

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 289182

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 30-015-47692
4. Property Code 322292	5. Property Name SILVER BULLET 16 W1DM STATE	6. Well No. 002H

7. Surface Location

UL - Lot D	Section 16	Township 26S	Range 29E	Lot Idn D	Feet From 225	N/S Line N	Feet From 360	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot M	Section 16	Township 26S	Range 29E	Lot Idn M	Feet From 330	N/S Line S	Feet From 990	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 2941
16. Multiple N	17. Proposed Depth 14805	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	14805	210	9670

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.
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:	Kurt Simmons
Title:	Vice President Operations	Title:	Petroleum Specialist - A
Email Address:	prodmgr@mewbourne.com	Approved Date:	11/20/2020
Date:	11/18/2020	Phone:	903-561-2900
		Expiration Date:	11/20/2022
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 98220		³ Pool Name PURPLE SAGE WOLFCAMP GAS	
⁴ Property Code		⁵ Property Name SILVER BULLET 16 W1DM STATE			⁶ Well Number 2H
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 2941'

¹⁰ Surface Location

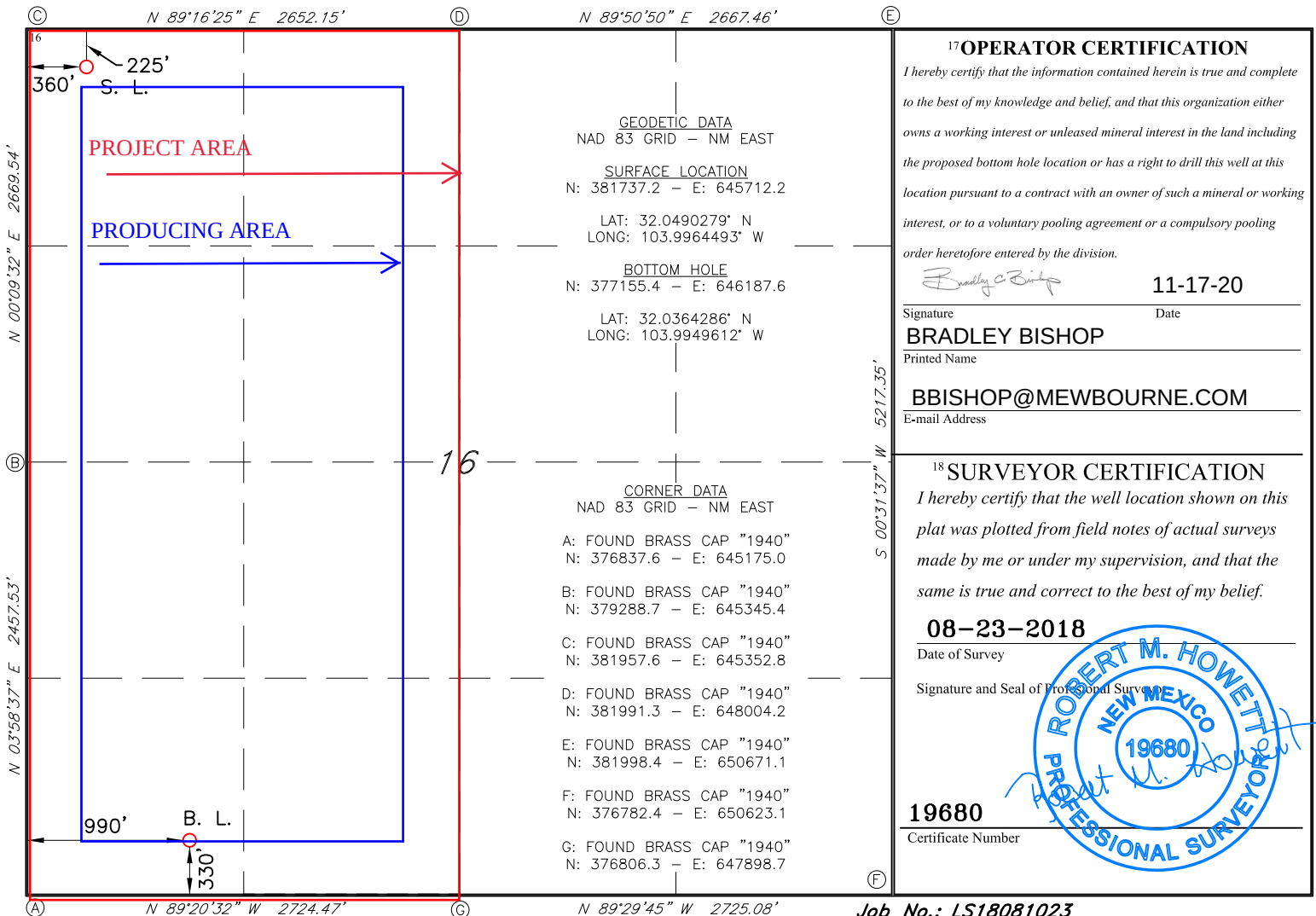
UL or lot no. D	Section 16	Township 26S	Range 29E	Lot Idn	Feet from the 225	North/South line NORTH	Feet From the 360	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. M	Section 16	Township 26S	Range 29E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 990	East/West line WEST	County EDDY
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¹² Dedicated Acres 320	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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Oil Conservation Division
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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, recomple 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 W1DM STATE #002H	30-015-47692	D-16-26S-29E	0225N 0360W	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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Form APD Comments

Permit 289182

PERMIT COMMENTS

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241		API Number: 30-015-47692
		Well: SILVER BULLET 16 W1DM STATE #002H
Created By	Comment	Comment Date

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Form APD Conditions

Permit 289182

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241	API Number: 30-015-47692
	Well: SILVER BULLET 16 W1DM STATE #002H

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	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	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	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

KZ 06/29/2018



MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Eddy Co., NM (NAD 83)

Sliver Bullet Pad

Silver Bullet 16 W1DM State #2H

OH

Plan: Plan #1

Standard Planning Report

05 November, 2020





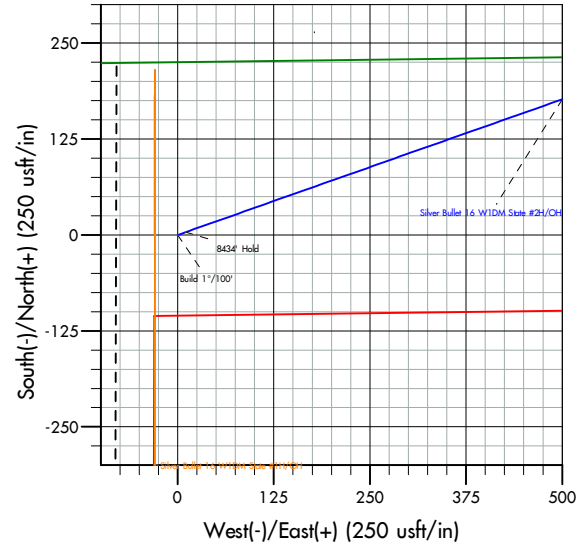
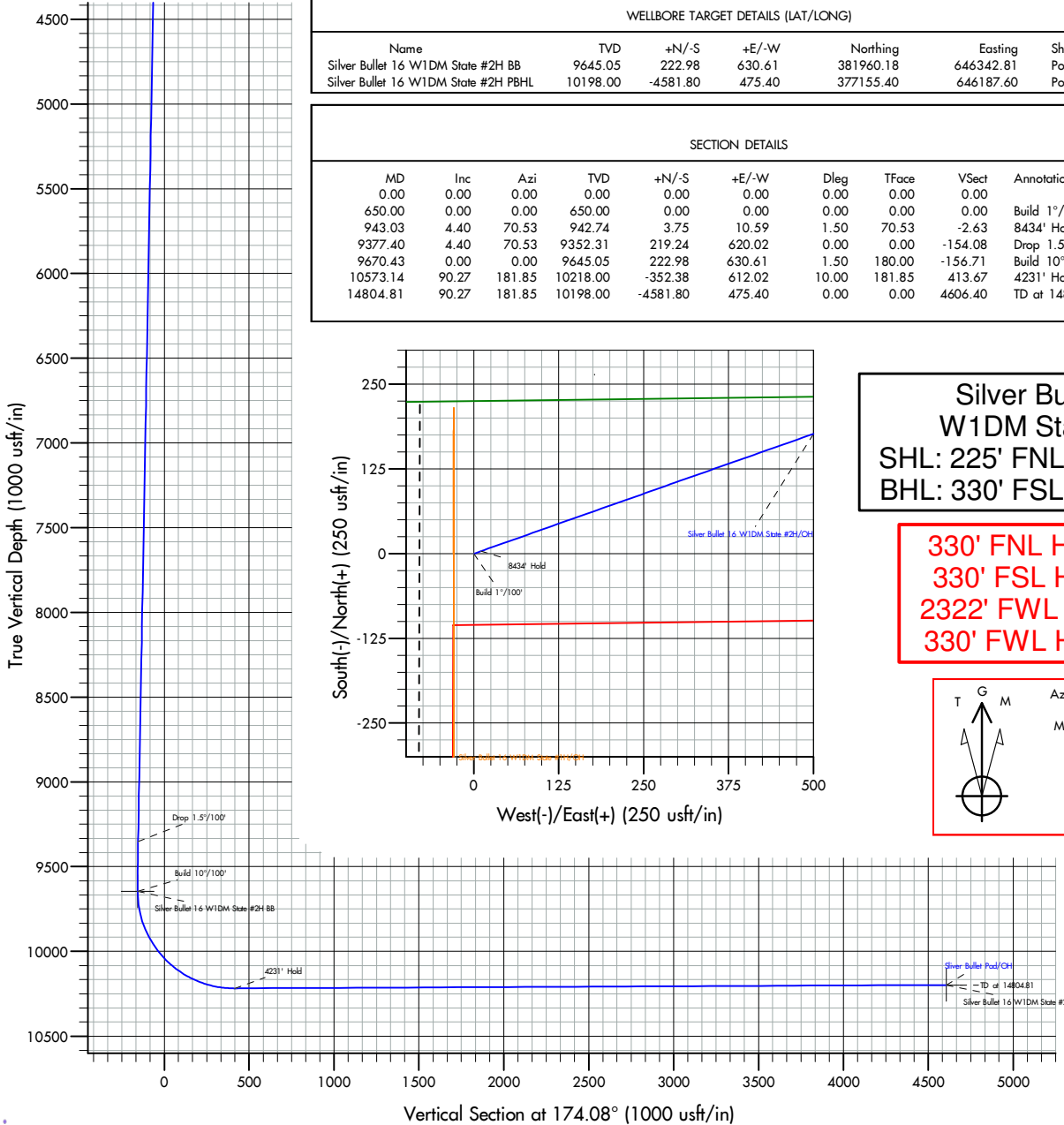
Project: Eddy Co., NM (NAD 83)
Site: Silver Bullet Pad
Well: Silver Bullet 16 W1DM State #2H
Wellbore: OH
Design: Plan #1
Lat: 32.049028
Long: -103.996449
GL: 2941.00
KB: KB=28' @ 2969.00usft



