,000.40	2,998.44	2,998.00	106.57	71.23	-90.67	-946.98	-5,831.37	1,409.17	1,319.17	90.00	15.658	
7,700.00	2,997.84	2,995.88	2,995.44	108.98	71.17	-90.77	-946.98	-5,831.37	1,309.22	1,219.42	89.80	14.579	
7,800.00	2,995.27	2,993.32	2,992.87	111.39	71.11	-90.88	-946.98	-5,831.37	1,209.29	1,119.70	89.59	13.499	
7,900.00	2,992.71	2,990.76	2,990.31	113.80	71.05	-91.01	-946.98	-5,831.37	1,109.35	1,020.02	89.34	12.418	
8,000.00	2,990.15	2,988.20	2,987.75	116.22	70.99	-91.16	-946.98	-5,831.37	1,009.43	920.38	89.05	11.336	
8,100.00	2,987.59	2,985.63	2,985.19	118.63	70.93	-91.35	-946.98	-5,831.37	909.51	820.80	88.71	10.253	
8,200.00	2,985.03	2,983.07	2,982.63	121.05	70.87	-91.59	-946.98	-5,831.37	809.61	721.30	88.30	9.169	
8,300.00	2,982.47	2,980.51	2,980.07	123.47	70.80	-91.89	-946.98	-5,831.37	709.72	621.91	87.81	8.083	
8,400.00	2,979.91	2,977.95	2,977.51	125.89	70.74	-92.30	-946.98	-5,831.37	609.86	522.67	87.19	6.994	
8,500.00	2,977.35	2,975.39	2,974.95	128.32	70.68	-92.86	-946.98	-5,831.37	510.04	423.63	86.41	5.903	
8,600.00	2,974.79	2,972.83	2,972.39	130.74	70.62	-93.69	-946.98	-5,831.37	410.30	324.87	85.43	4.803	
8,700.00	2,972.23	2,970.27	2,969.83	133.17	70.56	-95.06	-946.98	-5,831.37	310.69	226.35	84.34	3.684	
8,800.00	2,969.67	2,967.71	2,967.27	135.60	70.50	-97.71	-946.98	-5,831.37	211.43	126.96	84.47	2.503	
8,900.00	2,967.10	2,965.15	2,964.70	138.03	70.43	-105.00	-946.98	-5,831.37	113.42	17.74	95.69	1.185 Level 2	
9,000.00	2,964.54	2,962.59	2,962.14	140.46	70.37	-162.45	-946.98	-5,831.37	31.83	-167.45	199.28	0.160 Level 1	
9,009.30	2,964.30	2,962.35	2,961.90	140.68	70.37	-179.44	-946.98	-5,831.37	30.44	-179.71	210.15	0.145 Level 1, CC, ES, SF	
9,100.00	2,961.98	2,960.02	2,959.58	142.89	70.31	109.12	-946.98	-5,831.37	95.64	-36.27	131.91	0.725 Level 1	
9,200.00	2,959.42	2,957.46	2,957.02	145.32	70.25	99.63	-946.98	-5,831.37	193.05	82.03	111.02	1.739	
9,216.44	2,959.00	2,957.04	2,956.60	145.72	70.24	98.93	-946.98	-5,831.37	209.30	99.85	109.44	1.912	

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

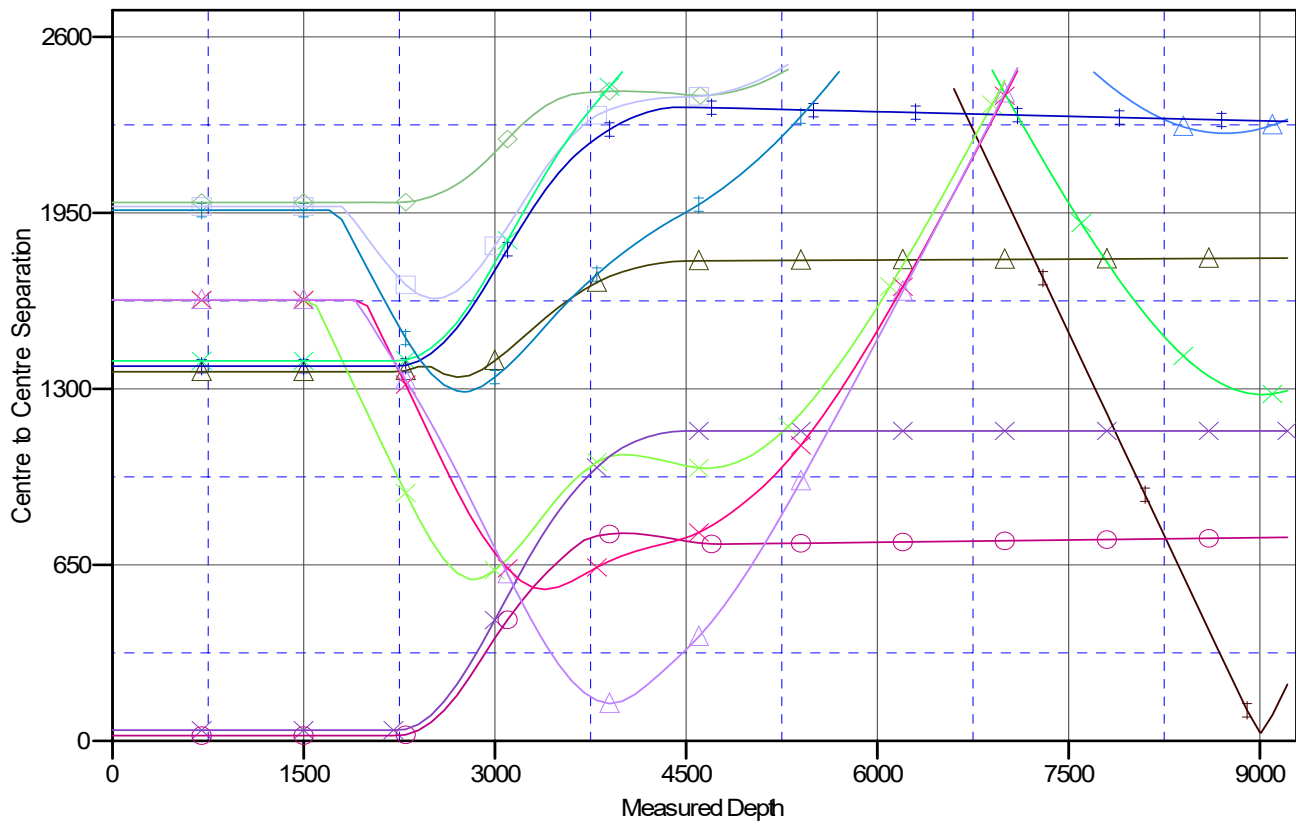
STRYKER
DIRECTIONAL

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB @ 3300.40usft (18' Rig)
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: The Horned Frog #19H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.00°

