

District I

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

District II

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

District III

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

District IV

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

Form C-101
August 1, 2011

Permit 363961

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

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

1. Operator Name and Address MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241		2. OGRID Number 14744
		3. API Number 30-025-52838
4. Property Code 325675	5. Property Name NORTH WILSON DEEP UNIT	6. Well No. 008H

7. Surface Location

UL - Lot P	Section 18	Township 21S	Range 35E	Lot Idn p	Feet From 240	N/S Line S	Feet From 1220	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot B	Section 7	Township 21S	Range 35E	Lot Idn B	Feet From 100	N/S Line N	Feet From 2100	E/W Line E	County Lea
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9. Pool Information

ILLINOIS CAMP;BONE SPRING	33590
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3651
16. Multiple N	17. Proposed Depth 20306	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 8/7/2022
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1835	1280	0
Int3	12.25	9.625	40	5200	0	0
Int1	12.25	9.625	36	3400	0	0
Int1	12.25	9.62	40	5575	1140	0
Int2	12.25	9.62	40	4350	0	0
Prod	8.75	7	26	10400	750	4250
Prod	8.75	7	26	9000	0	0
Liner1	6.125	4.5	13.5	20306	690	9500

Casing/Cement Program: Additional Comments

MOC proposed to drill & test the Bone Springs formation. H2S rule 118 does not apply because MOC has researched the area & no high concentrations were found. Will have on location & working all H2S safety equipment before Yates formation for safety & insurance purposes. Will stimulate as needed for production.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	2500	SCHAFFER
Double Ram	5000	5000	SCHAFFER
Annular	5000	2500	SCHAFFER

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Monty Whetstone	Approved By: Paul F Kautz	
Title: Vice President Operations	Title: Geologist	
Email Address: fking@mewbourne.com	Approved Date: 4/24/2024	Expiration Date: 4/24/2026
Date: 4/17/2024	Phone: 903-561-2900	Conditions of Approval Attached

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

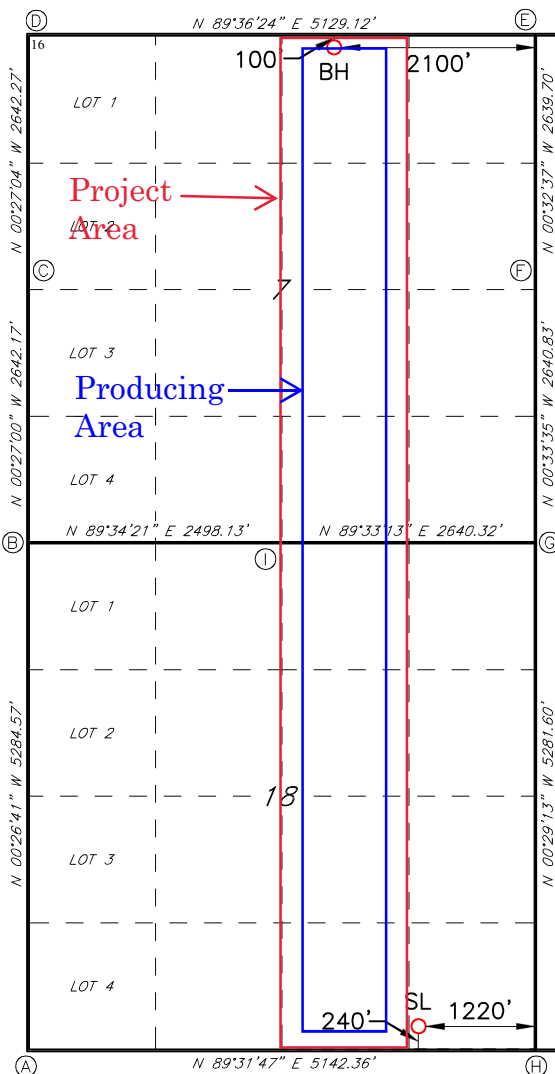
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 97704		³ Pool Name Wilson; Bone Spring, North					
⁴ Property Code		⁵ Property Name NORTH WILSON DEEP UNIT						⁶ Well Number 8H	
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY						⁹ Elevation 3651'	
¹⁰ Surface Location									
UL or lot no. P	Section 18	Township 21S	Range 35E	Lot Idn	Feet from the 240	North/South line SOUTH	Feet From the 1220	East/West line EAST	County LEA
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. B	Section 7	Township 21S	Range 35E	Lot Idn	Feet from the 100	North/South line NORTH	Feet from the 2100	East/West line EAST	County LEA
¹² Dedicated Acres		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



GEODETTIC DATA
NAD 83 GRID - NM EAST
SURFACE LOCATION
N: 536854.0 - E: 828494.4
LAT: 32.4724306° N
LONG: 103.4021966° W
BOTTOM HOLE
N: 547069.6 - E: 827521.8
LAT: 32.5005309° N
LONG: 103.4050617° W
CORNER DATA
NAD 83 GRID - NM EAST
A: FOUND 3/4" REBAR
N: 536581.8 - E: 824574.8
B: CALCULATED CORNER
N: 541865.4 - E: 824533.8
C: FOUND REBAR W/YELLOW
PLASTIC CAP STAMPED "NMPS 676"
N: 544507.0 - E: 824513.1
D: FOUND 2" PIPE
N: 547148.8 - E: 824492.3
E: FOUND 12"x6"x4"
LIMESTONE ROCK
N: 547184.0 - E: 829620.4
F: FOUND 1/2" REBAR
N: 544544.8 - E: 829645.5
G: CALCULATED CORNER
N: 541904.6 - E: 829671.3
H: FOUND 3/4" REBAR
N: 536624.0 - E: 829716.2
I: FOUND 1/2" REBAR
N: 541884.0 - E: 827031.5

17 OPERATOR CERTIFICATION

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

Carter Crook 4/16/2024
Signature Date

Carter Crook

Printed Name

ccrook@mewbourne.com

E-mail Address

18 SURVEYOR CERTIFICATION

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.

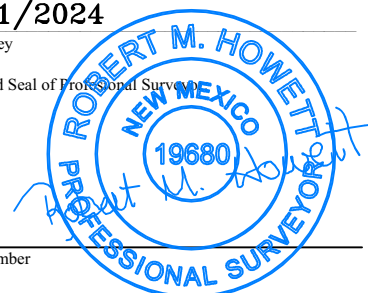
04/01/2024

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number



Job No: LS24040248

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

Form APD Conditions
Permit 363961

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241	API Number: 30-025-52838
	Well: NORTH WILSON DEEP UNIT #008H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud



Mewbourne Oil Co.

BOP Break Testing Variance

Mewbourne Oil Company requests a variance from the minimum standards for well control equipment testing of 43 CFR 3172 to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with batch drilling & offline cementing operations. Modern rig upgrades which facilitate pad drilling allow the BOP stack to be moved between wells on a multi-well pad without breaking any BOP stack components apart. Widespread use of these technologies has led to break testing BOPE being endorsed as safe and reliable. American Petroleum Institute (API) best practices are frequently used by regulators to develop their regulations. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (5th Ed., Dec. 2018) Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component."

Procedures

1. Full BOPE test at first installation on the pad.
 - Full BOPE test at least every 21 days.
 - Function test BOP elements per 43 CFR 3172.
 - Contact the BLM if a well control event occurs.
2. After the well section is secured and the well is confirmed to be static, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. Two breaks on the BOPE will be made (Fig. 1).
 - Connection between the flex line and the HCR valve
 - Connection between the wellhead and the BOP quick connect (Fig. 5 & 6).
3. A capping flange will be installed after cementing per wellhead vendor procedure & casing pressure will be monitored via wellhead valve.
4. The BOP will be removed and carried by a hydraulic carrier (Fig. 3 & 4).
5. The rig will then walk to the next well.
6. Confirm that the well is static and remove the capping flange.
7. The connection between the flex line and HCR valve and the connection between the wellhead and the BOP quick connect will be reconnected.
8. Install a test plug into the wellhead.
9. A test will then be conducted against the upper pipe rams and choke, testing both breaks (Fig. 1 & 2).
10. The test will be held at 250 psi low and to the high value submitted in the APD, not to exceed 5000 psi.
11. The annular, blind rams and lower pipe rams will then be function tested.
12. If a pad consists of three or more wells, steps 4 through 11 will be repeated.



13. A break test will only be conducted if the intermediate section can be drilled and cased within 21 days of the last full BOPE test.

Barriers

Before Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- Offline cementing tool and/or cement head
- Capping flange after cementing

Summary

A variance is requested to only test broken pressure seals on the BOPE when moving between wells on a multi-well pad if the following conditions are met:

- A full BOPE test is conducted on the first well on the pad. API Standard 53 requires testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater.
- If the first well on the pad is not the well with the deepest intermediate section, a full BOPE test will also be performed when moving to a deeper well.
- The hole section being drilled has a MASP under 5000 psi.
- If a well control event occurs, Mewbourne will contact BLM for permission to continue break testing.
- If significant (>50%) losses occur, full BOPE testing will be required going forward.
- Full BOPE test will be required prior to drilling the production hole.

While walking the rig, the BOP stack will be secured via hydraulic winch or hydraulic carrier. A full BOPE test will be performed at least every 21 days.

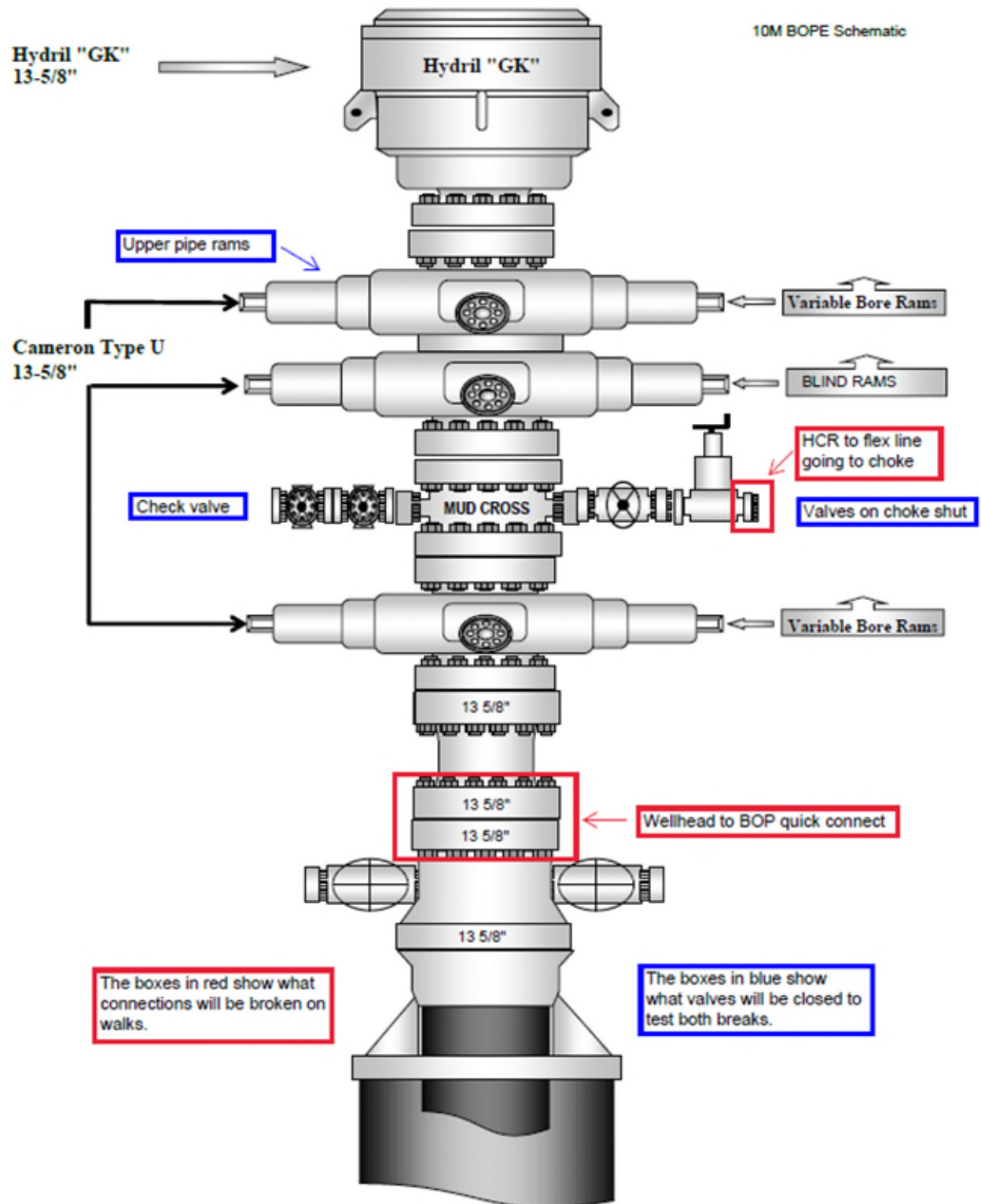


Figure 1. BOP diagram



5M BOPE & Closed Loop Equipment Schematic

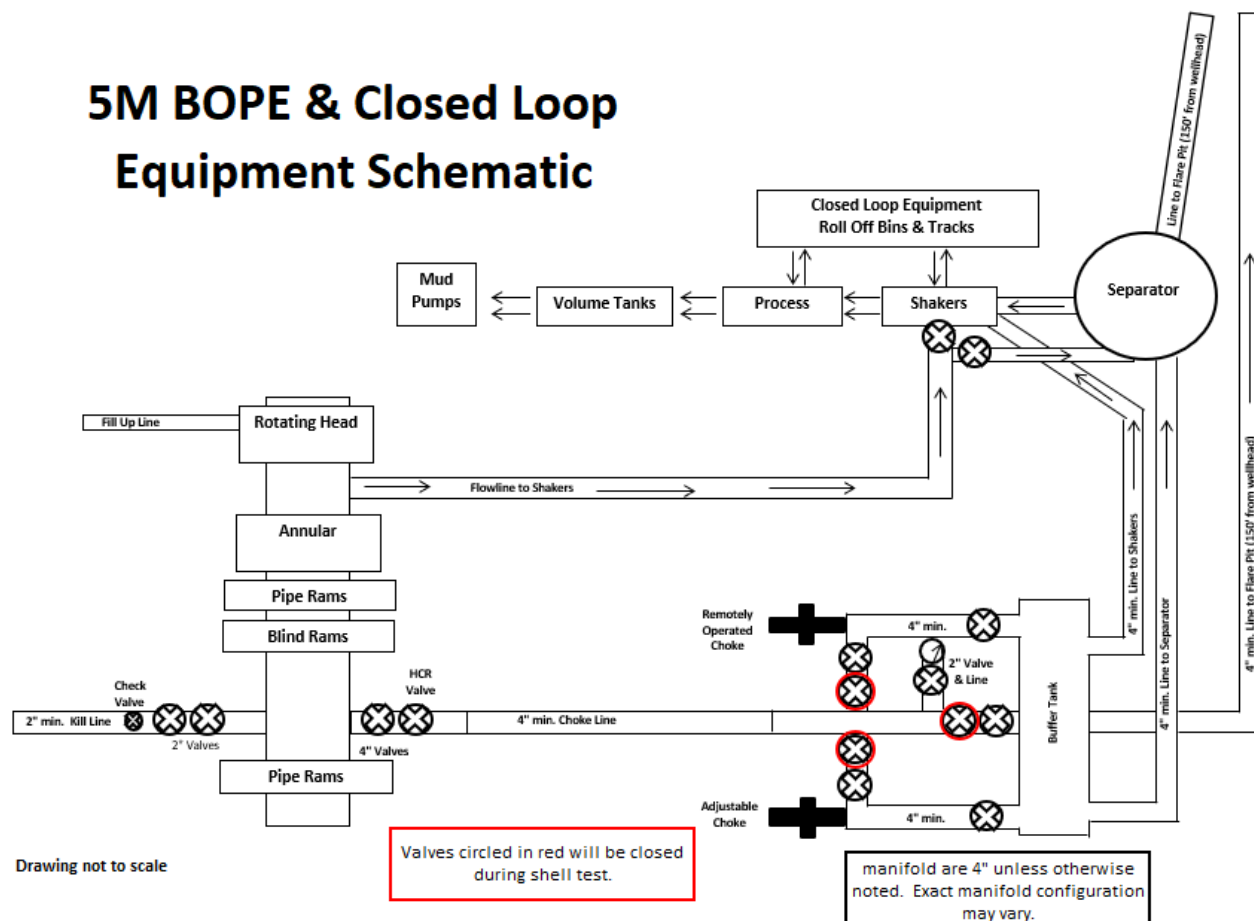


Figure 2. BOPE diagram

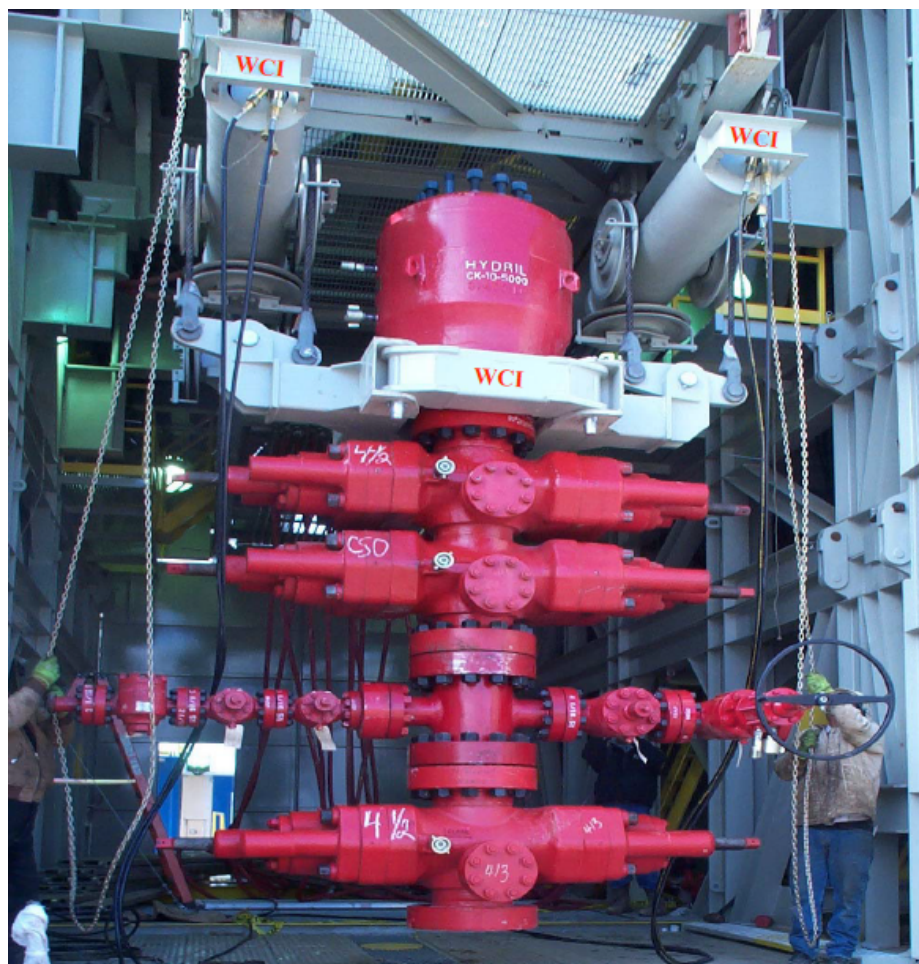


Figure 3. BOP handling system



Figure 4. BOP handling system



Figure 5. Cactus 5M wellhead with BOP quick connect



Figure 6. Vault 5M wellhead with BOP quick connect



Mewbourne Oil Co.

Surface & Intermediate Offline Cementing Variance

Mewbourne Oil Company requests a variance to perform offline cementing for surface and intermediate casing strings with the following conditions:

- Offline cementing will not be performed on production casing.
- Offline cementing will not be performed on a hole section with MASP > 5000 psi.
- Offline cementing will not be performed concurrently with offset drilling.

Surface Casing Order of Operations:

1. Run 13 3/8" surface casing as per normal operations (TPGS and float collar).
2. Perform negative pressure test to confirm integrity of float equipment while running casing.
3. Confirm well is static.
4. Make up 13 5/8" wellhead or wellhead landing ring assembly and land on 20" conductor.
5. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
6. Confirm well is static.
7. Back out landing joint and pull to rig floor. Lay down landing joint.
8. Walk rig to next well on pad with cement crew standing by to rig up.
9. Make up offline cement tool with forklift per wellhead manufacturer (Fig. 1 & 2).
10. Make up cement head on top of offline cement tool with forklift.
11. Commence cement operations.
12. If cement circulates, confirm well is static and proceed to step 16.
13. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
14. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
15. Confirm well is static.
16. Once cement job is complete, the cement head and offline cementing tool are removed. The wellhead technician returns to cellar to install wellhead/valves.
17. Install wellhead capping flange.

Barriers

Before Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus

**After Walk:**

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Offline cementing tool tested to 5000 psi and cement head
- Capping flange after cementing

20" Surface Casing Order of Operations (4 string area):

1. Run 20" surface casing as per normal operations (TPGS and float collar).
2. Perform negative pressure test to confirm integrity of float equipment while running casing.
3. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
4. Confirm well is static.
5. Back out landing joint and pull to rig floor. Lay down landing joint.
6. Make up cement head.
7. Walk rig to next well on pad with cement crew standing by to rig up.
8. Commence cement operations.
9. If cement circulates, confirm well is static and proceed to step 13.
10. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
11. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
12. Confirm well is static.
13. Once cement job is complete, remove cement head and install cap.

Barriers**Before Walk:**

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement Head

After Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement head
- Capping flange after cementing



Intermediate Casing Order of Operations:

1. Run casing as per normal operations (float shoe and float collar).
2. Perform negative pressure test to confirm integrity of float equipment while running casing.
3. Confirm well is static (if running SBM).
4. Land casing.
5. Fill pipe, circulate casing capacity and confirm floats are still holding.
6. Confirm well is static.
7. Back out landing joint and pull to rig floor. Lay down landing joint. Install packoff & test.
8. Nipple down BOP.
9. Walk rig to next well on pad with cement crew standing by to rig up.
10. Make up offline cement tool using forklift per wellhead manufacturer (Fig. 3 - 8).
11. Make up cement head on top of offline cement tool.
12. Commence cement operations.
13. If cement circulates, confirm well is static and proceed to step 16.
14. If cement does not circulate (when required), notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
15. Pump remedial cement job if required.
16. Confirm well is static.
17. Remove cement head and offline cementing tool.
18. Install wellhead capping flange and test.

Barriers

Before Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- Offline cementing tool tested to 5000 psi and cement head
- Capping flange after cementing

**Risks:**

- Pressure build up in annulus before cementing
 - Contact BLM if a well control event occurs.
 - Rig up 3rd party pump or rig pumps to pump down casing and kill well.
 - Returns will be taken through the wellhead valves to a choke manifold (Fig 9 & 10).
 - Well could also be killed through the wellhead valves down the annulus.