WELL DETAILS: Silver Bullet 16 W1DM State #2H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	381737.20	645712.20	32.049028	-103.996449

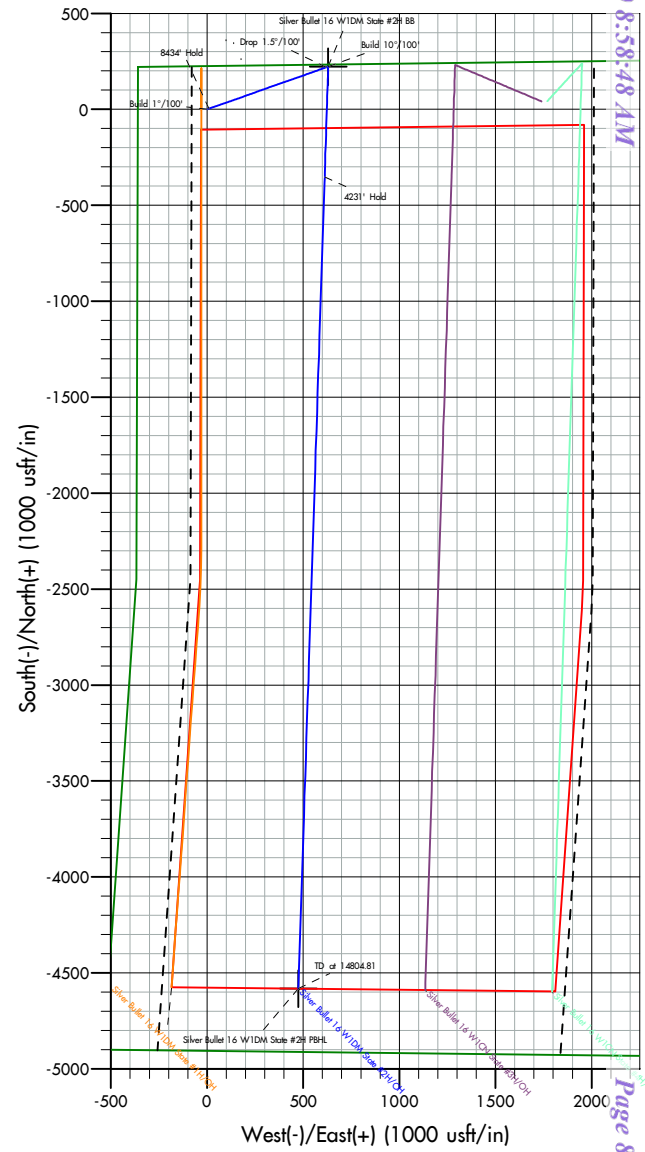
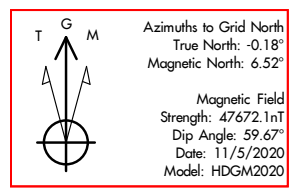
WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Silver Bullet 16 W1DM State #2H BB	9645.05	222.98	630.61	381960.18	646342.81	Point
Silver Bullet 16 W1DM State #2H PBHL	10198.00	-4581.80	475.40	377155.40	646187.60	Point

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
650.00	0.00	0.00	650.00	0.00	0.00	0.00	0.00	0.00	Build 1°/100'
943.03	4.40	70.53	942.74	3.75	10.59	1.50	70.53	-2.63	8434' Hold
9377.40	4.40	70.53	9352.31	219.24	620.02	0.00	0.00	-154.08	Drop 1.5°/100'
9670.43	0.00	0.00	9645.05	222.98	630.61	1.50	180.00	-156.71	Build 10°/100'
10573.14	90.27	181.85	10218.00	-352.38	612.02	10.00	181.85	413.67	4231' Hold
14804.81	90.27	181.85	10198.00	-4581.80	475.40	0.00	0.00	4606.40	TD at 14804.81



Silver Bullet 16
W1DM State #2H
SHL: 225' FNL & 360' FWL
BHL: 330' FSL & 990' FWL

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





Altitude Energy Partners

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Silver Bullet 16 W1DM State #2H
Company:	Mewbourne Oil Company	TVD Reference:	KB=28' @ 2969.00usft
Project:	Eddy Co., NM (NAD 83)	MD Reference:	KB=28' @ 2969.00usft
Site:	Silver Bullet Pad	North Reference:	Grid
Well:	Silver Bullet 16 W1DM State #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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

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

Well	Silver Bullet 16 W1DM State #2H					
Well Position	+N/-S	0.00 usft	Northing:	381,737.20 usft	Latitude:	32.049028
	+E/-W	0.00 usft	Easting:	645,712.20 usft	Longitude:	-103.996450
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,941.00 usft
Grid Convergence:		0.18 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	11/5/2020	6.70	59.67	47,672.10000000

Design	Plan #1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	174.08	

Plan Survey Tool Program	Date	11/5/2020			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	14,804.81 Plan #1 (OH)	MWD + HDGM		
			MWD + HDGM - Standard		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
650.00	0.00	0.01	650.00	0.00	0.00	0.00	0.00	0.00	0.01	
943.03	4.40	70.53	942.74	3.75	10.59	1.50	1.50	0.00	70.53	
9,377.40	4.40	70.53	9,352.31	219.24	620.02	0.00	0.00	0.00	0.00	
9,670.43	0.00	0.01	9,645.05	222.98	630.61	1.50	-1.50	0.00	180.00	Silver Bullet 16 W1DM
10,573.14	90.27	181.85	10,218.00	-352.38	612.02	10.00	10.00	-19.74	181.85	
14,804.81	90.27	181.85	10,198.00	-4,581.80	475.40	0.00	0.00	0.00	0.00	Silver Bullet 16 W1DM



Altitude Energy Partners

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Silver Bullet 16 W1DM State #2H
Company:	Mewbourne Oil Company	TVD Reference:	KB=28' @ 2969.00usft
Project:	Eddy Co., NM (NAD 83)	MD Reference:	KB=28' @ 2969.00usft
Site:	Silver Bullet Pad	North Reference:	Grid
Well:	Silver Bullet 16 W1DM State #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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
650.00	0.00	0.00	650.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1°/100'									
700.00	0.75	70.53	700.00	0.11	0.31	-0.08	1.50	1.50	0.00
800.00	2.25	70.53	799.96	0.98	2.78	-0.69	1.50	1.50	0.00
900.00	3.75	70.53	899.82	2.73	7.71	-1.92	1.50	1.50	0.00
943.03	4.40	70.53	942.74	3.75	10.59	-2.63	1.50	1.50	0.00
8434' Hold									
1,000.00	4.40	70.53	999.55	5.20	14.71	-3.66	0.00	0.00	0.00
1,100.00	4.40	70.53	1,099.25	7.76	21.93	-5.45	0.00	0.00	0.00
1,200.00	4.40	70.53	1,198.96	10.31	29.16	-7.25	0.00	0.00	0.00
1,300.00	4.40	70.53	1,298.66	12.87	36.38	-9.04	0.00	0.00	0.00
1,400.00	4.40	70.53	1,398.37	15.42	43.61	-10.84	0.00	0.00	0.00
1,500.00	4.40	70.53	1,498.07	17.98	50.84	-12.63	0.00	0.00	0.00
1,600.00	4.40	70.53	1,597.78	20.53	58.06	-14.43	0.00	0.00	0.00
1,700.00	4.40	70.53	1,697.49	23.09	65.29	-16.22	0.00	0.00	0.00
1,800.00	4.40	70.53	1,797.19	25.64	72.51	-18.02	0.00	0.00	0.00
1,900.00	4.40	70.53	1,896.90	28.20	79.74	-19.82	0.00	0.00	0.00
2,000.00	4.40	70.53	1,996.60	30.75	86.96	-21.61	0.00	0.00	0.00
2,100.00	4.40	70.53	2,096.31	33.30	94.19	-23.41	0.00	0.00	0.00
2,200.00	4.40	70.53	2,196.02	35.86	101.41	-25.20	0.00	0.00	0.00
2,300.00	4.40	70.53	2,295.72	38.41	108.64	-27.00	0.00	0.00	0.00
2,400.00	4.40	70.53	2,395.43	40.97	115.87	-28.79	0.00	0.00	0.00
2,500.00	4.40	70.53	2,495.13	43.52	123.09	-30.59	0.00	0.00	0.00
2,600.00	4.40	70.53	2,594.84	46.08	130.32	-32.38	0.00	0.00	0.00
2,700.00	4.40	70.53	2,694.55	48.63	137.54	-34.18	0.00	0.00	0.00
2,800.00	4.40	70.53	2,794.25	51.19	144.77	-35.98	0.00	0.00	0.00
2,900.00	4.40	70.53	2,893.96	53.74	151.99	-37.77	0.00	0.00	0.00
3,000.00	4.40	70.53	2,993.66	56.30	159.22	-39.57	0.00	0.00	0.00
3,100.00	4.40	70.53	3,093.37	58.85	166.44	-41.36	0.00	0.00	0.00
3,200.00	4.40	70.53	3,193.07	61.41	173.67	-43.16	0.00	0.00	0.00
3,300.00	4.40	70.53	3,292.78	63.96	180.90	-44.95	0.00	0.00	0.00
3,400.00	4.40	70.53	3,392.49	66.52	188.12	-46.75	0.00	0.00	0.00
3,500.00	4.40	70.53	3,492.19	69.07	195.35	-48.54	0.00	0.00	0.00
3,600.00	4.40	70.53	3,591.90	71.63	202.57	-50.34	0.00	0.00	0.00
3,700.00	4.40	70.53	3,691.60	74.18	209.80	-52.14	0.00	0.00	0.00
3,800.00	4.40	70.53	3,791.31	76.74	217.02	-53.93	0.00	0.00	0.00
3,900.00	4.40	70.53	3,891.02	79.29	224.25	-55.73	0.00	0.00	0.00
4,000.00	4.40	70.53	3,990.72	81.85	231.47	-57.52	0.00	0.00	0.00
4,100.00	4.40	70.53	4,090.43	84.40	238.70	-59.32	0.00	0.00	0.00
4,200.00	4.40	70.53	4,190.13	86.96	245.92	-61.11	0.00	0.00	0.00
4,300.00	4.40	70.53	4,289.84	89.51	253.15	-62.91	0.00	0.00	0.00
4,400.00	4.40	70.53	4,389.55	92.07	260.38	-64.70	0.00	0.00	0.00
4,500.00	4.40	70.53	4,489.25	94.62	267.60	-66.50	0.00	0.00	0.00
4,600.00	4.40	70.53	4,588.96	97.18	274.83	-68.30	0.00	0.00	0.00
4,700.00	4.40	70.53	4,688.66	99.73	282.05	-70.09	0.00	0.00	0.00
4,800.00	4.40	70.53	4,788.37	102.29	289.28	-71.89	0.00	0.00	0.00



