

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 356407

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

1. Operator Name and Address Silverback Operating II, LLC 19707 IH10 West, Suite 201 San Antonio, TX 78256		2. OGRID Number 330968
		3. API Number 30-015-54619
4. Property Code 335208	5. Property Name MATLOCK STATE COM	6. Well No. 101H

7. Surface Location

UL - Lot E	Section 3	Township 19S	Range 25E	Lot Idn	Feet From 1335	N/S Line N	Feet From 470	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot E	Section 4	Township 19S	Range 25E	Lot Idn E	Feet From 2246	N/S Line N	Feet From 100	E/W Line W	County Eddy
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9. Pool Information

PENASCO DRAW;SA-YESO (ASSOC)	50270
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3518
16. Multiple N	17. Proposed Depth 7914	18. Formation Yeso	19. Contractor	20. Spud Date 3/16/2024
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	500	277	0
Int1	12.25	9.625	36	1291	263	0
Prod	8.75	7	32	2900	118	0
Prod	8.75	5.5	20	7914	1587	1473

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Shaffer

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 Matthew Alley	Approved By: Ward Rikala	
Title: Chief Financial Officer	Title:	
Email Address: malley@silverbackexp.com	Approved Date: 1/19/2024	Expiration Date: 1/19/2026
Date: 12/22/2023	Phone: 303-513-0990	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 30-015 -54619		² Pool Code 50270	³ Pool Name Penasco Draw, SA-Yeso
⁴ Property Code 335208	⁵ Property Name MATLOCK STATE COM		⁶ Well Number 101H
⁷ OGRID No. 330968	⁸ Operator Name SILVERBACK OPERATING II, LLC		⁹ Elevation 3,518'

¹⁰ Surface Location

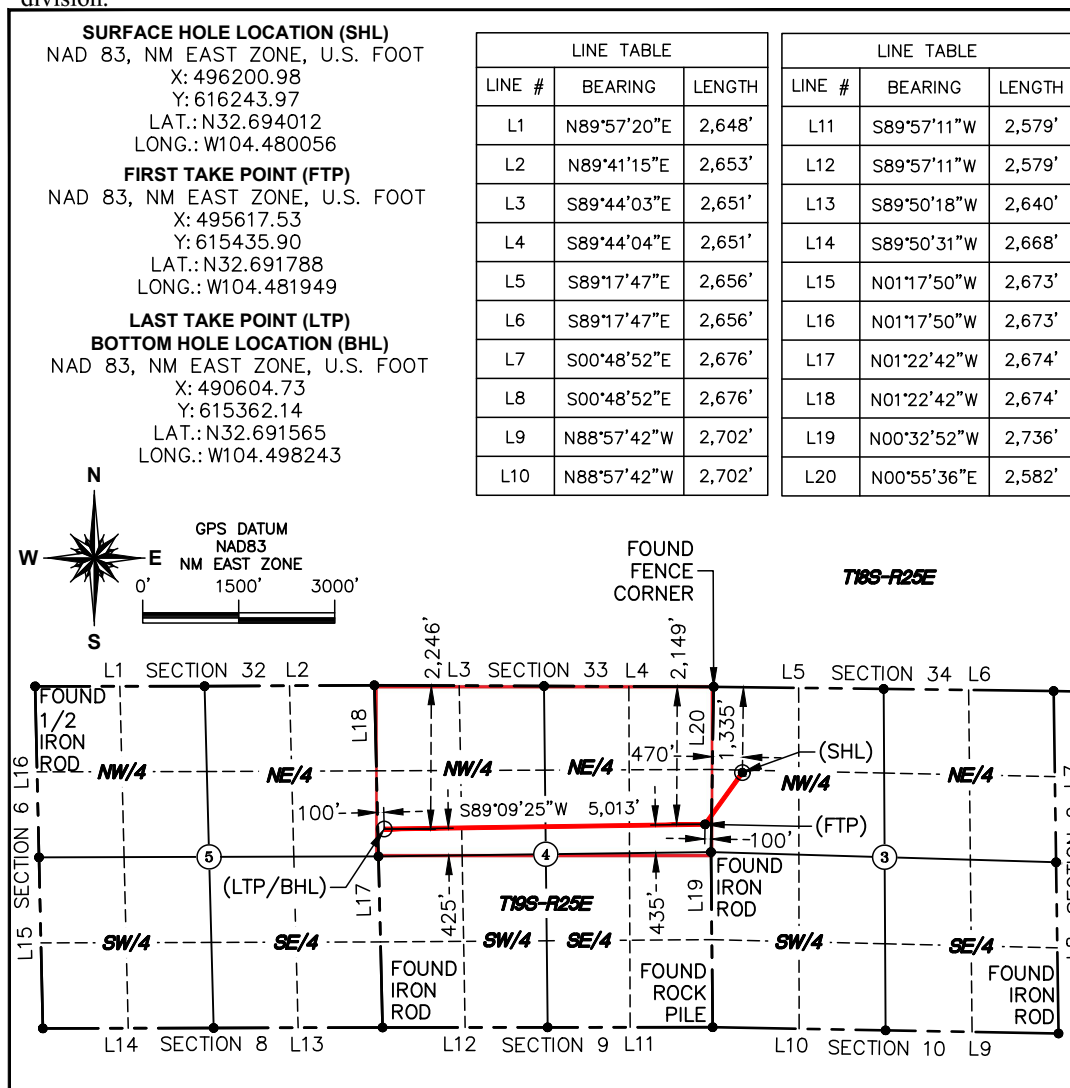
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	3	19-S	25-E		1,335'	NORTH	470'	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. E	Section 4	Township 19-S	Range 25-E	Lot Idn	Feet from the 2,246'	North/South line NORTH	Feet from the 100'	East/West line WEST	County EDDY
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¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
320			