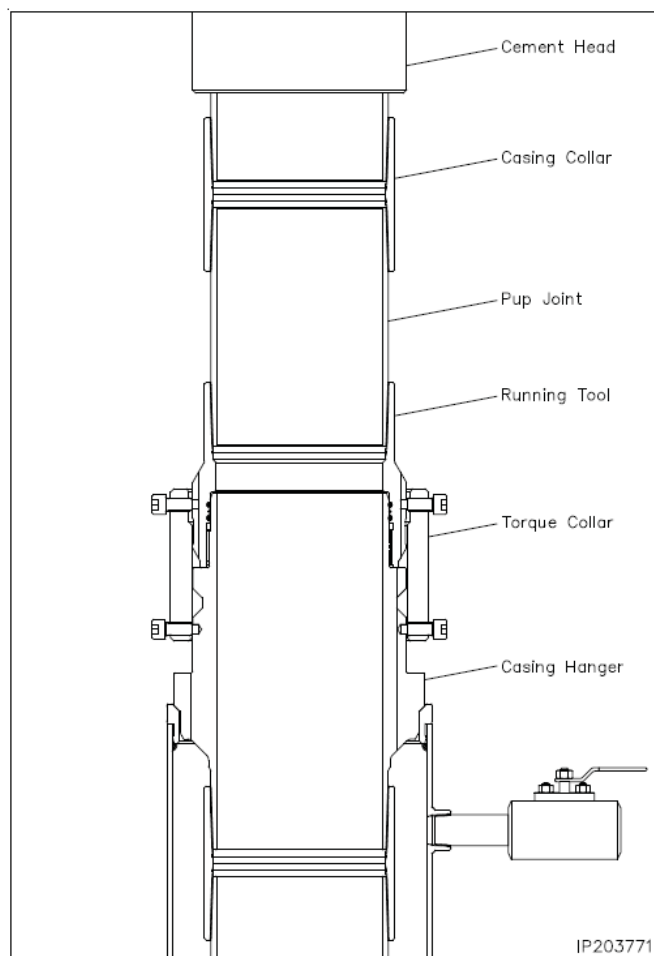


Figure 1. Cactus 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.

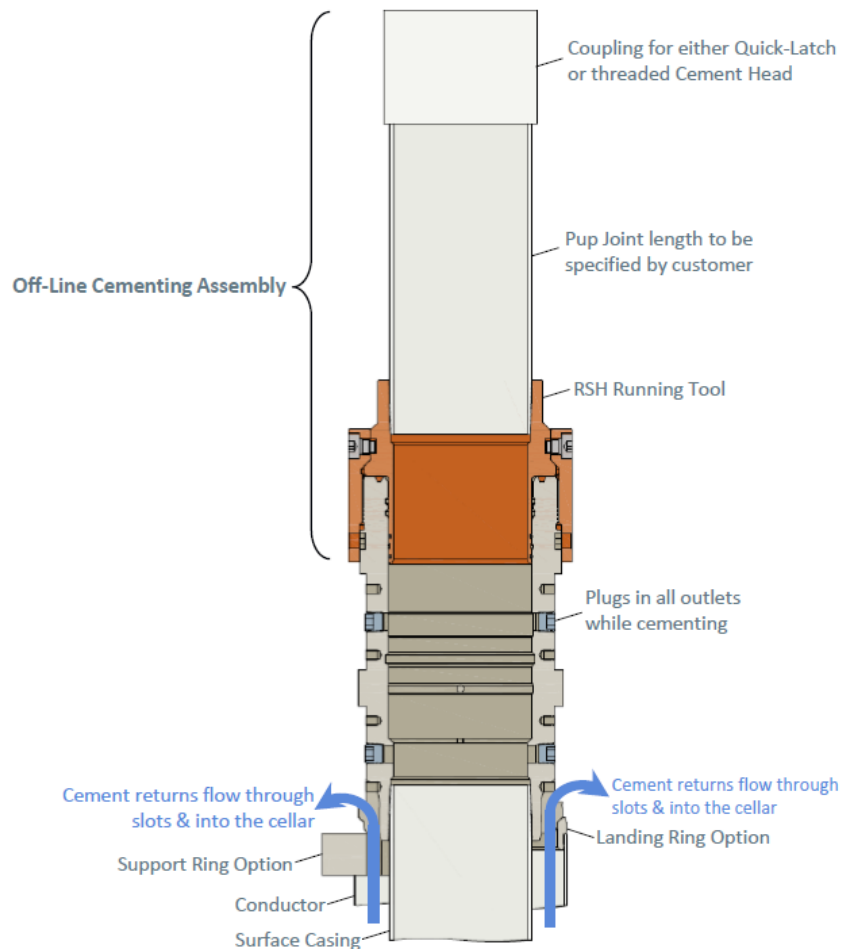


Figure 2. Vault 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.



Figure 3. Cactus 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

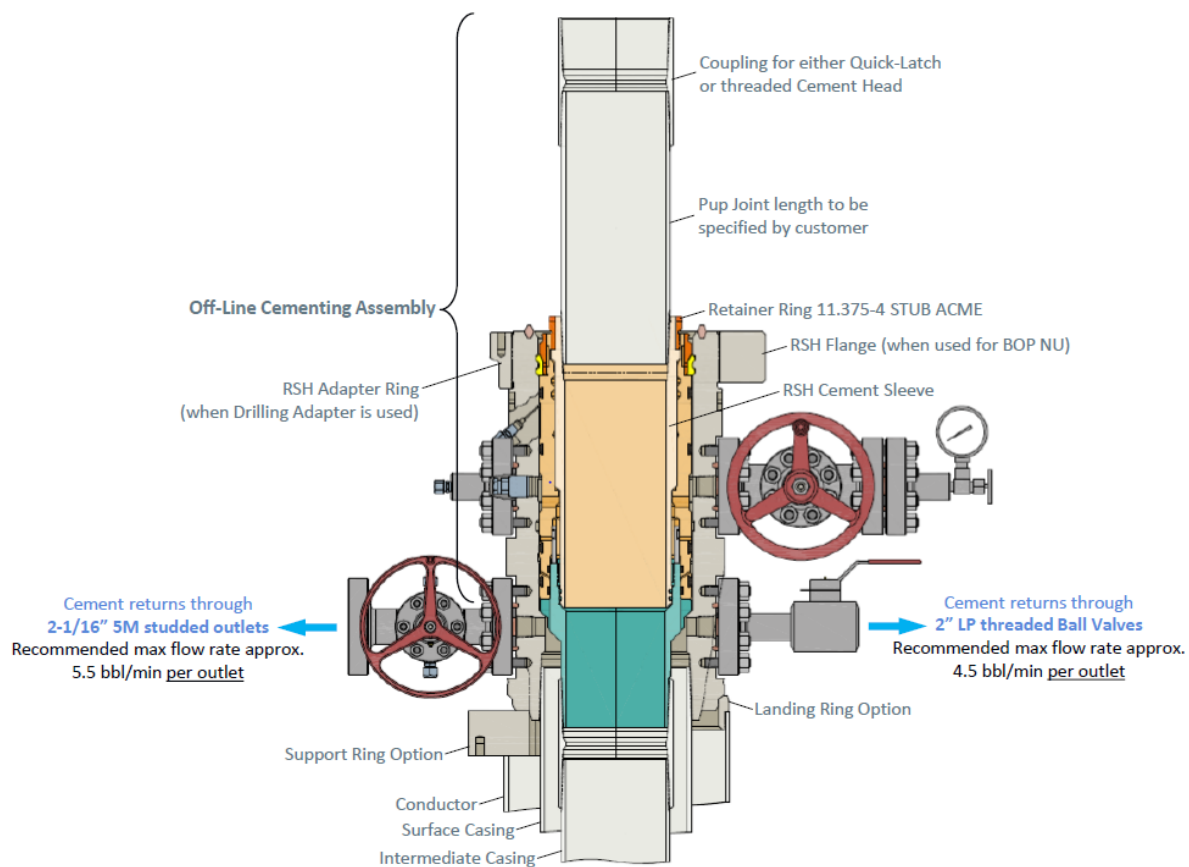


Figure 4. Vault 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

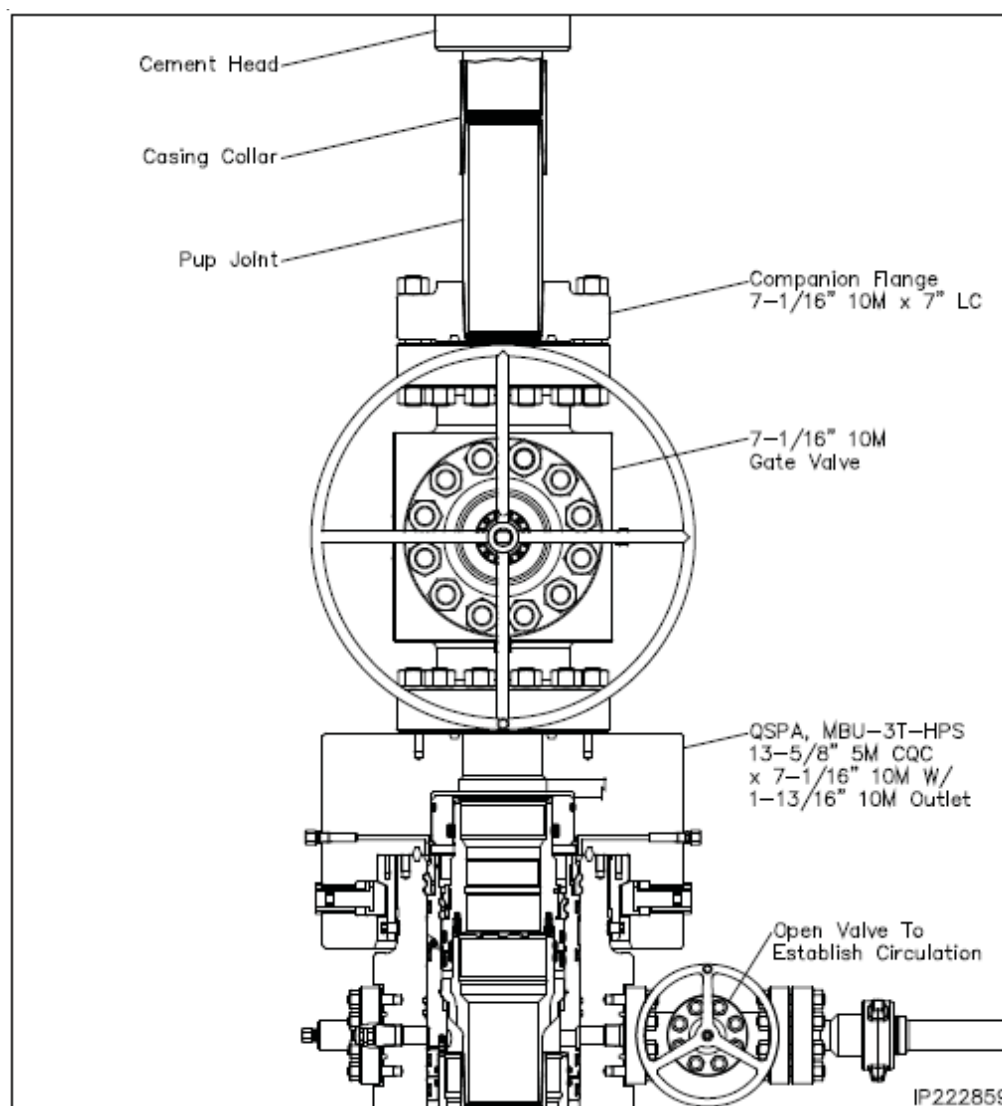


Figure 5. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



Figure 6. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

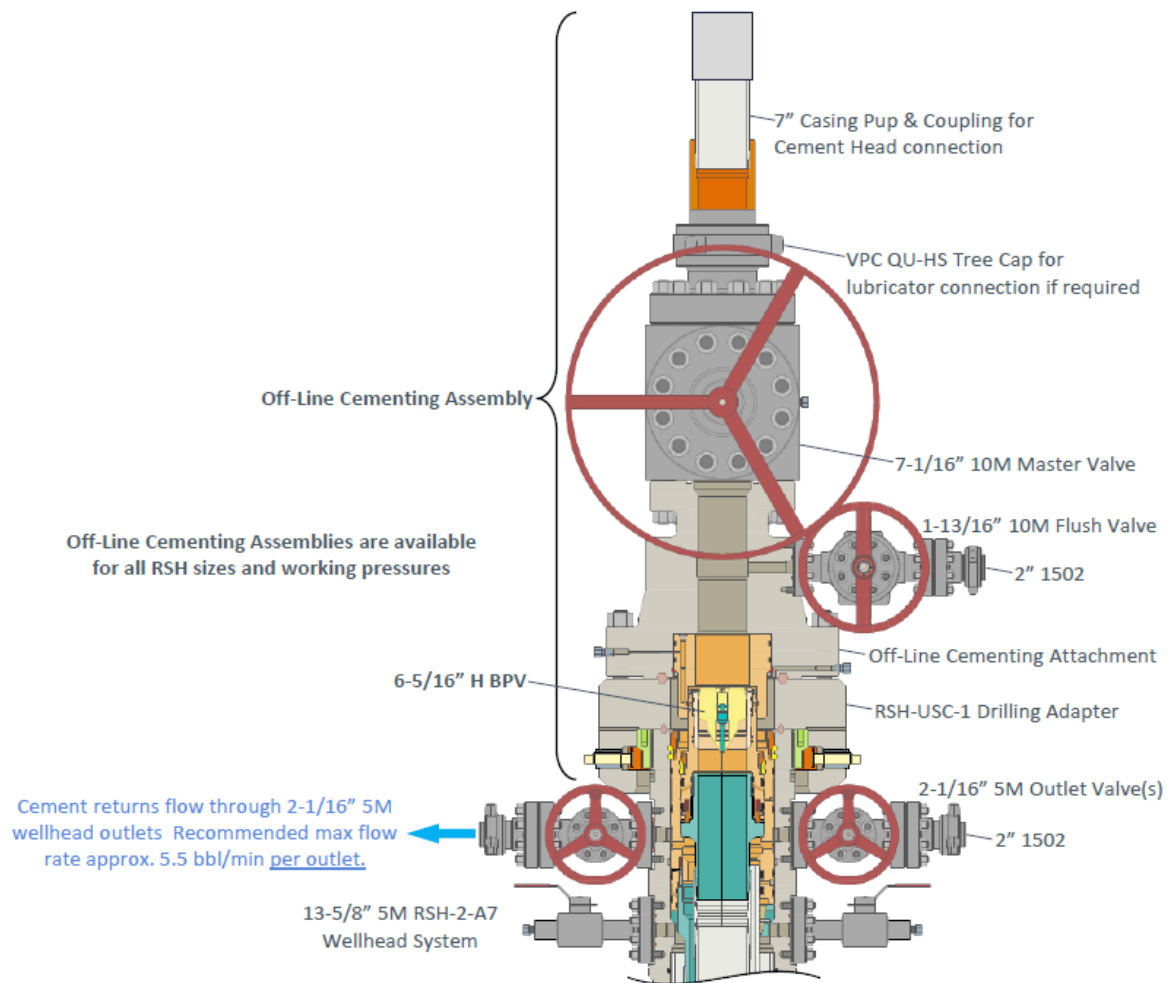


Figure 7. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



Figure 8. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

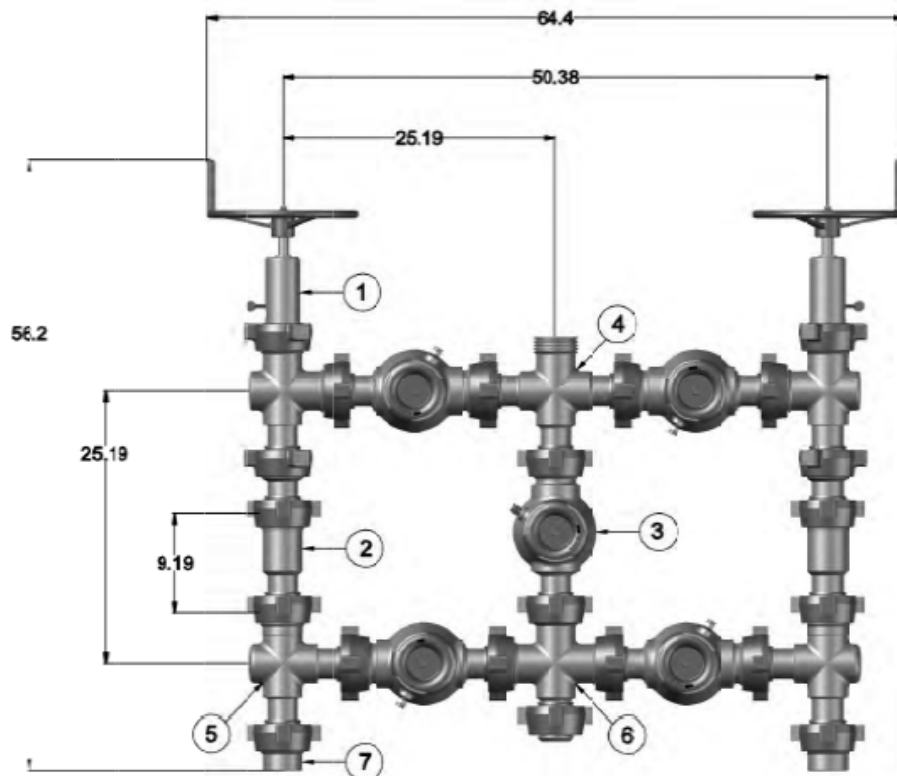


Figure 9. Five valve 15k choke manifold.

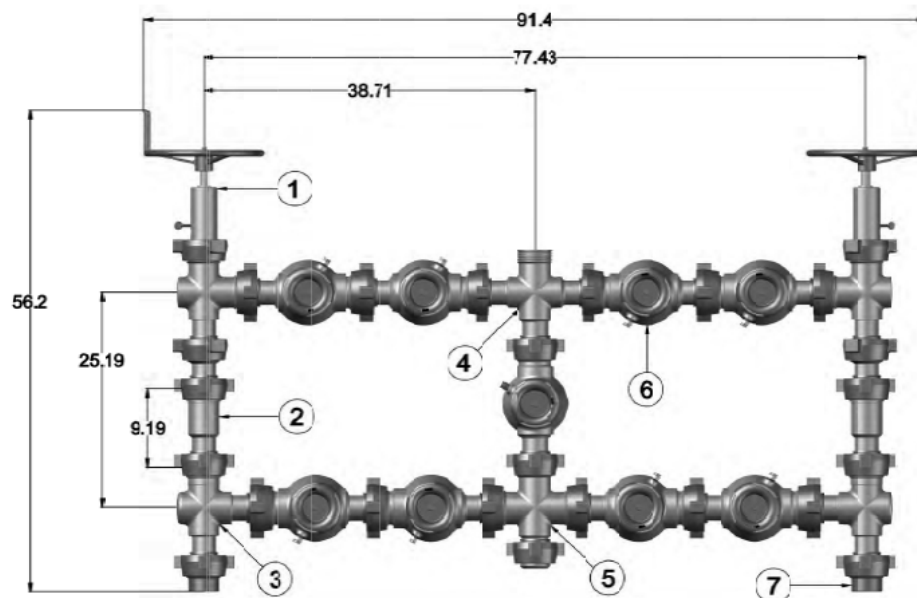


Figure 10. Nine valve 15k choke manifold.



Mewbourne Oil Company

Lea County, NM (NAD83) NMEZ Grid

North Wilson Deep

North Wilson Deep Unit #8H

Wellbore #1

Design #1

Anticollision Report

11 April, 2024





Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Reference	Design #1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.00usft
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:	Combined Separation
Casing Method:	Not applied

Survey Tool Program		Date	4/11/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	20,305.75	Design #1 (Wellbore #1)	MWD	OWSG MWD - Standard	

Summary							
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
Offset Well - Wellbore - Design							
North Wilson Deep							
North Wilson Deep Unit #9H - Wellbore #1 - Design #1	1,900.00	1,900.00	19.99	12.35	2.618	CC, ES, SF	
North Wilson Deep Offsets							
Dee Osborne 1930 State Com #123H - Wellbore #1 - Pla	9,400.00	9,393.74	216.51	173.24	5.004	CC	
Dee Osborne 1930 State Com #123H - Wellbore #1 - Pla	9,500.00	9,493.74	216.51	173.20	4.999	ES, SF	
Dee Osborne 1930 State Com #124H - Wellbore #1 - Pla	3,735.94	3,739.26	435.35	423.13	35.611	CC, ES	
Dee Osborne 1930 State Com #124H - Wellbore #1 - Pla	6,200.00	6,188.62	761.41	734.73	28.540	SF	
New Mexico O State NCT 1 #1 (P&A) - Wellbore #1 - Su	11,796.91	9,987.99	121.05	-91.38	0.570	Level 3, CC, ES, SF	
Osudo 7 State Com #1 - Wellbore #1 - Surveys	17,138.16	9,921.28	246.68	4.77	1.020	Level 2, CC, ES, SF	
Osudo 7 State Com #2 - Wellbore #1 - Surveys	19,700.00	9,916.29	367.38	56.77	1.183	Level 2, CC, ES, SF	
Packer 18 State Com #1 (SWD) - Wellbore #1 - Surveys	14,436.40	9,963.57	1,442.44	1,138.35	4.744	CC, ES, SF	
Section 6-21S-35E Cast Away 6 B2BW St Com Unit 1H							
Cast Away 6 B2BW St Com Unit 1H - Original Hole - Pla	20,305.75	17,431.25	213.45	172.27	5.184	CC, ES, SF	
Pheasant Ridge 6 St Com 1 - Original Hole - Original Ho	20,305.75	9,908.44	1,111.17	1,046.77	17.256	CC, ES, SF	
Section 6-21S-35E LaTrucha 6 B1CV St Com 1H							
La Trucha 6 B1CV St Com 1H - Original Hole - Plan#1	20,305.75	16,728.96	1,195.09	1,009.67	6.445	CC, ES, SF	