Ladder Plot



LEGEND

McCall #2, Wellbore #1, Surveys V0	The Aggie #15H, Wellbore #1, Design #1 V0	The Aggie #38H, Wellbore #1, Design #1 V0
McCall #2 (2) Wellbore #1, Surveys V0	The Aggie #17H, Wellbore #1, Design #1 V0	The Aggie #19H, Wellbore #1, Design #1 V0
McCall #1, Wellbore #1, Surveys V0	The Horned Frog #15H, Wellbore #1, Design #1 V0	The Horned Frog #34H, Wellbore #1, Design #1 V0
The Aggie #34H, Wellbore #1, Design #1 V0	The Horned Frog #17H, Wellbore #1, Design #1 V0	The Aggie #36H, Wellbore #1, Design #1 V0
The Horned Frog #36H, Wellbore #1, Design #1 V0	The Horned Frog #38H, Wellbore #1, Design #1 V0	

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

STRYKER
DIRECTIONAL

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well The Horned Frog #19H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Reference Site:	Horned Frog/Aggie Project	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB @ 3300.40usft (18' Rig)

Offset Depths are relative to Offset Datum

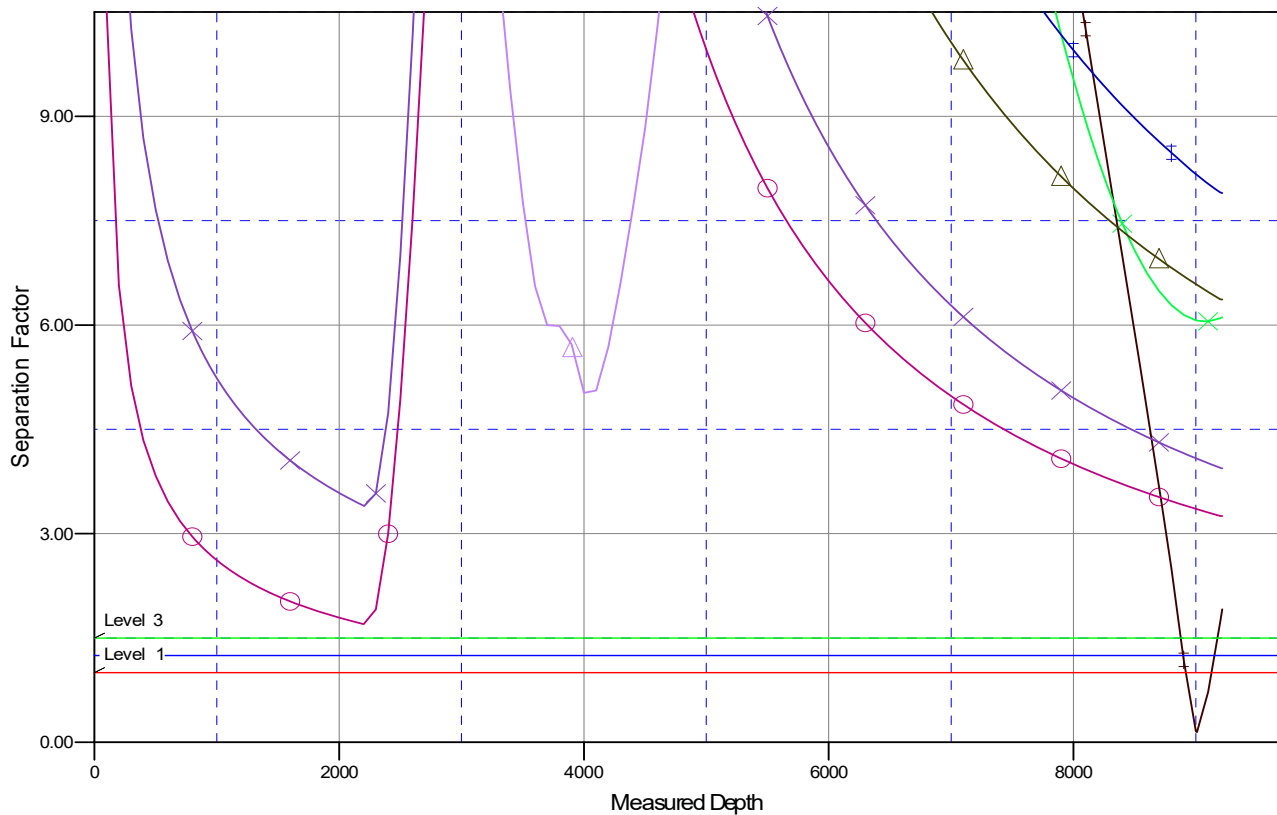
Central Meridian is -104.333334

Coordinates are relative to: The Horned Frog #19H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.00°

Separation Factor Plot



LEGEND

▲ McCall #2, Wellbore #1, Surveys V0	▲ The Aggie #15H, Wellbore #1, Design #1 V0	✖ The Aggie #38H, Wellbore #1, Design #1 V0
✖ McCall #2 (2) Wellbore #1, Surveys V0	✖ The Aggie #17H, Wellbore #1, Design #1 V0	▲ The Aggie #19H, Wellbore #1, Design #1 V0
✖ McCall #1, Wellbore #1, Surveys V0	✖ The Horned Frog #15H, Wellbore #1, Design #1 V0	✖ The Horned Frog #34H, Wellbore #1, Design #1 V0
▲ The Aggie #34H, Wellbore #1, Design #1 V0	✖ The Horned Frog #17H, Wellbore #1, Design #1 V0	▲ The Aggie #36H, Wellbore #1, Design #1 V0
▲ The Horned Frog #36H, Wellbore #1, Design #1 V0	○ The Horned Frog #38H, Wellbore #1, Design #1 V0	