Altitude Energy Partners

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Silver Bullet 16 W1DM State #2H
Company:	Mewbourne Oil Company	TVD Reference:	KB=28' @ 2969.00usft
Project:	Eddy Co., NM (NAD 83)	MD Reference:	KB=28' @ 2969.00usft
Site:	Silver Bullet Pad	North Reference:	Grid
Well:	Silver Bullet 16 W1DM State #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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)
4,900.00	4.40	70.53	4,888.07	104.84	296.50	-73.68	0.00	0.00	0.00
5,000.00	4.40	70.53	4,987.78	107.40	303.73	-75.48	0.00	0.00	0.00
5,100.00	4.40	70.53	5,087.49	109.95	310.95	-77.27	0.00	0.00	0.00
5,200.00	4.40	70.53	5,187.19	112.51	318.18	-79.07	0.00	0.00	0.00
5,300.00	4.40	70.53	5,286.90	115.06	325.41	-80.86	0.00	0.00	0.00
5,400.00	4.40	70.53	5,386.60	117.62	332.63	-82.66	0.00	0.00	0.00
5,500.00	4.40	70.53	5,486.31	120.17	339.86	-84.46	0.00	0.00	0.00
5,600.00	4.40	70.53	5,586.02	122.73	347.08	-86.25	0.00	0.00	0.00
5,700.00	4.40	70.53	5,685.72	125.28	354.31	-88.05	0.00	0.00	0.00
5,800.00	4.40	70.53	5,785.43	127.84	361.53	-89.84	0.00	0.00	0.00
5,900.00	4.40	70.53	5,885.13	130.39	368.76	-91.64	0.00	0.00	0.00
6,000.00	4.40	70.53	5,984.84	132.95	375.98	-93.43	0.00	0.00	0.00
6,100.00	4.40	70.53	6,084.55	135.50	383.21	-95.23	0.00	0.00	0.00
6,200.00	4.40	70.53	6,184.25	138.06	390.44	-97.03	0.00	0.00	0.00
6,300.00	4.40	70.53	6,283.96	140.61	397.66	-98.82	0.00	0.00	0.00
6,400.00	4.40	70.53	6,383.66	143.17	404.89	-100.62	0.00	0.00	0.00
6,500.00	4.40	70.53	6,483.37	145.72	412.11	-102.41	0.00	0.00	0.00
6,600.00	4.40	70.53	6,583.07	148.28	419.34	-104.21	0.00	0.00	0.00
6,700.00	4.40	70.53	6,682.78	150.83	426.56	-106.00	0.00	0.00	0.00
6,800.00	4.40	70.53	6,782.49	153.39	433.79	-107.80	0.00	0.00	0.00
6,900.00	4.40	70.53	6,882.19	155.94	441.01	-109.59	0.00	0.00	0.00
7,000.00	4.40	70.53	6,981.90	158.50	448.24	-111.39	0.00	0.00	0.00
7,100.00	4.40	70.53	7,081.60	161.05	455.47	-113.19	0.00	0.00	0.00
7,200.00	4.40	70.53	7,181.31	163.61	462.69	-114.98	0.00	0.00	0.00
7,300.00	4.40	70.53	7,281.02	166.16	469.92	-116.78	0.00	0.00	0.00
7,400.00	4.40	70.53	7,380.72	168.72	477.14	-118.57	0.00	0.00	0.00
7,500.00	4.40	70.53	7,480.43	171.27	484.37	-120.37	0.00	0.00	0.00
7,600.00	4.40	70.53	7,580.13	173.83	491.59	-122.16	0.00	0.00	0.00
7,700.00	4.40	70.53	7,679.84	176.38	498.82	-123.96	0.00	0.00	0.00
7,800.00	4.40	70.53	7,779.55	178.94	506.04	-125.75	0.00	0.00	0.00
7,900.00	4.40	70.53	7,879.25	181.49	513.27	-127.55	0.00	0.00	0.00
8,000.00	4.40	70.53	7,978.96	184.05	520.49	-129.35	0.00	0.00	0.00
8,100.00	4.40	70.53	8,078.66	186.60	527.72	-131.14	0.00	0.00	0.00
8,200.00	4.40	70.53	8,178.37	189.16	534.95	-132.94	0.00	0.00	0.00
8,300.00	4.40	70.53	8,278.08	191.71	542.17	-134.73	0.00	0.00	0.00
8,400.00	4.40	70.53	8,377.78	194.27	549.40	-136.53	0.00	0.00	0.00
8,500.00	4.40	70.53	8,477.49	196.82	556.62	-138.32	0.00	0.00	0.00
8,600.00	4.40	70.53	8,577.19	199.38	563.85	-140.12	0.00	0.00	0.00
8,700.00	4.40	70.53	8,676.90	201.93	571.07	-141.91	0.00	0.00	0.00
8,800.00	4.40	70.53	8,776.60	204.49	578.30	-143.71	0.00	0.00	0.00
8,900.00	4.40	70.53	8,876.31	207.04	585.52	-145.51	0.00	0.00	0.00
9,000.00	4.40	70.53	8,976.02	209.59	592.75	-147.30	0.00	0.00	0.00
9,100.00	4.40	70.53	9,075.72	212.15	599.98	-149.10	0.00	0.00	0.00
9,200.00	4.40	70.53	9,175.43	214.70	607.20	-150.89	0.00	0.00	0.00
9,300.00	4.40	70.53	9,275.13	217.26	614.43	-152.69	0.00	0.00	0.00
9,377.40	4.40	70.53	9,352.31	219.24	620.02	-154.08	0.00	0.00	0.00
Drop 1.5°/100'									
9,400.00	4.06	70.53	9,374.84	219.79	621.59	-154.47	1.50	-1.50	0.00
9,500.00	2.56	70.53	9,474.68	221.72	627.03	-155.82	1.50	-1.50	0.00
9,600.00	1.06	70.53	9,574.62	222.77	630.00	-156.56	1.50	-1.50	0.00
9,670.43	0.00	0.00	9,645.05	222.98	630.61	-156.71	1.50	-1.50	-100.14
Build 10°/100'									
9,700.00	2.96	181.85	9,674.61	222.22	630.59	-155.95	10.00	10.00	-602.49
9,750.00	7.96	181.85	9,724.36	217.47	630.43	-151.24	10.00	10.00	0.00



Altitude Energy Partners

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Silver Bullet 16 W1DM State #2H
Company:	Mewbourne Oil Company	TVD Reference:	KB=28' @ 2969.00usft
Project:	Eddy Co., NM (NAD 83)	MD Reference:	KB=28' @ 2969.00usft
Site:	Silver Bullet Pad	North Reference:	Grid
Well:	Silver Bullet 16 W1DM State #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	12.96	181.85	9,773.52	208.40	630.14	-142.26	10.00	10.00	0.00	
9,850.00	17.96	181.85	9,821.69	195.09	629.71	-129.06	10.00	10.00	0.00	
9,900.00	22.96	181.85	9,868.53	177.63	629.15	-111.75	10.00	10.00	0.00	
9,950.00	27.96	181.85	9,913.66	156.15	628.45	-90.46	10.00	10.00	0.00	
10,000.00	32.96	181.85	9,956.74	130.83	627.63	-65.36	10.00	10.00	0.00	
10,050.00	37.96	181.85	9,997.46	101.85	626.70	-36.63	10.00	10.00	0.00	
10,100.00	42.96	181.85	10,035.49	69.43	625.65	-4.49	10.00	10.00	0.00	
10,150.00	47.96	181.85	10,070.55	33.83	624.50	30.80	10.00	10.00	0.00	
10,200.00	52.96	181.85	10,102.38	-4.70	623.26	69.00	10.00	10.00	0.00	
10,250.00	57.96	181.85	10,130.72	-45.85	621.93	109.79	10.00	10.00	0.00	
10,300.00	62.96	181.85	10,155.36	-89.31	620.52	152.87	10.00	10.00	0.00	
10,350.00	67.96	181.85	10,176.13	-134.76	619.05	197.92	10.00	10.00	0.00	
10,400.00	72.96	181.85	10,192.85	-181.84	617.53	244.60	10.00	10.00	0.00	
10,450.00	77.96	181.85	10,205.40	-230.19	615.97	292.53	10.00	10.00	0.00	
10,500.00	82.96	181.85	10,213.68	-279.46	614.38	341.37	10.00	10.00	0.00	
10,550.00	87.96	181.85	10,217.64	-329.26	612.77	390.74	10.00	10.00	0.00	
10,573.14	90.27	181.85	10,218.00	-352.38	612.02	413.67	10.00	10.00	0.00	
4231' Hold										
10,600.00	90.27	181.85	10,217.87	-379.23	611.16	440.28	0.00	0.00	0.00	
10,700.00	90.27	181.85	10,217.40	-479.18	607.93	539.36	0.00	0.00	0.00	
10,800.00	90.27	181.85	10,216.93	-579.12	604.70	638.44	0.00	0.00	0.00	
10,900.00	90.27	181.85	10,216.46	-679.07	601.47	737.52	0.00	0.00	0.00	
11,000.00	90.27	181.85	10,215.98	-779.02	598.24	836.60	0.00	0.00	0.00	
11,100.00	90.27	181.85	10,215.51	-878.96	595.01	935.68	0.00	0.00	0.00	
11,200.00	90.27	181.85	10,215.04	-978.91	591.79	1,034.76	0.00	0.00	0.00	
11,300.00	90.27	181.85	10,214.57	-1,078.86	588.56	1,133.84	0.00	0.00	0.00	
11,400.00	90.27	181.85	10,214.09	-1,178.80	585.33	1,232.92	0.00	0.00	0.00	
11,500.00	90.27	181.85	10,213.62	-1,278.75	582.10	1,332.00	0.00	0.00	0.00	
11,600.00	90.27	181.85	10,213.15	-1,378.70	578.87	1,431.08	0.00	0.00	0.00	
11,700.00	90.27	181.85	10,212.68	-1,478.64	575.64	1,530.16	0.00	0.00	0.00	
11,800.00	90.27	181.85	10,212.20	-1,578.59	572.41	1,629.24	0.00	0.00	0.00	
11,900.00	90.27	181.85	10,211.73	-1,678.54	569.19	1,728.32	0.00	0.00	0.00	
12,000.00	90.27	181.85	10,211.26	-1,778.48	565.96	1,827.40	0.00	0.00	0.00	
12,100.00	90.27	181.85	10,210.78	-1,878.43	562.73	1,926.48	0.00	0.00	0.00	
12,200.00	90.27	181.85	10,210.31	-1,978.38	559.50	2,025.56	0.00	0.00	0.00	
12,300.00	90.27	181.85	10,209.84	-2,078.32	556.27	2,124.64	0.00	0.00	0.00	
12,400.00	90.27	181.85	10,209.37	-2,178.27	553.04	2,223.72	0.00	0.00	0.00	
12,500.00	90.27	181.85	10,208.89	-2,278.22	549.81	2,322.80	0.00	0.00	0.00	
12,600.00	90.27	181.85	10,208.42	-2,378.16	546.59	2,421.88	0.00	0.00	0.00	
12,700.00	90.27	181.85	10,207.95	-2,478.11	543.36	2,520.96	0.00	0.00	0.00	
12,800.00	90.27	181.85	10,207.48	-2,578.06	540.13	2,620.04	0.00	0.00	0.00	
12,900.00	90.27	181.85	10,207.00	-2,678.00	536.90	2,719.12	0.00	0.00	0.00	
13,000.00	90.27	181.85	10,206.53	-2,777.95	533.67	2,818.20	0.00	0.00	0.00	
13,100.00	90.27	181.85	10,206.06	-2,877.90	530.44	2,917.27	0.00	0.00	0.00	
13,200.00	90.27	181.85	10,205.59	-2,977.85	527.21	3,016.35	0.00	0.00	0.00	
13,300.00	90.27	181.85	10,205.11	-3,077.79	523.98	3,115.43	0.00	0.00	0.00	
13,400.00	90.27	181.85	10,204.64	-3,177.74	520.76	3,214.51	0.00	0.00	0.00	
13,500.00	90.27	181.85	10,204.17	-3,277.69	517.53	3,313.59	0.00	0.00	0.00	
13,600.00	90.27	181.85	10,203.69	-3,377.63	514.30	3,412.67	0.00	0.00	0.00	
13,700.00	90.27	181.85	10,203.22	-3,477.58	511.07	3,511.75	0.00	0.00	0.00	
13,800.00	90.27	181.85	10,202.75	-3,577.53	507.84	3,610.83	0.00	0.00	0.00	
13,900.00	90.27	181.85	10,202.28	-3,677.47	504.61	3,709.91	0.00	0.00	0.00	
14,000.00	90.27	181.85	10,201.80	-3,777.42	501.38	3,808.99	0.00	0.00	0.00	



