

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

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

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

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

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

Form C-101  
August 1, 2011  
Permit 289178

**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
4. Property Code 322296		3. API Number 30-015-47694
5. Property Name SILVER BULLET 16 W1CN STATE		6. Well No. 004H

**7. Surface Location**

UL - Lot C	Section 16	Township 26S	Range 29E	Lot Idn C	Feet From 205	N/S Line N	Feet From 2130	E/W Line W	County Eddy
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**8. Proposed Bottom Hole Location**

UL - Lot N	Section 16	Township 26S	Range 29E	Lot Idn N	Feet From 330	N/S Line S	Feet From 2310	E/W Line W	County Eddy
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**9. Pool Information**

PURPLE SAGE;WOLFCAMP (GAS)	98220
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**Additional Well Information**

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 2920
16. Multiple N	17. Proposed Depth 14804	18. Formation Wolfcamp	19. Contractor	20. Spud Date 12/17/2020
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	48	550	440	0
Int1	12.25	9.625	36	2785	590	0
Prod	8.75	7	26	10250	860	2585
Liner1	6.125	4.5	13.5	14804	210	9637

**Casing/Cement Program: Additional Comments**

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**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. <b>I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.</b>  Signature:	<b>OIL CONSERVATION DIVISION</b>		
	Printed Name: Electronically filed by Monty Whetstone	Approved By: Kurt Simmons	
	Title: Vice President Operations	Title: Petroleum Specialist - A	
	Email Address: prodmgr@mewbourne.com	Approved Date: 11/20/2020	Expiration Date: 11/20/2022
	Date: 11/18/2020	Phone: 903-561-2900	Conditions of Approval Attached

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Phone: (505) 476-3460 Fax: (505) 476-3462

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 <b>98220</b>		3 Pool Name <b>PURPLE SAGE WOLFCAMP GAS</b>	
4 Property Code		5 Property Name <b>SILVER BULLET 16 W1CN STATE</b>			6 Well Number <b>4H</b>
7 OGRID NO. <b>14744</b>		8 Operator Name <b>MEWBOURNE OIL COMPANY</b>			9 Elevation <b>2920'</b>

10 Surface Location

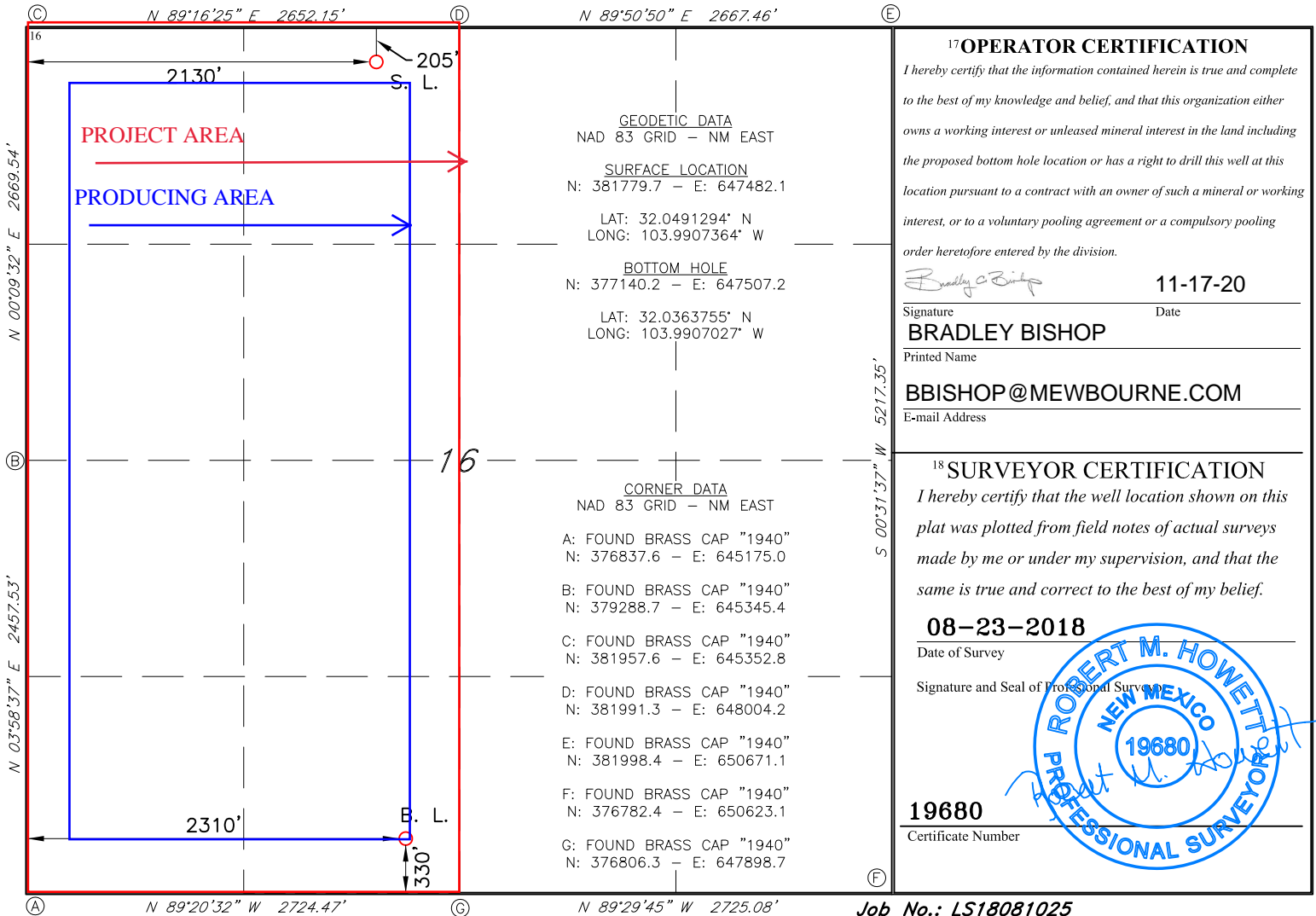
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>C</b>	<b>16</b>	<b>26S</b>	<b>29E</b>		<b>205</b>	<b>NORTH</b>	<b>2130</b>	<b>WEST</b>	<b>EDDY</b>

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>N</b>	<b>16</b>	<b>26S</b>	<b>29E</b>		<b>330</b>	<b>SOUTH</b>	<b>2310</b>	<b>WEST</b>	<b>EDDY</b>

12 Dedicated Acres <b>320</b>	13 Joint or Infill	14 Consolidation Code	15 Order No.
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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.