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

12/6/2024 11:09:30AM

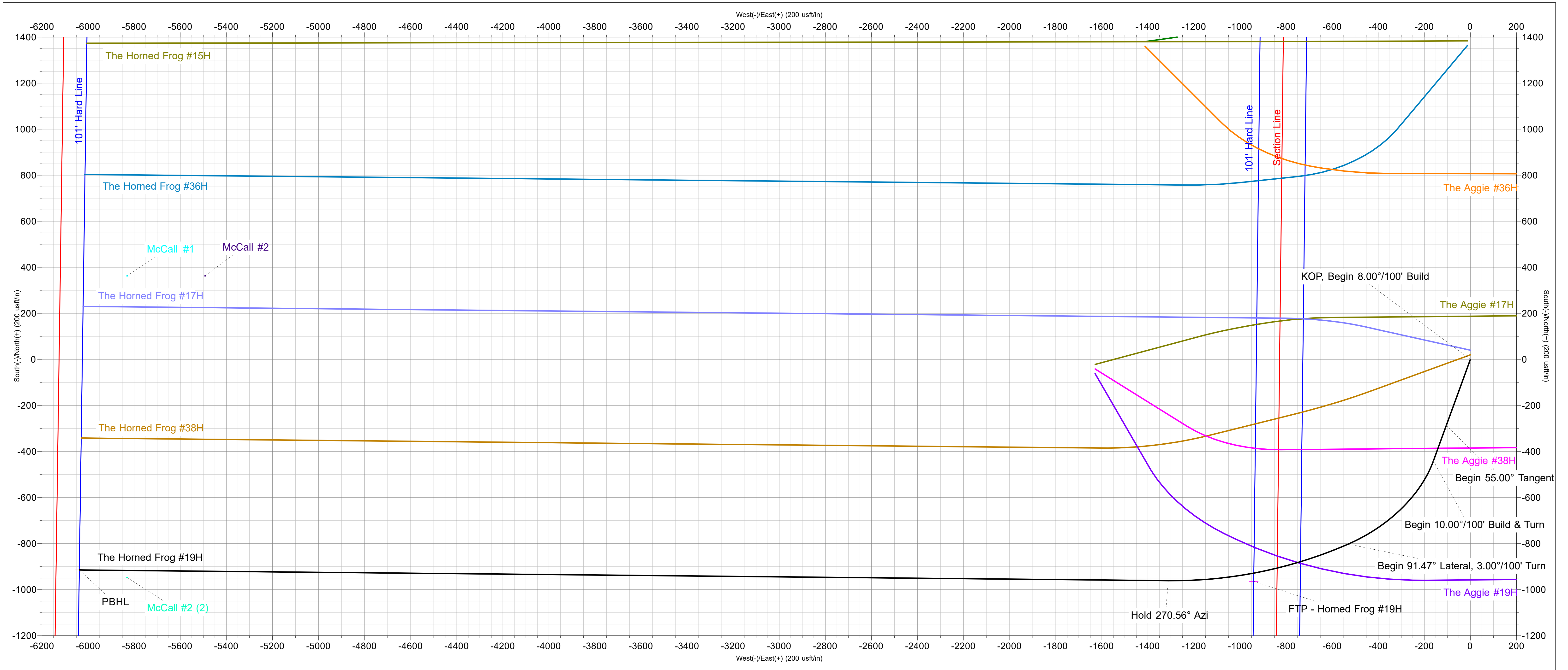
Page 28

COMPASS 5000.17 Build 03

BURNETT OIL CO., INC.