Offset Design	North Wilson Deep - North Wilson Deep Unit #9H - 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		Minimum Separation		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	89.50	0.17	19.98	19.99				
100.00	100.00	100.00	100.00	0.82	0.82	89.50	0.17	19.98	19.99	18.83	1.16	17.277	
200.00	200.00	200.00	200.00	1.43	1.43	89.50	0.17	19.98	19.99	17.96	2.02	9.872	
300.00	300.00	300.00	300.00	1.88	1.88	89.50	0.17	19.98	19.99	17.33	2.66	7.514	
400.00	400.00	400.00	400.00	2.24	2.24	89.50	0.17	19.98	19.99	16.81	3.17	6.296	
500.00	500.00	500.00	500.00	2.56	2.56	89.50	0.17	19.98	19.99	16.37	3.62	5.521	
600.00	600.00	600.00	600.00	2.84	2.84	89.50	0.17	19.98	19.99	15.97	4.02	4.972	
700.00	700.00	700.00	700.00	3.10	3.10	89.50	0.17	19.98	19.99	15.60	4.39	4.556	
800.00	800.00	800.00	800.00	3.34	3.34	89.50	0.17	19.98	19.99	15.26	4.73	4.227	
900.00	900.00	900.00	900.00	3.57	3.57	89.50	0.17	19.98	19.99	14.94	5.05	3.959	
1,000.00	1,000.00	1,000.00	1,000.00	3.78	3.78	89.50	0.17	19.98	19.99	14.63	5.35	3.734	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep - North Wilson Deep Unit #9H - 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		
1,100.00	1,100.00	1,100.00	1,100.00	3.99	3.99	89.50	0.17	19.98	19.99	14.34	5.64	3.542		
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	89.50	0.17	19.98	19.99	14.07	5.92	3.376		
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	89.50	0.17	19.98	19.99	13.80	6.19	3.230		
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	89.50	0.17	19.98	19.99	13.54	6.45	3.100		
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	89.50	0.17	19.98	19.99	13.29	6.70	2.984		
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	89.50	0.17	19.98	19.99	13.04	6.94	2.879		
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	89.50	0.17	19.98	19.99	12.81	7.18	2.784		
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	89.50	0.17	19.98	19.99	12.58	7.41	2.697		
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	89.50	0.17	19.98	19.99	12.35	7.64	2.618 CC, ES, SF		
2,000.00	1,999.98	1,999.23	1,999.21	5.63	5.62	89.74	-0.35	21.62	23.32	15.37	7.95	2.933		
2,100.00	2,099.84	2,097.80	2,097.65	6.19	6.17	90.14	-1.90	26.49	33.30	24.61	8.68	3.835		
2,200.00	2,199.45	2,195.08	2,194.56	6.73	6.69	90.41	-4.45	34.45	49.84	40.48	9.37	5.322		
2,300.00	2,298.72	2,292.69	2,291.63	7.00	6.99	90.25	-7.54	44.13	71.27	61.53	9.74	7.314		
2,400.00	2,397.88	2,390.17	2,388.59	7.17	7.17	90.01	-10.63	53.81	93.55	83.56	9.99	9.362		
2,500.00	2,497.04	2,487.66	2,485.54	7.38	7.36	89.87	-13.72	63.49	115.83	105.57	10.27	11.283		
2,600.00	2,596.20	2,585.14	2,582.50	7.60	7.57	89.77	-16.82	73.16	138.11	127.55	10.56	13.076		
2,700.00	2,695.36	2,682.63	2,679.45	7.84	7.79	89.70	-19.91	82.84	160.40	149.52	10.88	14.743		
2,800.00	2,794.51	2,780.11	2,776.41	8.10	8.03	89.65	-23.00	92.51	182.68	171.46	11.22	16.288		
2,900.00	2,893.67	2,877.60	2,873.36	8.37	8.27	89.61	-26.09	102.19	204.96	193.39	11.57	17.716		
3,000.00	2,992.83	2,975.09	2,970.32	8.65	8.53	89.58	-29.18	111.87	227.24	215.31	11.94	19.035		
3,100.00	3,091.99	3,072.57	3,067.27	8.95	8.80	89.55	-32.27	121.54	249.53	237.20	12.32	20.250		
3,200.00	3,191.15	3,170.06	3,164.23	9.25	9.08	89.53	-35.37	131.22	271.81	259.09	12.72	21.370		
3,300.00	3,290.31	3,267.54	3,261.18	9.57	9.36	89.51	-38.46	140.90	294.09	280.96	13.13	22.401		
3,400.00	3,389.47	3,365.03	3,358.14	9.89	9.66	89.49	-41.55	150.57	316.38	302.83	13.55	23.351		
3,500.00	3,488.63	3,462.51	3,455.09	10.22	9.96	89.47	-44.64	160.25	338.66	324.68	13.98	24.227		
3,600.00	3,587.78	3,560.00	3,552.05	10.55	10.26	89.46	-47.73	169.92	360.94	346.52	14.42	25.035		
3,700.00	3,686.94	3,657.49	3,649.00	10.90	10.58	89.45	-50.83	179.60	383.22	368.36	14.86	25.782		
3,800.00	3,786.10	3,754.97	3,745.96	11.25	10.89	89.44	-53.92	189.28	405.51	390.19	15.32	26.471		
3,900.00	3,885.26	3,852.46	3,842.91	11.60	11.22	89.43	-57.01	198.95	427.79	412.01	15.78	27.109		
4,000.00	3,984.42	3,949.94	3,939.87	11.96	11.54	89.42	-60.10	208.63	450.07	433.82	16.25	27.700		
4,100.00	4,083.58	4,047.43	4,036.82	12.32	11.88	89.42	-63.19	218.31	472.36	455.63	16.72	28.248		
4,200.00	4,182.74	4,144.91	4,133.78	12.69	12.21	89.41	-66.28	227.98	494.64	477.44	17.20	28.757		
4,300.00	4,281.90	4,242.40	4,230.73	13.06	12.55	89.40	-69.38	237.66	516.92	499.24	17.68	29.230		
4,400.00	4,381.05	4,339.89	4,327.69	13.43	12.89	89.40	-72.47	247.33	539.20	521.03	18.17	29.671		
4,500.00	4,480.21	4,437.37	4,424.64	13.81	13.24	89.39	-75.56	257.01	561.49	542.82	18.66	30.082		
4,600.00	4,579.37	4,534.86	4,521.60	14.19	13.59	89.39	-78.65	266.69	583.77	564.61	19.16	30.466		
4,700.00	4,678.53	4,632.34	4,618.55	14.57	13.94	89.38	-81.74	276.36	606.05	586.39	19.66	30.826		
4,800.00	4,777.69	4,729.83	4,715.51	14.96	14.29	89.38	-84.83	286.04	628.34	608.17	20.16	31.162		
4,900.00	4,876.85	4,827.31	4,812.46	15.34	14.64	89.38	-87.93	295.72	650.62	629.95	20.67	31.477		
5,000.00	4,976.01	4,924.80	4,909.42	15.73	15.00	89.37	-91.02	305.39	672.90	651.72	21.18	31.773		
5,100.00	5,075.17	5,022.29	5,006.37	16.12	15.36	89.37	-94.11	315.07	695.19	673.50	21.69	32.051		
5,200.00	5,174.33	5,119.77	5,103.33	16.52	15.72	89.37	-97.20	324.75	717.47	695.26	22.20	32.313		
5,300.00	5,273.48	5,217.26	5,200.28	16.91	16.08	89.36	-100.29	334.42	739.75	717.03	22.72	32.559		
5,400.00	5,372.64	5,314.74	5,297.24	17.31	16.44	89.36	-103.38	344.10	762.03	738.80	23.24	32.792		
5,500.00	5,471.80	5,412.23	5,394.19	17.70	16.81	89.36	-106.48	353.77	784.32	760.56	23.76	33.012		
5,600.00	5,570.96	5,509.71	5,491.15	18.10	17.17	89.35	-109.57	363.45	806.60	782.32	24.28	33.219		
5,700.00	5,670.12	5,607.20	5,588.10	18.50	17.54	89.35	-112.66	373.13	828.88	804.08	24.80	33.416		
5,800.00	5,769.28	5,704.69	5,685.06	18.90	17.91	89.35	-115.75	382.80	851.17	825.84	25.33	33.602		
5,900.00	5,868.44	5,802.17	5,782.01	19.31	18.28	89.35	-118.84	392.48	873.45	847.59	25.86	33.779		
6,000.00	5,967.60	5,899.66	5,878.97	19.71	18.65	89.35	-121.93	402.16	895.73	869.35	26.39	33.947		
6,100.00	6,066.75	5,997.14	5,975.92	20.11	19.02	89.34	-125.03	411.83	918.02	891.10	26.92	34.106		
6,200.00	6,165.91	6,094.63	6,072.88	20.52	19.40	89.34	-128.12	421.51	940.30	912.85	27.45	34.258		