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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**

**GAS CAPTURE PLAN**

Date: 11/20/2020

Original

Operator & OGRID No.: [14744] MEWBOURNE OIL CO

Amended - Reason for  
Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

**Well(s)/Production Facility – Name of facility**

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
SILVER BULLET 16 W1CN STATE #004H	30-015-47694	C-16-26S-29E	0205N 2130W	10	None	ONLINE AFTER FRAC

**Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to WESTERN GAS PROCESSING and will be connected to WESTERN GAS PROCESSING High Pressure gathering system located in Eddy County, New Mexico. It will require 3400' of pipeline to connect the facility to High Pressure gathering system. MEWBOURNE OIL CO provides (periodically) to WESTERN GAS PROCESSING a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, MEWBOURNE OIL CO and WESTERN GAS PROCESSING have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at WESTERN GAS PROCESSING Processing Plant located in Sec. 16, Twn. 26S, Rng. 29E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

**Flowback Strategy**

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on WESTERN GAS PROCESSING system at that time. Based on current information, it is MEWBOURNE OIL CO's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

**Alternatives to Reduce Flaring**

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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Form APD Comments

Permit 289178

**PERMIT COMMENTS**

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241	API Number: 30-015-47694
	Well: SILVER BULLET 16 W1CN STATE #004H

Created By	Comment	Comment Date
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Form APD Conditions  
 Permit 289178

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241	API Number: 30-015-47694
	Well: SILVER BULLET 16 W1CN STATE #004H

OCD Reviewer	Condition
ksimmons	Will require a directional survey with the C-104
ksimmons	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
kpickford	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
kpickford	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
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days

Intent  As Drilled

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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

Is this well an infill well?

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



**MEWBOURNE**  
**OIL COMPANY**

## **Mewbourne Oil Company**

**Eddy Co., NM (NAD 83)**

**Sliver Bullet Pad**

**Silver Bullet 16 W1CN State #4H**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**05 November, 2020**





Project: Eddy Co., NM (NAD 83)  
 Site: Silver Bullet Pad  
 Well: Silver Bullet 16 W1CN State #4H  
 Wellbore: OH  
 Design: Plan #1  
 Lat: 32.049129  
 Long: -103.990736  
 GL: 2920.00  
 KB: KB=28' @ 2948.00usft

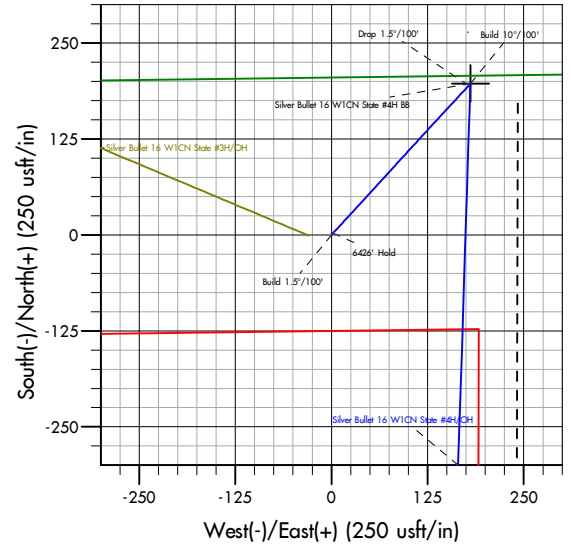
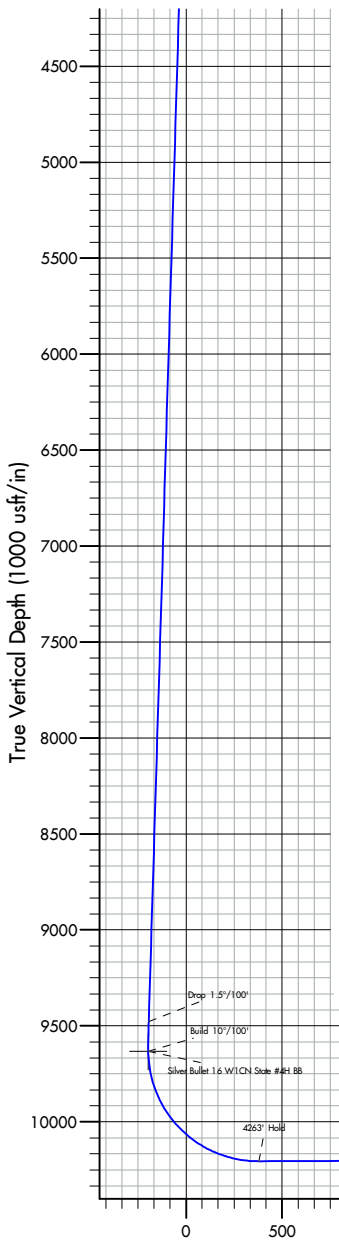


Received by OCD: 11/20/2020 8:57:42 AM

WELL DETAILS: Silver Bullet 16 W1CN State #4H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	381779.70	647482.10	32.049129	-103.990736

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Silver Bullet 16 W1CN State #4H PB#32.05	197.26	197.26	180.76	381976.96	647662.86	Point
Silver Bullet 16 W1CN State #4H PB#5.00	-4639.50	-4639.50	25.10	377140.20	647507.20	Point

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	Build 1.5°/100'
3055.31	2.33	42.50	3055.27	2.33	2.13	1.50	42.50	-2.32	6426' Hold
9482.14	2.33	42.50	9476.78	194.93	178.63	0.00	0.00	-193.96	Drop 1.5°/100'
9637.45	0.00	0.00	9632.05	197.26	180.76	1.50	180.00	-196.28	Build 10°/100'
10540.14	90.27	181.84	10205.00	-378.09	162.25	10.00	181.84	378.96	4263' Hold
14803.80	90.27	181.84	10185.00	-4639.50	25.10	0.00	0.00	4639.57	TD at 14803.80