Altitude Energy Partners

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Silver Bullet 16 W1DM State #2H
Company:	Mewbourne Oil Company	TVD Reference:	KB=28' @ 2969.00usft
Project:	Eddy Co., NM (NAD 83)	MD Reference:	KB=28' @ 2969.00usft
Site:	Silver Bullet Pad	North Reference:	Grid
Well:	Silver Bullet 16 W1DM State #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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)
14,100.00	90.27	181.85	10,201.33	-3,877.37	498.16	3,908.07	0.00	0.00	0.00
14,200.00	90.27	181.85	10,200.86	-3,977.31	494.93	4,007.15	0.00	0.00	0.00
14,300.00	90.27	181.85	10,200.39	-4,077.26	491.70	4,106.23	0.00	0.00	0.00
14,400.00	90.27	181.85	10,199.91	-4,177.21	488.47	4,205.31	0.00	0.00	0.00
14,500.00	90.27	181.85	10,199.44	-4,277.15	485.24	4,304.39	0.00	0.00	0.00
14,600.00	90.27	181.85	10,198.97	-4,377.10	482.01	4,403.47	0.00	0.00	0.00
14,700.00	90.27	181.85	10,198.50	-4,477.05	478.78	4,502.55	0.00	0.00	0.00
14,804.81	90.27	181.85	10,198.00	-4,581.80	475.40	4,606.40	0.00	0.00	0.00
TD at 14804.81									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Silver Bullet 16 W1DM S	0.00	0.01	9,645.05	222.98	630.61	381,960.18	646,342.82	32.049635	-103.994412
- plan hits target center									
- Point									
Silver Bullet 16 W1DM S	0.00	0.01	10,198.00	-4,581.80	475.40	377,155.40	646,187.60	32.036429	-103.994961
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
650.00	650.00	0.00	0.00	Build 1°/100'
943.03	942.74	3.75	10.59	8434' Hold
9,377.40	9,352.31	219.24	620.02	Drop 1.5°/100'
9,670.43	9,645.05	222.98	630.61	Build 10°/100'
10,573.14	10,218.00	-352.38	612.02	4231' Hold
14,804.81	10,198.00	-4,581.80	475.40	TD at 14804.81



MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Eddy Co., NM (NAD 83)

Sliver Bullet Pad

Silver Bullet 16 W1DM State #2H

OH

Plan #1

Anticollision Report

05 November, 2020





Altitude Energy Partners

Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Silver Bullet 16 W1DM State #2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	KB=28' @ 2969.00usft
Reference Site:	Silver Bullet Pad	MD Reference:	KB=28' @ 2969.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Silver Bullet 16 W1DM State #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	11/5/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	14,804.81	Plan #1 (OH)	MWD + HDGM	MWD + HDGM - 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						
Sliver Bullet Pad						
Silver Bullet 16 W1CN State #3H - OH - Plan #1	9,638.96	9,610.92	659.67	591.09	9.620	CC
Silver Bullet 16 W1CN State #3H - OH - Plan #1	14,804.81	14,540.34	706.33	561.45	4.875	ES, SF
Silver Bullet 16 W1CN State #4H - OH - Plan #1						Out of range
Silver Bullet 16 W1DM State #1H - OH - Plan #1	650.00	651.00	30.00	25.80	7.135	CC
Silver Bullet 16 W1DM State #1H - OH - Plan #1	700.00	701.00	30.31	25.75	6.647	ES
Silver Bullet 16 W1DM State #1H - OH - Plan #1	14,804.81	14,449.26	715.57	575.26	5.100	SF

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					Rule Assigned:				Offset Well Error:	0.00 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				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	Warning	
7,100.00	7,081.60	7,143.87	7,131.31	25.95	25.57	19.27	167.25	1,442.76	989.91	939.45	50.46	19.617		
7,200.00	7,181.31	7,242.82	7,229.95	26.32	25.94	19.24	170.28	1,435.57	975.47	924.29	51.18	19.060		
7,300.00	7,281.02	7,341.77	7,328.59	26.70	26.30	19.20	173.31	1,428.39	961.02	909.13	51.90	18.518		
7,400.00	7,380.72	7,440.72	7,427.23	27.07	26.67	19.17	176.33	1,421.21	946.58	893.97	52.61	17.991		
7,500.00	7,480.43	7,539.67	7,525.88	27.44	27.03	19.13	179.36	1,414.03	932.14	878.81	53.33	17.478		
7,600.00	7,580.13	7,638.62	7,624.52	27.81	27.40	19.09	182.39	1,406.84	917.69	863.64	54.05	16.979		
7,700.00	7,679.84	7,737.57	7,723.16	28.19	27.76	19.05	185.42	1,399.66	903.25	848.48	54.77	16.492		
7,800.00	7,779.55	7,836.52	7,821.80	28.56	28.13	19.01	188.44	1,392.48	888.81	833.32	55.49	16.019		
7,900.00	7,879.25	7,935.47	7,920.44	28.93	28.50	18.97	191.47	1,385.29	874.37	818.17	56.20	15.557		
8,000.00	7,978.96	8,034.42	8,019.09	29.30	28.86	18.93	194.50	1,378.11	859.93	803.01	56.92	15.107		
8,100.00	8,078.66	8,133.37	8,117.73	29.68	29.23	18.89	197.53	1,370.93	845.49	787.85	57.64	14.668		
8,200.00	8,178.37	8,232.32	8,216.37	30.05	29.60	18.84	200.56	1,363.75	831.05	772.69	58.36	14.241		
8,300.00	8,278.08	8,331.27	8,315.01	30.42	29.96	18.79	203.58	1,356.56	816.61	757.53	59.08	13.823		
8,400.00	8,377.78	8,430.22	8,413.66	30.79	30.33	18.74	206.61	1,349.38	802.17	742.37	59.79	13.415		
8,500.00	8,477.49	8,529.17	8,512.30	31.16	30.70	18.69	209.64	1,342.20	787.73	727.22	60.51	13.017		
8,600.00	8,577.19	8,628.12	8,610.94	31.54	31.06	18.64	212.67	1,335.01	773.29	712.06	61.23	12.629		
8,700.00	8,676.90	8,727.07	8,709.58	31.91	31.43	18.58	215.69	1,327.83	758.86	696.90	61.95	12.249		
8,800.00	8,776.60	8,826.02	8,808.22	32.28	31.80	18.53	218.72	1,320.65	744.42	681.75	62.67	11.878		
8,900.00	8,876.31	8,924.97	8,906.87	32.65	32.17	18.47	221.75	1,313.47	729.98	666.59	63.39	11.516		
9,000.00	8,976.02	9,023.92	9,005.51	33.03	32.53	18.41	224.78	1,306.28	715.55	651.44	64.11	11.162		
9,100.00	9,075.72	9,117.97	9,099.28	33.40	32.88	18.35	227.61	1,299.56	701.23	636.40	64.84	10.816		