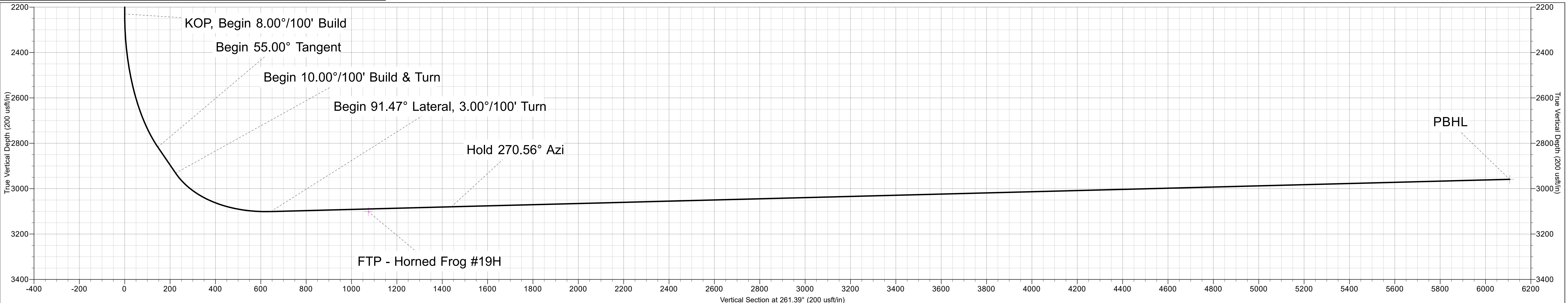
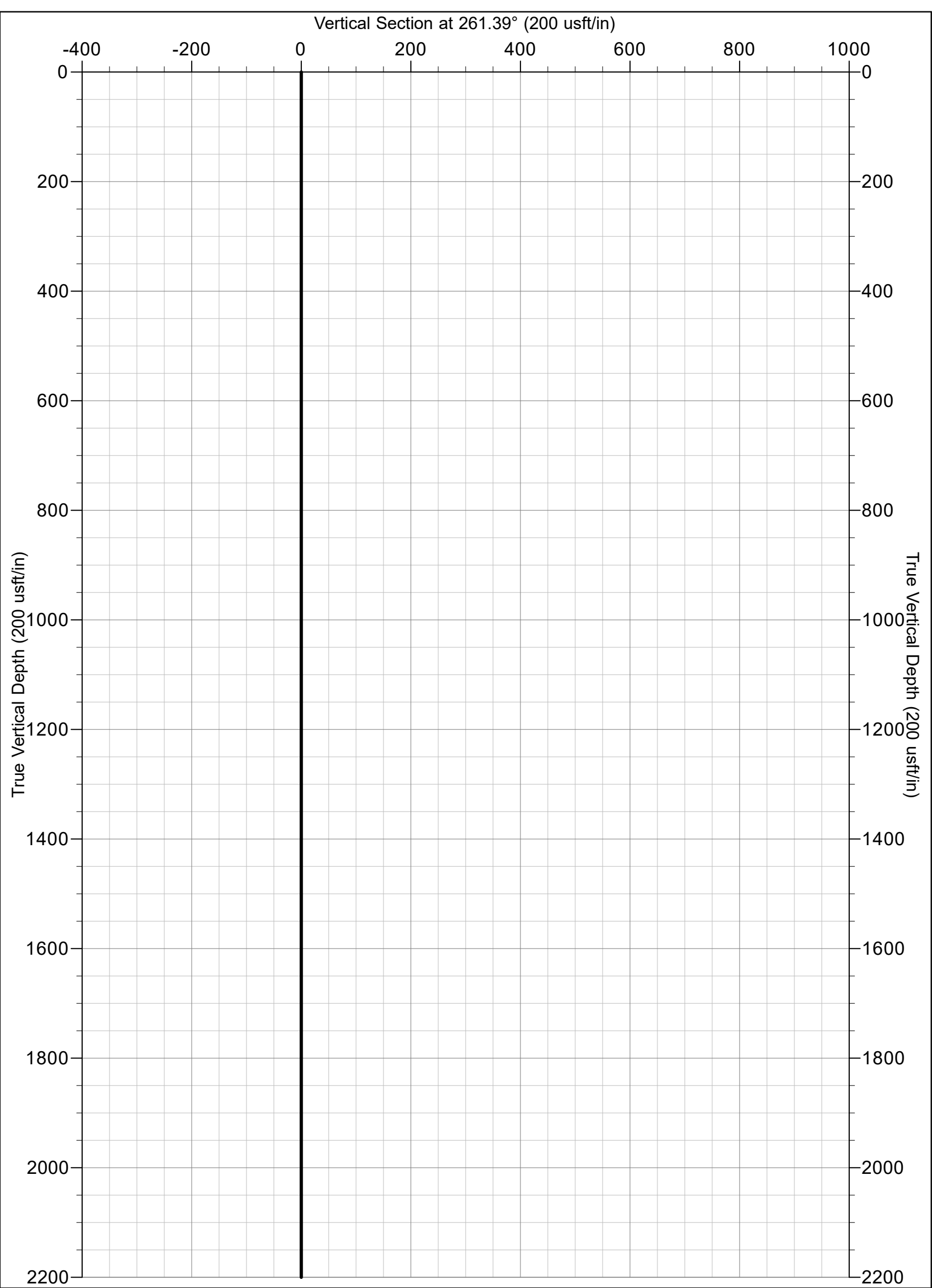
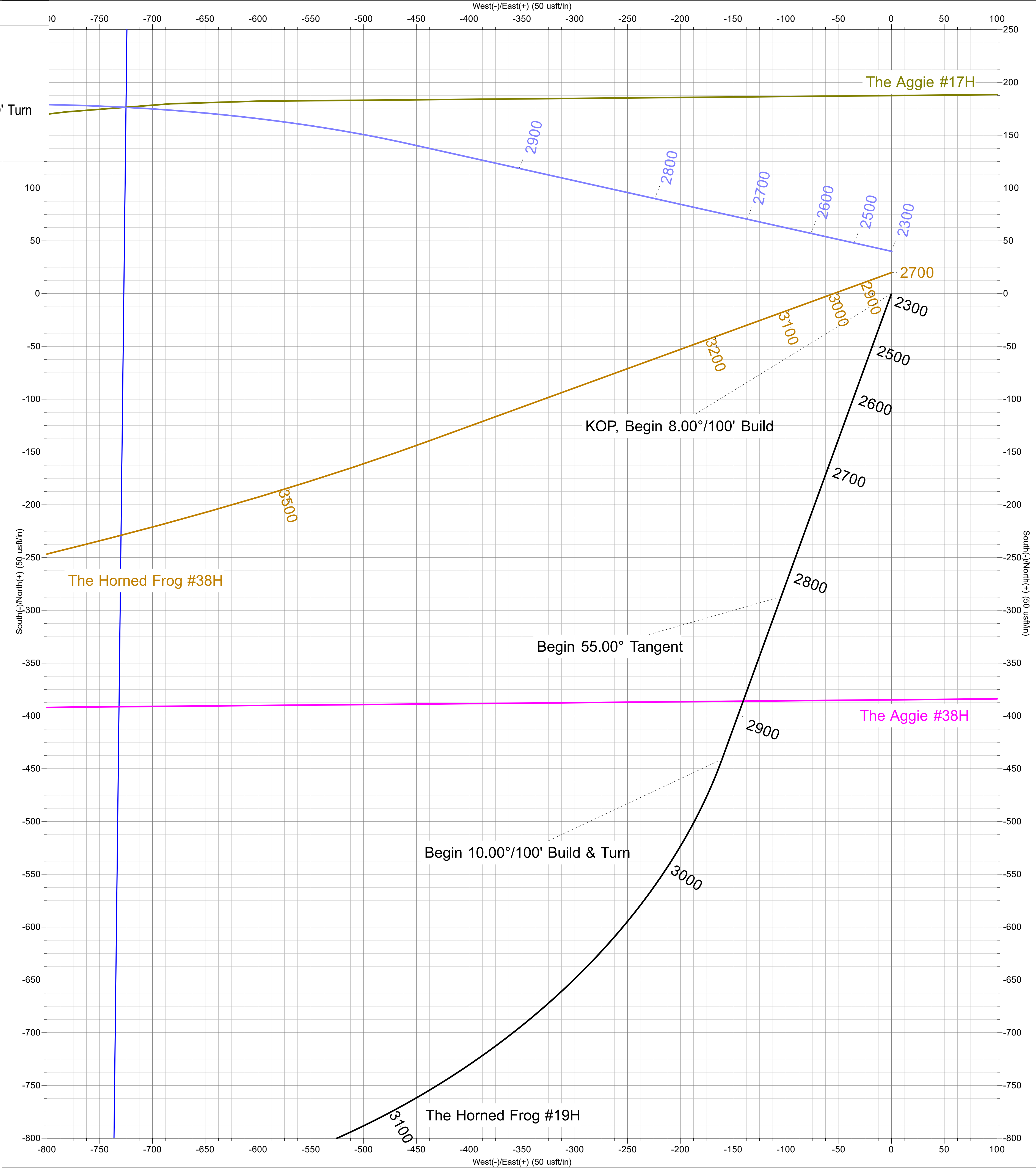
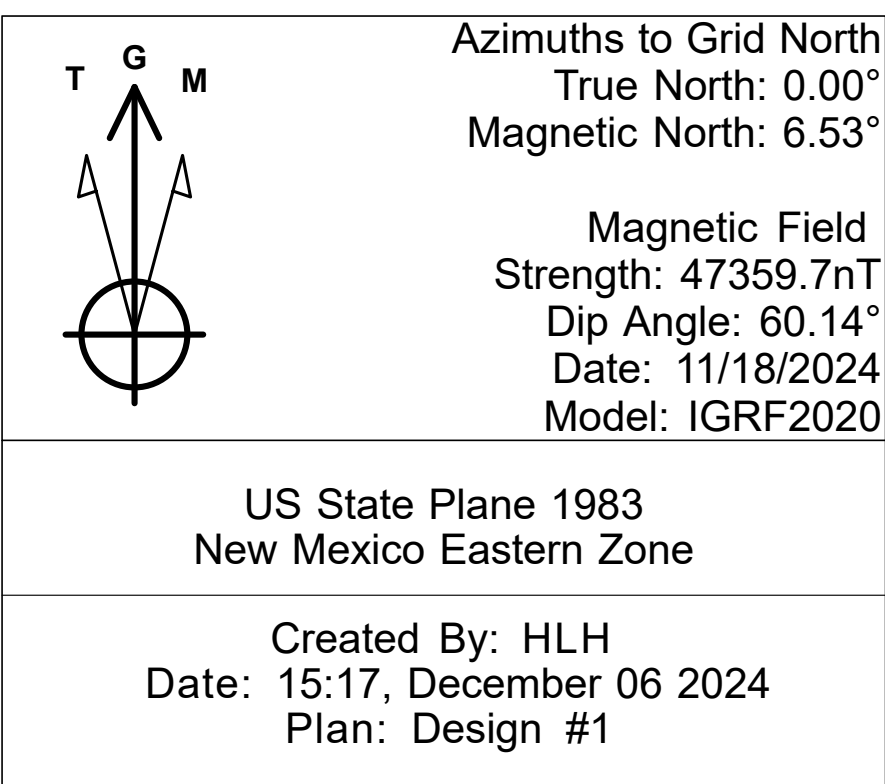
Company: Burnett Oil Company
Site: Horned Frog/Aggie Project
Well: The Horned Frog #19H
Project: Eddy County, New Mexico (NAD83)
Rig: 18' Rig
To convert a Magnetic Direction to a Grid Direction, Add 6.53°