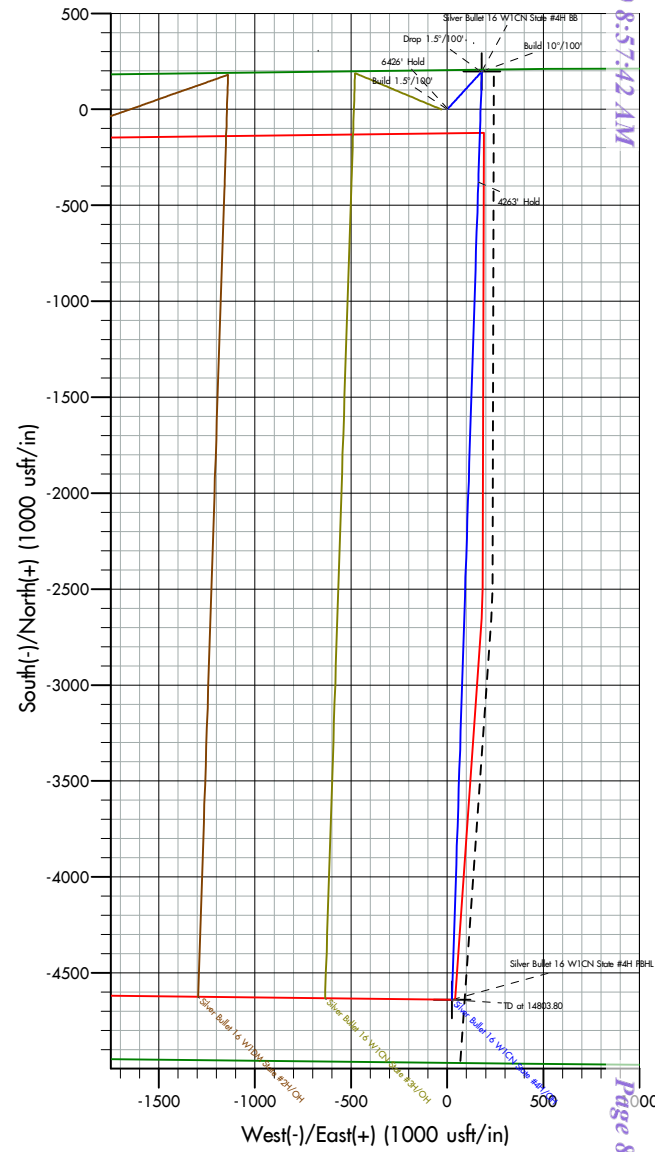


**Silver Bullet 16  
 W1CN State #4H**  
 SHL: 205' FNL & 2130' FWL  
 BHL: 330' FSL & 2310' FWL

**330' FNL Hard Line**  
**330' FSL Hard Line**  
**2322' FWL Hard Line**  
**330' FWL Hard Line**

Azimuths to Grid North  
 True North: -0.18°  
 Magnetic North: 6.52°

Magnetic Field  
 Strength: 47671.5nT  
 Dip Angle: 59.65°  
 Date: 11/5/2020  
 Model: HDGM2020



Vertical Section at 179.69° (1000 usft/in)





Altitude Energy Partners  
Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Silver Bullet 16 W1CN State #4H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	KB=28' @ 2948.00usft
<b>Project:</b>	Eddy Co., NM (NAD 83)	<b>MD Reference:</b>	KB=28' @ 2948.00usft
<b>Site:</b>	Sliver Bullet Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	Silver Bullet 16 W1CN State #4H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

<b>Project</b>	Eddy Co., NM (NAD 83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

<b>Site</b>	Sliver Bullet Pad				
<b>Site Position:</b>		<b>Northing:</b>	381,736.80 usft	<b>Latitude:</b>	32.049027
<b>From:</b>	Map	<b>Easting:</b>	645,682.20 usft	<b>Longitude:</b>	-103.996546
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "		

<b>Well</b>	Silver Bullet 16 W1CN State #4H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	381,779.70 usft	<b>Latitude:</b>	32.049129
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	647,482.10 usft	<b>Longitude:</b>	-103.990737
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	2,920.00 usft
<b>Grid Convergence:</b>	0.18 °					

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM2020	11/5/2020	6.70	59.65	47,671.50000000

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	179.69

<b>Plan Survey Tool Program</b>	<b>Date</b>	11/5/2020		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	14,803.80 Plan #1 (OH)	MWD + HDGM	
			MWD + HDGM - Standard	

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,055.31	2.33	42.50	3,055.27	2.33	2.13	1.50	1.50	0.00	42.50	
9,482.14	2.33	42.50	9,476.78	194.93	178.63	0.00	0.00	0.00	0.00	
9,637.45	0.00	0.00	9,632.05	197.26	180.76	1.50	-1.50	0.00	180.00	Silver Bullet 16 W1CN
10,540.14	90.27	181.84	10,205.00	-378.09	162.25	10.00	10.00	-19.74	181.84	
14,803.80	90.27	181.84	10,185.00	-4,639.50	25.10	0.00	0.00	0.00	0.00	Silver Bullet 16 W1CN



Altitude Energy Partners

Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Silver Bullet 16 W1CN State #4H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	KB=28' @ 2948.00usft
<b>Project:</b>	Eddy Co., NM (NAD 83)	<b>MD Reference:</b>	KB=28' @ 2948.00usft
<b>Site:</b>	Sliver Bullet Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	Silver Bullet 16 W1CN State #4H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Build 1.5°/100'</b>									
3,000.00	1.50	42.50	2,999.99	0.97	0.88	-0.96	1.50	1.50	0.00
3,055.31	2.33	42.50	3,055.27	2.33	2.13	-2.32	1.50	1.50	0.00
<b>6426' Hold</b>									
3,100.00	2.33	42.50	3,099.92	3.67	3.36	-3.65	0.00	0.00	0.00
3,200.00	2.33	42.50	3,199.84	6.66	6.11	-6.63	0.00	0.00	0.00
3,300.00	2.33	42.50	3,299.76	9.66	8.85	-9.61	0.00	0.00	0.00
3,400.00	2.33	42.50	3,399.67	12.66	11.60	-12.59	0.00	0.00	0.00
3,500.00	2.33	42.50	3,499.59	15.65	14.35	-15.58	0.00	0.00	0.00
3,600.00	2.33	42.50	3,599.51	18.65	17.09	-18.56	0.00	0.00	0.00
3,700.00	2.33	42.50	3,699.42	21.65	19.84	-21.54	0.00	0.00	0.00
3,800.00	2.33	42.50	3,799.34	24.65	22.58	-24.52	0.00	0.00	0.00
3,900.00	2.33	42.50	3,899.26	27.64	25.33	-27.50	0.00	0.00	0.00
4,000.00	2.33	42.50	3,999.18	30.64	28.08	-30.49	0.00	0.00	0.00
4,100.00	2.33	42.50	4,099.09	33.64	30.82	-33.47	0.00	0.00	0.00
4,200.00	2.33	42.50	4,199.01	36.63	33.57	-36.45	0.00	0.00	0.00
4,300.00	2.33	42.50	4,298.93	39.63	36.32	-39.43	0.00	0.00	0.00
4,400.00	2.33	42.50	4,398.85	42.63	39.06	-42.41	0.00	0.00	0.00
4,500.00	2.33	42.50	4,498.76	45.62	41.81	-45.40	0.00	0.00	0.00
4,600.00	2.33	42.50	4,598.68	48.62	44.55	-48.38	0.00	0.00	0.00
4,700.00	2.33	42.50	4,698.60	51.62	47.30	-51.36	0.00	0.00	0.00
4,800.00	2.33	42.50	4,798.52	54.61	50.05	-54.34	0.00	0.00	0.00
4,900.00	2.33	42.50	4,898.43	57.61	52.79	-57.32	0.00	0.00	0.00