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



Altitude Energy Partners

Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Silver Bullet 16 W1DM State #2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	KB=28' @ 2969.00usft
Reference Site:	Silver Bullet Pad	MD Reference:	KB=28' @ 2969.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Silver Bullet 16 W1DM State #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		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	
9,200.00	9,175.43	9,200.00	9,181.16	33.77	33.18	18.34	229.54	1,294.99	688.51	622.94	65.57	10.501	
9,300.00	9,275.13	9,288.49	9,269.58	34.14	33.50	18.41	230.85	1,291.88	677.79	611.51	66.28	10.226	
9,377.40	9,352.31	9,354.87	9,335.95	34.43	33.73	18.50	231.31	1,290.79	670.90	604.08	66.82	10.041	
9,400.00	9,374.84	9,374.28	9,355.36	34.52	33.80	18.53	231.36	1,290.67	669.18	602.21	66.97	9.992	
9,500.00	9,474.68	9,475.63	9,456.39	34.88	34.13	19.21	224.98	1,290.43	663.42	595.76	67.66	9.805	
9,600.00	9,574.62	9,574.84	9,552.73	35.24	34.43	21.30	201.82	1,289.68	660.02	591.69	68.33	9.660	
9,638.96	9,613.58	9,610.92	9,586.56	35.37	34.53	22.39	189.32	1,289.28	659.67	591.09	68.57	9.620 CC	
9,670.43	9,645.05	9,638.80	9,612.13	35.48	34.60	23.89	178.21	1,288.92	659.92	591.16	68.77	9.597	
9,700.00	9,674.61	9,664.25	9,634.97	35.58	34.66	-86.98	167.00	1,288.56	660.52	591.59	68.93	9.582	
9,750.00	9,724.36	9,706.33	9,671.58	35.73	34.76	-85.34	146.27	1,287.89	662.02	592.83	69.19	9.569	
9,800.00	9,773.52	9,750.00	9,707.85	35.88	34.86	-83.66	121.99	1,287.11	664.07	594.65	69.41	9.567	
9,850.00	9,821.69	9,787.47	9,737.42	36.02	34.93	-82.19	99.00	1,286.37	666.57	597.01	69.56	9.583	
9,900.00	9,868.53	9,826.76	9,766.74	36.16	35.01	-80.70	72.87	1,285.53	669.46	599.79	69.67	9.609	
9,950.00	9,913.66	9,865.34	9,793.73	36.28	35.07	-79.26	45.33	1,284.64	672.65	602.91	69.73	9.646	
10,000.00	9,956.74	9,900.00	9,816.34	36.39	35.13	-77.98	19.08	1,283.79	676.06	606.35	69.71	9.698	
10,050.00	9,997.46	9,940.67	9,840.79	36.49	35.18	-76.61	-13.40	1,282.74	679.57	609.86	69.71	9.748	
10,100.00	10,035.49	9,977.58	9,860.94	36.57	35.23	-75.41	-44.30	1,281.75	683.13	613.48	69.65	9.808	
10,150.00	10,070.55	10,014.06	9,878.85	36.65	35.28	-74.30	-76.06	1,280.72	686.66	617.10	69.56	9.871	
10,200.00	10,102.38	10,050.00	9,894.48	36.71	35.34	-73.28	-108.39	1,279.68	690.07	620.61	69.46	9.935	
10,250.00	10,130.72	10,085.97	9,908.07	36.77	35.40	-72.36	-141.68	1,278.61	693.31	623.94	69.36	9.995	
10,300.00	10,155.36	10,121.50	9,919.42	36.83	35.47	-71.55	-175.32	1,277.52	696.29	627.01	69.28	10.051	
10,350.00	10,176.13	10,150.00	9,927.00	36.89	35.53	-70.92	-202.78	1,276.64	699.02	629.86	69.16	10.107	
10,400.00	10,192.85	10,191.88	9,935.63	36.95	35.63	-70.25	-243.73	1,275.32	701.31	632.12	69.19	10.136	
10,450.00	10,205.40	10,226.83	9,940.53	37.03	35.72	-69.76	-278.30	1,274.20	703.25	634.05	69.21	10.162	
10,500.00	10,213.68	10,261.65	9,943.31	37.13	35.81	-69.39	-312.99	1,273.08	704.77	635.50	69.27	10.174	
10,550.00	10,217.64	10,298.01	9,943.98	37.23	35.90	-69.13	-349.33	1,271.91	705.84	636.44	69.40	10.171	
10,573.14	10,218.00	10,321.15	9,943.87	37.29	35.97	-69.08	-372.45	1,271.17	706.01	636.51	69.50	10.159	
10,600.00	10,217.87	10,348.01	9,943.74	37.35	36.05	-69.08	-399.29	1,270.30	706.01	636.38	69.63	10.139	
10,700.00	10,217.40	10,448.01	9,943.27	37.63	36.37	-69.08	-499.24	1,267.08	706.01	635.83	70.18	10.060	
10,800.00	10,216.93	10,548.01	9,942.80	37.96	36.74	-69.08	-599.19	1,263.86	706.02	635.18	70.84	9.967	
10,900.00	10,216.46	10,648.01	9,942.33	38.33	37.16	-69.08	-699.14	1,260.63	706.02	634.43	71.59	9.862	
11,000.00	10,215.98	10,748.01	9,941.86	38.76	37.63	-69.08	-799.08	1,257.41	706.03	633.59	72.44	9.747	
11,100.00	10,215.51	10,848.01	9,941.39	39.23	38.15	-69.08	-899.03	1,254.19	706.03	632.66	73.38	9.622	
11,200.00	10,215.04	10,948.01	9,940.92	39.74	38.71	-69.08	-998.98	1,250.97	706.04	631.63	74.40	9.489	
11,300.00	10,214.57	11,048.01	9,940.44	40.30	39.31	-69.08	-1,098.92	1,247.74	706.04	630.52	75.52	9.349	
11,400.00	10,214.09	11,148.01	9,939.97	40.89	39.96	-69.08	-1,198.87	1,244.52	706.05	629.33	76.71	9.204	
11,500.00	10,213.62	11,248.01	9,939.50	41.53	40.64	-69.08	-1,298.82	1,241.30	706.05	628.06	77.99	9.053	
11,600.00	10,213.15	11,348.01	9,939.03	42.21	41.37	-69.08	-1,398.76	1,238.08	706.06	626.72	79.34	8.900	
11,700.00	10,212.68	11,448.01	9,938.56	42.92	42.13	-69.08	-1,498.71	1,234.85	706.06	625.31	80.75	8.743	
11,800.00	10,212.20	11,548.01	9,938.09	43.67	42.92	-69.08	-1,598.66	1,231.63	706.07	623.83	82.24	8.586	
11,900.00	10,211.73	11,648.01	9,937.62	44.45	43.75	-69.08	-1,698.61	1,228.41	706.07	622.28	83.79	8.427	
12,000.00	10,211.26	11,748.01	9,937.15	45.27	44.60	-69.08	-1,798.55	1,225.19	706.08	620.68	85.39	8.268	
12,100.00	10,210.78	11,848.01	9,936.68	46.11	45.49	-69.08	-1,898.50	1,221.96	706.08	619.02	87.06	8.110	
12,200.00	10,210.31	11,948.01	9,936.21	46.98	46.40	-69.08	-1,998.45	1,218.74	706.09	617.31	88.78	7.954	
12,300.00	10,209.84	12,048.01	9,935.74	47.88	47.34	-69.08	-2,098.39	1,215.52	706.09	615.55	90.54	7.798	
12,400.00	10,209.37	12,148.01	9,935.27	48.80	48.30	-69.08	-2,198.34	1,212.30	706.10	613.74	92.36	7.645	
12,500.00	10,208.89	12,248.01	9,934.79	49.75	49.29	-69.08	-2,298.29	1,209.07	706.10	611.88	94.22	7.494	
12,600.00	10,208.42	12,348.01	9,934.32	50.72	50.29	-69.08	-2,398.23	1,205.85	706.11	609.99	96.12	7.346	
12,700.00	10,207.95	12,448.01	9,933.85	51.71	51.32	-69.08	-2,498.18	1,202.63	706.11	608.05	98.06	7.201	
12,800.00	10,207.48	12,548.01	9,933.38	52.72	52.37	-69.08	-2,598.13	1,199.40	706.12	606.08	100.04	7.059	
12,900.00	10,207.00	12,648.01	9,932.91	53.75	53.43	-69.08	-2,698.07	1,196.18	706.12	604.07	102.05	6.919	
13,000.00	10,206.53	12,748.01	9,932.44	54.80	54.51	-69.08	-2,798.02	1,192.96	706.13	602.03	104.10	6.783	

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



Altitude Energy Partners

Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Silver Bullet 16 W1DM State #2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	KB=28' @ 2969.00usft
Reference Site:	Silver Bullet Pad	MD Reference:	KB=28' @ 2969.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Silver Bullet 16 W1DM State #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Sliver 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		Highside Toolface (°)	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)			
13,100.00	10,206.06	12,848.01	9,931.97	55.87	55.61	-69.08	-2,897.97	1,189.74	706.13	599.96	106.17	6.651	
13,200.00	10,205.59	12,948.01	9,931.50	56.95	56.72	-69.08	-2,997.92	1,186.51	706.14	597.86	108.28	6.521	
13,300.00	10,205.11	13,048.01	9,931.03	58.05	57.85	-69.08	-3,097.86	1,183.29	706.14	595.73	110.41	6.395	
13,400.00	10,204.64	13,148.01	9,930.56	59.16	58.98	-69.08	-3,197.81	1,180.07	706.15	593.57	112.57	6.273	
13,500.00	10,204.17	13,248.01	9,930.09	60.29	60.14	-69.08	-3,297.76	1,176.85	706.15	591.39	114.76	6.153	
13,600.00	10,203.69	13,348.01	9,929.61	61.42	61.30	-69.09	-3,397.70	1,173.62	706.16	589.19	116.97	6.037	
13,700.00	10,203.22	13,448.01	9,929.14	62.57	62.47	-69.09	-3,497.65	1,170.40	706.16	586.96	119.20	5.924	
13,800.00	10,202.75	13,548.01	9,928.67	63.74	63.66	-69.09	-3,597.60	1,167.18	706.17	584.72	121.45	5.815	
13,900.00	10,202.28	13,648.01	9,928.20	64.91	64.86	-69.09	-3,697.54	1,163.96	706.17	582.45	123.72	5.708	
14,000.00	10,201.80	13,748.01	9,927.73	66.09	66.06	-69.09	-3,797.49	1,160.73	706.18	580.17	126.01	5.604	
14,100.00	10,201.33	13,848.01	9,927.26	67.28	67.27	-69.09	-3,897.44	1,157.51	706.18	577.87	128.32	5.503	
14,200.00	10,200.86	13,948.01	9,926.79	68.49	68.50	-69.09	-3,997.39	1,154.29	706.19	575.55	130.64	5.406	
14,300.00	10,200.39	14,048.01	9,926.32	69.70	69.73	-69.09	-4,097.33	1,151.07	706.19	573.21	132.98	5.311	
14,400.00	10,199.91	14,148.01	9,925.85	70.92	70.97	-69.09	-4,197.28	1,147.84	706.20	570.87	135.33	5.218	
14,500.00	10,199.44	14,248.01	9,925.38	72.14	72.21	-69.09	-4,297.23	1,144.62	706.20	568.50	137.70	5.129	
14,600.00	10,198.97	14,348.01	9,924.91	73.38	73.46	-69.09	-4,397.17	1,141.40	706.21	566.13	140.08	5.041	
14,700.00	10,198.50	14,448.01	9,924.43	74.62	74.72	-69.09	-4,497.12	1,138.18	706.21	563.74	142.47	4.957	
14,706.75	10,198.46	14,454.76	9,924.40	74.70	74.81	-69.09	-4,503.86	1,137.96	706.21	563.57	142.64	4.951	
14,804.81	10,198.00	14,540.34	9,924.00	75.93	75.89	-69.09	-4,589.40	1,135.20	706.33	561.45	144.88	4.875 ES, SF	