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep - North Wilson Deep Unit #9H - 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
6,300.00	6,265.07	6,192.11	6,169.83	20.93	19.77	89.34	-131.21	431.18	962.58	934.60	27.98	34.402	
6,400.00	6,364.23	6,289.60	6,266.79	21.33	20.14	89.34	-134.30	440.86	984.86	956.35	28.51	34.540	
6,500.00	6,463.39	6,387.09	6,363.74	21.74	20.52	89.34	-137.39	450.54	1,007.15	978.10	29.05	34.671	
6,600.00	6,562.55	6,484.57	6,460.70	22.15	20.90	89.34	-140.48	460.21	1,029.43	999.85	29.58	34.796	
6,700.00	6,661.71	6,582.06	6,557.65	22.56	21.27	89.33	-143.58	469.89	1,051.71	1,021.59	30.12	34.916	
6,800.00	6,760.87	6,679.54	6,654.61	22.97	21.65	89.33	-146.67	479.57	1,074.00	1,043.34	30.66	35.030	
6,900.00	6,860.02	6,777.03	6,751.56	23.38	22.03	89.33	-149.76	489.24	1,096.28	1,065.08	31.20	35.139	
7,000.00	6,959.18	6,874.51	6,848.52	23.79	22.41	89.33	-152.85	498.92	1,118.56	1,086.82	31.74	35.244	
7,100.00	7,058.34	6,972.00	6,945.47	24.20	22.78	89.33	-155.94	508.59	1,140.84	1,108.57	32.28	35.344	
7,200.00	7,157.50	7,069.49	7,042.43	24.61	23.16	89.33	-159.03	518.27	1,163.13	1,130.31	32.82	35.440	
7,300.00	7,256.66	7,166.97	7,139.38	25.02	23.54	89.33	-162.13	527.95	1,185.41	1,152.05	33.36	35.533	
7,400.00	7,355.82	7,264.46	7,236.34	25.44	23.93	89.33	-165.22	537.62	1,207.69	1,173.79	33.90	35.621	
7,500.00	7,454.98	7,361.94	7,333.29	25.85	24.31	89.32	-168.31	547.30	1,229.98	1,195.53	34.45	35.706	
7,600.00	7,554.14	7,459.43	7,430.25	26.26	24.69	89.32	-171.40	556.98	1,252.26	1,217.27	34.99	35.788	
7,700.00	7,653.30	7,556.91	7,527.20	26.68	25.07	89.32	-174.49	566.65	1,274.54	1,239.01	35.54	35.866	
7,800.00	7,752.45	7,654.40	7,624.16	27.09	25.45	89.32	-177.58	576.33	1,296.83	1,260.74	36.08	35.942	
7,900.00	7,851.61	7,751.89	7,721.11	27.51	25.84	89.32	-180.68	586.00	1,319.11	1,282.48	36.63	36.015	
8,000.00	7,950.77	7,849.37	7,818.07	27.92	26.22	89.32	-183.77	595.68	1,341.39	1,304.22	37.17	36.085	
8,100.00	8,049.93	7,946.86	7,915.02	28.34	26.60	89.32	-186.86	605.36	1,363.67	1,325.95	37.72	36.152	
8,200.00	8,149.09	8,044.34	8,011.98	28.76	26.99	89.32	-189.95	615.03	1,385.96	1,347.69	38.27	36.218	
8,300.00	8,248.25	8,141.83	8,108.93	29.17	27.37	89.32	-193.04	624.71	1,408.24	1,369.43	38.82	36.280	
8,400.00	8,347.41	8,239.31	8,205.89	29.59	27.76	89.32	-196.13	634.39	1,430.52	1,391.16	39.36	36.341	
8,500.00	8,446.57	8,336.80	8,302.84	30.01	28.14	89.32	-199.23	644.06	1,452.81	1,412.89	39.91	36.400	
8,600.00	8,545.72	8,434.29	8,399.80	30.42	28.53	89.32	-202.32	653.74	1,475.09	1,434.63	40.46	36.456	
8,700.00	8,644.88	8,531.77	8,496.76	30.84	28.91	89.31	-205.41	663.41	1,497.37	1,456.36	41.01	36.511	
8,800.00	8,744.04	8,629.26	8,593.71	31.26	29.30	89.31	-208.50	673.09	1,519.66	1,478.09	41.56	36.564	
8,900.00	8,843.20	8,726.74	8,690.67	31.68	29.68	89.31	-211.59	682.77	1,541.94	1,499.83	42.11	36.615	
9,000.00	8,942.47	8,824.42	8,787.81	32.09	30.07	89.32	-214.69	692.46	1,563.35	1,520.70	42.65	36.651	
9,100.00	9,042.09	8,922.73	8,885.59	32.52	30.46	89.36	-217.81	702.22	1,581.58	1,538.36	43.22	36.595	
9,200.00	9,141.95	9,079.57	9,041.76	32.94	31.07	89.47	-222.15	715.80	1,595.54	1,551.50	44.03	36.234	
9,300.00	9,241.93	9,279.87	9,241.93	33.11	31.66	89.53	-224.05	721.77	1,600.00	1,555.35	44.65	35.834	
9,400.00	9,341.93	9,379.87	9,341.93	33.13	31.67	89.53	-224.05	721.77	1,600.00	1,555.32	44.68	35.811	
9,500.00	9,441.93	9,479.90	9,441.95	33.15	31.68	89.53	-223.95	721.77	1,600.00	1,555.30	44.70	35.790	
9,594.62	9,536.10	9,574.57	9,536.03	33.11	31.61	89.47	-214.37	721.68	1,600.00	1,555.30	44.70	35.797	
9,600.00	9,541.41	9,579.95	9,541.31	33.11	31.61	89.46	-213.36	721.67	1,600.00	1,555.30	44.70	35.797	
9,700.00	9,637.84	9,679.70	9,637.04	33.02	31.51	89.41	-185.78	721.42	1,600.00	1,555.34	44.66	35.829	
9,800.00	9,728.29	9,779.15	9,726.29	32.94	31.42	89.36	-142.18	721.03	1,600.00	1,555.40	44.60	35.873	
9,900.00	9,810.02	9,878.33	9,806.46	32.89	31.35	89.33	-84.01	720.50	1,600.01	1,555.45	44.56	35.910	
10,000.00	9,880.54	9,977.26	9,875.26	32.88	31.33	89.33	-13.09	719.86	1,600.01	1,555.46	44.55	35.915	
10,100.00	9,937.70	10,075.98	9,930.74	32.94	31.39	89.34	68.41	719.12	1,600.01	1,555.40	44.61	35.864	
10,200.00	9,979.78	10,174.51	9,971.37	33.09	31.54	89.37	158.04	718.31	1,600.01	1,555.24	44.77	35.735	
10,300.00	10,005.49	10,272.92	9,996.04	33.35	31.80	89.42	253.18	717.45	1,600.02	1,554.97	45.05	35.516	
10,400.00	10,014.05	10,371.24	10,004.08	33.71	32.16	89.48	351.04	716.56	1,600.02	1,554.57	45.45	35.207	
10,404.45	10,014.04	10,375.61	10,004.05	33.74	32.17	89.49	355.41	716.52	1,600.02	1,554.55	45.47	35.190	
10,500.00	10,012.82	10,471.10	10,002.37	34.18	32.63	89.49	450.88	715.66	1,600.02	1,554.04	45.97	34.804	
10,600.00	10,011.56	10,571.09	10,000.60	34.72	33.16	89.49	550.86	714.75	1,600.02	1,553.41	46.61	34.327	
10,700.00	10,010.29	10,671.09	9,998.82	35.32	33.77	89.49	650.84	713.84	1,600.02	1,552.66	47.36	33.786	
10,800.00	10,009.03	10,771.09	9,997.05	35.98	34.43	89.49	750.82	712.94	1,600.02	1,551.81	48.21	33.190	
10,900.00	10,007.77	10,871.09	9,995.28	36.70	35.16	89.49	850.80	712.03	1,600.02	1,550.87	49.15	32.551	
11,000.00	10,006.50	10,971.09	9,993.50	37.48	35.94	89.49	950.77	711.13	1,600.02	1,549.83	50.19	31.878	
11,100.00	10,005.24	11,071.09	9,991.73	38.30	36.77	89.49	1,050.75	710.22	1,600.02	1,548.71	51.32	31.180	
11,200.00	10,003.97	11,171.09	9,989.96	39.17	37.65	89.49	1,150.73	709.32	1,600.02	1,547.50	52.52	30.465	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep - North Wilson Deep Unit #9H - 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	
11,300.00	10,002.71	11,271.08	9,988.18	40.09	38.57	89.49	1,250.71	708.41	1,600.03	1,546.23	53.80	29.741	
11,400.00	10,001.45	11,371.08	9,986.41	41.04	39.54	89.49	1,350.69	707.51	1,600.03	1,544.88	55.15	29.013	
11,500.00	10,000.18	11,471.08	9,984.64	42.04	40.55	89.49	1,450.67	706.60	1,600.03	1,543.47	56.56	28.288	
11,600.00	9,998.92	11,571.08	9,982.87	43.07	41.60	89.49	1,550.65	705.69	1,600.03	1,542.00	58.04	27.569	
11,700.00	9,997.66	11,671.08	9,981.09	44.13	42.68	89.49	1,650.63	704.79	1,600.04	1,540.47	59.57	26.861	
11,800.00	9,996.39	11,771.08	9,979.32	45.23	43.80	89.49	1,750.61	703.88	1,600.04	1,538.89	61.15	26.167	
11,900.00	9,995.13	11,871.08	9,977.55	46.36	44.94	89.49	1,850.58	702.98	1,600.04	1,537.27	62.78	25.488	
12,000.00	9,993.87	11,971.08	9,975.77	47.51	46.12	89.49	1,950.56	702.07	1,600.04	1,535.60	64.45	24.827	
12,100.00	9,992.60	12,071.07	9,974.00	48.70	47.32	89.49	2,050.54	701.17	1,600.05	1,533.89	66.16	24.184	
12,200.00	9,991.34	12,171.07	9,972.23	49.90	48.55	89.49	2,150.52	700.26	1,600.05	1,532.14	67.91	23.560	
12,300.00	9,990.08	12,271.07	9,970.45	51.13	49.81	89.49	2,250.50	699.36	1,600.05	1,530.36	69.70	22.957	
12,400.00	9,988.81	12,371.07	9,968.68	52.39	51.08	89.49	2,350.48	698.45	1,600.06	1,528.54	71.52	22.373	
12,500.00	9,987.55	12,471.07	9,966.91	53.66	52.38	89.49	2,450.46	697.54	1,600.06	1,526.70	73.36	21.810	
12,600.00	9,986.28	12,571.07	9,965.13	54.95	53.69	89.49	2,550.44	696.64	1,600.07	1,524.83	75.24	21.267	
12,700.00	9,985.02	12,671.07	9,963.36	56.26	55.02	89.49	2,650.42	695.73	1,600.07	1,522.93	77.14	20.743	
12,800.00	9,983.76	12,771.07	9,961.59	57.59	56.37	89.50	2,750.39	694.83	1,600.07	1,521.01	79.06	20.238	
12,900.00	9,982.49	12,871.06	9,959.82	58.93	57.74	89.50	2,850.37	693.92	1,600.08	1,519.07	81.01	19.752	
13,000.00	9,981.23	12,971.06	9,958.04	60.29	59.12	89.50	2,950.35	693.02	1,600.08	1,517.11	82.98	19.284	
13,100.00	9,979.97	13,071.06	9,956.27	61.66	60.51	89.50	3,050.33	692.11	1,600.09	1,515.13	84.96	18.833	
13,200.00	9,978.70	13,171.06	9,954.50	63.04	61.92	89.50	3,150.31	691.20	1,600.09	1,513.13	86.96	18.399	
13,300.00	9,977.44	13,271.06	9,952.72	64.44	63.34	89.50	3,250.29	690.30	1,600.10	1,511.11	88.98	17.982	
13,400.00	9,976.18	13,371.06	9,950.95	65.85	64.77	89.50	3,350.27	689.39	1,600.10	1,509.08	91.02	17.580	
13,500.00	9,974.91	13,471.06	9,949.18	67.27	66.21	89.50	3,450.25	688.49	1,600.11	1,507.04	93.07	17.193	
13,600.00	9,973.65	13,571.06	9,947.40	68.70	67.66	89.50	3,550.23	687.58	1,600.12	1,504.98	95.13	16.820	
13,700.00	9,972.38	13,671.05	9,945.63	70.14	69.12	89.50	3,650.20	686.68	1,600.12	1,502.91	97.21	16.461	
13,800.00	9,971.12	13,771.05	9,943.86	71.58	70.58	89.50	3,750.18	685.77	1,600.13	1,500.83	99.30	16.115	
13,900.00	9,969.86	13,871.05	9,942.08	73.04	72.06	89.50	3,850.16	684.87	1,600.13	1,498.74	101.39	15.781	
14,000.00	9,968.59	13,971.05	9,940.31	74.51	73.54	89.50	3,950.14	683.96	1,600.14	1,496.64	103.50	15.460	
14,100.00	9,967.33	14,071.05	9,938.54	75.98	75.03	89.50	4,050.12	683.05	1,600.15	1,494.52	105.62	15.150	
14,200.00	9,966.07	14,171.05	9,936.77	77.46	76.53	89.50	4,150.10	682.15	1,600.15	1,492.40	107.75	14.851	
14,300.00	9,964.80	14,271.05	9,934.99	78.95	78.04	89.50	4,250.08	681.24	1,600.16	1,490.27	109.89	14.562	
14,400.00	9,963.54	14,371.04	9,933.22	80.44	79.55	89.50	4,350.06	680.34	1,600.17	1,488.14	112.03	14.283	
14,500.00	9,962.28	14,471.04	9,931.45	81.94	81.06	89.50	4,450.03	679.43	1,600.17	1,485.99	114.18	14.014	
14,600.00	9,961.01	14,571.04	9,929.67	83.45	82.58	89.50	4,550.01	678.53	1,600.18	1,483.84	116.34	13.754	
14,700.00	9,959.75	14,671.04	9,927.90	84.96	84.11	89.50	4,649.99	677.62	1,600.19	1,481.68	118.51	13.503	
14,800.00	9,958.49	14,771.04	9,926.13	86.47	85.64	89.50	4,749.97	676.72	1,600.20	1,479.51	120.68	13.260	
14,900.00	9,957.22	14,871.04	9,924.35	87.99	87.18	89.50	4,849.95	675.81	1,600.20	1,477.34	122.86	13.024	
15,000.00	9,955.96	14,971.04	9,922.58	89.52	88.72	89.50	4,949.93	674.90	1,600.21	1,475.16	125.05	12.797	
15,100.00	9,954.69	15,071.04	9,920.81	91.05	90.26	89.50	5,049.91	674.00	1,600.22	1,472.98	127.24	12.577	
15,200.00	9,953.43	15,171.03	9,919.03	92.59	91.81	89.50	5,149.89	673.09	1,600.23	1,470.79	129.43	12.363	
15,300.00	9,952.17	15,271.02	9,917.26	94.13	93.36	89.50	5,249.85	672.19	1,598.71	1,467.07	131.64	12.145	
15,400.00	9,950.90	15,370.88	9,915.49	95.67	94.92	89.50	5,349.70	671.28	1,593.71	1,459.86	133.85	11.907	
15,500.00	9,949.63	15,470.52	9,913.72	97.20	96.47	89.50	5,449.31	670.38	1,585.23	1,449.17	136.05	11.651	
15,600.00	9,948.37	15,569.79	9,911.96	98.72	98.02	89.50	5,548.57	669.48	1,573.27	1,435.02	138.25	11.380	
15,700.00	9,947.11	15,668.84	9,910.21	100.21	99.57	89.51	5,647.59	668.58	1,559.51	1,419.08	140.43	11.105	
15,800.00	9,945.84	15,767.88	9,908.45	101.70	101.12	89.51	5,746.62	667.69	1,545.75	1,403.14	142.61	10.839	
15,900.00	9,944.58	15,866.93	9,906.70	103.20	102.68	89.51	5,845.64	666.79	1,531.99	1,387.20	144.79	10.580	
16,000.00	9,943.31	15,965.97	9,904.94	104.69	104.24	89.51	5,944.67	665.89	1,518.23	1,371.25	146.98	10.329	
16,100.00	9,942.05	16,065.02	9,903.18	106.20	105.80	89.51	6,043.69	665.00	1,504.47	1,355.30	149.17	10.086	
16,200.00	9,940.79	16,164.06	9,901.43	107.70	107.36	89.51	6,142.72	664.10	1,490.72	1,339.35	151.36	9.849	
16,300.00	9,939.52	16,263.11	9,899.67	109.21	108.93	89.51	6,241.75	663.20	1,476.96	1,323.40	153.56	9.618	
16,400.00	9,938.26	16,362.15	9,897.91	110.73	110.50	89.51	6,340.77	662.31	1,463.20	1,307.44	155.76	9.394	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep - North Wilson Deep Unit #9H - 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		Azimuth from North (°)	Offset Wellbore Centre		Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
16,500.00	9,937.00	16,461.20	9,896.16	112.25	112.07	89.51	6,439.80	661.41	1,449.44	1,291.48	157.96	9.176	
16,600.00	9,935.73	16,560.24	9,894.40	113.77	113.64	89.51	6,538.82	660.51	1,435.69	1,275.52	160.17	8.964	
16,700.00	9,934.47	16,659.29	9,892.65	115.29	115.21	89.51	6,637.85	659.62	1,421.93	1,259.56	162.37	8.757	
16,800.00	9,933.21	16,758.34	9,890.89	116.82	116.79	89.51	6,736.87	658.72	1,408.18	1,243.59	164.58	8.556	
16,900.00	9,931.94	16,857.59	9,889.13	118.37	118.37	89.51	6,836.11	657.82	1,396.07	1,229.26	166.81	8.369	
17,000.00	9,930.67	16,957.21	9,887.36	119.94	119.96	89.51	6,935.71	656.92	1,387.44	1,218.38	169.06	8.207	
17,100.00	9,929.40	17,057.07	9,885.59	121.54	121.55	89.51	7,035.55	656.01	1,382.29	1,210.97	171.32	8.068	
17,197.70	9,928.16	17,154.75	9,883.86	123.11	123.11	89.51	7,133.21	655.13	1,380.63	1,207.09	173.54	7.956	
17,200.00	9,928.13	17,157.05	9,883.82	123.14	123.15	89.51	7,135.51	655.11	1,380.63	1,207.04	173.59	7.953	
17,300.00	9,926.86	17,257.03	9,882.05	124.76	124.75	89.51	7,235.47	654.20	1,382.45	1,206.59	175.87	7.861	
17,400.00	9,925.60	17,356.88	9,880.28	126.38	126.35	89.51	7,335.30	653.30	1,387.76	1,209.62	178.14	7.790	
17,500.00	9,924.34	17,456.49	9,878.51	128.01	127.94	89.51	7,434.89	652.40	1,396.55	1,216.13	180.42	7.740	
17,600.00	9,923.08	17,555.88	9,876.75	129.62	129.54	89.51	7,534.26	651.50	1,407.57	1,224.88	182.68	7.705	
17,700.00	9,921.82	17,655.27	9,874.99	131.24	131.13	89.51	7,633.63	650.60	1,418.62	1,233.67	184.95	7.670	
17,800.00	9,920.57	17,754.65	9,873.22	132.85	132.73	89.51	7,732.99	649.70	1,429.67	1,242.45	187.22	7.636	
17,900.00	9,919.31	17,854.04	9,871.46	134.47	134.32	89.51	7,832.36	648.80	1,440.72	1,251.24	189.49	7.603	
18,000.00	9,918.05	17,953.43	9,869.70	136.09	135.92	89.51	7,931.73	647.90	1,451.78	1,260.02	191.76	7.571	
18,100.00	9,916.79	18,052.82	9,867.94	137.72	137.52	89.51	8,031.10	647.00	1,462.83	1,268.80	194.03	7.539	
18,200.00	9,915.54	18,152.20	9,866.17	139.34	139.12	89.52	8,130.46	646.10	1,473.88	1,277.57	196.31	7.508	
18,300.00	9,914.28	18,251.59	9,864.41	140.96	140.73	89.52	8,229.83	645.20	1,484.94	1,286.35	198.59	7.477	
18,400.00	9,913.02	18,350.98	9,862.65	142.59	142.33	89.52	8,329.20	644.30	1,495.99	1,295.12	200.87	7.448	
18,500.00	9,911.77	18,450.36	9,860.89	144.22	143.93	89.52	8,428.57	643.40	1,507.04	1,303.89	203.15	7.418	
18,600.00	9,910.51	18,549.75	9,859.13	145.85	145.54	89.52	8,527.93	642.50	1,518.09	1,312.66	205.43	7.390	
18,700.00	9,909.25	18,649.14	9,857.36	147.48	147.14	89.52	8,627.30	641.60	1,529.15	1,321.43	207.72	7.362	
18,800.00	9,907.99	18,748.53	9,855.60	149.12	148.75	89.52	8,726.67	640.70	1,540.20	1,330.20	210.00	7.334	
18,900.00	9,906.74	18,847.91	9,853.84	150.75	150.36	89.52	8,826.04	639.80	1,551.25	1,338.96	212.29	7.307	
19,000.00	9,905.48	18,947.30	9,852.08	152.39	151.97	89.52	8,925.41	638.90	1,562.30	1,347.73	214.58	7.281	
19,100.00	9,904.22	19,046.69	9,850.31	154.02	153.58	89.52	9,024.77	638.00	1,573.36	1,356.49	216.87	7.255	
19,200.00	9,902.97	19,146.08	9,848.55	155.66	155.19	89.52	9,124.14	637.10	1,584.39	1,365.23	219.16	7.229	
19,300.00	9,901.71	19,245.67	9,846.79	157.30	156.80	89.52	9,223.72	636.19	1,593.31	1,371.86	221.45	7.195	
19,400.00	9,900.45	19,345.52	9,845.02	158.95	158.42	89.52	9,323.54	635.29	1,598.76	1,375.00	223.76	7.145	
19,500.00	9,899.18	19,445.49	9,843.24	160.58	160.04	89.52	9,423.50	634.38	1,600.72	1,374.65	226.07	7.081	
19,600.00	9,897.92	19,545.49	9,841.47	162.21	161.66	89.52	9,523.48	633.48	1,600.74	1,372.37	228.36	7.010	
19,700.00	9,896.65	19,645.49	9,839.70	163.82	163.29	89.52	9,623.46	632.57	1,600.75	1,370.10	230.66	6.940	
19,800.00	9,895.39	19,745.49	9,837.92	165.44	164.91	89.52	9,723.44	631.67	1,600.77	1,367.82	232.95	6.872	
19,900.00	9,894.13	19,845.49	9,836.15	167.06	166.54	89.52	9,823.42	630.76	1,600.79	1,365.54	235.25	6.805	
20,000.00	9,892.86	19,945.49	9,834.38	168.68	168.16	89.52	9,923.39	629.86	1,600.80	1,363.26	237.54	6.739	
20,100.00	9,891.60	20,045.49	9,832.61	170.30	169.79	89.52	10,023.37	628.95	1,600.82	1,360.98	239.84	6.675	
20,200.00	9,890.34	20,145.49	9,830.83	171.92	171.41	89.52	10,123.35	628.04	1,600.83	1,358.70	242.13	6.611	
20,300.00	9,889.07	20,245.48	9,829.06	173.54	173.04	89.52	10,223.33	627.14	1,600.85	1,356.42	244.43	6.549	
20,305.75	9,889.00	20,248.79	9,829.00	173.63	173.09	89.61	10,226.64	627.11	1,600.85	1,356.32	244.53	6.547	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep Offsets - Dee Osborne 1930 State Com #123H - Wellbore #1 - Plan for AC												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	8.90	0.00	0.00	-158.38	-620.17	-245.78	667.15				
100.00	100.00	91.10	100.00	0.82	0.74	-158.38	-620.17	-245.78	667.09	665.99	1.10	605.059	
200.00	200.00	191.10	200.00	1.43	1.37	-158.38	-620.17	-245.78	667.09	665.11	1.98	336.382	
300.00	300.00	291.10	300.00	1.88	1.84	-158.38	-620.17	-245.78	667.09	664.47	2.63	253.726	
400.00	400.00	391.10	400.00	2.24	2.21	-158.38	-620.17	-245.78	667.09	663.95	3.15	211.814	
500.00	500.00	491.10	500.00	2.56	2.53	-158.38	-620.17	-245.78	667.09	663.50	3.60	185.384	
600.00	600.00	591.10	600.00	2.84	2.82	-158.38	-620.17	-245.78	667.09	663.09	4.00	166.752	
700.00	700.00	691.10	700.00	3.10	3.08	-158.38	-620.17	-245.78	667.09	662.73	4.37	152.698	
800.00	800.00	791.10	800.00	3.34	3.32	-158.38	-620.17	-245.78	667.09	662.38	4.71	141.604	
900.00	900.00	891.10	900.00	3.57	3.55	-158.38	-620.17	-245.78	667.09	662.06	5.03	132.553	
1,000.00	1,000.00	991.10	1,000.00	3.78	3.76	-158.38	-620.17	-245.78	667.09	661.76	5.34	124.983	
1,100.00	1,100.00	1,091.10	1,100.00	3.99	3.97	-158.38	-620.17	-245.78	667.09	661.47	5.63	118.529	
1,200.00	1,200.00	1,191.10	1,200.00	4.19	4.17	-158.38	-620.17	-245.78	667.09	661.19	5.91	112.938	
1,300.00	1,300.00	1,291.10	1,300.00	4.38	4.36	-158.38	-620.17	-245.78	667.09	660.92	6.17	108.032	
1,400.00	1,400.00	1,391.10	1,400.00	4.56	4.54	-158.38	-620.17	-245.78	667.09	660.66	6.43	103.682	
1,500.00	1,500.00	1,491.10	1,500.00	4.74	4.72	-158.38	-620.17	-245.78	667.09	660.41	6.69	99.788	
1,600.00	1,600.00	1,590.97	1,599.86	4.91	4.88	-158.32	-619.91	-246.45	667.10	660.19	6.92	96.442	
1,700.00	1,700.00	1,690.76	1,699.63	5.08	5.04	-158.11	-619.03	-248.74	667.14	659.99	7.15	93.359	
1,800.00	1,800.00	1,790.44	1,799.22	5.24	5.23	-157.75	-617.54	-252.65	667.22	659.85	7.37	90.526	
1,900.00	1,900.00	1,889.95	1,898.55	5.40	5.43	-157.24	-615.43	-258.17	667.39	659.80	7.59	87.912	
2,000.00	1,999.98	1,989.32	1,997.63	5.63	5.65	-156.71	-612.71	-265.28	666.59	658.79	7.80	85.474	
2,100.00	2,099.84	2,088.61	2,096.48	6.19	5.89	-156.26	-609.38	-273.99	663.75	655.62	8.13	81.662	
2,200.00	2,199.45	2,187.79	2,195.04	6.73	6.16	-155.89	-605.44	-284.29	658.84	650.38	8.46	77.847	
2,300.00	2,298.72	2,286.83	2,293.26	7.00	6.44	-155.59	-600.90	-296.16	651.94	643.24	8.70	74.934	
2,400.00	2,397.88	2,386.39	2,391.85	7.17	6.74	-155.25	-595.95	-309.09	644.56	635.63	8.93	72.150	
2,500.00	2,497.04	2,486.04	2,490.53	7.38	7.05	-154.90	-591.00	-322.04	637.21	628.02	9.19	69.339	
2,600.00	2,596.20	2,585.69	2,589.21	7.60	7.38	-154.54	-586.05	-334.99	629.88	620.42	9.46	66.601	
2,700.00	2,695.36	2,685.34	2,687.89	7.84	7.72	-154.18	-581.09	-347.95	622.57	612.84	9.74	63.944	
2,800.00	2,794.51	2,784.99	2,786.57	8.10	8.06	-153.80	-576.14	-360.90	615.29	605.27	10.03	61.374	
2,900.00	2,893.67	2,884.64	2,885.25	8.37	8.41	-153.41	-571.18	-373.86	608.04	597.72	10.32	58.895	
3,000.00	2,992.83	2,984.29	2,983.93	8.65	8.77	-153.02	-566.23	-386.81	600.82	590.19	10.63	56.508	
3,100.00	3,091.99	3,083.94	3,082.61	8.95	9.14	-152.62	-561.27	-399.76	593.63	582.68	10.95	54.211	
3,200.00	3,191.15	3,183.59	3,181.29	9.25	9.51	-152.20	-556.32	-412.72	586.47	575.19	11.28	52.006	
3,300.00	3,290.31	3,283.24	3,279.97	9.57	9.89	-151.78	-551.37	-425.67	579.34	567.73	11.61	49.892	
3,400.00	3,389.47	3,382.89	3,378.65	9.89	10.27	-151.34	-546.41	-438.62	572.24	560.29	11.96	47.866	
3,500.00	3,488.63	3,482.54	3,477.33	10.22	10.66	-150.90	-541.46	-451.58	565.18	552.88	12.31	45.927	
3,600.00	3,587.78	3,582.19	3,576.02	10.55	11.05	-150.44	-536.50	-464.53	558.16	545.49	12.67	44.070	
3,700.00	3,686.94	3,681.84	3,674.70	10.90	11.44	-149.97	-531.55	-477.48	551.17	538.14	13.03	42.293	
3,800.00	3,786.10	3,781.49	3,773.38	11.25	11.83	-149.49	-526.59	-490.44	544.22	530.81	13.41	40.593	
3,900.00	3,885.26	3,881.14	3,872.06	11.60	12.23	-149.00	-521.64	-503.39	537.31	523.52	13.79	38.967	
4,000.00	3,984.42	3,980.79	3,970.74	11.96	12.63	-148.49	-516.69	-516.34	530.44	516.26	14.18	37.412	
4,100.00	4,083.58	4,080.44	4,069.42	12.32	13.03	-147.97	-511.73	-529.30	523.61	509.04	14.58	35.925	
4,200.00	4,182.74	4,180.09	4,168.10	12.69	13.43	-147.44	-506.78	-542.25	516.83	501.85	14.98	34.503	
4,300.00	4,281.90	4,279.74	4,266.78	13.06	13.84	-146.89	-501.82	-555.21	510.10	494.71	15.39	33.141	
4,400.00	4,381.05	4,379.39	4,365.46	13.43	14.25	-146.33	-496.87	-568.16	503.41	487.60	15.81	31.838	
4,500.00	4,480.21	4,479.04	4,464.14	13.81	14.65	-145.75	-491.92	-581.11	496.78	480.54	16.24	30.590	
4,600.00	4,579.37	4,578.69	4,562.82	14.19	15.06	-145.16	-486.96	-594.07	490.20	473.52	16.68	29.396	
4,700.00	4,678.53	4,678.34	4,661.50	14.57	15.47	-144.55	-482.01	-607.02	483.67	466.55	17.12	28.253	
4,800.00	4,777.69	4,777.99	4,760.18	14.96	15.89	-143.93	-477.05	-619.97	477.20	459.63	17.57	27.159	
4,900.00	4,876.85	4,877.64	4,858.86	15.34	16.30	-143.28	-472.10	-632.93	470.79	452.76	18.03	26.110	
5,000.00	4,976.01	4,977.29	4,957.54	15.73	16.71	-142.62	-467.14	-645.88	464.44	445.94	18.50	25.105	
5,100.00	5,075.17	5,076.95	5,056.22	16.12	17.13	-141.95	-462.19	-658.83	458.16	439.18	18.98	24.142	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep Offsets - Dee Osborne 1930 State Com #123H - Wellbore #1 - Plan for AC												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
5,200.00	5,174.33	5,176.60	5,154.90	16.52	17.54	-141.25	-457.24	-671.79	451.94	432.48	19.46	23.219	
5,300.00	5,273.48	5,276.25	5,253.58	16.91	17.96	-140.53	-452.28	-684.74	445.79	425.83	19.96	22.335	
5,400.00	5,372.64	5,375.90	5,352.26	17.31	18.38	-139.79	-447.33	-697.69	439.72	419.25	20.47	21.486	
5,500.00	5,471.80	5,475.55	5,450.95	17.70	18.80	-139.04	-442.37	-710.65	433.72	412.74	20.98	20.673	
5,600.00	5,570.96	5,575.20	5,549.63	18.10	19.21	-138.26	-437.42	-723.60	427.80	406.30	21.50	19.894	
5,700.00	5,670.12	5,674.85	5,648.31	18.50	19.63	-137.46	-432.46	-736.56	421.96	399.92	22.04	19.146	
5,800.00	5,769.28	5,774.50	5,746.99	18.90	20.05	-136.64	-427.51	-749.51	416.21	393.63	22.58	18.429	
5,900.00	5,868.44	5,874.15	5,845.67	19.31	20.47	-135.79	-422.56	-762.46	410.55	387.41	23.14	17.742	
6,000.00	5,967.60	5,973.80	5,944.35	19.71	20.89	-134.92	-417.60	-775.42	404.98	381.28	23.71	17.083	
6,100.00	6,066.75	6,073.45	6,043.03	20.11	21.32	-134.03	-412.65	-788.37	399.51	375.23	24.28	16.451	
6,200.00	6,165.91	6,173.10	6,141.71	20.52	21.74	-133.11	-407.69	-801.32	394.14	369.27	24.87	15.846	
6,300.00	6,265.07	6,272.75	6,240.39	20.93	22.16	-132.16	-402.74	-814.28	388.88	363.40	25.47	15.266	
6,400.00	6,364.23	6,372.40	6,339.07	21.33	22.58	-131.19	-397.78	-827.23	383.72	357.63	26.09	14.710	
6,500.00	6,463.39	6,472.05	6,437.75	21.74	23.00	-130.20	-392.83	-840.18	378.68	351.97	26.71	14.178	
6,600.00	6,562.55	6,571.70	6,536.43	22.15	23.43	-129.17	-387.88	-853.14	373.76	346.41	27.35	13.668	
6,700.00	6,661.71	6,671.35	6,635.11	22.56	23.85	-128.12	-382.92	-866.09	368.96	340.97	27.99	13.181	
6,800.00	6,760.87	6,771.00	6,733.79	22.97	24.28	-127.05	-377.97	-879.04	364.29	335.64	28.65	12.715	
6,900.00	6,860.02	6,870.65	6,832.47	23.38	24.70	-125.94	-373.01	-892.00	359.75	330.43	29.32	12.270	
7,000.00	6,959.18	6,970.30	6,931.15	23.79	25.13	-124.81	-368.06	-904.95	355.35	325.35	30.00	11.844	
7,100.00	7,058.34	7,069.95	7,029.83	24.20	25.55	-123.64	-363.10	-917.90	351.10	320.40	30.70	11.438	
7,200.00	7,157.50	7,169.60	7,128.51	24.61	25.98	-122.45	-358.15	-930.86	347.00	315.60	31.40	11.051	
7,300.00	7,256.66	7,269.25	7,227.19	25.02	26.40	-121.23	-353.20	-943.81	343.04	310.93	32.11	10.682	
7,400.00	7,355.82	7,368.90	7,325.88	25.44	26.83	-119.98	-348.24	-956.77	339.25	306.42	32.84	10.331	
7,500.00	7,454.98	7,468.55	7,424.56	25.85	27.25	-118.71	-343.29	-969.72	335.63	302.06	33.57	9.998	
7,600.00	7,554.14	7,568.20	7,523.24	26.26	27.68	-117.40	-338.33	-982.67	332.17	297.86	34.31	9.681	
7,700.00	7,653.30	7,667.85	7,621.92	26.68	28.11	-116.07	-333.38	-995.63	328.89	293.83	35.06	9.380	
7,800.00	7,752.45	7,767.50	7,720.60	27.09	28.53	-114.72	-328.42	-1,008.58	325.80	289.98	35.82	9.096	
7,900.00	7,851.61	7,867.15	7,819.28	27.51	28.96	-113.33	-323.47	-1,021.53	322.89	286.31	36.58	8.827	
8,000.00	7,950.77	7,966.80	7,917.96	27.92	29.39	-111.92	-318.52	-1,034.49	320.17	282.82	37.35	8.573	
8,100.00	8,049.93	8,066.45	8,016.64	28.34	29.81	-110.49	-313.56	-1,047.44	317.64	279.53	38.11	8.334	
8,200.00	8,149.09	8,171.01	8,120.28	28.76	30.27	-109.05	-308.64	-1,060.31	314.76	275.87	38.88	8.095	
8,300.00	8,248.25	8,277.47	8,226.14	29.17	30.75	-107.88	-304.64	-1,070.77	309.96	270.37	39.59	7.830	
8,400.00	8,347.41	8,383.84	8,332.19	29.59	31.19	-107.02	-301.69	-1,078.47	303.08	262.88	40.20	7.539	
8,500.00	8,446.57	8,489.97	8,438.19	30.01	31.59	-106.47	-299.81	-1,083.40	294.06	253.33	40.73	7.219	
8,600.00	8,545.72	8,595.69	8,543.88	30.42	31.93	-106.24	-298.98	-1,085.57	282.86	241.71	41.15	6.873	
8,700.00	8,644.88	8,696.69	8,644.88	30.84	31.99	-106.28	-298.93	-1,085.69	270.02	228.56	41.45	6.514	
8,800.00	8,744.04	8,795.85	8,744.04	31.26	32.01	-106.34	-298.93	-1,085.69	257.07	215.30	41.77	6.154	
8,900.00	8,843.20	8,895.01	8,843.20	31.68	32.05	-106.41	-298.93	-1,085.69	244.13	202.05	42.09	5.800	
9,000.00	8,942.47	8,994.28	8,942.47	32.09	32.08	-106.47	-298.93	-1,085.69	232.11	189.71	42.40	5.474	
9,100.00	9,042.09	9,093.90	9,042.09	32.52	32.11	-106.52	-298.93	-1,085.69	223.43	180.69	42.74	5.228	
9,200.00	9,141.95	9,193.76	9,141.95	32.94	32.14	-106.56	-298.93	-1,085.69	218.22	175.15	43.07	5.067	
9,300.00	9,241.93	9,293.74	9,241.93	33.11	32.17	-106.57	-298.93	-1,085.69	216.51	173.29	43.22	5.009	
9,400.00	9,341.93	9,393.74	9,341.93	33.13	32.21	-106.57	-298.93	-1,085.69	216.51	173.24	43.26	5.004 CC	
9,466.39	9,408.31	9,460.12	9,408.31	33.15	32.23	-106.58	-298.93	-1,085.69	216.52	173.22	43.29	5.001	
9,500.00	9,441.93	9,493.74	9,441.93	33.15	32.24	-106.57	-298.93	-1,085.69	216.51	173.20	43.31	4.999 ES, SF	
9,600.00	9,541.41	9,593.35	9,531.30	33.11	32.19	-110.09	-304.18	-1,085.65	221.06	178.14	42.92	5.150	
9,700.00	9,637.84	9,689.71	9,637.84	33.02	32.10	-119.51	-319.50	-1,085.52	240.00	198.74	41.25	5.817	
9,800.00	9,728.29	9,779.71	9,728.29	32.94	32.02	-130.67	-337.44	-1,085.37	280.59	241.90	38.69	7.252	
9,900.00	9,810.02	9,860.00	9,810.02	32.89	31.98	-140.26	-350.23	-1,085.26	343.37	307.07	36.30	9.460	
10,000.00	9,880.54	9,930.52	9,880.54	32.88	31.94	-148.08	-361.26	-1,085.17	422.35	387.75	34.60	12.208	
10,100.00	9,937.70	9,987.70	9,937.70	32.94	31.93	-153.77	-364.76	-1,085.14	510.84	477.28	33.56	15.222	