STRYKER
DIRECTIONAL



ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
2230.33	0.00	0.00	2230.33	0.00	0.00	0.00	0.00	KOP, Begin 8.00°/100' Build
2917.83	55.00	200.00	2817.00	-286.99	-104.45	146.25	305.40	Begin 55.00° Tangent
3117.83	55.00	200.00	2931.72	-440.94	-160.49	224.71	469.23	Begin 10.00°/100' Build & Turn
3684.51	91.47	246.45	3101.00	-802.15	-530.17	644.31	999.81	Begin 91.47° Lateral, 3.00°/100' Turn
4488.04	91.47	270.56	3080.09	-961.02	-1311.51	1440.64	1803.06	Hold 270.56° Azi
9216.44	91.47	270.56	2959.00	-914.51	-6038.14	6107.00	6529.92	PBHL



BURNETT OIL CO., INC.

Burnett Oil Company

Eddy County, New Mexico (NAD83)

Horned Frog/Aggie Project

The Horned Frog #19H

Wellbore #1

Plan: Design #1

Standard Planning Report

06 December, 2024



Stryker Directional
Planning Report



Database:	EDM 5000.1 Server	Local Co-ordinate Reference:	Well The Horned Frog #19H
Company:	Burnett Oil Company	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site:	Horned Frog/Aggie Project	North Reference:	Grid
Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Site		Horned Frog/Aggie Project			
Site Position:		Northing:	631,901.37 usft	Latitude:	32.737135
From:	Map	Easting:	544,178.50 usft	Longitude:	-104.324094
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.00 °

Well	The Horned Frog #19H					
Well Position	+N/-S	-2,776.47 usft	Northing:	629,124.89 usft	Latitude:	32.729503
	+E/-W	-13.05 usft	Easting:	544,165.46 usft	Longitude:	-104.324137
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	3,282.40 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/18/2024	6.53	60.14	47,359.65638668

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	261.39

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,230.33	0.00	0.00	2,230.33	0.00	0.00	0.00	0.00	0.00	0.00	
2,917.83	55.00	200.00	2,817.00	-286.99	-104.45	8.00	8.00	0.00	200.00	
3,117.83	55.00	200.00	2,931.72	-440.94	-160.49	0.00	0.00	0.00	0.00	
3,684.51	91.47	246.45	3,101.00	-802.15	-530.17	10.00	6.44	8.20	60.13	
4,488.04	91.47	270.56	3,080.09	-961.02	-1,311.51	3.00	0.00	3.00	89.69	
9,216.44	91.47	270.56	2,959.00	-914.51	-6,038.14	0.00	0.00	0.00	0.00	PBHL - Horned Fro

BURNETT OIL CO., INC.