Altitude Energy Partners

Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Silver Bullet 16 W1DM State #2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	KB=28' @ 2969.00usft
Reference Site:	Silver Bullet Pad	MD Reference:	KB=28' @ 2969.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Silver Bullet 16 W1DM State #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Silver Bullet Pad - Silver Bullet 16 W1DM State #1H - 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		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	
0.00	0.00	1.00	1.00	0.00	0.00	-90.76	-0.40	-30.00	30.00				
100.00	100.00	101.00	101.00	0.13	0.13	-90.76	-0.40	-30.00	30.00	29.74	0.26	114.652	
200.00	200.00	201.00	201.00	0.49	0.49	-90.76	-0.40	-30.00	30.00	29.02	0.98	30.658	
300.00	300.00	301.00	301.00	0.85	0.85	-90.76	-0.40	-30.00	30.00	28.31	1.70	17.695	
400.00	400.00	401.00	401.00	1.20	1.21	-90.76	-0.40	-30.00	30.00	27.59	2.41	12.436	
500.00	500.00	501.00	501.00	1.56	1.57	-90.76	-0.40	-30.00	30.00	26.87	3.13	9.587	
600.00	600.00	601.00	601.00	1.92	1.92	-90.76	-0.40	-30.00	30.00	26.16	3.85	7.800	
650.00	650.00	651.00	651.00	2.10	2.10	-90.76	-0.40	-30.00	30.00	25.80	4.20	7.135 CC	
700.00	700.00	701.00	701.00	2.28	2.28	-161.49	-0.40	-30.00	30.31	25.75	4.56	6.647 ES	
800.00	799.96	800.96	800.96	2.63	2.64	-162.93	-0.40	-30.00	32.81	27.54	5.27	6.227	
900.00	899.82	900.82	900.82	2.98	3.00	-165.24	-0.40	-30.00	37.84	31.86	5.98	6.329	
943.03	942.74	943.74	943.74	3.13	3.15	-166.32	-0.40	-30.00	40.80	34.52	6.29	6.491	
1,000.00	999.55	1,000.55	1,000.55	3.34	3.36	-167.63	-0.40	-30.00	45.06	38.37	6.69	6.735	
1,100.00	1,099.25	1,100.25	1,100.25	3.70	3.71	-169.42	-0.40	-30.00	52.57	45.17	7.40	7.103	
1,200.00	1,198.96	1,199.96	1,199.96	4.06	4.07	-170.76	-0.40	-30.00	60.12	52.01	8.11	7.410	
1,300.00	1,298.66	1,299.66	1,299.66	4.42	4.43	-171.80	-0.40	-30.00	67.70	58.87	8.83	7.670	
1,400.00	1,398.37	1,399.37	1,399.37	4.79	4.79	-172.63	-0.40	-30.00	75.29	65.75	9.54	7.891	
1,500.00	1,498.07	1,499.07	1,499.07	5.16	5.14	-173.31	-0.40	-30.00	82.90	72.64	10.26	8.083	
1,600.00	1,597.78	1,598.78	1,598.78	5.52	5.50	-173.88	-0.40	-30.00	90.51	79.54	10.97	8.250	
1,700.00	1,697.49	1,698.49	1,698.49	5.89	5.86	-174.36	-0.40	-30.00	98.14	86.45	11.69	8.397	
1,800.00	1,797.19	1,798.19	1,798.19	6.26	6.22	-174.76	-0.40	-30.00	105.77	93.36	12.40	8.528	
1,900.00	1,896.90	1,897.90	1,897.90	6.63	6.57	-175.12	-0.40	-30.00	113.40	100.28	13.12	8.644	
2,000.00	1,996.60	1,997.60	1,997.60	7.00	6.93	-175.43	-0.40	-30.00	121.04	107.20	13.84	8.748	
2,100.00	2,096.31	2,097.31	2,097.31	7.37	7.29	-175.70	-0.40	-30.00	128.68	114.13	14.55	8.842	
2,200.00	2,196.02	2,197.02	2,197.02	7.74	7.65	-175.94	-0.40	-30.00	136.33	121.05	15.27	8.927	
2,300.00	2,295.72	2,296.72	2,296.72	8.11	8.00	-176.16	-0.40	-30.00	143.97	127.98	15.99	9.005	
2,400.00	2,395.43	2,396.43	2,396.43	8.48	8.36	-176.35	-0.40	-30.00	151.62	134.91	16.71	9.076	
2,500.00	2,495.13	2,496.13	2,496.13	8.85	8.72	-176.53	-0.40	-30.00	159.27	141.84	17.42	9.141	
2,600.00	2,594.84	2,595.84	2,595.84	9.22	9.08	-176.68	-0.40	-30.00	166.92	148.78	18.14	9.201	
2,700.00	2,694.55	2,695.55	2,695.55	9.59	9.43	-176.83	-0.40	-30.00	174.57	155.71	18.86	9.257	
2,800.00	2,794.25	2,795.25	2,795.25	9.96	9.79	-176.96	-0.40	-30.00	182.22	162.65	19.58	9.308	
2,900.00	2,893.96	2,894.96	2,894.96	10.33	10.15	-177.09	-0.40	-30.00	189.88	169.58	20.29	9.356	
3,000.00	2,993.66	2,994.66	2,994.66	10.70	10.51	-176.86	0.81	-30.00	197.19	176.17	21.02	9.381	
3,100.00	3,093.37	3,094.37	3,094.37	11.07	10.87	-176.10	4.06	-29.99	203.94	182.20	21.74	9.381	
3,200.00	3,193.07	3,194.07	3,194.07	11.44	11.23	-175.36	7.44	-29.98	210.69	188.23	22.46	9.382	
3,300.00	3,292.78	3,293.78	3,293.78	11.82	11.58	-174.66	10.82	-29.97	217.46	194.29	23.17	9.384	
3,400.00	3,392.49	3,393.49	3,393.49	12.19	11.94	-174.00	14.21	-29.96	224.27	200.38	23.89	9.387	
3,500.00	3,492.19	3,493.19	3,493.19	12.56	12.30	-173.38	17.59	-29.95	231.11	206.50	24.61	9.391	
3,600.00	3,591.90	3,592.90	3,592.90	12.93	12.66	-172.80	20.97	-29.94	237.97	212.65	25.33	9.395	
3,700.00	3,691.60	3,692.60	3,692.60	13.30	13.01	-172.25	24.35	-29.93	244.86	218.81	26.05	9.401	
3,800.00	3,791.31	3,792.31	3,792.31	13.67	13.37	-171.73	27.73	-29.92	251.77	225.00	26.77	9.406	
3,900.00	3,891.02	3,892.02	3,892.02	14.05	13.73	-171.24	31.12	-29.91	258.69	231.21	27.48	9.412	
4,000.00	3,990.72	3,991.72	3,991.72	14.42	14.09	-170.77	34.50	-29.91	265.64	237.43	28.20	9.419	
4,100.00	4,090.43	4,091.43	4,091.43	14.79	14.44	-170.33	37.88	-29.90	272.60	243.68	28.92	9.425	
4,200.00	4,190.13	4,191.13	4,191.13	15.16	14.80	-169.91	41.26	-29.89	279.58	249.93	29.64	9.432	
4,300.00	4,289.84	4,290.84	4,290.84	15.53	15.16	-169.51	44.64	-29.88	286.57	256.21	30.36	9.439	
4,400.00	4,389.55	4,390.55	4,390.55	15.90	15.52	-169.13	48.03	-29.87	293.57	262.49	31.08	9.445	
4,500.00	4,489.25	4,490.25	4,490.25	16.28	15.88	-168.76	51.41	-29.86	300.59	268.79	31.80	9.452	
4,600.00	4,588.96	4,589.96	4,589.96	16.65	16.23	-168.42	54.79	-29.85	307.61	275.09	32.52	9.459	
4,700.00	4,688.66	4,689.66	4,689.66	17.02	16.59	-168.09	58.17	-29.84	314.65	281.41	33.24	9.466	
4,800.00	4,788.37	4,789.37	4,789.37	17.39	16.95	-167.77	61.56	-29.83	321.70	287.74	33.96	9.473	
4,900.00	4,888.07	4,889.07	4,889.07	17.76	17.31	-167.47	64.94	-29.82	328.76	294.08	34.68	9.480	

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



Altitude Energy Partners

Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Silver Bullet 16 W1DM State #2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	KB=28' @ 2969.00usft
Reference Site:	Silver Bullet Pad	MD Reference:	KB=28' @ 2969.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Silver Bullet 16 W1DM State #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Silver Bullet Pad - Silver Bullet 16 W1DM State #1H - 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				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	
5,000.00	4,987.78	4,991.29	4,990.14	18.14	17.66	-167.18	68.32	-29.81	335.83	300.43	35.40	9.487	
5,100.00	5,087.49	5,091.03	5,089.82	18.51	18.02	-166.90	71.70	-29.80	342.90	306.78	36.12	9.493	
5,200.00	5,187.19	5,190.76	5,189.49	18.88	18.38	-166.63	75.08	-29.79	349.98	313.14	36.84	9.500	
5,300.00	5,286.90	5,290.50	5,289.17	19.25	18.74	-166.37	78.47	-29.79	357.07	319.51	37.56	9.506	
5,400.00	5,386.60	5,390.23	5,388.85	19.63	19.10	-166.13	81.85	-29.78	364.17	325.89	38.28	9.513	
5,500.00	5,486.31	5,489.97	5,488.53	20.00	19.46	-165.89	85.23	-29.77	371.27	332.27	39.00	9.519	
5,600.00	5,586.02	5,589.71	5,588.21	20.37	19.81	-165.66	88.61	-29.76	378.38	338.66	39.72	9.526	
5,700.00	5,685.72	5,689.44	5,687.89	20.74	20.17	-165.44	91.99	-29.75	385.50	345.05	40.44	9.532	
5,800.00	5,785.43	5,789.18	5,787.57	21.11	20.53	-165.23	95.38	-29.74	392.62	351.45	41.16	9.538	
5,900.00	5,885.13	5,888.91	5,887.24	21.49	20.89	-165.03	98.76	-29.73	399.74	357.86	41.88	9.544	
6,000.00	5,984.84	5,988.65	5,986.92	21.86	21.25	-164.83	102.14	-29.72	406.87	364.27	42.61	9.550	
6,100.00	6,084.55	6,088.38	6,086.60	22.23	21.61	-164.64	105.52	-29.71	414.01	370.68	43.33	9.556	
6,200.00	6,184.25	6,188.12	6,186.28	22.60	21.97	-164.46	108.90	-29.70	421.15	377.10	44.05	9.561	
6,300.00	6,283.96	6,287.86	6,285.96	22.97	22.32	-164.28	112.29	-29.69	428.29	383.52	44.77	9.567	
6,400.00	6,383.66	6,387.59	6,385.64	23.35	22.68	-164.11	115.67	-29.68	435.44	389.95	45.49	9.572	
6,500.00	6,483.37	6,487.33	6,485.31	23.72	23.04	-163.94	119.05	-29.67	442.59	396.38	46.21	9.578	
6,600.00	6,583.07	6,587.06	6,584.99	24.09	23.40	-163.78	122.43	-29.67	449.75	402.82	46.93	9.583	
6,700.00	6,682.78	6,686.80	6,684.67	24.46	23.76	-163.62	125.81	-29.66	456.91	409.25	47.65	9.588	
6,800.00	6,782.49	6,786.54	6,784.35	24.84	24.12	-163.47	129.20	-29.65	464.07	415.69	48.37	9.593	
6,900.00	6,882.19	6,886.27	6,884.03	25.21	24.48	-163.32	132.58	-29.64	471.23	422.14	49.10	9.598	
7,000.00	6,981.90	6,986.01	6,983.71	25.58	24.84	-163.18	135.96	-29.63	478.40	428.58	49.82	9.603	
7,100.00	7,081.60	7,085.74	7,083.39	25.95	25.19	-163.04	139.34	-29.62	485.57	435.03	50.54	9.608	
7,200.00	7,181.31	7,185.48	7,183.06	26.32	25.55	-162.91	142.72	-29.61	492.74	441.48	51.26	9.613	
7,300.00	7,281.02	7,285.22	7,282.74	26.70	25.91	-162.78	146.11	-29.60	499.92	447.94	51.98	9.617	
7,400.00	7,380.72	7,384.95	7,382.42	27.07	26.27	-162.65	149.49	-29.59	507.10	454.40	52.70	9.622	
7,500.00	7,480.43	7,484.69	7,482.10	27.44	26.63	-162.53	152.87	-29.58	514.28	460.86	53.42	9.626	
7,600.00	7,580.13	7,584.42	7,581.78	27.81	26.99	-162.41	156.25	-29.57	521.46	467.32	54.15	9.631	
7,700.00	7,679.84	7,684.16	7,681.46	28.19	27.35	-162.29	159.63	-29.56	528.65	473.78	54.87	9.635	
7,800.00	7,779.55	7,783.89	7,781.14	28.56	27.71	-162.18	163.02	-29.56	535.84	480.25	55.59	9.639	
7,900.00	7,879.25	7,883.63	7,880.81	28.93	28.07	-162.07	166.40	-29.55	543.03	486.72	56.31	9.643	
8,000.00	7,978.96	7,983.37	7,980.49	29.30	28.42	-161.96	169.78	-29.54	550.22	493.19	57.03	9.648	
8,100.00	8,078.66	8,083.10	8,080.17	29.68	28.78	-161.86	173.16	-29.53	557.41	499.66	57.75	9.652	
8,200.00	8,178.37	8,182.84	8,179.85	30.05	29.14	-161.76	176.54	-29.52	564.61	506.13	58.48	9.655	
8,300.00	8,278.08	8,282.57	8,279.53	30.42	29.50	-161.66	179.93	-29.51	571.80	512.61	59.20	9.659	
8,400.00	8,377.78	8,382.31	8,379.21	30.79	29.86	-161.56	183.31	-29.50	579.00	519.08	59.92	9.663	
8,500.00	8,477.49	8,482.05	8,478.88	31.16	30.22	-161.47	186.69	-29.49	586.20	525.56	60.64	9.667	
8,600.00	8,577.19	8,581.78	8,578.56	31.54	30.58	-161.37	190.07	-29.48	593.40	532.04	61.36	9.671	
8,700.00	8,676.90	8,681.52	8,678.24	31.91	30.94	-161.28	193.45	-29.47	600.61	538.52	62.08	9.674	
8,800.00	8,776.60	8,781.25	8,777.92	32.28	31.30	-161.20	196.84	-29.46	607.81	545.00	62.81	9.678	
8,900.00	8,876.31	8,880.99	8,877.60	32.65	31.66	-161.11	200.22	-29.45	615.02	551.49	63.53	9.681	
9,000.00	8,976.02	8,980.72	8,977.28	33.03	32.02	-161.03	203.60	-29.44	622.22	557.97	64.25	9.684	
9,100.00	9,075.72	9,080.46	9,076.96	33.40	32.37	-160.95	206.98	-29.44	629.43	564.46	64.97	9.688	
9,200.00	9,175.43	9,180.20	9,176.63	33.77	32.73	-160.87	210.36	-29.43	636.64	570.95	65.69	9.691	
9,300.00	9,275.13	9,279.88	9,276.26	34.14	33.09	-160.81	213.54	-29.42	643.86	577.44	66.41	9.694	
9,377.40	9,352.31	9,356.95	9,353.33	34.43	33.37	-160.89	214.57	-29.41	649.45	582.48	66.97	9.698	
9,400.00	9,374.84	9,379.38	9,375.76	34.52	33.45	-160.95	214.51	-29.41	651.03	583.90	67.13	9.698	
9,500.00	9,474.68	9,479.69	9,475.45	34.88	33.75	-162.00	204.63	-29.41	656.67	588.89	67.78	9.689	
9,600.00	9,574.62	9,579.98	9,575.42	35.24	34.01	-164.17	180.62	-29.41	660.93	592.59	68.34	9.671	
9,670.43	9,645.05	9,649.85	9,645.67	35.48	34.17	-95.64	157.84	-29.41	663.97	595.33	68.65	9.672	
9,700.00	9,674.61	9,679.00	9,675.33	35.58	34.23	81.51	147.37	-29.41	665.45	596.71	68.74	9.680	
9,750.00	9,724.36	9,729.31	9,725.36	35.73	34.32	79.84	127.72	-29.41	668.27	599.40	68.87	9.703	
9,800.00	9,773.52	9,778.47	9,774.05	35.88	34.42	78.24	106.46	-29.41	671.42	602.48	68.94	9.739	