Altitude Energy Partners

Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Silver Bullet 16 W1CN State #4H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	KB=28' @ 2948.00usft
<b>Project:</b>	Eddy Co., NM (NAD 83)	<b>MD Reference:</b>	KB=28' @ 2948.00usft
<b>Site:</b>	Silver Bullet Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	Silver Bullet 16 W1CN State #4H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,000.00	2.33	42.50	4,998.35	60.61	55.54	-60.31	0.00	0.00	0.00	
5,100.00	2.33	42.50	5,098.27	63.60	58.29	-63.29	0.00	0.00	0.00	
5,200.00	2.33	42.50	5,198.18	66.60	61.03	-66.27	0.00	0.00	0.00	
5,300.00	2.33	42.50	5,298.10	69.60	63.78	-69.25	0.00	0.00	0.00	
5,400.00	2.33	42.50	5,398.02	72.60	66.52	-72.23	0.00	0.00	0.00	
5,500.00	2.33	42.50	5,497.94	75.59	69.27	-75.22	0.00	0.00	0.00	
5,600.00	2.33	42.50	5,597.85	78.59	72.02	-78.20	0.00	0.00	0.00	
5,700.00	2.33	42.50	5,697.77	81.59	74.76	-81.18	0.00	0.00	0.00	
5,800.00	2.33	42.50	5,797.69	84.58	77.51	-84.16	0.00	0.00	0.00	
5,900.00	2.33	42.50	5,897.61	87.58	80.26	-87.14	0.00	0.00	0.00	
6,000.00	2.33	42.50	5,997.52	90.58	83.00	-90.13	0.00	0.00	0.00	
6,100.00	2.33	42.50	6,097.44	93.57	85.75	-93.11	0.00	0.00	0.00	
6,200.00	2.33	42.50	6,197.36	96.57	88.49	-96.09	0.00	0.00	0.00	
6,300.00	2.33	42.50	6,297.28	99.57	91.24	-99.07	0.00	0.00	0.00	
6,400.00	2.33	42.50	6,397.19	102.56	93.99	-102.05	0.00	0.00	0.00	
6,500.00	2.33	42.50	6,497.11	105.56	96.73	-105.04	0.00	0.00	0.00	
6,600.00	2.33	42.50	6,597.03	108.56	99.48	-108.02	0.00	0.00	0.00	
6,700.00	2.33	42.50	6,696.94	111.56	102.23	-111.00	0.00	0.00	0.00	
6,800.00	2.33	42.50	6,796.86	114.55	104.97	-113.98	0.00	0.00	0.00	
6,900.00	2.33	42.50	6,896.78	117.55	107.72	-116.96	0.00	0.00	0.00	
7,000.00	2.33	42.50	6,996.70	120.55	110.46	-119.95	0.00	0.00	0.00	
7,100.00	2.33	42.50	7,096.61	123.54	113.21	-122.93	0.00	0.00	0.00	
7,200.00	2.33	42.50	7,196.53	126.54	115.96	-125.91	0.00	0.00	0.00	
7,300.00	2.33	42.50	7,296.45	129.54	118.70	-128.89	0.00	0.00	0.00	
7,400.00	2.33	42.50	7,396.37	132.53	121.45	-131.87	0.00	0.00	0.00	
7,500.00	2.33	42.50	7,496.28	135.53	124.20	-134.86	0.00	0.00	0.00	
7,600.00	2.33	42.50	7,596.20	138.53	126.94	-137.84	0.00	0.00	0.00	
7,700.00	2.33	42.50	7,696.12	141.52	129.69	-140.82	0.00	0.00	0.00	
7,800.00	2.33	42.50	7,796.04	144.52	132.43	-143.80	0.00	0.00	0.00	
7,900.00	2.33	42.50	7,895.95	147.52	135.18	-146.78	0.00	0.00	0.00	
8,000.00	2.33	42.50	7,995.87	150.51	137.93	-149.77	0.00	0.00	0.00	
8,100.00	2.33	42.50	8,095.79	153.51	140.67	-152.75	0.00	0.00	0.00	
8,200.00	2.33	42.50	8,195.71	156.51	143.42	-155.73	0.00	0.00	0.00	
8,300.00	2.33	42.50	8,295.62	159.51	146.17	-158.71	0.00	0.00	0.00	
8,400.00	2.33	42.50	8,395.54	162.50	148.91	-161.69	0.00	0.00	0.00	
8,500.00	2.33	42.50	8,495.46	165.50	151.66	-164.68	0.00	0.00	0.00	
8,600.00	2.33	42.50	8,595.37	168.50	154.40	-167.66	0.00	0.00	0.00	
8,700.00	2.33	42.50	8,695.29	171.49	157.15	-170.64	0.00	0.00	0.00	
8,800.00	2.33	42.50	8,795.21	174.49	159.90	-173.62	0.00	0.00	0.00	
8,900.00	2.33	42.50	8,895.13	177.49	162.64	-176.60	0.00	0.00	0.00	
9,000.00	2.33	42.50	8,995.04	180.48	165.39	-179.59	0.00	0.00	0.00	
9,100.00	2.33	42.50	9,094.96	183.48	168.14	-182.57	0.00	0.00	0.00	
9,200.00	2.33	42.50	9,194.88	186.48	170.88	-185.55	0.00	0.00	0.00	
9,300.00	2.33	42.50	9,294.80	189.47	173.63	-188.53	0.00	0.00	0.00	
9,400.00	2.33	42.50	9,394.71	192.47	176.37	-191.51	0.00	0.00	0.00	
9,482.14	2.33	42.50	9,476.78	194.93	178.63	-193.96	0.00	0.00	0.00	
<b>Drop 1.5°/100'</b>										
9,500.00	2.06	42.50	9,494.63	195.44	179.09	-194.47	1.50	-1.50	0.00	
9,600.00	0.56	42.50	9,594.60	197.13	180.64	-196.15	1.50	-1.50	0.00	
9,637.45	0.00	0.00	9,632.05	197.26	180.76	-196.28	1.50	-1.50	0.00	
<b>Build 10°/100'</b>										
9,650.00	1.26	181.84	9,644.60	197.12	180.76	-196.14	10.00	10.00	0.00	
9,700.00	6.26	181.84	9,694.48	193.85	180.65	-192.87	10.00	10.00	0.00	
9,750.00	11.26	181.84	9,743.88	186.25	180.41	-185.27	10.00	10.00	0.00	