Stryker Directional Planning Report



Database:	EDM 5000.1 Server	Local Co-ordinate Reference:	Well The Horned Frog #19H
Company:	Burnett Oil Company	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site:	Horned Frog/Aggie Project	North Reference:	Grid
Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,230.33	0.00	0.00	2,230.33	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 8.00°/100' Build									
2,250.00	1.57	200.00	2,250.00	-0.25	-0.09	0.13	8.00	8.00	0.00
2,300.00	5.57	200.00	2,299.89	-3.18	-1.16	1.62	8.00	8.00	0.00
2,350.00	9.57	200.00	2,349.44	-9.37	-3.41	4.78	8.00	8.00	0.00
2,400.00	13.57	200.00	2,398.42	-18.80	-6.84	9.58	8.00	8.00	0.00
2,450.00	17.57	200.00	2,446.57	-31.41	-11.43	16.01	8.00	8.00	0.00
2,500.00	21.57	200.00	2,493.67	-47.15	-17.16	24.03	8.00	8.00	0.00
2,550.00	25.57	200.00	2,539.49	-65.93	-24.00	33.60	8.00	8.00	0.00
2,600.00	29.57	200.00	2,583.80	-87.68	-31.91	44.68	8.00	8.00	0.00
2,650.00	33.57	200.00	2,626.39	-112.27	-40.86	57.22	8.00	8.00	0.00
2,700.00	37.57	200.00	2,667.05	-139.60	-50.81	71.14	8.00	8.00	0.00
2,750.00	41.57	200.00	2,705.59	-169.53	-61.70	86.39	8.00	8.00	0.00
2,800.00	45.57	200.00	2,741.80	-201.91	-73.49	102.89	8.00	8.00	0.00
2,850.00	49.57	200.00	2,775.53	-236.58	-86.11	120.56	8.00	8.00	0.00
2,900.00	53.57	200.00	2,806.60	-273.38	-99.50	139.32	8.00	8.00	0.00
2,917.83	55.00	200.00	2,817.00	-286.99	-104.45	146.25	8.00	8.00	0.00
Begin 55.00° Tangent									
3,000.00	55.00	200.00	2,864.14	-350.24	-127.48	178.49	0.00	0.00	0.00
3,100.00	55.00	200.00	2,921.49	-427.21	-155.49	217.71	0.00	0.00	0.00
3,117.83	55.00	200.00	2,931.72	-440.94	-160.49	224.71	0.00	0.00	0.00
Begin 10.00°/100' Build & Turn									
3,150.00	56.65	203.34	2,949.79	-465.66	-170.32	238.13	10.00	5.12	10.38
3,200.00	59.38	208.28	2,976.29	-503.80	-188.80	262.11	10.00	5.46	9.88
3,250.00	62.28	212.94	3,000.67	-541.35	-211.04	289.73	10.00	5.81	9.32
3,300.00	65.34	217.36	3,022.74	-578.00	-236.88	320.76	10.00	6.11	8.83
3,350.00	68.51	221.55	3,042.35	-613.49	-266.11	354.98	10.00	6.35	8.40
3,400.00	71.79	225.57	3,059.33	-647.54	-298.52	392.12	10.00	6.55	8.03
3,450.00	75.14	229.44	3,073.56	-679.90	-333.86	431.91	10.00	6.71	7.73
3,500.00	78.56	233.18	3,084.93	-710.32	-371.86	474.03	10.00	6.84	7.49

BURNETT OIL CO., INC.