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



Altitude Energy Partners

Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Silver Bullet 16 W1DM State #2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	KB=28' @ 2969.00usft
Reference Site:	Silver Bullet Pad	MD Reference:	KB=28' @ 2969.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Silver Bullet 16 W1DM State #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Silver Bullet Pad - Silver Bullet 16 W1DM State #1H - 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		Highside Toolface (°)	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)			
9,850.00	9,821.69	9,764.93	9,730.69	36.02	34.50	76.72	83.58	-29.41	674.79	605.83	68.96	9.785	
9,900.00	9,868.53	9,800.00	9,757.05	36.16	34.58	75.33	60.45	-29.41	678.30	609.39	68.91	9.844	
9,950.00	9,913.66	9,838.04	9,783.97	36.28	34.67	73.93	33.59	-29.41	681.83	612.98	68.85	9.904	
10,000.00	9,956.74	9,873.84	9,807.63	36.39	34.75	72.68	6.72	-29.41	685.31	616.59	68.72	9.973	
10,050.00	9,997.46	9,909.23	9,829.32	36.49	34.83	71.53	-21.23	-29.41	688.65	620.09	68.56	10.045	
10,100.00	10,035.49	9,950.00	9,852.12	36.57	34.91	70.36	-55.02	-29.41	691.80	623.35	68.45	10.106	
10,150.00	10,070.55	9,978.97	9,866.83	36.65	34.98	69.55	-79.98	-29.41	694.60	626.43	68.17	10.190	
10,200.00	10,102.38	10,013.42	9,882.65	36.71	35.05	68.73	-110.57	-29.41	697.07	629.11	67.96	10.257	
10,250.00	10,130.72	10,050.00	9,897.41	36.77	35.13	67.99	-144.04	-29.41	699.13	631.34	67.79	10.313	
10,300.00	10,155.36	10,081.67	9,908.44	36.83	35.20	67.44	-173.71	-29.41	700.72	633.14	67.59	10.368	
10,350.00	10,176.13	10,115.54	9,918.40	36.89	35.28	66.98	-206.08	-29.41	701.81	634.37	67.44	10.406	
10,400.00	10,192.85	10,150.00	9,926.56	36.95	35.36	66.63	-239.56	-29.41	702.37	635.02	67.35	10.429	
10,450.00	10,205.40	10,182.95	9,932.46	37.03	35.43	66.42	-271.97	-29.41	702.36	635.07	67.29	10.438	
10,500.00	10,213.68	10,216.55	9,936.55	37.13	35.51	66.33	-305.32	-29.41	701.78	634.48	67.30	10.427	
10,550.00	10,217.64	10,250.00	9,938.67	37.23	35.59	66.36	-338.70	-29.41	700.63	633.25	67.38	10.398	
10,573.14	10,218.00	10,265.65	9,938.99	37.29	35.62	66.41	-354.35	-29.41	699.89	632.46	67.44	10.378	
10,600.00	10,217.87	10,289.22	9,938.92	37.35	35.68	66.39	-377.91	-29.41	699.08	631.55	67.53	10.352	
10,700.00	10,217.40	10,389.17	9,938.45	37.63	35.95	66.28	-477.86	-29.41	696.12	628.15	67.97	10.242	
10,800.00	10,216.93	10,489.11	9,937.98	37.96	36.28	66.18	-577.80	-29.41	693.16	624.66	68.50	10.119	
10,900.00	10,216.46	10,589.06	9,937.51	38.33	36.66	66.07	-677.75	-29.41	690.21	621.07	69.14	9.983	
11,000.00	10,215.98	10,689.01	9,937.04	38.76	37.09	65.96	-777.70	-29.41	687.26	617.39	69.87	9.836	
11,100.00	10,215.51	10,788.96	9,936.57	39.23	37.58	65.85	-877.64	-29.41	684.31	613.61	70.70	9.679	
11,200.00	10,215.04	10,888.91	9,936.10	39.74	38.11	65.74	-977.59	-29.41	681.37	609.75	71.62	9.514	
11,300.00	10,214.57	10,988.85	9,935.63	40.30	38.69	65.63	-1,077.54	-29.41	678.42	605.81	72.62	9.342	
11,400.00	10,214.09	11,088.80	9,935.15	40.89	39.32	65.51	-1,177.48	-29.41	675.48	601.78	73.70	9.165	
11,500.00	10,213.62	11,188.75	9,934.68	41.53	39.99	65.40	-1,277.43	-29.41	672.55	597.68	74.86	8.983	
11,600.00	10,213.15	11,288.70	9,934.21	42.21	40.69	65.29	-1,377.38	-29.41	669.61	593.51	76.10	8.799	
11,700.00	10,212.68	11,388.64	9,933.74	42.92	41.44	65.17	-1,477.32	-29.41	666.68	589.27	77.41	8.612	
11,800.00	10,212.20	11,488.59	9,933.27	43.67	42.22	65.05	-1,577.27	-29.41	663.75	584.97	78.78	8.425	
11,900.00	10,211.73	11,588.54	9,932.80	44.45	43.04	64.93	-1,677.22	-29.41	660.82	580.61	80.22	8.238	
12,000.00	10,211.26	11,688.49	9,932.33	45.27	43.89	64.82	-1,777.17	-29.41	657.90	576.19	81.71	8.052	
12,100.00	10,210.78	11,788.44	9,931.86	46.11	44.77	64.70	-1,877.11	-29.41	654.98	571.72	83.26	7.867	
12,200.00	10,210.31	11,888.38	9,931.39	46.98	45.68	64.57	-1,977.06	-29.41	652.06	567.20	84.86	7.684	
12,300.00	10,209.84	11,988.33	9,930.92	47.88	46.62	64.45	-2,077.01	-29.41	649.14	562.63	86.51	7.504	
12,400.00	10,209.37	12,088.28	9,930.44	48.80	47.58	64.33	-2,176.95	-29.41	646.23	558.03	88.20	7.327	
12,500.00	10,208.89	12,184.93	9,929.99	49.75	48.53	64.21	-2,273.60	-29.51	643.41	553.51	89.90	7.157	
12,600.00	10,208.42	12,275.75	9,929.56	50.72	49.44	64.15	-2,364.41	-30.74	641.73	550.16	91.58	7.008	
12,667.81	10,208.10	12,337.35	9,929.27	51.39	50.07	64.13	-2,425.99	-32.40	641.40	548.66	92.74	6.916	
12,700.00	10,207.95	12,366.59	9,929.13	51.71	50.36	64.14	-2,455.21	-33.42	641.48	548.17	93.30	6.875	
12,800.00	10,207.48	12,457.42	9,928.70	52.72	51.30	64.18	-2,545.94	-37.53	642.65	547.57	95.08	6.759	
12,900.00	10,207.00	12,548.18	9,928.27	53.75	52.24	64.28	-2,636.54	-43.08	645.25	548.34	96.91	6.658	
13,000.00	10,206.53	12,645.93	9,927.80	54.80	53.27	64.43	-2,734.02	-50.15	648.87	549.95	98.92	6.560	
13,100.00	10,206.06	12,745.85	9,927.32	55.87	54.33	64.59	-2,833.68	-57.42	652.53	551.52	101.00	6.461	
13,200.00	10,205.59	12,845.77	9,926.85	56.95	55.41	64.74	-2,933.33	-64.69	656.19	553.07	103.12	6.364	
13,300.00	10,205.11	12,945.68	9,926.37	58.05	56.51	64.89	-3,032.98	-71.96	659.86	554.60	105.26	6.269	
13,400.00	10,204.64	13,045.60	9,925.89	59.16	57.62	65.03	-3,132.63	-79.23	663.53	556.10	107.44	6.176	
13,500.00	10,204.17	13,145.52	9,925.42	60.29	58.75	65.18	-3,232.28	-86.50	667.21	557.57	109.64	6.086	
13,600.00	10,203.69	13,245.44	9,924.94	61.42	59.88	65.33	-3,331.94	-93.77	670.89	559.03	111.86	5.997	
13,700.00	10,203.22	13,345.35	9,924.46	62.57	61.03	65.47	-3,431.59	-101.04	674.58	560.46	114.12	5.911	
13,800.00	10,202.75	13,445.27	9,923.99	63.74	62.19	65.61	-3,531.24	-108.31	678.27	561.88	116.39	5.827	
13,900.00	10,202.28	13,545.19	9,923.51	64.91	63.36	65.75	-3,630.89	-115.58	681.97	563.28	118.69	5.746	
14,000.00	10,201.80	13,645.11	9,923.03	66.09	64.55	65.89	-3,730.54	-122.85	685.66	564.66	121.01	5.666	