10,200.00	9,979.78	10,029.78	9,979.78	33.09	31.94	-158.01	-363.61	-1,085.15	603.32	570.34	32.98	18.292	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep Offsets - Dee Osborne 1930 State Com #123H - Wellbore #1 - Plan for AC												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
10,300.00	10,005.49	9,770.51	9,709.37	33.35	31.95	-161.22	-359.04	-1,085.19	695.81	663.10	32.71	21.275	
10,400.00	10,014.05	9,750.00	9,690.85	33.71	31.98	-163.62	-350.23	-1,085.26	785.45	752.83	32.62	24.082	
10,500.00	10,012.82	9,750.00	9,690.85	34.18	31.98	-165.67	-350.23	-1,085.26	873.57	840.94	32.63	26.775	
10,600.00	10,011.56	9,721.95	9,665.04	34.72	32.01	-167.12	-339.26	-1,085.36	962.92	930.29	32.62	29.515	
10,700.00	10,010.29	9,700.00	9,644.49	35.32	32.04	-168.36	-331.56	-1,085.42	1,053.94	1,021.29	32.65	32.279	
10,800.00	10,009.03	9,700.00	9,644.49	35.98	32.04	-169.47	-331.56	-1,085.42	1,145.91	1,113.20	32.71	35.031	
10,900.00	10,007.77	9,700.00	9,644.49	36.70	32.04	-170.40	-331.56	-1,085.42	1,239.12	1,206.35	32.77	37.815	
11,000.00	10,006.50	9,675.77	9,621.47	37.48	32.08	-171.13	-323.99	-1,085.48	1,332.59	1,299.78	32.81	40.612	
11,100.00	10,005.24	9,650.00	9,596.67	38.30	32.11	-171.77	-317.01	-1,085.54	1,427.33	1,394.47	32.86	43.434	
11,200.00	10,003.97	9,650.00	9,596.67	39.17	32.11	-172.36	-317.01	-1,085.54	1,522.02	1,489.10	32.92	46.231	
11,300.00	10,002.71	9,650.00	9,596.67	40.09	32.11	-172.88	-317.01	-1,085.54	1,617.35	1,584.38	32.98	49.042	
11,400.00	10,001.45	9,650.00	9,596.67	41.04	32.11	-173.34	-317.01	-1,085.54	1,713.22	1,680.19	33.03	51.864	
11,500.00	10,000.18	9,650.00	9,596.67	42.04	32.11	-173.74	-317.01	-1,085.54	1,809.53	1,776.45	33.08	54.696	
11,600.00	9,998.92	9,650.00	9,596.67	43.07	32.11	-174.11	-317.01	-1,085.54	1,906.22	1,873.09	33.13	57.534	
11,700.00	9,997.66	9,628.10	9,575.36	44.13	32.14	-174.42	-311.95	-1,085.58	2,002.70	1,969.52	33.19	60.347	
11,800.00	9,996.39	9,623.27	9,570.63	45.23	32.14	-174.71	-310.95	-1,085.59	2,099.74	2,066.51	33.24	63.177	
11,900.00	9,995.13	9,600.00	9,547.76	46.36	32.17	-174.97	-306.67	-1,085.63	2,197.39	2,164.10	33.29	66.002	
12,000.00	9,993.87	9,600.00	9,547.76	47.51	32.17	-175.21	-306.67	-1,085.63	2,294.70	2,261.36	33.34	68.828	
12,100.00	9,992.60	9,600.00	9,547.76	48.70	32.17	-175.44	-306.67	-1,085.63	2,392.22	2,358.84	33.38	71.656	
12,200.00	9,991.34	9,600.00	9,547.76	49.90	32.17	-175.65	-306.67	-1,085.63	2,489.94	2,456.51	33.43	74.486	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep Offsets - Dee Osborne 1930 State Com #124H - Wellbore #1 - Plan for AC												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
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	0.00	8.70	0.00	0.00	-157.39	-589.97	-245.73	639.16				
100.00	100.00	91.30	100.00	0.82	0.74	-157.39	-589.97	-245.73	639.10	638.00	1.10	579.095	
200.00	200.00	191.30	200.00	1.43	1.37	-157.39	-589.97	-245.73	639.10	637.12	1.98	322.126	
300.00	300.00	291.30	300.00	1.88	1.84	-157.39	-589.97	-245.73	639.10	636.47	2.63	243.020	
400.00	400.00	391.30	400.00	2.24	2.21	-157.39	-589.97	-245.73	639.10	635.95	3.15	202.892	
500.00	500.00	491.30	500.00	2.56	2.53	-157.39	-589.97	-245.73	639.10	635.50	3.60	177.582	
600.00	600.00	591.30	600.00	2.84	2.82	-157.39	-589.97	-245.73	639.10	635.10	4.00	159.738	
700.00	700.00	691.30	700.00	3.10	3.08	-157.39	-589.97	-245.73	639.10	634.73	4.37	146.278	
800.00	800.00	791.30	800.00	3.34	3.32	-157.39	-589.97	-245.73	639.10	634.39	4.71	135.651	
900.00	900.00	891.30	900.00	3.57	3.55	-157.39	-589.97	-245.73	639.10	634.07	5.03	126.982	
1,000.00	1,000.00	991.30	1,000.00	3.78	3.76	-157.39	-589.97	-245.73	639.10	633.76	5.34	119.732	
1,100.00	1,100.00	1,091.30	1,100.00	3.99	3.97	-157.39	-589.97	-245.73	639.10	633.47	5.63	113.549	
1,200.00	1,200.00	1,191.30	1,200.00	4.19	4.17	-157.39	-589.97	-245.73	639.10	633.19	5.91	108.193	
1,300.00	1,300.00	1,291.30	1,300.00	4.38	4.36	-157.39	-589.97	-245.73	639.10	632.92	6.18	103.494	
1,400.00	1,400.00	1,391.30	1,400.00	4.56	4.54	-157.39	-589.97	-245.73	639.10	632.66	6.43	99.327	
1,500.00	1,500.00	1,491.30	1,500.00	4.74	4.72	-157.39	-589.97	-245.73	639.10	632.41	6.69	95.597	
1,600.00	1,600.00	1,600.45	1,609.15	4.91	4.90	-157.43	-589.50	-244.99	638.44	631.51	6.93	92.111	
1,700.00	1,700.00	1,710.41	1,719.06	5.08	5.09	-157.59	-587.91	-242.47	636.23	629.05	7.18	88.610	
1,800.00	1,800.00	1,820.21	1,828.74	5.24	5.30	-157.85	-585.20	-238.17	632.46	625.02	7.43	85.086	
1,900.00	1,900.00	1,929.77	1,938.07	5.40	5.53	-158.24	-581.37	-232.11	627.15	619.46	7.69	81.526	
2,000.00	1,999.98	2,038.82	2,046.73	5.63	5.79	-158.87	-576.46	-224.32	619.30	611.35	7.95	77.943	
2,100.00	2,099.84	2,146.88	2,154.20	6.19	6.07	-159.90	-570.50	-214.88	608.01	599.71	8.30	73.218	
2,200.00	2,199.45	2,253.53	2,260.06	6.73	6.37	-161.36	-563.57	-203.89	593.55	584.90	8.65	68.614	
2,300.00	2,298.72	2,353.98	2,359.55	7.00	6.67	-163.23	-556.21	-192.22	576.58	567.68	8.90	64.808	
2,400.00	2,397.88	2,450.45	2,455.09	7.17	6.97	-165.27	-549.04	-180.87	559.67	550.53	9.14	61.255	
2,500.00	2,497.04	2,546.92	2,550.62	7.38	7.28	-167.43	-541.88	-169.51	543.51	534.12	9.39	57.894	
2,600.00	2,596.20	2,643.39	2,646.15	7.60	7.60	-169.71	-534.71	-158.16	528.17	518.53	9.64	54.801	
2,700.00	2,695.36	2,739.87	2,741.69	7.84	7.93	-172.13	-527.55	-146.80	513.72	503.84	9.88	51.977	
2,800.00	2,794.51	2,836.34	2,837.22	8.10	8.27	-174.68	-520.38	-135.45	500.25	490.12	10.12	49.418	
2,900.00	2,893.67	2,932.81	2,932.75	8.37	8.62	-177.37	-513.22	-124.09	487.82	477.46	10.35	47.113	
3,000.00	2,992.83	3,029.28	3,028.29	8.65	8.97	-179.82	-506.05	-112.74	476.52	465.94	10.58	45.053	
3,100.00	3,091.99	3,125.76	3,123.82	8.95	9.33	-176.88	-498.89	-101.38	466.44	455.64	10.79	43.220	
3,200.00	3,191.15	3,222.23	3,219.36	9.25	9.69	-173.81	-491.73	-90.03	457.65	446.64	11.00	41.598	
3,300.00	3,290.31	3,318.70	3,314.89	9.57	10.06	-170.65	-484.56	-78.67	450.23	439.02	11.21	40.167	
3,400.00	3,389.47	3,415.17	3,410.42	9.89	10.43	-167.38	-477.40	-67.32	444.25	432.83	11.42	38.905	
3,500.00	3,488.63	3,511.64	3,505.96	10.22	10.80	-164.05	-470.23	-55.96	439.76	428.13	11.64	37.791	
3,600.00	3,587.78	3,608.12	3,601.49	10.55	11.18	-160.66	-463.07	-44.61	436.82	424.95	11.87	36.799	
3,700.00	3,686.94	3,704.59	3,697.02	10.90	11.56	-157.23	-455.90	-33.25	435.46	423.33	12.13	35.911	
3,735.94	3,722.58	3,739.26	3,731.36	11.02	11.70	-156.00	-453.33	-29.17	435.35	423.13	12.23	35.611 CC, ES	
3,800.00	3,786.10	3,801.06	3,792.56	11.25	11.94	-153.80	-448.74	-21.90	435.68	423.27	12.41	35.104	
3,900.00	3,885.26	3,897.53	3,888.09	11.60	12.33	-150.39	-441.57	-10.54	437.49	424.76	12.73	34.362	
4,000.00	3,984.42	3,994.01	3,983.62	11.96	12.72	-147.01	-434.41	0.81	440.87	427.78	13.09	33.678	
4,100.00	4,083.58	4,090.48	4,079.16	12.32	13.11	-143.70	-427.24	12.17	445.78	432.29	13.49	33.042	
4,200.00	4,182.74	4,186.95	4,174.69	12.69	13.50	-140.47	-420.08	23.52	452.17	438.24	13.93	32.452	
4,300.00	4,281.90	4,283.42	4,270.22	13.06	13.89	-137.34	-412.92	34.88	459.98	445.57	14.42	31.909	
4,400.00	4,381.05	4,379.90	4,365.76	13.43	14.28	-134.33	-405.75	46.23	469.14	454.21	14.94	31.411	
4,500.00	4,480.21	4,476.37	4,461.29	13.81	14.68	-131.43	-398.59	57.59	479.58	464.09	15.49	30.962	
4,600.00	4,579.37	4,572.84	4,556.82	14.19	15.08	-128.67	-391.42	68.94	491.20	475.13	16.07	30.564	
4,700.00	4,678.53	4,669.31	4,652.36	14.57	15.47	-126.03	-384.26	80.30	503.93	487.25	16.68	30.216	
4,800.00	4,777.69	4,765.79	4,747.89	14.96	15.87	-123.53	-377.09	91.65	517.69	500.39	17.30	29.917	
4,900.00	4,876.85	4,862.26	4,843.43	15.34	16.27	-121.16	-369.93	103.01	532.40	514.45	17.95	29.666	
5,000.00	4,976.01	4,958.73	4,938.96	15.73	16.67	-118.92	-362.76	114.36	547.97	529.37	18.60	29.460	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep Offsets - Dee Osborne 1930 State Com #124H - Wellbore #1 - Plan for AC												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	5,075.17	5,055.20	5,034.49	16.12	17.07	116.81	-355.60	125.72	564.35	545.09	19.26	29.297	
5,200.00	5,174.33	5,151.68	5,130.03	16.52	17.48	114.82	-348.44	137.07	581.46	561.52	19.93	29.173	
5,300.00	5,273.48	5,248.15	5,225.56	16.91	17.88	112.94	-341.27	148.43	599.23	578.63	20.60	29.084	
5,400.00	5,372.64	5,344.62	5,321.09	17.31	18.28	111.17	-334.11	159.78	617.62	596.34	21.28	29.027	
5,500.00	5,471.80	5,441.09	5,416.63	17.70	18.69	109.50	-326.94	171.14	636.56	614.61	21.95	28.999	
5,600.00	5,570.96	5,537.56	5,512.16	18.10	19.09	107.93	-319.78	182.49	656.02	633.39	22.62	28.996	
5,700.00	5,670.12	5,634.04	5,607.69	18.50	19.50	106.45	-312.61	193.85	675.94	652.64	23.30	29.016	
5,800.00	5,769.28	5,735.31	5,708.00	18.90	19.95	105.03	-305.20	205.61	696.16	672.15	24.01	28.993	
5,900.00	5,868.44	5,846.56	5,818.52	19.31	20.49	103.76	-298.39	216.40	715.23	690.45	24.78	28.864	
6,000.00	5,967.60	5,959.31	5,930.85	19.71	20.98	102.72	-293.24	224.55	732.56	707.09	25.47	28.761	
6,100.00	6,066.75	6,073.39	6,044.75	20.11	21.45	101.91	-289.84	229.95	748.00	721.89	26.11	28.649	
6,200.00	6,165.91	6,188.62	6,159.94	20.52	21.84	101.32	-288.24	232.47	761.41	734.73	26.68	28.540 SF	
6,300.00	6,265.07	6,293.76	6,265.07	20.93	21.94	100.88	-288.12	232.66	773.16	746.09	27.07	28.557	
6,400.00	6,364.23	6,392.92	6,364.23	21.33	21.98	100.46	-288.12	232.66	784.82	757.37	27.45	28.591	
6,500.00	6,463.39	6,492.07	6,463.39	21.74	22.02	100.06	-288.12	232.66	796.51	768.68	27.83	28.622	
6,600.00	6,562.55	6,591.23	6,562.55	22.15	22.07	99.67	-288.12	232.66	808.24	780.04	28.21	28.653	
6,700.00	6,661.71	6,690.39	6,661.71	22.56	22.11	99.29	-288.12	232.66	820.01	791.42	28.59	28.683	
6,800.00	6,760.87	6,789.55	6,760.87	22.97	22.16	98.92	-288.12	232.66	831.82	802.85	28.97	28.713	
6,900.00	6,860.02	6,888.71	6,860.02	23.38	22.21	98.56	-288.12	232.66	843.65	814.30	29.35	28.743	
7,000.00	6,959.18	6,987.87	6,959.18	23.79	22.25	98.22	-288.12	232.66	855.52	825.79	29.73	28.772	
7,100.00	7,058.34	7,087.03	7,058.34	24.20	22.30	97.88	-288.12	232.66	867.42	837.31	30.12	28.800	
7,200.00	7,157.50	7,186.19	7,157.50	24.61	22.35	97.55	-288.12	232.66	879.35	848.85	30.50	28.828	
7,300.00	7,256.66	7,285.34	7,256.66	25.02	22.39	97.23	-288.12	232.66	891.31	860.42	30.89	28.855	
7,400.00	7,355.82	7,384.50	7,355.82	25.44	22.44	96.92	-288.12	232.66	903.30	872.02	31.28	28.882	
7,500.00	7,454.98	7,483.66	7,454.98	25.85	22.49	96.61	-288.12	232.66	915.31	883.65	31.66	28.908	
7,600.00	7,554.14	7,582.82	7,554.14	26.26	22.54	96.32	-288.12	232.66	927.35	895.29	32.05	28.934	
7,700.00	7,653.30	7,681.98	7,653.30	26.68	22.58	96.03	-288.12	232.66	939.41	906.97	32.44	28.959	
7,800.00	7,752.45	7,781.14	7,752.45	27.09	22.63	95.75	-288.12	232.66	951.49	918.66	32.83	28.984	
7,900.00	7,851.61	7,880.30	7,851.61	27.51	22.68	95.47	-288.12	232.66	963.60	930.38	33.22	29.008	
8,000.00	7,950.77	7,979.46	7,950.77	27.92	22.73	95.21	-288.12	232.66	975.72	942.11	33.61	29.032	
8,100.00	8,049.93	8,078.61	8,049.93	28.34	22.78	94.94	-288.12	232.66	987.87	953.87	34.00	29.055	
8,200.00	8,149.09	8,177.77	8,149.09	28.76	22.83	94.69	-288.12	232.66	1,000.04	965.65	34.39	29.077	
8,300.00	8,248.25	8,276.93	8,248.25	29.17	22.88	94.44	-288.12	232.66	1,012.23	977.44	34.79	29.099	
8,400.00	8,347.41	8,376.09	8,347.41	29.59	22.92	94.20	-288.12	232.66	1,024.43	989.25	35.18	29.120	
8,500.00	8,446.57	8,475.25	8,446.57	30.01	22.97	93.96	-288.12	232.66	1,036.66	1,001.08	35.57	29.141	
8,600.00	8,545.72	8,574.41	8,545.72	30.42	23.02	93.73	-288.12	232.66	1,048.90	1,012.93	35.97	29.162	
8,700.00	8,644.88	8,673.57	8,644.88	30.84	23.07	93.51	-288.12	232.66	1,061.16	1,024.79	36.36	29.181	
8,800.00	8,744.04	8,772.73	8,744.04	31.26	23.12	93.29	-288.12	232.66	1,073.43	1,036.67	36.76	29.201	
8,900.00	8,843.20	8,871.89	8,843.20	31.68	23.17	93.07	-288.12	232.66	1,085.72	1,048.56	37.16	29.219	
9,000.00	8,942.47	8,971.16	8,942.47	32.09	23.22	92.87	-288.12	232.66	1,097.15	1,059.61	37.54	29.225	
9,100.00	9,042.09	9,070.77	9,042.09	32.52	23.27	92.73	-288.12	232.66	1,105.42	1,067.48	37.94	29.135	
9,200.00	9,141.95	9,170.63	9,141.95	32.94	23.32	92.65	-288.12	232.66	1,110.37	1,072.06	38.31	28.982	
9,300.00	9,241.93	9,270.61	9,241.93	33.11	23.38	92.63	-288.12	232.66	1,112.01	1,073.51	38.49	28.889	
9,400.00	9,341.93	9,370.61	9,341.93	33.13	23.43	92.63	-288.12	232.66	1,112.01	1,073.46	38.54	28.852	
9,410.50	9,352.43	9,381.12	9,352.43	33.13	23.43	92.63	-288.12	232.66	1,112.01	1,073.46	38.55	28.848	
9,500.00	9,441.93	9,470.40	9,441.72	33.15	23.47	92.63	-288.13	232.66	1,112.01	1,073.42	38.59	28.819	
9,600.00	9,541.41	9,568.40	9,529.35	33.11	23.39	93.44	-295.18	232.72	1,113.05	1,074.61	38.45	28.951	
9,700.00	9,637.84	9,633.59	9,602.63	33.02	23.31	95.62	-311.77	232.86	1,117.28	1,079.24	38.04	29.367	
9,800.00	9,728.29	9,689.49	9,655.36	32.94	23.24	98.70	-330.25	233.01	1,127.21	1,089.79	37.42	30.121	
9,900.00	9,810.02	9,725.88	9,688.62	32.89	23.20	102.29	-345.01	233.14	1,145.09	1,108.47	36.62	31.269	
10,000.00	9,880.54	9,750.00	9,710.11	32.88	23.17	106.23	-355.94	233.23	1,171.92	1,136.25	35.67	32.851	
10,100.00	9,937.70	9,750.00	9,710.11	32.94	23.17	110.02	-355.94	233.23	1,207.31	1,172.66	34.65	34.848	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep Offsets - Dee Osborne 1930 State Com #124H - Wellbore #1 - Plan for AC												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
10,200.00	9,979.78	9,750.00	9,710.11	33.09	23.17	114.01	-355.94	233.23	1,249.83	1,216.24	33.59	37.206	
10,300.00	10,005.49	9,750.00	9,710.11	33.35	23.17	117.99	-355.94	233.23	1,297.57	1,264.99	32.58	39.825	
10,400.00	10,014.05	9,722.87	9,685.90	33.71	23.20	121.35	-343.71	233.13	1,347.97	1,316.34	31.63	42.615	
10,500.00	10,012.82	9,700.00	9,665.06	34.18	23.23	124.60	-334.30	233.05	1,401.27	1,370.51	30.76	45.551	
10,600.00	10,011.56	9,700.00	9,665.06	34.72	23.23	127.91	-334.30	233.05	1,459.06	1,429.03	30.03	48.592	
10,700.00	10,010.29	9,675.78	9,642.60	35.32	23.26	130.68	-325.24	232.97	1,520.69	1,491.37	29.32	51.863	
10,800.00	10,009.03	9,650.00	9,618.29	35.98	23.29	133.24	-316.66	232.90	1,586.20	1,557.51	28.69	55.293	
10,900.00	10,007.77	9,650.00	9,618.29	36.70	23.29	135.82	-316.66	232.90	1,654.59	1,626.38	28.21	58.650	
11,000.00	10,006.50	9,650.00	9,618.29	37.48	23.29	138.17	-316.66	232.90	1,726.07	1,698.26	27.81	62.068	
11,100.00	10,005.24	9,650.00	9,618.29	38.30	23.29	140.32	-316.66	232.90	1,800.27	1,772.79	27.48	65.520	
11,200.00	10,003.97	9,625.44	9,594.79	39.17	23.32	142.16	-309.51	232.84	1,876.28	1,849.15	27.13	69.163	
11,300.00	10,002.71	9,600.00	9,570.16	40.09	23.35	143.86	-303.17	232.79	1,954.89	1,928.06	26.83	72.862	
11,400.00	10,001.45	9,600.00	9,570.16	41.04	23.35	145.54	-303.17	232.79	2,034.81	2,008.15	26.66	76.325	
11,500.00	10,000.18	9,600.00	9,570.16	42.04	23.35	147.08	-303.17	232.79	2,116.43	2,089.90	26.53	79.776	
11,600.00	9,998.92	9,600.00	9,570.16	43.07	23.35	148.51	-303.17	232.79	2,199.57	2,173.13	26.43	83.212	
11,700.00	9,997.66	9,600.00	9,570.16	44.13	23.35	149.82	-303.17	232.79	2,284.06	2,257.69	26.37	86.629	
11,800.00	9,996.39	9,600.00	9,570.16	45.23	23.35	151.04	-303.17	232.79	2,369.76	2,343.44	26.32	90.027	
11,900.00	9,995.13	9,600.00	9,570.16	46.36	23.35	152.17	-303.17	232.79	2,456.54	2,430.24	26.30	93.404	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep Offsets - New Mexico O State NCT 1 #1 (P&A) - Wellbore #1 - Surveys												Offset Site Error:	0.00 usft
Survey Program: 450-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	
0.00	0.00	0.00	10.00	0.00	0.00	-24.08	1,733.73	-774.93	1,899.06				
100.00	100.00	90.00	100.00	0.82	3.82	-24.08	1,733.73	-774.93	1,899.03	1,896.81	2.22	853.631	
200.00	200.00	190.00	200.00	1.43	8.07	-24.08	1,733.73	-774.93	1,899.03	1,894.44	4.59	413.286	
300.00	300.00	290.00	300.00	1.88	12.32	-24.08	1,733.73	-774.93	1,899.03	1,892.11	6.92	274.461	
400.00	400.00	390.00	400.00	2.24	16.57	-24.08	1,733.73	-774.93	1,899.03	1,889.81	9.23	205.813	
500.00	500.00	490.01	500.00	2.56	19.86	-24.08	1,733.73	-774.93	1,899.03	1,887.68	11.35	167.274	
600.00	600.00	590.01	600.00	2.84	21.71	-24.08	1,733.73	-774.93	1,899.03	1,885.85	13.18	144.100	
700.00	700.00	692.95	702.94	3.10	23.63	-24.08	1,734.05	-774.93	1,899.33	1,884.32	15.01	126.513	
800.00	800.00	797.47	807.46	3.34	25.58	-24.08	1,733.74	-774.93	1,899.06	1,882.21	16.84	112.751	
838.11	838.11	828.13	838.11	3.43	26.05	-24.08	1,733.73	-774.93	1,899.03	1,881.64	17.39	109.214	
900.00	900.00	890.02	900.00	3.57	26.98	-24.08	1,733.73	-774.93	1,899.03	1,880.56	18.47	102.797	
1,000.00	1,000.00	992.43	1,002.41	3.78	28.54	-24.08	1,734.01	-774.93	1,899.30	1,879.05	20.24	93.833	
1,100.00	1,100.00	1,097.90	1,107.88	3.99	30.15	-24.08	1,733.70	-774.93	1,899.03	1,876.99	22.03	86.195	
1,132.15	1,132.15	1,122.17	1,132.15	4.05	30.59	-24.08	1,733.73	-774.93	1,899.03	1,876.54	22.49	84.426	
1,200.00	1,200.00	1,190.03	1,200.00	4.19	31.79	-24.08	1,733.73	-774.93	1,899.03	1,875.29	23.74	79.980	
1,300.00	1,300.00	1,290.15	1,300.12	4.38	33.56	-24.08	1,733.94	-774.93	1,899.22	1,873.65	25.58	74.260	
1,400.00	1,400.00	1,392.16	1,402.13	4.56	35.38	-24.08	1,733.87	-774.93	1,899.16	1,871.74	27.43	69.241	
1,500.00	1,500.00	1,490.04	1,500.00	4.74	37.13	-24.08	1,733.73	-774.93	1,899.03	1,869.82	29.22	64.999	
1,600.00	1,600.00	1,590.04	1,600.00	4.91	38.94	-24.08	1,733.73	-774.93	1,899.03	1,867.89	31.15	60.973	
1,700.00	1,700.00	1,695.00	1,704.95	5.08	40.84	-24.08	1,734.13	-774.93	1,899.41	1,866.25	33.16	57.285	
1,800.00	1,800.00	1,790.07	1,800.00	5.24	42.57	-24.08	1,733.73	-774.93	1,899.03	1,864.06	34.98	54.295	
1,900.00	1,900.00	1,890.07	1,900.00	5.40	44.49	-24.08	1,733.73	-774.93	1,899.03	1,862.10	36.93	51.422	
2,000.00	1,999.98	1,991.12	2,001.05	5.63	46.43	-24.02	1,734.35	-774.93	1,899.33	1,860.43	38.90	48.824	
2,100.00	2,099.84	2,097.27	2,107.20	6.19	48.47	-23.87	1,734.09	-774.93	1,898.31	1,857.33	40.98	46.326	
2,200.00	2,199.45	2,189.55	2,199.45	6.73	50.24	-23.62	1,733.73	-774.93	1,896.65	1,853.86	42.79	44.328	
2,300.00	2,298.72	2,288.82	2,298.72	7.00	52.09	-23.25	1,733.73	-774.93	1,894.91	1,850.20	44.71	42.386	
2,400.00	2,397.88	2,392.00	2,401.89	7.17	54.02	-22.86	1,734.21	-774.93	1,893.57	1,846.86	46.70	40.543	
2,500.00	2,497.04	2,498.43	2,508.32	7.38	56.02	-22.48	1,733.74	-774.93	1,891.46	1,842.70	48.76	38.789	
2,600.00	2,596.20	2,586.32	2,596.20	7.60	58.02	-22.09	1,733.73	-774.93	1,889.80	1,839.18	50.62	37.330	
2,700.00	2,695.36	2,685.48	2,695.36	7.84	60.29	-21.70	1,733.73	-774.93	1,888.27	1,835.55	52.72	35.815	
2,800.00	2,794.51	2,785.13	2,795.00	8.10	62.57	-21.30	1,734.31	-774.93	1,887.37	1,832.53	54.84	34.418	
2,900.00	2,893.67	2,887.23	2,897.11	8.37	64.91	-20.91	1,734.19	-774.93	1,885.92	1,828.91	57.00	33.084	
3,000.00	2,892.83	2,889.35	2,899.22	8.65	67.25	-20.52	1,733.91	-774.93	1,884.39	1,825.22	59.17	31.845	
3,100.00	3,091.99	3,082.18	3,091.99	8.95	69.32	-20.13	1,733.73	-774.93	1,883.04	1,821.86	61.17	30.782	
3,200.00	3,191.15	3,181.34	3,191.15	9.25	71.47	-19.74	1,733.73	-774.93	1,881.95	1,818.62	63.32	29.719	
3,300.00	3,290.31	3,287.12	3,296.92	9.57	73.77	-19.34	1,734.63	-774.93	1,881.81	1,816.20	65.62	28.679	
3,400.00	3,389.47	3,397.75	3,407.54	9.89	76.18	-18.95	1,733.87	-774.93	1,880.25	1,812.25	68.00	27.649	
3,500.00	3,488.63	3,478.87	3,488.63	10.22	77.76	-18.56	1,733.73	-774.93	1,879.21	1,809.50	69.72	26.955	
3,600.00	3,587.78	3,580.02	3,589.77	10.55	79.68	-18.16	1,734.19	-774.93	1,878.92	1,807.11	71.81	26.165	
3,700.00	3,686.94	3,687.93	3,697.68	10.90	81.74	-17.77	1,733.80	-774.93	1,877.94	1,803.90	74.03	25.366	
3,800.00	3,786.10	3,776.38	3,786.10	11.25	83.47	-17.38	1,733.73	-774.93	1,877.28	1,801.31	75.96	24.713	
3,900.00	3,885.26	3,887.94	3,897.65	11.60	85.66	-16.98	1,733.90	-774.93	1,877.02	1,798.63	78.39	23.945	
4,000.00	3,984.42	3,974.74	3,984.42	11.96	87.61	-16.59	1,733.73	-774.93	1,876.43	1,795.90	80.54	23.299	
4,100.00	4,083.58	4,073.90	4,083.58	12.32	89.96	-16.19	1,733.73	-774.93	1,876.15	1,793.07	83.07	22.585	
4,105.77	4,089.30	4,079.62	4,089.30	12.34	90.09	-16.17	1,733.73	-774.93	1,876.13	1,792.91	83.22	22.545	
4,200.00	4,182.74	4,185.30	4,194.96	12.69	92.59	-15.79	1,734.30	-774.93	1,876.54	1,790.63	85.90	21.845	
4,300.00	4,281.90	4,272.38	4,281.90	13.06	94.75	-15.40	1,733.73	-774.93	1,875.84	1,787.61	88.23	21.260	
4,373.00	4,354.28	4,344.76	4,354.28	13.33	96.80	-15.11	1,733.73	-774.93	1,875.81	1,785.41	90.40	20.750	
4,400.00	4,381.05	4,371.54	4,381.05	13.43	97.56	-15.01	1,733.73	-774.93	1,875.82	1,784.61	91.20	20.567	
4,500.00	4,480.21	4,487.19	4,496.66	13.81	100.83	-14.60	1,734.98	-774.93	1,877.17	1,782.52	94.65	19.833	
4,600.00	4,579.37	4,614.55	4,623.96	14.19	104.44	-14.22	1,732.85	-774.93	1,875.73	1,777.32	98.40	19.062	
4,604.90	4,584.23	4,620.80	4,630.21	14.21	104.61	-14.21	1,732.70	-774.93	1,875.62	1,777.03	98.59	19.025	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep Offsets - New Mexico O State NCT 1 #1 (P&A) - Wellbore #1 - Surveys													Offset Site Error:	0.00 usft
Survey Program: 450-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		
4,700.00	4,678.53	4,669.29	4,678.53	14.57	106.06	-13.82	1,733.73	-774.93	1,876.29	1,776.21	100.08	18.748		
4,800.00	4,777.69	4,768.45	4,777.69	14.96	108.95	-13.43	1,733.73	-774.93	1,876.63	1,773.62	103.01	18.218		
4,900.00	4,876.85	4,877.59	4,886.76	15.34	112.13	-13.01	1,736.21	-774.93	1,879.50	1,773.26	106.23	17.692		
5,000.00	4,976.01	4,996.56	5,005.68	15.73	115.60	-12.63	1,734.93	-774.93	1,878.97	1,769.25	109.72	17.125		
5,091.74	5,066.97	5,105.82	5,114.87	16.09	118.79	-12.28	1,732.63	-774.93	1,877.66	1,764.74	112.92	16.629		
5,100.00	5,075.17	5,066.27	5,075.17	16.12	117.60	-12.24	1,733.73	-774.93	1,878.17	1,766.39	111.79	16.801		
5,200.00	5,174.33	5,165.42	5,174.33	16.52	119.88	-11.85	1,733.73	-774.93	1,878.86	1,764.73	114.14	16.461		
5,300.00	5,273.48	5,271.48	5,280.35	16.91	122.33	-11.45	1,734.95	-774.93	1,880.86	1,764.21	116.65	16.124		
5,400.00	5,372.64	5,390.47	5,399.32	17.31	125.07	-11.06	1,733.87	-774.93	1,880.84	1,761.40	119.44	15.747		
5,435.00	5,407.35	5,432.14	5,440.98	17.45	126.03	-10.93	1,733.19	-774.93	1,880.62	1,760.20	120.42	15.617		
5,500.00	5,471.80	5,462.99	5,471.80	17.70	126.70	-10.67	1,733.73	-774.93	1,881.48	1,760.33	121.15	15.530		
5,600.00	5,570.96	5,562.14	5,570.96	18.10	128.92	-10.27	1,733.73	-774.93	1,882.52	1,759.10	123.42	15.253		
5,700.00	5,670.12	5,664.08	5,672.89	18.50	131.20	-9.88	1,734.39	-774.93	1,884.32	1,758.56	125.76	14.984		
5,800.00	5,769.28	5,769.21	5,778.02	18.90	133.56	-9.49	1,734.07	-774.93	1,885.24	1,757.08	128.16	14.710		
5,900.00	5,868.44	5,859.71	5,868.44	19.31	135.57	-9.10	1,733.73	-774.93	1,886.20	1,755.95	130.24	14.482		
6,000.00	5,967.60	5,958.87	5,967.60	19.71	137.75	-8.71	1,733.73	-774.93	1,887.60	1,755.09	132.51	14.245		
6,100.00	6,066.75	6,069.04	6,077.75	20.11	140.16	-8.31	1,734.59	-774.93	1,889.97	1,754.96	135.01	13.999		
6,200.00	6,165.91	6,185.61	6,194.30	20.52	142.73	-7.93	1,733.37	-774.93	1,890.52	1,752.88	137.64	13.736		
6,300.00	6,265.07	6,256.41	6,265.07	20.93	144.06	-7.54	1,733.73	-774.93	1,892.32	1,753.27	139.05	13.609		
6,400.00	6,364.23	6,355.57	6,364.23	21.33	146.01	-7.15	1,733.73	-774.93	1,894.07	1,753.01	141.06	13.427		
6,500.00	6,463.39	6,460.57	6,469.23	21.74	148.07	-6.76	1,734.24	-774.93	1,896.43	1,753.25	143.19	13.245		
6,600.00	6,562.55	6,566.15	6,574.80	22.15	150.14	-6.38	1,733.74	-774.93	1,897.88	1,752.56	145.32	13.060		
6,700.00	6,661.71	6,653.08	6,661.71	22.56	151.91	-5.99	1,733.73	-774.93	1,899.84	1,752.72	147.12	12.913		
6,800.00	6,760.87	6,752.24	6,760.87	22.97	153.93	-5.61	1,733.73	-774.93	1,901.94	1,752.77	149.17	12.750		
6,900.00	6,860.02	6,854.56	6,863.18	23.38	156.01	-5.22	1,734.43	-774.93	1,904.82	1,753.54	151.27	12.592		
7,000.00	6,959.18	6,959.44	6,968.06	23.79	158.14	-4.84	1,734.09	-774.93	1,906.77	1,753.34	153.43	12.427		
7,100.00	7,058.34	7,049.75	7,058.34	24.20	159.99	-4.46	1,733.73	-774.93	1,908.73	1,753.42	155.31	12.290		
7,200.00	7,157.50	7,148.91	7,157.50	24.61	162.06	-4.08	1,733.73	-774.93	1,911.17	1,753.78	157.39	12.143		
7,300.00	7,256.66	7,248.07	7,256.66	25.02	164.13	-3.70	1,733.73	-774.93	1,913.69	1,754.23	159.46	12.001		
7,400.00	7,355.82	7,351.05	7,359.63	25.44	166.28	-3.32	1,734.47	-774.93	1,917.04	1,755.42	161.61	11.862		
7,500.00	7,454.98	7,455.47	7,464.05	25.85	168.46	-2.94	1,734.12	-774.93	1,919.39	1,755.60	163.80	11.718		
7,600.00	7,554.14	7,545.59	7,554.14	26.26	170.34	-2.56	1,733.73	-774.93	1,921.75	1,756.07	165.69	11.599		
7,700.00	7,653.30	7,644.75	7,653.30	26.68	172.37	-2.19	1,733.73	-774.93	1,924.61	1,756.90	167.71	11.476		
7,800.00	7,752.45	7,743.91	7,752.45	27.09	174.41	-1.81	1,733.73	-774.93	1,927.55	1,757.81	169.73	11.356		
7,900.00	7,851.61	7,845.58	7,854.12	27.51	176.49	-1.44	1,734.57	-774.93	1,931.41	1,759.60	171.81	11.242		
8,000.00	7,950.77	7,949.68	7,958.22	27.92	178.63	-1.06	1,734.30	-774.93	1,934.25	1,760.32	173.93	11.121		
8,100.00	8,049.93	8,053.80	8,062.33	28.34	180.76	-0.69	1,733.77	-774.93	1,936.93	1,760.87	176.06	11.001		
8,200.00	8,149.09	8,140.57	8,149.09	28.76	182.46	-0.32	1,733.73	-774.93	1,940.11	1,762.33	177.78	10.913		
8,300.00	8,248.25	8,239.73	8,248.25	29.17	184.38	0.05	1,733.73	-774.93	1,943.46	1,763.74	179.72	10.814		
8,400.00	8,347.41	8,339.85	8,348.36	29.59	186.33	0.41	1,734.27	-774.93	1,947.43	1,765.74	181.69	10.719		
8,500.00	8,446.57	8,442.49	8,451.00	30.01	188.32	0.78	1,734.13	-774.93	1,950.79	1,767.10	183.70	10.620		
8,600.00	8,545.72	8,545.14	8,553.65	30.42	190.32	1.15	1,733.80	-774.93	1,954.07	1,768.35	185.71	10.522		
8,700.00	8,644.88	8,636.39	8,644.88	30.84	192.08	1.51	1,733.73	-774.93	1,957.64	1,770.13	187.51	10.440		
8,800.00	8,744.04	8,735.55	8,744.04	31.26	193.99	1.87	1,733.73	-774.93	1,961.38	1,771.92	189.46	10.353		
8,900.00	8,843.20	8,835.25	8,843.74	31.68	195.91	2.23	1,734.28	-774.93	1,965.76	1,774.34	191.42	10.270		
9,000.00	8,942.47	8,937.97	8,946.46	32.09	197.89	2.57	1,734.16	-774.93	1,969.26	1,775.84	193.42	10.181		
9,100.00	9,042.09	9,041.06	9,049.55	32.52	199.88	2.81	1,733.87	-774.93	1,971.63	1,776.21	195.41	10.090		
9,200.00	9,141.95	9,133.47	9,141.95	32.94	201.59	2.95	1,733.73	-774.93	1,973.08	1,775.94	197.15	10.008		
9,300.00	9,241.93	9,233.45	9,241.93	33.11	203.40	3.00	1,733.73	-774.93	1,973.62	1,774.65	198.96	9.919		
9,400.00	9,341.93	9,337.21	9,345.69	33.13	205.28	3.00	1,734.05	-774.93	1,973.94	1,773.11	200.84	9.829		
9,500.00	9,441.93	9,442.17	9,450.64	33.15	207.19	3.00	1,733.72	-774.93	1,973.63	1,770.90	202.72	9.736		
9,600.00	9,541.41	9,532.95	9,541.41	33.11	208.84	3.01	1,733.73	-774.93	1,964.78	1,760.37	204.41	9.612		