Stryker Directional Planning Report



Database:	EDM 5000.1 Server	Local Co-ordinate Reference:	Well The Horned Frog #19H
Company:	Burnett Oil Company	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site:	Horned Frog/Aggie Project	North Reference:	Grid
Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,550.00	82.03	236.84	3,093.36	-738.56	-412.23	518.18	10.00	6.93	7.31
3,600.00	85.53	240.44	3,098.78	-764.41	-454.66	564.00	10.00	6.99	7.19
3,650.00	89.04	244.00	3,101.15	-787.69	-498.83	611.16	10.00	7.03	7.12
3,684.51	91.47	246.45	3,101.00	-802.15	-530.17	644.31	10.00	7.04	7.10
Begin 91.47° Lateral, 3.00°/100' Turn									
3,700.00	91.47	246.91	3,100.60	-808.27	-544.38	659.28	3.00	0.02	3.00
3,800.00	91.49	249.92	3,098.02	-845.05	-637.33	756.69	3.00	0.01	3.00
3,900.00	91.50	252.92	3,095.42	-876.90	-732.07	855.13	3.00	0.01	3.00
4,000.00	91.50	255.92	3,092.80	-903.75	-828.35	954.35	3.00	0.01	3.00
4,100.00	91.50	258.92	3,090.18	-925.52	-925.91	1,054.06	3.00	0.00	3.00
4,200.00	91.50	261.92	3,087.56	-942.16	-1,024.47	1,154.00	3.00	0.00	3.00
4,300.00	91.49	264.92	3,084.95	-953.61	-1,123.76	1,253.89	3.00	-0.01	3.00
4,400.00	91.48	267.92	3,082.36	-959.85	-1,223.52	1,353.46	3.00	-0.01	3.00
4,488.04	91.47	270.56	3,080.09	-961.02	-1,311.51	1,440.64	3.00	-0.01	3.00
Hold 270.56° Azi									
4,500.00	91.47	270.56	3,079.79	-960.90	-1,323.47	1,452.44	0.00	0.00	0.00
4,600.00	91.47	270.56	3,077.23	-959.91	-1,423.44	1,551.13	0.00	0.00	0.00
4,700.00	91.47	270.56	3,074.67	-958.93	-1,523.40	1,649.82	0.00	0.00	0.00
4,800.00	91.47	270.56	3,072.10	-957.95	-1,623.36	1,748.51	0.00	0.00	0.00
4,900.00	91.47	270.56	3,069.54	-956.96	-1,723.32	1,847.19	0.00	0.00	0.00
5,000.00	91.47	270.56	3,066.98	-955.98	-1,823.29	1,945.88	0.00	0.00	0.00
5,100.00	91.47	270.56	3,064.42	-955.00	-1,923.25	2,044.57	0.00	0.00	0.00
5,200.00	91.47	270.56	3,061.86	-954.01	-2,023.21	2,143.26	0.00	0.00	0.00
5,300.00	91.47	270.56	3,059.30	-953.03	-2,123.17	2,241.95	0.00	0.00	0.00
5,400.00	91.47	270.56	3,056.74	-952.05	-2,223.13	2,340.63	0.00	0.00	0.00
5,500.00	91.47	270.56	3,054.18	-951.06	-2,323.10	2,439.32	0.00	0.00	0.00
5,600.00	91.47	270.56	3,051.62	-950.08	-2,423.06	2,538.01	0.00	0.00	0.00
5,700.00	91.47	270.56	3,049.06	-949.10	-2,523.02	2,636.70	0.00	0.00	0.00
5,800.00	91.47	270.56	3,046.49	-948.11	-2,622.98	2,735.39	0.00	0.00	0.00
5,900.00	91.47	270.56	3,043.93	-947.13	-2,722.95	2,834.07	0.00	0.00	0.00
6,000.00	91.47	270.56	3,041.37	-946.14	-2,822.91	2,932.76	0.00	0.00	0.00
6,100.00	91.47	270.56	3,038.81	-945.16	-2,922.87	3,031.45	0.00	0.00	0.00
6,200.00	91.47	270.56	3,036.25	-944.18	-3,022.83	3,130.14	0.00	0.00	0.00
6,300.00	91.47	270.56	3,033.69	-943.19	-3,122.80	3,228.83	0.00	0.00	0.00
6,400.00	91.47	270.56	3,031.13	-942.21	-3,222.76	3,327.51	0.00	0.00	0.00
6,500.00	91.47	270.56	3,028.57	-941.23	-3,322.72	3,426.20	0.00	0.00	0.00
6,600.00	91.47	270.56	3,026.01	-940.24	-3,422.68	3,524.89	0.00	0.00	0.00
6,700.00	91.47	270.56	3,023.45	-939.26	-3,522.65	3,623.58	0.00	0.00	0.00
6,800.00	91.47	270.56	3,020.88	-938.28	-3,622.61	3,722.26	0.00	0.00	0.00
6,900.00	91.47	270.56	3,018.32	-937.29	-3,722.57	3,820.95	0.00	0.00	0.00
7,000.00	91.47	270.56	3,015.76	-936.31	-3,822.53	3,919.64	0.00	0.00	0.00
7,100.00	91.47	270.56	3,013.20	-935.33	-3,922.49	4,018.33	0.00	0.00	0.00
7,200.00	91.47	270.56	3,010.64	-934.34	-4,022.46	4,117.02	0.00	0.00	0.00
7,300.00	91.47	270.56	3,008.08	-933.36	-4,122.42	4,215.70	0.00	0.00	0.00
7,400.00	91.47	270.56	3,005.52	-932.37	-4,222.38	4,314.39	0.00	0.00	0.00
7,500.00	91.47	270.56	3,002.96	-931.39	-4,322.34	4,413.08	0.00	0.00	0.00
7,600.00	91.47	270.56	3,000.40	-930.41	-4,422.31	4,511.77	0.00	0.00	0.00
7,700.00	91.47	270.56	2,997.84	-929.42	-4,522.27	4,610.46	0.00	0.00	0.00
7,800.00	91.47	270.56	2,995.27	-928.44	-4,622.23	4,709.14	0.00	0.00	0.00
7,900.00	91.47	270.56	2,992.71	-927.46	-4,722.19	4,807.83	0.00	0.00	0.00
8,000.00	91.47	270.56	2,990.15	-926.47	-4,822.16	4,906.52	0.00	0.00	0.00
8,100.00	91.47	270.56	2,987.59	-925.49	-4,922.12	5,005.21	0.00	0.00	0.00
8,200.00	91.47	270.56	2,985.03	-924.51	-5,022.08	5,103.90	0.00	0.00	0.00
8,300.00	91.47	270.56	2,982.47	-923.52	-5,122.04	5,202.58	0.00	0.00	0.00

Stryker Directional
Planning Report



Database:	EDM 5000.1 Server	Local Co-ordinate Reference:	Well The Horned Frog #19H
Company:	Burnett Oil Company	TVD Reference:	RKB @ 3300.40usft (18' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3300.40usft (18' Rig)
Site:	Horned Frog/Aggie Project	North Reference:	Grid
Well:	The Horned Frog #19H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,400.00	91.47	270.56	2,979.91	-922.54	-5,222.01	5,301.27	0.00	0.00	0.00
8,500.00	91.47	270.56	2,977.35	-921.56	-5,321.97	5,399.96	0.00	0.00	0.00
8,600.00	91.47	270.56	2,974.79	-920.57	-5,421.93	5,498.65	0.00	0.00	0.00
8,700.00	91.47	270.56	2,972.23	-919.59	-5,521.89	5,597.34	0.00	0.00	0.00
8,800.00	91.47	270.56	2,969.67	-918.60	-5,621.86	5,696.02	0.00	0.00	0.00
8,900.00	91.47	270.56	2,967.10	-917.62	-5,721.82	5,794.71	0.00	0.00	0.00
9,000.00	91.47	270.56	2,964.54	-916.64	-5,821.78	5,893.40	0.00	0.00	0.00
9,100.00	91.47	270.56	2,961.98	-915.65	-5,921.74	5,992.09	0.00	0.00	0.00
9,200.00	91.47	270.56	2,959.42	-914.67	-6,021.70	6,090.78	0.00	0.00	0.00
9,216.44	91.47	270.56	2,959.00	-914.51	-6,038.14	6,107.00	0.00	0.00	0.00
PBHL									