Altitude Energy Partners

Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Silver Bullet 16 W1CN State #4H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	KB=28' @ 2948.00usft
<b>Project:</b>	Eddy Co., NM (NAD 83)	<b>MD Reference:</b>	KB=28' @ 2948.00usft
<b>Site:</b>	Silver Bullet Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	Silver Bullet 16 W1CN State #4H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,800.00	16.26	181.84	9,792.43	174.37	180.03	-173.39	10.00	10.00	0.00
9,850.00	21.26	181.84	9,839.76	158.31	179.51	-157.33	10.00	10.00	0.00
9,900.00	26.26	181.84	9,885.51	138.18	178.86	-137.21	10.00	10.00	0.00
9,950.00	31.26	181.84	9,929.33	114.15	178.09	-113.18	10.00	10.00	0.00
10,000.00	36.26	181.84	9,970.89	86.39	177.19	-85.43	10.00	10.00	0.00
10,050.00	41.26	181.84	10,009.87	55.11	176.19	-54.16	10.00	10.00	0.00
10,100.00	46.26	181.84	10,045.97	20.56	175.08	-19.62	10.00	10.00	0.00
10,150.00	51.26	181.84	10,078.92	-17.00	173.87	17.94	10.00	10.00	0.00
10,200.00	56.26	181.84	10,108.48	-57.29	172.57	58.22	10.00	10.00	0.00
10,250.00	61.26	181.84	10,134.40	-100.00	171.20	100.93	10.00	10.00	0.00
10,300.00	66.26	181.84	10,156.51	-144.81	169.75	145.73	10.00	10.00	0.00
10,350.00	71.26	181.84	10,174.62	-191.37	168.26	192.28	10.00	10.00	0.00
10,400.00	76.26	181.84	10,188.60	-239.34	166.71	240.24	10.00	10.00	0.00
10,450.00	81.26	181.84	10,198.35	-288.34	165.13	289.23	10.00	10.00	0.00
10,500.00	86.26	181.84	10,203.78	-338.00	163.54	338.88	10.00	10.00	0.00
10,540.14	90.27	181.84	10,205.00	-378.09	162.25	378.96	10.00	10.00	0.00
<b>4263' Hold</b>									
10,600.00	90.27	181.84	10,204.72	-437.92	160.32	438.78	0.00	0.00	0.00
10,700.00	90.27	181.84	10,204.25	-537.87	157.10	538.71	0.00	0.00	0.00
10,800.00	90.27	181.84	10,203.78	-637.81	153.89	638.64	0.00	0.00	0.00
10,900.00	90.27	181.84	10,203.31	-737.76	150.67	738.57	0.00	0.00	0.00
11,000.00	90.27	181.84	10,202.84	-837.71	147.45	838.49	0.00	0.00	0.00
11,100.00	90.27	181.84	10,202.38	-937.66	144.24	938.42	0.00	0.00	0.00
11,200.00	90.27	181.84	10,201.91	-1,037.60	141.02	1,038.35	0.00	0.00	0.00
11,300.00	90.27	181.84	10,201.44	-1,137.55	137.80	1,138.28	0.00	0.00	0.00
11,400.00	90.27	181.84	10,200.97	-1,237.50	134.59	1,238.21	0.00	0.00	0.00
11,500.00	90.27	181.84	10,200.50	-1,337.44	131.37	1,338.14	0.00	0.00	0.00
11,600.00	90.27	181.84	10,200.03	-1,437.39	128.15	1,438.06	0.00	0.00	0.00
11,700.00	90.27	181.84	10,199.56	-1,537.34	124.94	1,537.99	0.00	0.00	0.00
11,800.00	90.27	181.84	10,199.09	-1,637.29	121.72	1,637.92	0.00	0.00	0.00
11,900.00	90.27	181.84	10,198.62	-1,737.23	118.50	1,737.85	0.00	0.00	0.00
12,000.00	90.27	181.84	10,198.15	-1,837.18	115.29	1,837.78	0.00	0.00	0.00
12,100.00	90.27	181.84	10,197.68	-1,937.13	112.07	1,937.71	0.00	0.00	0.00
12,200.00	90.27	181.84	10,197.22	-2,037.07	108.85	2,037.63	0.00	0.00	0.00
12,300.00	90.27	181.84	10,196.75	-2,137.02	105.64	2,137.56	0.00	0.00	0.00
12,400.00	90.27	181.84	10,196.28	-2,236.97	102.42	2,237.49	0.00	0.00	0.00
12,500.00	90.27	181.84	10,195.81	-2,336.92	99.20	2,337.42	0.00	0.00	0.00
12,600.00	90.27	181.84	10,195.34	-2,436.86	95.99	2,437.35	0.00	0.00	0.00
12,700.00	90.27	181.84	10,194.87	-2,536.81	92.77	2,537.28	0.00	0.00	0.00
12,800.00	90.27	181.84	10,194.40	-2,636.76	89.55	2,637.20	0.00	0.00	0.00
12,900.00	90.27	181.84	10,193.93	-2,736.70	86.34	2,737.13	0.00	0.00	0.00
13,000.00	90.27	181.84	10,193.46	-2,836.65	83.12	2,837.06	0.00	0.00	0.00
13,100.00	90.27	181.84	10,192.99	-2,936.60	79.90	2,936.99	0.00	0.00	0.00
13,200.00	90.27	181.84	10,192.52	-3,036.55	76.69	3,036.92	0.00	0.00	0.00
13,300.00	90.27	181.84	10,192.05	-3,136.49	73.47	3,136.84	0.00	0.00	0.00
13,400.00	90.27	181.84	10,191.59	-3,236.44	70.25	3,236.77	0.00	0.00	0.00
13,500.00	90.27	181.84	10,191.12	-3,336.39	67.04	3,336.70	0.00	0.00	0.00
13,600.00	90.27	181.84	10,190.65	-3,436.33	63.82	3,436.63	0.00	0.00	0.00
13,700.00	90.27	181.84	10,190.18	-3,536.28	60.61	3,536.56	0.00	0.00	0.00
13,800.00	90.27	181.84	10,189.71	-3,636.23	57.39	3,636.49	0.00	0.00	0.00
13,900.00	90.27	181.84	10,189.24	-3,736.18	54.17	3,736.41	0.00	0.00	0.00
14,000.00	90.27	181.84	10,188.77	-3,836.12	50.96	3,836.34	0.00	0.00	0.00
14,100.00	90.27	181.84	10,188.30	-3,936.07	47.74	3,936.27	0.00	0.00	0.00



**Altitude Energy Partners**  
Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Silver Bullet 16 W1CN State #4H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	KB=28' @ 2948.00usft
<b>Project:</b>	Eddy Co., NM (NAD 83)	<b>MD Reference:</b>	KB=28' @ 2948.00usft
<b>Site:</b>	Silver Bullet Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	Silver Bullet 16 W1CN State #4H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,200.00	90.27	181.84	10,187.83	-4,036.02	44.52	4,036.20	0.00	0.00	0.00	
14,300.00	90.27	181.84	10,187.36	-4,135.96	41.31	4,136.13	0.00	0.00	0.00	
14,400.00	90.27	181.84	10,186.89	-4,235.91	38.09	4,236.06	0.00	0.00	0.00	
14,500.00	90.27	181.84	10,186.43	-4,335.86	34.87	4,335.98	0.00	0.00	0.00	
14,600.00	90.27	181.84	10,185.96	-4,435.81	31.66	4,435.91	0.00	0.00	0.00	
14,700.00	90.27	181.84	10,185.49	-4,535.75	28.44	4,535.84	0.00	0.00	0.00	
14,803.80	90.27	181.84	10,185.00	-4,639.50	25.10	4,639.57	0.00	0.00	0.00	
<b>TD at 14803.80</b>										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Silver Bullet 16 W1CN S - hit/miss target - Shape - Point	0.00	0.00	9,632.05	197.26	180.76	381,976.96	647,662.87	32.049670	-103.990151	
Silver Bullet 16 W1CN S - plan hits target center - Point	0.00	0.00	10,185.00	-4,639.50	25.10	377,140.20	647,507.20	32.036376	-103.990703	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
2,900.00	2,900.00	0.00	0.00	Build 1.5°/100'	
3,055.31	3,055.27	2.33	2.13	6426' Hold	
9,482.14	9,476.78	194.93	178.63	Drop 1.5°/100'	
9,637.45	9,632.05	197.26	180.76	Build 10°/100'	
10,540.14	10,205.00	-378.09	162.25	4263' Hold	
14,803.80	10,185.00	-4,639.50	25.10	TD at 14803.80	