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep Offsets - New Mexico O State NCT 1 #1 (P&A) - Wellbore #1 - Surveys												Offset Site Error:	0.00 usft
Survey Program: 450-INC-ONLY												Offset Well Error:	0.00 usft
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
9,700.00	9,637.84	9,633.36	9,641.82	33.02	210.66	3.06	1,733.95	-774.93	1,939.07	1,732.78	206.28	9.400	
9,800.00	9,728.29	9,719.85	9,728.29	32.94	212.23	3.14	1,733.73	-774.93	1,896.59	1,688.69	207.90	9.123	
9,900.00	9,810.02	9,801.58	9,810.02	32.89	213.70	3.26	1,733.73	-774.93	1,839.30	1,629.90	209.41	8.783	
10,000.00	9,880.54	9,872.09	9,880.54	32.88	214.98	3.41	1,733.73	-774.93	1,768.74	1,558.02	210.72	8.394	
10,100.00	9,937.70	9,929.26	9,937.70	32.94	216.01	3.60	1,733.73	-774.93	1,687.04	1,475.25	211.79	7.966	
10,200.00	9,979.78	9,972.83	9,981.27	33.09	216.80	3.83	1,734.48	-774.93	1,597.47	1,384.84	212.63	7.513	
10,300.00	10,005.49	9,999.56	10,008.00	33.35	217.28	4.11	1,734.45	-774.93	1,501.22	1,288.05	213.18	7.042	
10,400.00	10,014.05	10,008.29	10,016.73	33.71	217.44	4.44	1,734.43	-774.93	1,402.05	1,188.64	213.41	6.570	
10,500.00	10,012.82	10,006.82	10,015.26	34.18	217.41	4.82	1,734.44	-774.93	1,302.46	1,088.98	213.48	6.101	
10,600.00	10,011.56	10,005.32	10,013.76	34.72	217.39	5.26	1,734.44	-774.93	1,202.94	989.38	213.56	5.633	
10,700.00	10,010.29	10,003.83	10,012.27	35.32	217.36	5.78	1,734.44	-774.93	1,103.50	889.85	213.66	5.165	
10,800.00	10,009.03	10,002.34	10,010.78	35.98	217.33	6.41	1,734.44	-774.93	1,004.18	790.40	213.78	4.697	
10,900.00	10,007.77	10,000.87	10,009.30	36.70	217.31	7.17	1,734.45	-774.93	905.00	691.06	213.94	4.230	
11,000.00	10,006.50	9,999.40	10,007.84	37.48	217.28	8.12	1,734.45	-774.93	806.02	591.88	214.14	3.764	
11,100.00	10,005.24	9,997.94	10,006.38	38.30	217.25	9.34	1,734.45	-774.93	707.32	492.91	214.41	3.299	
11,200.00	10,003.97	9,996.49	10,004.93	39.17	217.23	10.95	1,734.45	-774.93	609.05	394.28	214.77	2.836	
11,300.00	10,002.71	9,995.04	10,003.48	40.09	217.20	13.17	1,734.46	-774.93	511.44	296.17	215.27	2.376	
11,400.00	10,001.45	9,993.61	10,002.05	41.04	217.18	16.44	1,734.46	-774.93	414.96	198.96	216.00	1.921	
11,500.00	10,000.18	9,992.18	10,000.62	42.04	217.15	21.66	1,734.46	-774.93	320.65	103.51	217.14	1.477	Level 1
11,600.00	9,998.92	9,990.76	9,999.20	43.07	217.12	31.06	1,734.46	-774.93	231.16	12.23	218.93	1.056	Level 2
11,700.00	9,997.66	9,989.35	9,997.79	44.13	217.10	50.79	1,734.46	-774.93	155.08	-64.62	219.71	0.706	Level 3
11,796.91	9,996.43	9,987.99	9,996.43	45.20	217.07	89.46	1,734.47	-774.93	121.05	-91.38	212.43	0.570	Level 3, CC, ES, SF
11,800.00	9,996.39	9,987.95	9,996.39	45.23	217.07	90.92	1,734.47	-774.93	121.09	-91.03	212.12	0.571	Level 3
11,900.00	9,995.13	9,986.55	9,994.99	46.36	217.05	129.89	1,734.47	-774.93	158.96	-47.16	206.12	0.771	Level 3
12,000.00	9,993.87	9,985.16	9,993.60	47.51	217.02	148.68	1,734.47	-774.93	236.37	29.90	206.47	1.145	Level 2
12,100.00	9,992.60	9,983.78	9,992.22	48.70	217.00	157.71	1,734.47	-774.93	326.30	118.98	207.32	1.574	
12,200.00	9,991.34	9,982.41	9,990.85	49.90	216.97	162.76	1,734.47	-774.93	420.79	212.73	208.07	2.022	
12,300.00	9,990.08	9,981.05	9,989.49	51.13	216.95	165.95	1,734.47	-774.93	517.36	308.73	208.63	2.480	
12,400.00	9,988.81	9,979.69	9,988.13	52.39	216.92	168.13	1,734.48	-774.93	615.02	405.97	209.05	2.942	
12,500.00	9,987.55	9,978.34	9,986.78	53.66	216.90	169.71	1,734.48	-774.93	713.32	503.96	209.37	3.407	
12,600.00	9,986.28	9,977.00	9,985.44	54.95	216.88	170.91	1,734.48	-774.93	812.04	602.43	209.61	3.874	
12,700.00	9,985.02	9,975.66	9,984.10	56.26	216.85	171.85	1,734.48	-774.93	911.04	701.23	209.81	4.342	
12,800.00	9,983.76	9,974.33	9,982.77	57.59	216.83	172.60	1,734.48	-774.93	1,010.23	800.26	209.97	4.811	
12,900.00	9,982.49	9,973.01	9,981.45	58.93	216.80	173.22	1,734.48	-774.93	1,109.56	899.47	210.09	5.281	
13,000.00	9,981.23	9,971.70	9,980.14	60.29	216.78	173.74	1,734.48	-774.93	1,209.01	998.81	210.20	5.752	
13,100.00	9,979.97	9,970.39	9,978.83	61.66	216.76	174.17	1,734.49	-774.93	1,308.53	1,098.24	210.29	6.223	
13,200.00	9,978.70	9,969.09	9,977.53	63.04	216.73	174.55	1,734.49	-774.93	1,408.12	1,197.76	210.36	6.694	
13,300.00	9,977.44	9,967.80	9,976.24	64.44	216.71	174.88	1,734.49	-774.93	1,507.77	1,297.35	210.42	7.165	
13,400.00	9,976.18	9,966.51	9,974.95	65.85	216.69	175.16	1,734.49	-774.93	1,607.46	1,396.98	210.48	7.637	
13,500.00	9,974.91	9,965.23	9,973.67	67.27	216.66	175.42	1,734.49	-774.93	1,707.18	1,496.66	210.52	8.109	
13,600.00	9,973.65	9,963.96	9,972.40	68.70	216.64	175.64	1,734.49	-774.93	1,806.94	1,596.37	210.56	8.582	
13,700.00	9,972.38	9,962.69	9,971.13	70.14	216.62	175.84	1,734.49	-774.93	1,906.71	1,696.12	210.59	9.054	
13,800.00	9,971.12	9,961.43	9,969.87	71.58	216.59	176.02	1,734.49	-774.93	2,006.51	1,795.89	210.62	9.527	
13,900.00	9,969.86	9,960.18	9,968.62	73.04	216.57	176.19	1,734.49	-774.93	2,106.33	1,895.68	210.65	9.999	
14,000.00	9,968.59	9,958.93	9,967.37	74.51	216.55	176.34	1,734.49	-774.93	2,206.16	1,995.49	210.67	10.472	
14,100.00	9,967.33	9,957.69	9,966.13	75.98	216.53	176.47	1,734.49	-774.93	2,306.01	2,095.32	210.69	10.945	
14,200.00	9,966.07	9,956.46	9,964.90	77.46	216.50	176.60	1,734.49	-774.93	2,405.87	2,195.16	210.71	11.418	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep Offsets - Osudo 7 State Com #1 - Wellbore #1 - Surveys												Offset Site Error:	0.00 usft
Survey Program: 264-INC-ONLY												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		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	
14,700.00	9,959.75	9,952.11	9,959.75	84.96	220.47	-1.16	7,064.89	-971.49	2,429.32	2,216.40	212.92	11.409	
14,800.00	9,958.49	9,950.84	9,958.49	86.47	220.44	-1.19	7,064.89	-971.49	2,329.34	2,116.45	212.89	10.941	
14,900.00	9,957.22	9,949.58	9,957.22	87.99	220.42	-1.22	7,064.89	-971.49	2,229.35	2,016.49	212.86	10.473	
15,000.00	9,955.96	9,948.32	9,955.96	89.52	220.40	-1.25	7,064.89	-971.49	2,129.37	1,916.54	212.83	10.005	
15,100.00	9,954.69	9,947.05	9,954.69	91.05	220.37	-1.29	7,064.89	-971.49	2,029.39	1,816.60	212.79	9.537	
15,200.00	9,953.43	9,945.79	9,953.43	92.59	220.35	-1.33	7,064.89	-971.49	1,929.40	1,716.66	212.75	9.069	
15,300.00	9,952.17	9,944.53	9,952.17	94.13	220.32	-1.42	7,064.89	-971.49	1,829.46	1,616.77	212.69	8.602	
15,400.00	9,950.90	9,943.26	9,950.90	95.67	220.30	-1.64	7,064.89	-971.49	1,729.71	1,517.12	212.58	8.137	
15,500.00	9,949.63	9,941.99	9,949.63	97.20	220.27	-2.01	7,064.89	-971.49	1,630.30	1,417.88	212.42	7.675	
15,600.00	9,948.37	9,940.73	9,948.37	98.72	220.25	-2.55	7,064.89	-971.49	1,531.44	1,319.25	212.20	7.217	
15,700.00	9,947.11	9,939.46	9,947.11	100.21	220.23	-3.24	7,064.89	-971.49	1,433.06	1,221.13	211.93	6.762	
15,800.00	9,945.84	9,938.20	9,945.84	101.70	220.20	-4.04	7,064.89	-971.49	1,334.92	1,123.28	211.63	6.308	
15,900.00	9,944.58	9,936.94	9,944.58	103.20	220.18	-4.95	7,064.89	-971.49	1,237.07	1,025.75	211.31	5.854	
16,000.00	9,943.31	9,935.67	9,943.31	104.69	220.15	-6.03	7,064.89	-971.49	1,139.59	928.62	210.97	5.402	
16,100.00	9,942.05	9,934.41	9,942.05	106.20	220.13	-7.31	7,064.89	-971.49	1,042.59	831.99	210.60	4.950	
16,200.00	9,940.79	9,933.15	9,940.79	107.70	220.10	-8.84	7,064.89	-971.49	946.22	736.00	210.22	4.501	
16,300.00	9,939.52	9,931.88	9,939.52	109.21	220.08	-10.73	7,064.89	-971.49	850.68	640.85	209.83	4.054	
16,400.00	9,938.26	9,930.62	9,938.26	110.73	220.06	-13.08	7,064.89	-971.49	756.29	546.82	209.47	3.610	
16,500.00	9,937.00	9,929.36	9,937.00	112.25	220.03	-16.11	7,064.89	-971.49	663.54	454.33	209.21	3.172	
16,600.00	9,935.73	9,928.09	9,935.73	113.77	220.01	-20.10	7,064.89	-971.49	573.23	364.04	209.19	2.740	
16,700.00	9,934.47	9,926.83	9,934.47	115.29	219.98	-25.54	7,064.89	-971.49	486.73	276.99	209.74	2.321	
16,800.00	9,933.21	9,925.57	9,933.21	116.82	219.96	-33.23	7,064.89	-971.49	406.47	194.95	211.52	1.922	
16,900.00	9,931.94	9,924.30	9,931.94	118.37	219.94	-44.19	7,064.89	-971.49	335.63	119.84	215.79	1.555	
17,000.00	9,930.67	9,923.03	9,930.67	119.94	219.91	-59.75	7,064.89	-971.49	279.80	55.46	224.34	1.247	Level 2
17,100.00	9,929.40	9,921.76	9,929.40	121.54	219.89	-80.52	7,064.89	-971.49	249.36	12.06	237.30	1.051	Level 2
17,138.16	9,928.92	9,921.28	9,928.92	122.15	219.88	-89.32	7,064.89	-971.49	246.68	4.77	241.91	1.020	Level 2, CC, ES, SF
17,200.00	9,928.13	9,920.49	9,928.13	123.14	219.86	-103.43	7,064.89	-971.49	253.66	7.27	246.39	1.030	Level 2
17,300.00	9,926.86	9,919.22	9,926.86	124.76	219.84	-123.06	7,064.89	-971.49	291.17	47.15	244.02	1.193	Level 2
17,400.00	9,925.60	9,917.96	9,925.60	126.38	219.81	-137.40	7,064.89	-971.49	351.36	114.32	237.04	1.482	Level 1
17,500.00	9,924.34	9,916.70	9,924.34	128.01	219.79	-147.51	7,064.89	-971.49	424.65	193.72	230.93	1.839	
17,600.00	9,923.08	9,915.44	9,923.08	129.62	219.77	-154.70	7,064.89	-971.49	505.98	279.55	226.43	2.235	
17,700.00	9,921.82	9,914.18	9,921.82	131.24	219.74	-159.85	7,064.89	-971.49	593.02	369.74	223.28	2.656	
17,800.00	9,920.57	9,912.92	9,920.57	132.85	219.72	-163.66	7,064.89	-971.49	683.62	462.59	221.03	3.093	
17,900.00	9,919.31	9,911.67	9,919.31	134.47	219.69	-166.57	7,064.89	-971.49	776.52	557.15	219.37	3.540	
18,000.00	9,918.05	9,910.41	9,918.05	136.09	219.67	-168.85	7,064.89	-971.49	871.00	652.88	218.12	3.993	
18,100.00	9,916.79	9,909.15	9,916.79	137.72	219.65	-170.68	7,064.89	-971.49	966.59	749.44	217.15	4.451	
18,200.00	9,915.54	9,907.90	9,915.54	139.34	219.62	-172.18	7,064.89	-971.49	1,062.98	846.61	216.38	4.913	
18,300.00	9,914.28	9,906.64	9,914.28	140.96	219.60	-173.43	7,064.89	-971.49	1,159.99	944.24	215.75	5.377	
18,400.00	9,913.02	9,905.38	9,913.02	142.59	219.57	-174.49	7,064.89	-971.49	1,257.47	1,042.23	215.24	5.842	
18,500.00	9,911.77	9,904.13	9,911.77	144.22	219.55	-175.40	7,064.89	-971.49	1,355.31	1,140.50	214.80	6.309	
18,600.00	9,910.51	9,902.87	9,910.51	145.85	219.53	-176.18	7,064.89	-971.49	1,453.44	1,239.00	214.44	6.778	
18,700.00	9,909.25	9,901.61	9,909.25	147.48	219.50	-176.86	7,064.89	-971.49	1,551.81	1,337.69	214.12	7.247	
18,800.00	9,907.99	9,900.35	9,907.99	149.12	219.48	-177.47	7,064.89	-971.49	1,650.38	1,436.52	213.85	7.717	
18,900.00	9,906.74	9,899.10	9,906.74	150.75	219.45	-178.00	7,064.89	-971.49	1,749.11	1,535.49	213.62	8.188	
19,000.00	9,905.48	9,897.84	9,905.48	152.39	219.43	-178.48	7,064.89	-971.49	1,847.97	1,634.56	213.41	8.659	
19,100.00	9,904.22	9,896.58	9,904.22	154.02	219.41	-178.91	7,064.89	-971.49	1,946.95	1,733.73	213.22	9.131	
19,200.00	9,902.97	9,895.33	9,902.97	155.66	219.38	-179.29	7,064.89	-971.49	2,046.03	1,832.98	213.05	9.603	
19,300.00	9,901.71	9,894.07	9,901.71	157.30	219.36	-179.59	7,064.89	-971.49	2,145.43	1,932.51	212.92	10.076	
19,400.00	9,900.45	9,892.80	9,900.45	158.95	219.33	-179.77	7,064.89	-971.49	2,245.18	2,032.34	212.85	10.548	
19,500.00	9,899.18	9,891.54	9,899.18	160.58	219.31	-179.85	7,064.89	-971.49	2,345.12	2,132.31	212.81	11.020	
19,600.00	9,897.92	9,890.28	9,897.92	162.21	219.28	-179.88	7,064.89	-971.49	2,445.10	2,232.31	212.79	11.490	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 205-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
17,200.00	9,928.13	9,947.77	9,928.13	123.14	267.06	2.87	9,615.01	-599.77	2,494.34	2,227.13	267.21	9.335	
17,300.00	9,926.86	9,954.00	9,934.30	124.76	267.27	3.06	9,615.01	-599.77	2,394.68	2,127.20	267.48	8.953	
17,400.00	9,925.60	9,954.00	9,934.30	126.38	267.27	3.34	9,615.01	-599.77	2,295.39	2,027.84	267.55	8.579	
17,500.00	9,924.34	9,954.00	9,934.30	128.01	267.27	3.75	9,615.01	-599.77	2,196.67	1,929.02	267.65	8.207	
17,600.00	9,923.08	9,954.00	9,934.30	129.62	267.27	4.25	9,615.01	-599.77	2,098.47	1,830.69	267.78	7.837	
17,700.00	9,921.82	9,954.00	9,934.30	131.24	267.27	4.80	9,615.01	-599.77	2,000.45	1,732.52	267.93	7.466	
17,800.00	9,920.57	9,954.00	9,934.30	132.85	267.27	5.41	9,615.01	-599.77	1,902.64	1,634.54	268.09	7.097	
17,900.00	9,919.31	9,938.94	9,919.31	134.47	266.76	6.08	9,615.01	-599.77	1,805.01	1,537.24	267.77	6.741	
18,000.00	9,918.05	9,937.68	9,918.05	136.09	266.72	6.84	9,615.01	-599.77	1,707.70	1,439.75	267.95	6.373	
18,100.00	9,916.79	9,936.43	9,916.79	137.72	266.67	7.68	9,615.01	-599.77	1,610.73	1,342.54	268.19	6.006	
18,200.00	9,915.54	9,935.17	9,915.54	139.34	266.63	8.63	9,615.01	-599.77	1,514.14	1,245.67	268.47	5.640	
18,300.00	9,914.28	9,933.91	9,914.28	140.96	266.59	9.71	9,615.01	-599.77	1,418.03	1,149.20	268.83	5.275	
18,400.00	9,913.02	9,971.83	9,952.18	142.59	267.88	10.95	9,614.54	-599.77	1,322.62	1,052.04	270.58	4.888	
18,500.00	9,911.77	9,962.22	9,942.57	144.22	267.55	12.37	9,614.81	-599.77	1,227.87	956.99	270.88	4.533	
18,600.00	9,910.51	9,954.42	9,934.78	145.85	267.29	14.03	9,615.00	-599.77	1,133.99	862.60	271.38	4.179	
18,700.00	9,909.25	9,947.97	9,928.33	147.48	267.07	15.99	9,615.13	-599.77	1,041.22	769.09	272.13	3.826	
18,800.00	9,907.99	9,942.54	9,922.91	149.12	266.88	18.34	9,615.23	-599.77	949.91	676.72	273.19	3.477	
18,900.00	9,906.74	9,937.91	9,918.29	150.75	266.72	21.17	9,615.30	-599.77	860.51	585.86	274.65	3.133	
19,000.00	9,905.48	9,933.92	9,914.29	152.39	266.59	24.65	9,615.35	-599.77	773.69	497.03	276.66	2.797	
19,100.00	9,904.22	9,930.44	9,910.82	154.02	266.47	28.99	9,615.39	-599.77	690.44	411.00	279.44	2.471	
19,200.00	9,902.97	9,927.38	9,907.76	155.66	266.37	34.48	9,615.42	-599.77	612.19	328.94	283.25	2.161	
19,300.00	9,901.71	9,924.66	9,905.04	157.30	266.27	41.33	9,615.45	-599.77	539.59	251.27	288.32	1.872	
19,400.00	9,900.45	9,922.23	9,902.61	158.95	266.19	49.90	9,615.47	-599.77	474.14	179.40	294.74	1.609	
19,500.00	9,899.18	9,920.05	9,900.43	160.58	266.12	60.66	9,615.48	-599.77	419.32	117.12	302.20	1.388 Level 1	
19,600.00	9,897.92	9,918.08	9,898.46	162.21	266.05	73.94	9,615.49	-599.77	381.32	72.44	308.88	1.235 Level 2	
19,700.00	9,896.65	9,916.29	9,896.67	163.82	265.99	89.14	9,615.50	-599.77	367.38	56.77	310.61	1.183 Level 2, CC, ES, SF	
19,704.45	9,896.60	9,916.22	9,896.60	163.90	265.99	89.83	9,615.50	-599.77	367.38	56.87	310.51	1.183 Level 2	
19,800.00	9,895.39	9,914.67	9,895.05	165.44	265.93	104.39	9,615.51	-599.77	380.16	74.91	305.26	1.245 Level 2	
19,900.00	9,894.13	9,913.18	9,893.56	167.06	265.88	117.78	9,615.51	-599.77	417.22	120.69	296.53	1.407 Level 1	
20,000.00	9,892.86	9,911.81	9,892.19	168.68	265.84	128.51	9,615.51	-599.77	472.89	184.41	288.48	1.639	
20,100.00	9,891.60	9,910.55	9,890.93	170.30	265.79	136.76	9,615.52	-599.77	541.45	259.10	282.35	1.918	
20,200.00	9,890.34	9,909.39	9,889.77	171.92	265.75	143.05	9,615.52	-599.77	618.63	340.66	277.97	2.225	
20,300.00	9,889.07	9,908.31	9,888.69	173.54	265.72	147.91	9,615.52	-599.77	701.60	426.72	274.88	2.552	
20,305.75	9,889.00	9,908.25	9,888.63	173.63	265.71	148.15	9,615.52	-599.77	706.50	431.77	274.74	2.572	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design North Wilson Deep Offsets - Packer 18 State Com #1 (SWD) - Wellbore #1 - Surveys												Offset Site Error:	0.00 usft
Survey Program: 231-INC-ONLY												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
12,400.00	9,988.81	9,989.31	9,988.81	52.39	296.90	34.80	4,385.52	522.57	2,495.37	2,195.75	299.62	8.328	
12,500.00	9,987.55	9,988.04	9,987.55	53.66	296.85	36.17	4,385.52	522.57	2,414.47	2,114.65	299.82	8.053	
12,600.00	9,986.28	9,986.78	9,986.28	54.95	296.81	37.63	4,385.52	522.57	2,335.05	2,035.01	300.04	7.782	
12,700.00	9,985.02	9,985.52	9,985.02	56.26	296.76	39.20	4,385.52	522.57	2,257.26	1,956.99	300.27	7.517	
12,800.00	9,983.76	9,984.25	9,983.76	57.59	296.72	40.88	4,385.52	522.57	2,181.28	1,880.76	300.53	7.258	
12,900.00	9,982.49	9,982.99	9,982.49	58.93	296.67	42.68	4,385.52	522.57	2,107.31	1,806.51	300.80	7.006	
13,000.00	9,981.23	9,981.72	9,981.23	60.29	296.63	44.61	4,385.52	522.57	2,035.57	1,734.48	301.09	6.761	
13,100.00	9,979.97	9,980.46	9,979.97	61.66	296.58	46.67	4,385.52	522.57	1,966.29	1,664.90	301.39	6.524	
13,200.00	9,978.70	9,979.20	9,978.70	63.04	296.54	48.88	4,385.52	522.57	1,899.75	1,598.04	301.72	6.297	
13,300.00	9,977.44	9,977.93	9,977.44	64.44	296.49	51.25	4,385.52	522.57	1,836.25	1,534.20	302.05	6.079	
13,400.00	9,976.18	9,976.67	9,976.18	65.85	296.45	53.79	4,385.52	522.57	1,776.11	1,473.72	302.39	5.874	
13,500.00	9,974.91	9,975.41	9,974.91	67.27	296.40	56.49	4,385.52	522.57	1,719.69	1,416.95	302.74	5.680	
13,600.00	9,973.65	9,974.14	9,973.65	68.70	296.36	59.38	4,385.52	522.57	1,667.36	1,364.28	303.07	5.501	
13,700.00	9,972.38	9,972.88	9,972.38	70.14	296.32	62.44	4,385.52	522.57	1,619.51	1,316.11	303.40	5.338	
13,800.00	9,971.12	9,971.62	9,971.12	71.58	296.27	65.68	4,385.52	522.57	1,576.57	1,272.87	303.69	5.191	
13,900.00	9,969.86	9,970.35	9,969.86	73.04	296.23	69.09	4,385.52	522.57	1,538.93	1,234.98	303.95	5.063	
14,000.00	9,968.59	9,969.09	9,968.59	74.51	296.18	72.65	4,385.52	522.57	1,507.00	1,202.85	304.15	4.955	
14,100.00	9,967.33	9,967.82	9,967.33	75.98	296.14	76.36	4,385.52	522.57	1,481.14	1,176.86	304.28	4.868	
14,200.00	9,966.07	9,966.56	9,966.07	77.46	296.09	80.18	4,385.52	522.57	1,461.68	1,157.35	304.33	4.803	
14,300.00	9,964.80	9,965.30	9,964.80	78.95	296.05	84.08	4,385.52	522.57	1,448.87	1,144.58	304.29	4.762	
14,400.00	9,963.54	9,964.03	9,963.54	80.44	296.00	88.04	4,385.52	522.57	1,442.90	1,138.74	304.15	4.744	
14,436.40	9,963.08	9,963.57	9,963.08	80.99	295.99	89.48	4,385.52	522.57	1,442.44	1,138.35	304.08	4.744	CC, ES, SF
14,500.00	9,962.28	9,962.77	9,962.28	81.94	295.96	92.01	4,385.52	522.57	1,443.84	1,139.91	303.92	4.751	
14,600.00	9,961.01	9,961.51	9,961.01	83.45	295.91	95.95	4,385.52	522.57	1,451.68	1,148.08	303.61	4.781	
14,700.00	9,959.75	9,960.24	9,959.75	84.96	295.87	99.84	4,385.52	522.57	1,466.32	1,163.11	303.21	4.836	
14,800.00	9,958.49	9,958.98	9,958.49	86.47	295.82	103.63	4,385.52	522.57	1,487.55	1,184.80	302.75	4.914	
14,900.00	9,957.22	9,957.72	9,957.22	87.99	295.78	107.30	4,385.52	522.57	1,515.10	1,212.86	302.24	5.013	
15,000.00	9,955.96	9,956.45	9,955.96	89.52	295.73	110.82	4,385.52	522.57	1,548.62	1,246.92	301.70	5.133	
15,100.00	9,954.69	9,955.19	9,954.69	91.05	295.69	114.19	4,385.52	522.57	1,587.74	1,286.59	301.15	5.272	
15,200.00	9,953.43	9,953.93	9,953.43	92.59	295.64	117.38	4,385.52	522.57	1,632.06	1,331.47	300.59	5.429	
15,300.00	9,952.17	9,952.66	9,952.17	94.13	295.60	120.42	4,385.52	522.57	1,679.84	1,379.80	300.04	5.599	
15,400.00	9,950.90	9,951.39	9,950.90	95.67	295.55	123.34	4,385.52	522.57	1,729.13	1,429.63	299.51	5.773	
15,500.00	9,949.63	9,950.13	9,949.63	97.20	295.51	126.16	4,385.52	522.57	1,779.74	1,480.76	298.98	5.953	
15,600.00	9,948.37	9,948.86	9,948.37	98.72	295.46	128.87	4,385.52	522.57	1,831.49	1,533.03	298.46	6.136	
15,700.00	9,947.11	9,947.60	9,947.11	100.21	295.42	131.47	4,385.52	522.57	1,885.62	1,587.66	297.97	6.328	
15,800.00	9,945.84	9,946.34	9,945.84	101.70	295.37	133.91	4,385.52	522.57	1,943.40	1,645.90	297.50	6.532	
15,900.00	9,944.58	9,945.07	9,944.58	103.20	295.33	136.21	4,385.52	522.57	2,004.50	1,707.43	297.07	6.748	
16,000.00	9,943.31	9,943.81	9,943.31	104.69	295.29	138.36	4,385.52	522.57	2,068.63	1,771.96	296.67	6.973	
16,100.00	9,942.05	9,942.55	9,942.05	106.20	295.24	140.39	4,385.52	522.57	2,135.52	1,839.21	296.31	7.207	
16,200.00	9,940.79	9,923.11	9,922.69	107.70	294.57	142.29	4,385.78	522.57	2,204.79	1,909.46	295.33	7.465	
16,300.00	9,939.52	9,921.75	9,921.33	109.21	294.53	144.07	4,385.80	522.57	2,276.44	1,981.42	295.03	7.716	
16,400.00	9,938.26	9,920.45	9,920.04	110.73	294.48	145.74	4,385.81	522.57	2,350.17	2,055.42	294.75	7.973	
16,500.00	9,937.00	9,919.21	9,918.79	112.25	294.44	147.31	4,385.82	522.57	2,425.78	2,131.28	294.50	8.237	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design Section 6-21S-35E Cast Away 6 B2BW St Com Unit 1H - Cast Away 6 B2BW St Com Unit 1H - Original													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
18,100.00	9,916.79	17,431.25	9,884.00	137.72	127.88	-5.34	10,418.30	-1,039.44	2,410.28	2,376.52	33.76	71.403		
18,200.00	9,915.54	17,431.25	9,884.00	139.34	127.88	-5.28	10,418.30	-1,039.44	2,310.32	2,276.50	33.81	68.325		
18,300.00	9,914.28	17,431.25	9,884.00	140.96	127.88	-5.21	10,418.30	-1,039.44	2,210.36	2,176.48	33.87	65.255		
18,400.00	9,913.02	17,431.25	9,884.00	142.59	127.88	-5.13	10,418.30	-1,039.44	2,110.40	2,076.47	33.93	62.195		
18,500.00	9,911.77	17,431.25	9,884.00	144.22	127.88	-5.04	10,418.30	-1,039.44	2,010.45	1,976.45	34.00	59.139		
18,600.00	9,910.51	17,431.25	9,884.00	145.85	127.88	-4.95	10,418.30	-1,039.44	1,910.50	1,876.44	34.06	56.090		
18,700.00	9,909.25	17,431.25	9,884.00	147.48	127.88	-4.84	10,418.30	-1,039.44	1,810.56	1,776.43	34.13	53.053		
18,800.00	9,907.99	17,431.25	9,884.00	149.12	127.88	-4.72	10,418.30	-1,039.44	1,710.62	1,676.43	34.19	50.026		
18,900.00	9,906.74	17,431.25	9,884.00	150.75	127.88	-4.59	10,418.30	-1,039.44	1,610.70	1,576.43	34.27	47.004		
19,000.00	9,905.48	17,431.25	9,884.00	152.39	127.88	-4.44	10,418.30	-1,039.44	1,510.78	1,476.43	34.35	43.986		
19,100.00	9,904.22	17,431.25	9,884.00	154.02	127.88	-4.27	10,418.30	-1,039.44	1,410.88	1,376.44	34.43	40.976		
19,200.00	9,902.97	17,431.25	9,884.00	155.66	127.88	-4.07	10,418.30	-1,039.44	1,310.99	1,276.46	34.52	37.972		
19,300.00	9,901.71	17,431.25	9,884.00	157.30	127.88	-3.95	10,418.30	-1,039.44	1,211.03	1,176.41	34.62	34.978		
19,400.00	9,900.45	17,431.25	9,884.00	158.95	127.88	-3.97	10,418.30	-1,039.44	1,111.04	1,076.33	34.71	32.007		
19,500.00	9,899.18	17,431.25	9,884.00	160.58	127.88	-4.21	10,418.30	-1,039.44	1,011.13	976.33	34.80	29.055		
19,600.00	9,897.92	17,431.25	9,884.00	162.21	127.88	-4.61	10,418.30	-1,039.44	911.36	876.46	34.91	26.107		
19,700.00	9,896.65	17,431.25	9,884.00	163.82	127.88	-5.11	10,418.30	-1,039.44	811.65	776.60	35.05	23.154		
19,800.00	9,895.39	17,431.25	9,884.00	165.44	127.88	-5.76	10,418.30	-1,039.44	712.02	676.76	35.26	20.193		
19,900.00	9,894.13	17,431.25	9,884.00	167.06	127.88	-6.61	10,418.30	-1,039.44	612.50	576.94	35.56	17.222		
20,000.00	9,892.86	17,431.25	9,884.00	168.68	127.88	-7.80	10,418.30	-1,039.44	513.18	477.15	36.03	14.243		
20,100.00	9,891.60	17,431.25	9,884.00	170.30	127.88	-9.55	10,418.30	-1,039.44	414.18	377.39	36.79	11.258		
20,200.00	9,890.34	17,431.25	9,884.00	171.92	127.88	-12.40	10,418.30	-1,039.44	315.81	277.67	38.14	8.280		
20,300.00	9,889.07	17,431.25	9,884.00	173.54	127.88	-17.80	10,418.30	-1,039.44	218.93	178.00	40.93	5.349		
20,305.75	9,889.00	17,431.25	9,884.00	173.63	127.88	-18.26	10,418.30	-1,039.44	213.45	172.27	41.18	5.184 CC, ES, SF		