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- hit/miss target										
- Shape										
PBHL - Horned Frog #	0.00	0.00	2,959.00	-914.51	-6,038.14	628,210.39	538,127.32	32.726989		-104.343773
- plan hits target center										
- Point										
FTP - Horned Frog #1	0.00	0.00	3,101.00	-964.35	-940.30	628,160.55	543,225.15	32.726853		-104.327195
- plan misses target center by 37.24usft at 4120.37usft MD (3089.65 TVD, -929.33 N, -945.91 E)										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,230.33	2,230.33	0.00	0.00	KOP, Begin 8.00°/100' Build	
2,917.83	2,817.00	-286.99	-104.45	Begin 55.00° Tangent	
3,117.83	2,931.72	-440.94	-160.49	Begin 10.00°/100' Build & Turn	
3,684.51	3,101.00	-802.15	-530.17	Begin 91.47° Lateral, 3.00°/100' Turn	
4,488.04	3,080.09	-961.02	-1,311.51	Hold 270.56° Azi	
9,216.44	2,959.00	-914.51	-6,038.14	PBHL	

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Burnett Oil Co., Inc. **OGRID:** 03080 **Date:** 12/10/2024

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: This NGMP replaces a previously submitted plan (Horned Frog Battery) to reflect change from 6 wells per section to 9 wells per section. The wells names have been changed and are reflected here.

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated
						Produced Water BBL/D
THE HORNED FROG #11H	30-015-54438	D-19-18S-27E	1246 FNL 809 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE HORNED FROG #32H	30-015-54437	D-19-18S-27E	1266 FNL 809 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE HORNED FROG #13H	30-015-54439	D-19-18S-27E	1286 FNL 809 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE HORNED FROG #17H	30-015-54684	M-19-18S-27E	1348 FSL 828 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE HORNED FROG #38H	30-015-54685	M-19-18S-27E	1328 FSL 828 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE HORNED FROG #19H	30-015-54686	M-19-18S-27E	1308FSL 828FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE HORNED FROG #34H	TBD	E-19-18S-27E	2618 FNL 800 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE HORNED FROG #15H	TBD	E-19-18S-27E	2638 FNL 800 FWL	550 BBL/D	550 MCF/D	2500 BBL/D
THE HORNED FROG #36H	TBD	L-19-18S-27E	2658 FSL 800 FWL	550 BBL/D	550 MCF/D	2500 BBL/D

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

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

Well Name	API	TD Reached		Completion		Initial Flow	First Production
		Spud Date	Date	Commencement Date	Back Date	Date	
THE HORNED FROG #11H	30-015-54438	7/15/2025	7/24/2025	9/08/2025	9/22/2025	9/22/2025	
THE HORNED FROG #32H	30-015-54437	7/25/2025	8/03/2025	9/12/2025	9/28/2025	9/28/2025	

THE HORNE FROG #17H	30-015-54684	8/04/25	8/14/2025	9/16/2025	10/2/2025	10/09/25
THE HORNE FROG #38H	30-015-54685	9/15/25	9/25/25	11/1/25	11/16/25	11/16/25
THE HORNE FROG #19H	30-015-54686	9/26/25	10/05/25	11/04/25	11/20/25	11/20/25
THE HORNE FROG #34H	TBD	10/06/25	10/16/25	11/08/25	11/25/25	11/25/25
THE HORNE FROG #15H	TBD	11/01/25	11/11/25	12/15/25	12/31/25	12/31/25
THE HORNE FROG #36H	TBD	11/12/25	11/22/25	12/19/25	01/05/26	01/05/26
		01/02/26	01/12/26	02/21/26	03/07/26	03/07/26

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

19/2023

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: <i>Randy Bolles</i>
Printed Name: Randy Bolles
Title: Regulatory Consultant
E-mail Address: rbolles@cox.net
Date: 12/10/2024
Phone: 405-738-0183
OIL CONSERVATION DMSION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

NATURAL GAS MANAGEMENT PLAN

Section 1 – Attachments

Company: Burnett Oil Co., Inc. Well Name: THE HORNEF FROG 11H API 30-015-54438

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

- A. This well will be added to an existing tank battery.
- B. The engineered system is designed to handle 11,500 MCF/D. It will produce through the following vessels:
 - 1. 2-phase separator,
 - 2. free-water knockout,
 - 3. heater treater, and then finally a
 - 4. 2-phase gas scrubber.
- C. Current battery throughput is 0 MCF/D.
- D. The referenced well is anticipated to produce a maximum of 550 MCF/D for a total throughput of 550 MCF/D.

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

- A. In all circumstances, the operator shall flare rather than vent natural gas except when flaring is technically infeasible or would pose a risk to safe operations or personnel safety, and venting is a safer alternative than flaring.
- B. During drilling operations a mud/gas separator will be on location. If needed, it will be utilized to capture natural gas for purposes of flaring. If flaring is required, a properly-sized flare stack will be at a minimum of 100' from the nearest surface hole location unless otherwise approved by the division.
- C. Venting and flaring during completion or recompletion operations
 - 1. During completion or recompletion, gas is trapped/retained in the wellbore through use of properly weighted "kill" fluids.
 - 2. During the completion phase, the well will be routed directly into an existing battery. With this initial flowback already being connected to the existing battery, all flowback gasses will be routed, if applicable, only to flare. No venting will occur during this initial flowback period. As soon as it is feasible, the existing separation will be utilized.
- D. Equipment redundancies within the system, along with the overall battery design, enables us to service equipment without interruption to gas flow in most scenarios. With the existing battery compression at this

facility, in most cases we can avoid flaring during times of elevated transmission line pressures caused by mid-stream maintenance. Additionally, we have gas takeaway with two (2) midstream companies to try and keep gas going to sales in case one of them has a problem.

E. Performance Standards

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

F. Measurement or estimation of vented and flared natural gas

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

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

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

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 410767

CONDITIONS

Operator: BURNETT OIL CO INC 801 Cherry Street Unit #9 Fort Worth, TX 76102	OGRID: 3080
	Action Number: 410767
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	12/22/2024