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



Altitude Energy Partners

Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Silver Bullet 16 W1DM State #2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	KB=28' @ 2969.00usft
Reference Site:	Silver Bullet Pad	MD Reference:	KB=28' @ 2969.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Silver Bullet 16 W1DM State #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Silver Bullet Pad - Silver Bullet 16 W1DM State #1H - 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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		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)	Separation Factor	
14,100.00	10,201.33	13,745.03	9,922.56	67.28	65.74	66.03	-3,830.20	-130.12	689.37	566.02	123.34	5.589	
14,200.00	10,200.86	13,844.94	9,922.08	68.49	66.94	66.16	-3,929.85	-137.39	693.07	567.37	125.70	5.514	
14,300.00	10,200.39	13,944.86	9,921.61	69.70	68.14	66.30	-4,029.50	-144.66	696.78	568.71	128.08	5.440	
14,400.00	10,199.91	14,044.78	9,921.13	70.92	69.36	66.43	-4,129.15	-151.93	700.50	570.03	130.47	5.369	
14,500.00	10,199.44	14,144.70	9,920.65	72.14	70.58	66.56	-4,228.80	-159.20	704.22	571.34	132.88	5.300	
14,600.00	10,198.97	14,244.62	9,920.18	73.38	71.82	66.69	-4,328.46	-166.47	707.94	572.64	135.30	5.232	
14,700.00	10,198.50	14,344.53	9,919.70	74.62	73.05	66.82	-4,428.11	-173.74	711.66	573.92	137.74	5.167	
14,804.81	10,198.00	14,449.26	9,919.20	75.93	74.36	66.95	-4,532.55	-181.35	715.57	575.26	140.31	5.100 SF	



Altitude Energy Partners

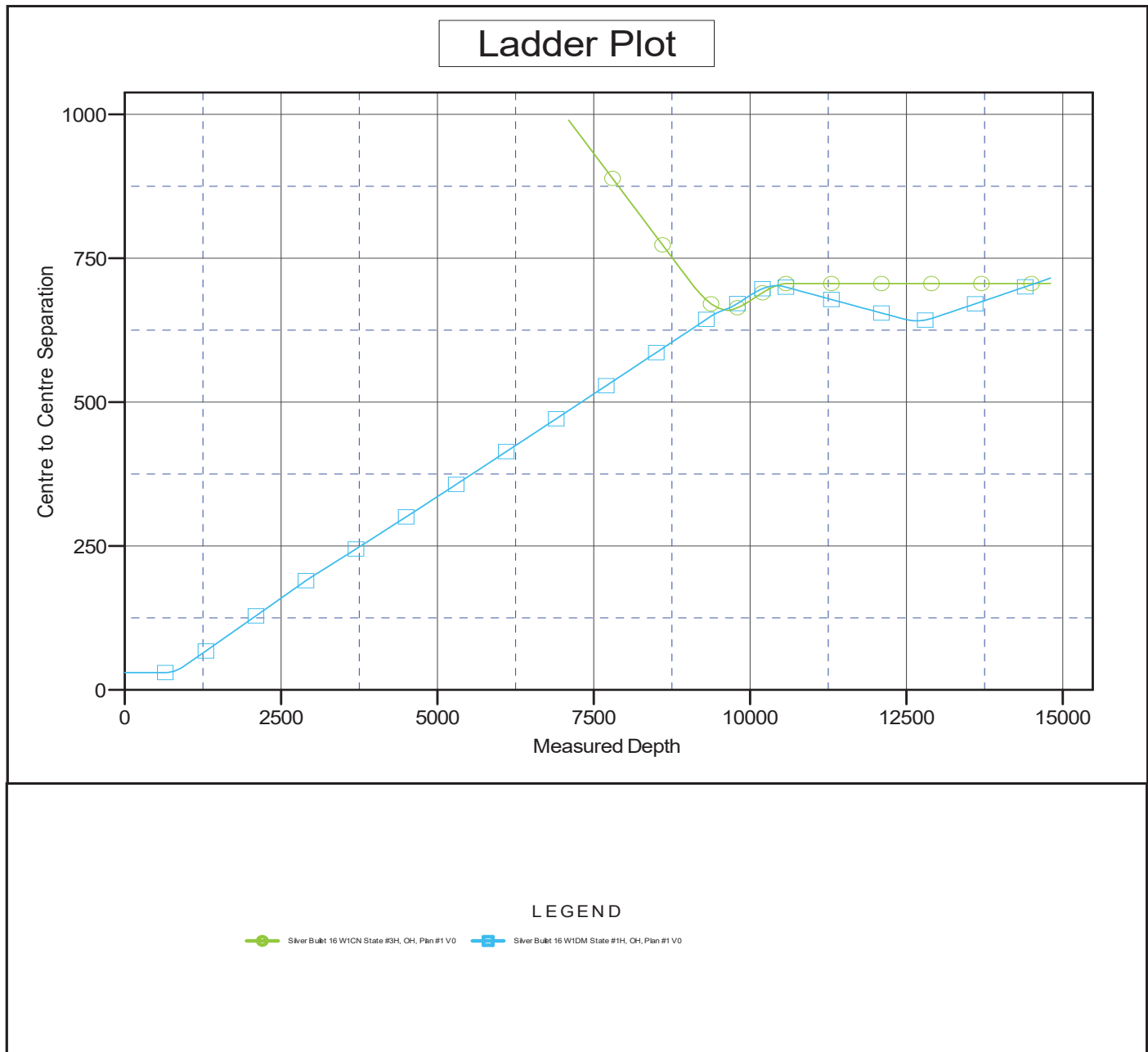
Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Silver Bullet 16 W1DM State #2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	KB=28' @ 2969.00usft
Reference Site:	Silver Bullet Pad	MD Reference:	KB=28' @ 2969.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Silver Bullet 16 W1DM State #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=28' @ 2969.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: Silver Bullet 16 W1DM State #2H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.18°





Altitude Energy Partners

Anticollision Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Silver Bullet 16 W1DM State #2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	KB=28' @ 2969.00usft
Reference Site:	Sliver Bullet Pad	MD Reference:	KB=28' @ 2969.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Silver Bullet 16 W1DM State #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=28' @ 2969.00usft

Offset Depths are relative to Offset Datum

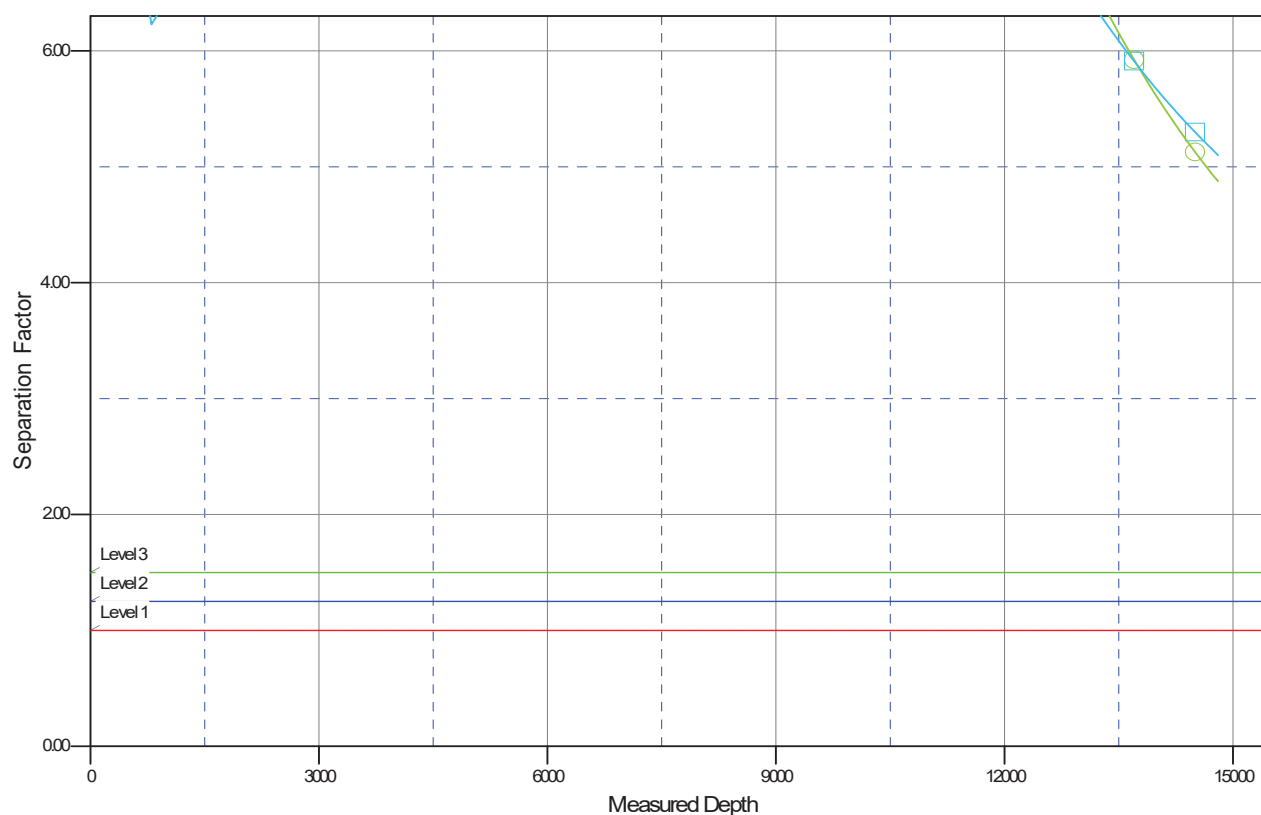
Central Meridian is -104.333334

Coordinates are relative to: Silver Bullet 16 W1DM State #2H

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

Grid Convergence at Surface is: 0.18°

Separation Factor Plot



LEGEND

Silver Bullet 16 W1CN State #3H, OH, Plan #1 V0
 Silver Bullet 16 W1DM State #1H, OH, Plan #1 V0