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 375-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
19,000.00	9,905.48	9,931.41	9,914.70	152.39	55.89	-6.45	11,304.68	-1,192.91	2,407.73	2,346.23	61.50	39.153	
19,100.00	9,904.22	9,929.52	9,912.81	154.02	55.88	-6.43	11,304.69	-1,192.91	2,307.74	2,246.21	61.54	37.501	
19,200.00	9,902.97	9,927.65	9,910.94	155.66	55.88	-6.41	11,304.69	-1,192.91	2,207.76	2,146.18	61.58	35.852	
19,300.00	9,901.71	9,925.80	9,909.09	157.30	55.87	-6.45	11,304.70	-1,192.91	2,107.79	2,046.15	61.63	34.199	
19,400.00	9,900.45	9,923.98	9,907.27	158.95	55.87	-6.59	11,304.71	-1,192.91	2,007.93	1,946.22	61.71	32.539	
19,500.00	9,899.18	9,922.17	9,905.46	160.58	55.86	-6.85	11,304.71	-1,192.91	1,908.34	1,846.53	61.82	30.872	
19,600.00	9,897.92	9,920.39	9,903.68	162.21	55.86	-7.20	11,304.72	-1,192.91	1,809.00	1,747.05	61.95	29.200	
19,700.00	9,896.65	9,918.63	9,901.92	163.82	55.85	-7.59	11,304.72	-1,192.91	1,709.73	1,647.61	62.12	27.524	
19,800.00	9,895.39	9,916.89	9,900.19	165.44	55.85	-8.03	11,304.73	-1,192.91	1,610.55	1,548.23	62.32	25.844	
19,900.00	9,894.13	9,915.18	9,898.47	167.06	55.84	-8.52	11,304.74	-1,192.91	1,511.48	1,448.91	62.56	24.159	
20,000.00	9,892.86	9,913.49	9,896.78	168.68	55.84	-9.09	11,304.74	-1,192.91	1,412.53	1,349.66	62.87	22.467	
20,100.00	9,891.60	9,911.82	9,895.11	170.30	55.84	-9.74	11,304.74	-1,192.91	1,313.75	1,250.49	63.25	20.770	
20,200.00	9,890.34	9,910.17	9,893.46	171.92	55.83	-10.49	11,304.75	-1,192.91	1,215.15	1,151.42	63.73	19.066	
20,300.00	9,889.07	9,908.54	9,891.83	173.54	55.83	-11.38	11,304.75	-1,192.91	1,116.81	1,052.46	64.35	17.354	
20,305.75	9,889.00	9,908.44	9,891.74	173.63	55.83	-11.44	11,304.75	-1,192.91	1,111.17	1,046.77	64.39	17.256 CC, ES, SF	