**MEWBOURNE**  
**OIL COMPANY**

## **Mewbourne Oil Company**

**Eddy Co., NM (NAD 83)**  
**Sliver Bullet Pad**  
**Silver Bullet 16 W1CN State #4H**

**OH**  
**Plan #1**

## **Anticollision Report**

**05 November, 2020**





**Altitude Energy Partners**  
Anticollision Report



<b>Company:</b>	Mewbourne Oil Company	<b>Local Co-ordinate Reference:</b>	Well Silver Bullet 16 W1CN State #4H
<b>Project:</b>	Eddy Co., NM (NAD 83)	<b>TVD Reference:</b>	KB=28' @ 2948.00usft
<b>Reference Site:</b>	Silver Bullet Pad	<b>MD Reference:</b>	KB=28' @ 2948.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Silver Bullet 16 W1CN State #4H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Max. Cent. Dist. of 1,000.00usft or Max. SF of 6	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	11/5/2020		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	14,803.80	Plan #1 (OH)	MWD + HDGM	MWD + HDGM - Standard

<b>Summary</b>						
<b>Site Name</b>	<b>Reference Measured Depth (usft)</b>	<b>Offset Measured Depth (usft)</b>	<b>Distance Between Centres (usft)</b>	<b>Distance Between Ellipses (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Offset Well - Wellbore - Design</b>						
Silver Bullet Pad						
Silver Bullet 16 W1CN State #3H - OH - Plan #1	2,900.00	2,899.00	30.00	9.68	1.476	Level 3, CC, ES, SF
Silver Bullet 16 W1DM State #1H - OH - Plan #1						Out of range
Silver Bullet 16 W1DM State #2H - OH - Plan #1						Out of range

<b>Offset Design:</b> Silver Bullet Pad - Silver Bullet 16 W1CN State #3H - OH - Plan #1													<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD + HDGM													<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>				<b>Rule Assigned:</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>		
0.00	0.00	0.00	0.00	0.00	0.00	-90.95	-0.50	-30.00	30.02					
100.00	100.00	99.00	99.00	0.13	0.13	-90.95	-0.50	-30.00	30.00	29.75	0.26	116.834		
200.00	200.00	199.00	199.00	0.49	0.48	-90.95	-0.50	-30.00	30.00	29.03	0.97	30.886		
300.00	300.00	299.00	299.00	0.85	0.84	-90.95	-0.50	-30.00	30.00	28.32	1.69	17.771		
400.00	400.00	399.00	399.00	1.20	1.20	-90.95	-0.50	-30.00	30.00	27.60	2.41	12.474		
500.00	500.00	499.00	499.00	1.56	1.56	-90.95	-0.50	-30.00	30.00	26.88	3.12	9.610		
600.00	600.00	599.00	599.00	1.92	1.92	-90.95	-0.50	-30.00	30.00	26.16	3.84	7.815		
700.00	700.00	699.00	699.00	2.28	2.28	-90.95	-0.50	-30.00	30.00	25.45	4.56	6.585		
800.00	800.00	799.00	799.00	2.64	2.63	-90.95	-0.50	-30.00	30.00	24.73	5.27	5.690		
900.00	900.00	899.00	899.00	3.00	2.99	-90.95	-0.50	-30.00	30.00	24.01	5.99	5.009		
1,000.00	1,000.00	999.00	999.00	3.36	3.35	-90.95	-0.50	-30.00	30.00	23.30	6.71	4.474		
1,100.00	1,100.00	1,099.00	1,099.00	3.71	3.71	-90.95	-0.50	-30.00	30.00	22.58	7.42	4.042		
1,200.00	1,200.00	1,199.00	1,199.00	4.07	4.07	-90.95	-0.50	-30.00	30.00	21.86	8.14	3.686		
1,300.00	1,300.00	1,299.00	1,299.00	4.43	4.43	-90.95	-0.50	-30.00	30.00	21.15	8.86	3.387		
1,400.00	1,400.00	1,399.00	1,399.00	4.79	4.79	-90.95	-0.50	-30.00	30.00	20.43	9.57	3.134		
1,500.00	1,500.00	1,499.00	1,499.00	5.15	5.14	-90.95	-0.50	-30.00	30.00	19.71	10.29	2.915		
1,600.00	1,600.00	1,599.00	1,599.00	5.51	5.50	-90.95	-0.50	-30.00	30.00	19.00	11.01	2.726		
1,700.00	1,700.00	1,699.00	1,699.00	5.86	5.86	-90.95	-0.50	-30.00	30.00	18.28	11.73	2.559		
1,800.00	1,800.00	1,799.00	1,799.00	6.22	6.22	-90.95	-0.50	-30.00	30.00	17.56	12.44	2.411		
1,900.00	1,900.00	1,899.00	1,899.00	6.58	6.58	-90.95	-0.50	-30.00	30.00	16.84	13.16	2.280		
2,000.00	2,000.00	1,999.00	1,999.00	6.94	6.94	-90.95	-0.50	-30.00	30.00	16.13	13.88	2.162		
2,100.00	2,100.00	2,099.00	2,099.00	7.30	7.29	-90.95	-0.50	-30.00	30.00	15.41	14.59	2.056		
2,200.00	2,200.00	2,199.00	2,199.00	7.66	7.65	-90.95	-0.50	-30.00	30.00	14.69	15.31	1.960		
2,300.00	2,300.00	2,299.00	2,299.00	8.02	8.01	-90.95	-0.50	-30.00	30.00	13.98	16.03	1.872		