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



Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Offset Design Section 6-21S-35E LaTrucha 6 B1CV St Com 1H - La Trucha 6 B1CV St Com 1H - Original Hole - Plan													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		
18,400.00	9,913.02	16,728.96	9,169.00	142.59	128.37	-26.84	10,405.14	-1,907.43	2,456.07	2,366.78	89.28	27.509		
18,500.00	9,911.77	16,728.96	9,169.00	144.22	128.37	-27.71	10,405.14	-1,907.43	2,366.53	2,274.70	91.83	25.771		
18,600.00	9,910.51	16,728.96	9,169.00	145.85	128.37	-28.65	10,405.14	-1,907.43	2,277.86	2,183.29	94.57	24.087		
18,700.00	9,909.25	16,728.96	9,169.00	147.48	128.37	-29.69	10,405.14	-1,907.43	2,190.17	2,092.65	97.52	22.458		
18,800.00	9,907.99	16,728.96	9,169.00	149.12	128.37	-30.81	10,405.14	-1,907.43	2,103.58	2,002.88	100.70	20.889		
18,900.00	9,906.74	16,728.96	9,169.00	150.75	128.37	-32.05	10,405.14	-1,907.43	2,018.23	1,914.09	104.14	19.379		
19,000.00	9,905.48	16,728.96	9,169.00	152.39	128.37	-33.42	10,405.14	-1,907.43	1,934.28	1,826.43	107.85	17.934		
19,100.00	9,904.22	16,728.96	9,169.00	154.02	128.37	-34.92	10,405.14	-1,907.43	1,851.93	1,740.07	111.86	16.555		
19,200.00	9,902.97	16,728.96	9,169.00	155.66	128.37	-36.60	10,405.14	-1,907.43	1,771.41	1,655.22	116.19	15.246		
19,300.00	9,901.71	16,728.96	9,169.00	157.30	128.37	-38.53	10,405.14	-1,907.43	1,693.98	1,572.96	121.02	13.997		
19,400.00	9,900.45	16,728.96	9,169.00	158.95	128.37	-40.79	10,405.14	-1,907.43	1,620.87	1,494.36	126.51	12.812		
19,500.00	9,899.18	16,728.96	9,169.00	160.58	128.37	-43.43	10,405.14	-1,907.43	1,552.77	1,420.11	132.65	11.705		
19,600.00	9,897.92	16,728.96	9,169.00	162.21	128.37	-46.44	10,405.14	-1,907.43	1,489.47	1,350.18	139.29	10.694		
19,700.00	9,896.65	16,728.96	9,169.00	163.82	128.37	-49.78	10,405.14	-1,907.43	1,430.37	1,284.18	146.20	9.784		
19,800.00	9,895.39	16,728.96	9,169.00	165.44	128.37	-53.50	10,405.14	-1,907.43	1,376.01	1,222.72	153.30	8.976		
19,900.00	9,894.13	16,728.96	9,169.00	167.06	128.37	-57.62	10,405.14	-1,907.43	1,326.98	1,166.53	160.45	8.270		
20,000.00	9,892.86	16,728.96	9,169.00	168.68	128.37	-62.16	10,405.14	-1,907.43	1,283.87	1,116.41	167.46	7.667		
20,100.00	9,891.60	16,728.96	9,169.00	170.30	128.37	-67.12	10,405.14	-1,907.43	1,247.30	1,073.19	174.11	7.164		
20,200.00	9,890.34	16,728.96	9,169.00	171.92	128.37	-72.49	10,405.14	-1,907.43	1,217.87	1,037.76	180.11	6.762		
20,300.00	9,889.07	16,728.96	9,169.00	173.54	128.37	-78.20	10,405.14	-1,907.43	1,196.10	1,010.93	185.17	6.459		
20,305.75	9,889.00	16,728.96	9,169.00	173.63	128.37	-78.54	10,405.14	-1,907.43	1,195.09	1,009.67	185.43	6.445 CC, ES, SF		

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



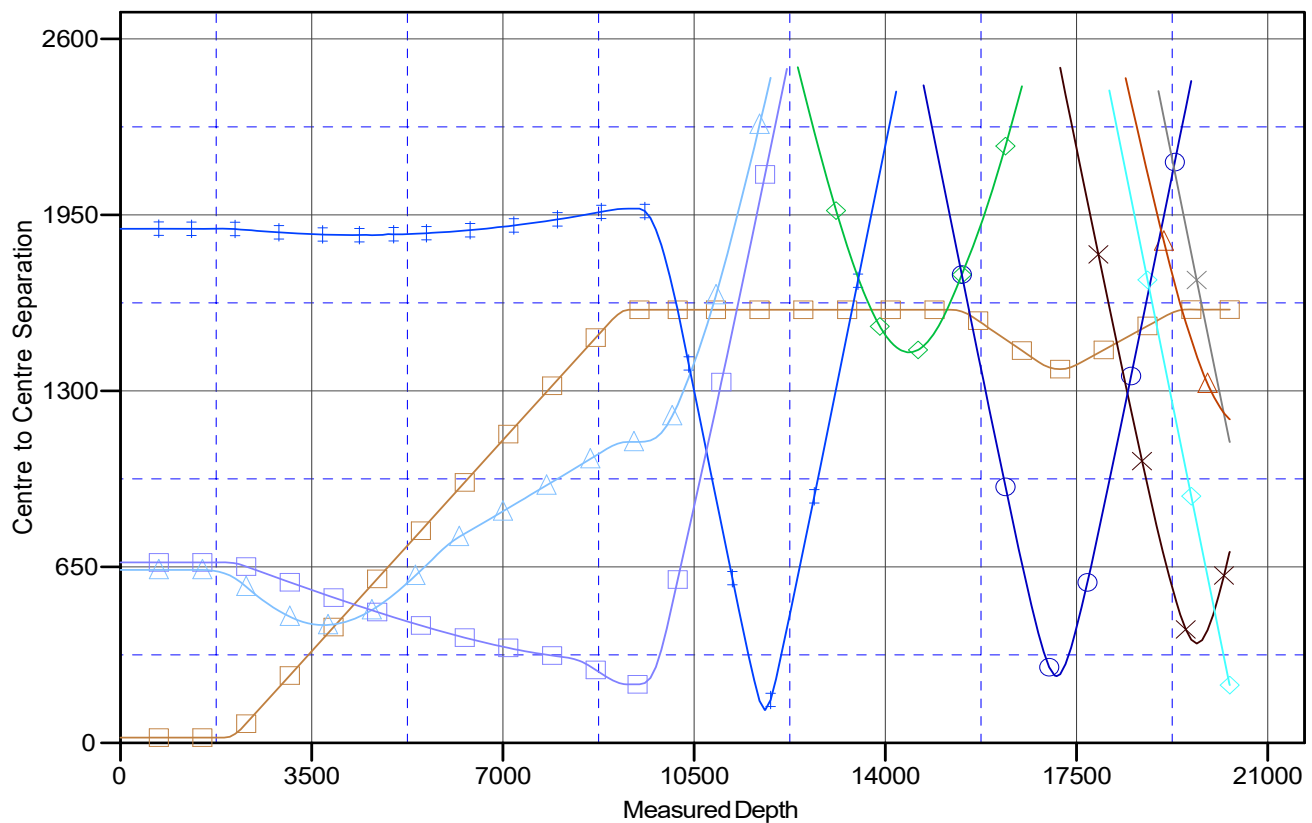
Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3679.00usft (Patterson 560) Coordinates are relative to: North Wilson Deep Unit #8H
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Central Meridian is -104.333334 Grid Convergence at Surface is: 0.50°

Ladder Plot



LEGEND

#9H, Wellbore #1, Design #1 V0	— New Mexico O State NCT 1 #1 (P&A), Wellbore #1, Surveys V0	— Pheasant Ridge 6 St Com 1, Original
(SWD), Wellbore #1, Surveys V0	— Dee Osborne 1930 State Com #123H, Wellbore #1, Plan for ACV0	— La Trucha 6 B1CV St Com 1H, Original
Wellbore #1, Surveys V0	— Osudo 7 State Com #1, Wellbore #1, Surveys V0	
Com #124H, Wellbore #1, Plan for ACV0	— CastAway 6 B2BW St Com Unit 1H, Original Hole, Plan#1 V0	

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



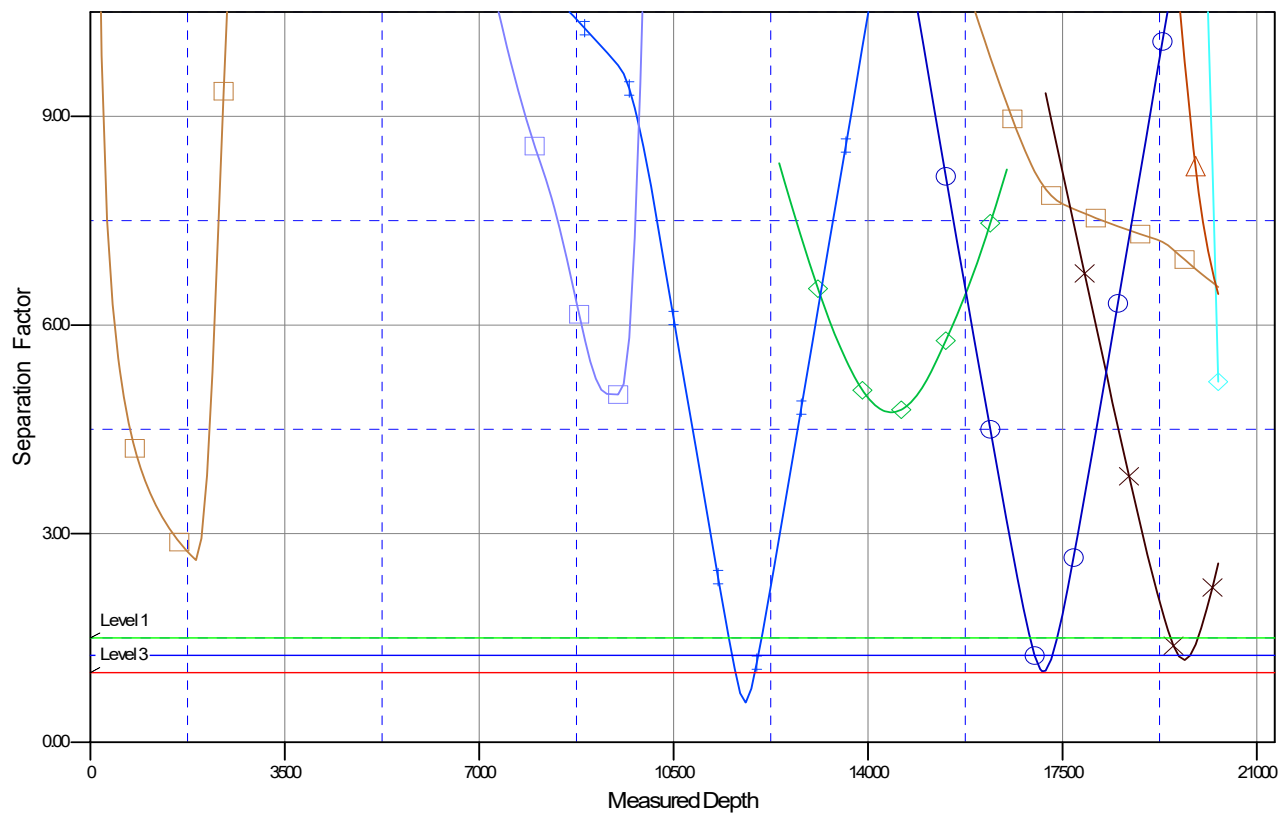
Stryker Directional Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well North Wilson Deep Unit #8H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	RKB @ 3679.00usft (Patterson 560)
Reference Site:	North Wilson Deep	MD Reference:	RKB @ 3679.00usft (Patterson 560)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	North Wilson Deep Unit #8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000 Server
Reference Design:	Design #1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3679.00usft (Patterson 560) Coordinates are relative to: North Wilson Deep Unit #8H
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Central Meridian is -104.333334 Grid Convergence at Surface is: 0.50°

Separation Factor Plot



LEGEND

#9H, Wellbore #1, Design #1 V0	—+— New Mexico O State NCT 1#1 (P&A), Wellbore #1, Surveys V0	—x— Pheasant Ridge 6 St Com 1, Original
(SWD), Wellbore #1, Surveys V0	—□— Dee Osborne 1930 State Com #123H, Wellbore #1, Plan for AC V0	—△— La Trucha 6 B1CV St Com 1H, Original
Wellbore #1, Surveys V0	—○— Osudo 7 State Com #1, Wellbore #1, Surveys V0	
Com #124H, Wellbore #1, Plan for AC V0	—◇— CastAway 6 B2BW St Com Unit 1H, Original Hole, Plan#1 V0	

Mewbourne Oil Company, North Wilson Deep Unit #8H

Sec 18, T21S, R35E

SHL: 240' FSL 1220' FEL (Sec 18)

BHL: 100' FNL 2100' FEL (Sec 7)

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	North Wilson Deep Unit	#8H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	18	21	35	-	10'	FSL	2100'	FEL	Lea
Latitude					Longitude			NAD	
32.4718					-103.4050510			83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	18	21	35	-	100'	FSL	2100'	FEL	Lea
Latitude					Longitude			NAD	
32.47204722					-103.4050512			83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	7	21	35	-	100'	FNL	2100'	FEL	Lea
Latitude					Longitude			NAD	
32.500531					-103.4050620			83	

Is this well the defining well for the Horizontal Spacing Unit?

Y

Is this well an infill well?

N

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

Page 5

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: Mewbourne Oil Co. **OGRID:** 14744 **Date:** 4/2/24

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
North Wilson Deep Unit 8H		P 18 21S 35E	240' FSL x 1220' FEL	2000	3500	3500

IV. Central Delivery Point Name: North Wilson Deep Unit 8H [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
North Wilson Deep Unit 8H		7/2/24	8/2/24	9/2/24	9/17/24	9/17/24

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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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>Bradley Bishop</i>
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	5-26/24
Phone:	575-393-5905
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Mewbourne Oil Company

Natural Gas Management Plan – Attachment

- VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.
- VII. Mewbourne Oil Company (MOC) will take following actions to comply with the regulations listed in 19.15.27.8 :
- A. MOC will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. MOC will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering system is available.
 - B. All drilling operations will be equipped with a rig flare located at least 100 ft from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.
 - C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flow will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, MOC will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. MOC will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
 - D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and reported appropriately.
 - E. MOC will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(1) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs in order to minimize the waste. Production storage tanks constructed after May 25, 2021 will be equipped with automatic gauging system. Flares constructed after May 25, 2021 will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. MOC will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
 - F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared or beneficially used during production operations, will be measured or estimated. MOC will install equipment to measure

the volume of natural gas flared from existing process piping or a flowline piped from equipment such as high pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021 that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, MOC will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or 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.

- VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.