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









Altitude Energy Partners  
Anticollision Report



<b>Company:</b>	Mewbourne Oil Company	<b>Local Co-ordinate Reference:</b>	Well Silver Bullet 16 W1CN State #4H
<b>Project:</b>	Eddy Co., NM (NAD 83)	<b>TVD Reference:</b>	KB=28' @ 2948.00usft
<b>Reference Site:</b>	Silver Bullet Pad	<b>MD Reference:</b>	KB=28' @ 2948.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Silver Bullet 16 W1CN State #4H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Silver Bullet Pad - Silver Bullet 16 W1CN State #3H - OH - Plan #1													Offset Site Error:	0.00 usft		
Survey Program: 0-MWD + HDGM													Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance			Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
11,400.00	10,200.97	11,121.65	9,940.10	40.42	39.78	68.49	-1,215.02	-524.53	708.85	632.40	76.46	9.271				
11,500.00	10,200.50	11,221.65	9,939.63	41.08	40.46	68.49	-1,314.97	-527.75	708.86	631.12	77.74	9.118				
11,600.00	10,200.03	11,321.65	9,939.16	41.79	41.17	68.49	-1,414.91	-530.97	708.87	629.76	79.10	8.961				
11,700.00	10,199.56	11,421.65	9,938.69	42.53	41.92	68.49	-1,514.86	-534.20	708.87	628.34	80.53	8.802				
11,800.00	10,199.09	11,521.65	9,938.21	43.30	42.71	68.49	-1,614.81	-537.42	708.88	626.85	82.03	8.642				
11,900.00	10,198.62	11,621.65	9,937.74	44.11	43.52	68.49	-1,714.76	-540.64	708.88	625.30	83.58	8.481				
12,000.00	10,198.15	11,721.65	9,937.27	44.95	44.37	68.49	-1,814.70	-543.86	708.89	623.69	85.20	8.320				
12,100.00	10,197.68	11,821.65	9,936.80	45.82	45.25	68.49	-1,914.65	-547.09	708.90	622.03	86.87	8.160				
12,200.00	10,197.22	11,921.65	9,936.33	46.71	46.16	68.49	-2,014.60	-550.31	708.90	620.31	88.60	8.002				
12,300.00	10,196.75	12,021.65	9,935.86	47.63	47.09	68.49	-2,114.54	-553.53	708.91	618.54	90.37	7.845				
12,400.00	10,196.28	12,121.65	9,935.39	48.58	48.04	68.49	-2,214.49	-556.76	708.91	616.73	92.19	7.690				
12,500.00	10,195.81	12,221.65	9,934.92	49.55	49.02	68.49	-2,314.44	-559.98	708.92	614.87	94.05	7.537				
12,600.00	10,195.34	12,321.65	9,934.45	50.54	50.02	68.49	-2,414.38	-563.20	708.93	612.97	95.96	7.388				
12,700.00	10,194.87	12,421.65	9,933.98	51.56	51.05	68.49	-2,514.33	-566.42	708.93	611.03	97.90	7.241				
12,800.00	10,194.40	12,521.65	9,933.51	52.59	52.09	68.49	-2,614.28	-569.65	708.94	609.05	99.89	7.098				
12,900.00	10,193.93	12,621.65	9,933.03	53.64	53.15	68.49	-2,714.23	-572.87	708.95	607.04	101.90	6.957				
13,000.00	10,193.46	12,721.65	9,932.56	54.71	54.22	68.49	-2,814.17	-576.09	708.95	605.00	103.95	6.820				
13,100.00	10,192.99	12,821.65	9,932.09	55.80	55.32	68.49	-2,914.12	-579.31	708.96	602.93	106.03	6.686				
13,200.00	10,192.52	12,921.65	9,931.62	56.90	56.42	68.49	-3,014.07	-582.54	708.96	600.83	108.14	6.556				
13,300.00	10,192.05	13,021.65	9,931.15	58.01	57.55	68.49	-3,114.01	-585.76	708.97	598.70	110.27	6.429				
13,400.00	10,191.59	13,121.65	9,930.68	59.14	58.68	68.49	-3,213.96	-588.98	708.98	596.54	112.43	6.306				
13,500.00	10,191.12	13,221.65	9,930.21	60.28	59.83	68.49	-3,313.91	-592.20	708.98	594.37	114.62	6.186				
13,600.00	10,190.65	13,321.65	9,929.74	61.43	60.99	68.49	-3,413.85	-595.43	708.99	592.16	116.83	6.069				
13,700.00	10,190.18	13,421.65	9,929.27	62.60	62.16	68.49	-3,513.80	-598.65	709.00	589.94	119.05	5.955				
13,800.00	10,189.71	13,521.65	9,928.80	63.78	63.35	68.49	-3,613.75	-601.87	709.00	587.70	121.30	5.845				
13,900.00	10,189.24	13,621.65	9,928.33	64.96	64.54	68.49	-3,713.69	-605.09	709.01	585.43	123.57	5.738				
14,000.00	10,188.77	13,721.65	9,927.86	66.16	65.74	68.49	-3,813.64	-608.32	709.01	583.15	125.86	5.633				
14,100.00	10,188.30	13,821.65	9,927.38	67.37	66.95	68.49	-3,913.59	-611.54	709.02	580.85	128.17	5.532				
14,200.00	10,187.83	13,921.65	9,926.91	68.58	68.17	68.49	-4,013.54	-614.76	709.03	578.54	130.49	5.434				
14,300.00	10,187.36	14,021.65	9,926.44	69.80	69.40	68.49	-4,113.48	-617.98	709.03	576.21	132.82	5.338				
14,400.00	10,186.89	14,121.65	9,925.97	71.03	70.64	68.49	-4,213.43	-621.21	709.04	573.86	135.17	5.245				
14,500.00	10,186.43	14,221.65	9,925.50	72.27	71.88	68.49	-4,313.38	-624.43	709.05	571.51	137.54	5.155				
14,600.00	10,185.96	14,321.65	9,925.03	73.52	73.13	68.49	-4,413.32	-627.65	709.05	569.13	139.92	5.068				
14,700.00	10,185.49	14,421.65	9,924.56	74.77	74.39	68.49	-4,513.27	-630.88	709.06	566.75	142.31	4.983				
14,803.80	10,185.00	14,525.45	9,924.07	76.07	75.70	68.49	-4,617.02	-634.22	709.06	564.26	144.80	4.897				

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



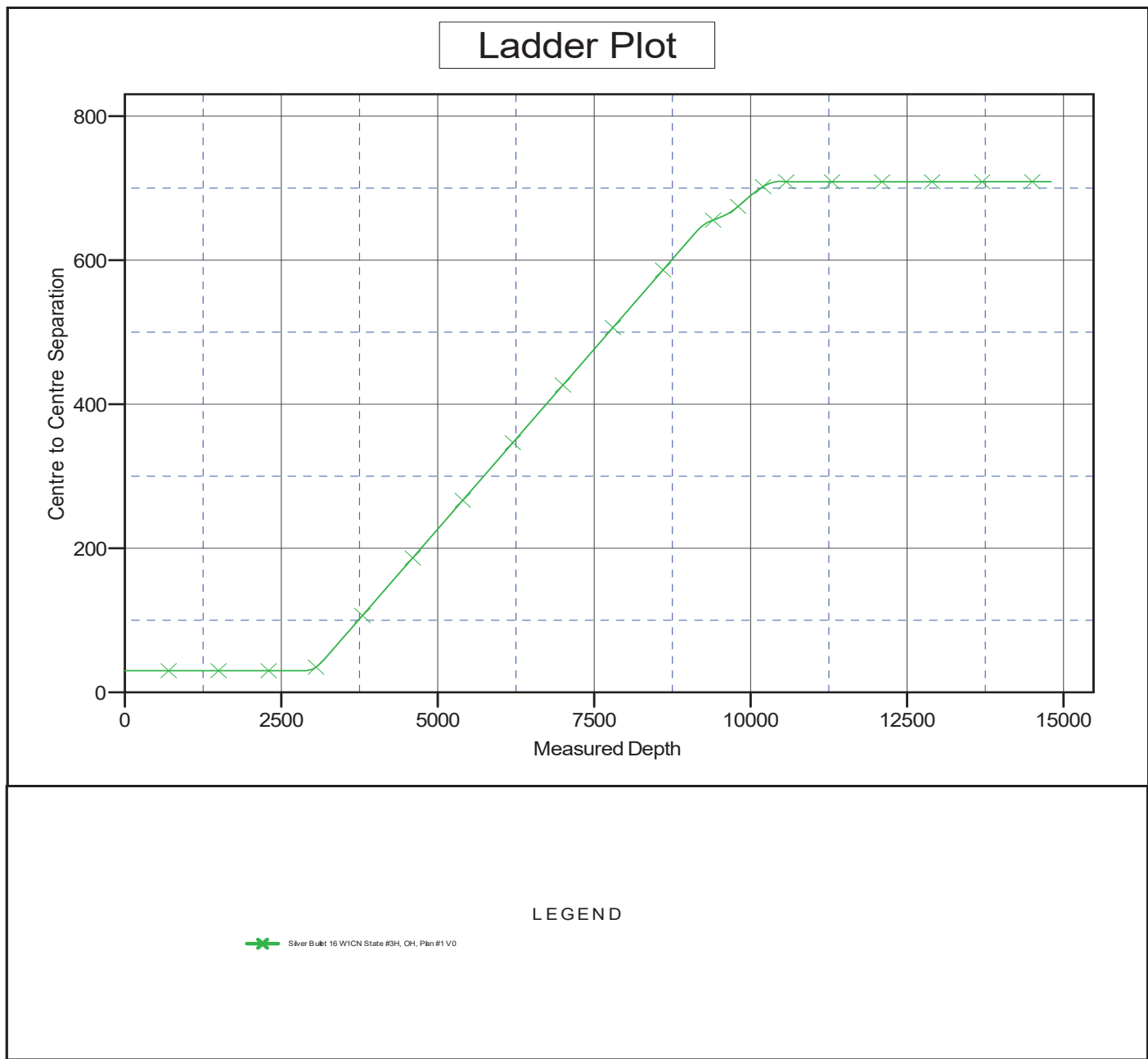
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Anticollision Report



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<b>Reference Well:</b>	Silver Bullet 16 W1CN State #4H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB=28' @ 2948.00usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -104.333334

Coordinates are relative to: Silver Bullet 16 W1CN State #4H  
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
 Grid Convergence at Surface is: 0.18°





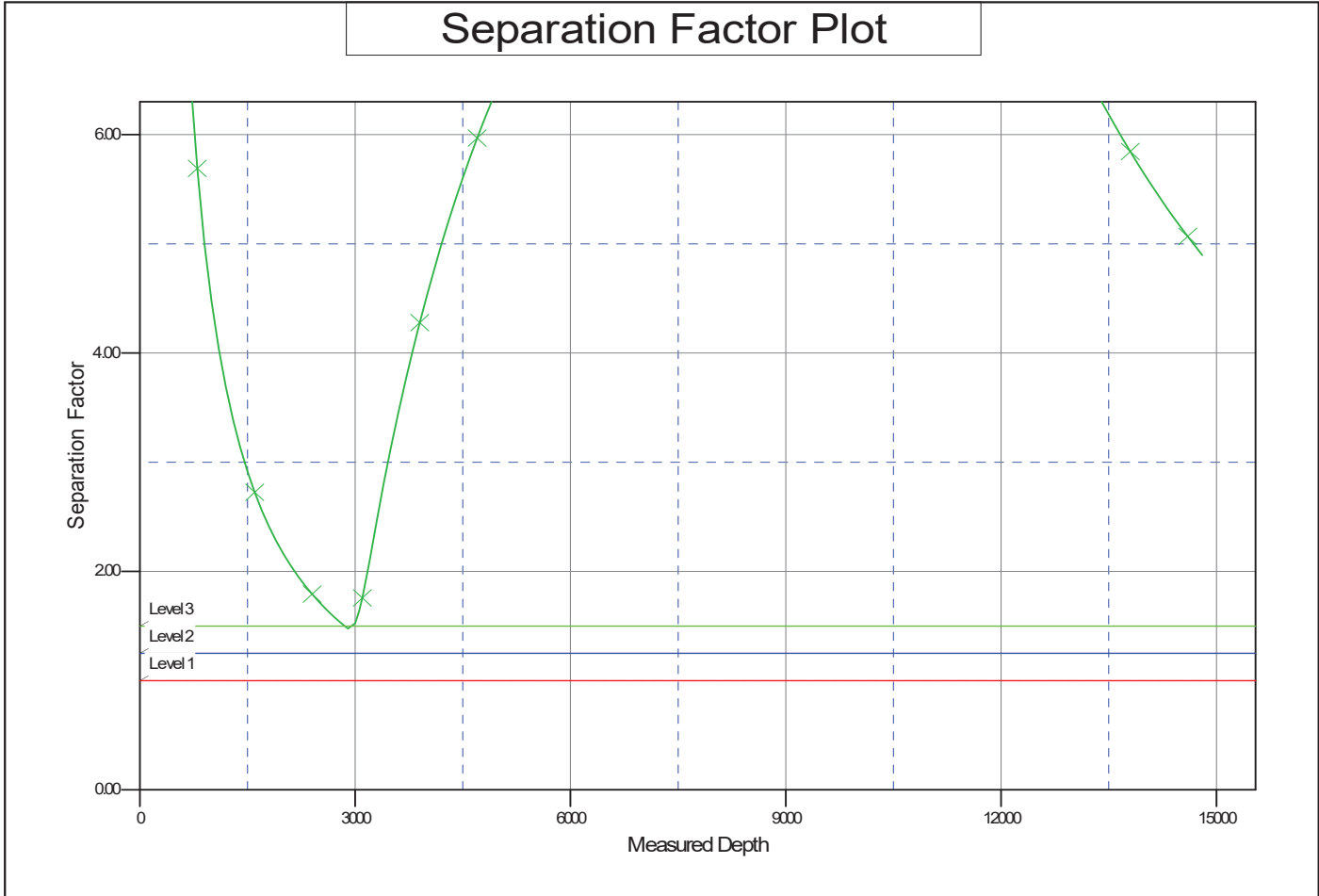
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Anticollision Report



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### LEGEND

Silver Bullet 16 W1CN State #3H, OH, Plan #1 V0