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



¹⁷ OPERATOR CERTIFICATION

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

Fatma Abdallah 12/21/2023
Signature Date

Fatma Abdallah
Printed Name
fabdallah@silverbackexp.com
E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

12/08/23
Date of Survey
Signature and Seal of Professional Surveyor:

20450
Certificate Number

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

Form APD Conditions

Permit 356407

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Silverback Operating II, LLC [330968] 19707 IH10 West, Suite 201 San Antonio, TX 78256	API Number: 30-015-54619
	Well: MATLOCK STATE COM #101H

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: Silverback Operating II, LLC **OGRID:** 330968 **Date:** 12 / 19 / 23

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Matlock State Com 101H	30-015	E-3-19S-25E	1335 FNL & 470 FWL	515	440	3000
Matlock State Com 102H	30-015	E-3-19S-25E	1315 FNL & 470 FWL	515	440	3000
Matlock State Com 103H	30-015	E-3-19S-25E	1295 FNL & 470 FWL	515	440	3000

IV. Central Delivery Point Name: Morrison -Matlock CTB [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Matlock State Com 101H	30-015	3/16/2024	5/21/2024	06/16/2024	07/09/2024	07/09/2024
Matlock State Com 102H	30-015	3/21/2024	5/31/2024	06/16/2024	07/10/2024	07/10/2024
Matlock State Com 103H	30-015	3/26/2024	6/9/2024	06/16/2024	07/11/2024	07/11/2024

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF
Matlock State Com 101H	30-015	440	160600
Matlock State Com 102H	30-015	440	160600
Matlock State Com 103H	30-015	440	160600

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
Energy Transfer	Morrison/Matlock	D-10-19S-25E	07/09/2024	660

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:
Printed Name: Fatma Abdallah
Title: Regulatory Manager
E-mail Address: fabdallah@silverbackexp.com
Date: 12/22/2023
Phone: 210-585-3316
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Separation Equipment

Silverback Operating II (LLC) has sampled existing producing wells and performed laboratory testing to determine composition. Performance of existing producing wells was analyzed to predict expected production volumes. Production composition and the volumes were utilized as inputs to a process model which predicts relative amounts of gas, oil and water throughout the process. Equipment sizing is based on drop settlement and limits the amount of carry over between production phases.

Each well is brought to a manifold that will convey production to a bulk or a test separator. Gas from the separator is taken through a gas scrubber and onto the gas sales pipeline. Facility piping and pipeline were sized to allow peak volumes to flow with minimal pressure loss and deliver to midstream gatherer at an acceptable pressure. Water is conveyed directly to tankage.

Oil from 3 phase separators is comingled and conveyed to a heated separator for enhanced liquid-liquid separation and degassing. Vapors from the heater treater are routed to a Vapor Recovery Unit (VRU).

Oil and water storage tanks vapor outlets are common and utilize a closed vent vapor system to ensure all working & breathing and flashing losses are routed to the Vapor Recovery Unit (VRU). Site VRUs are sized to accommodate peak expected production volume. Gas from the VRU discharge is combined with 1st stage separation gas and sent to sales.

Venting and Flaring

Silverback Operating II, LLC will ensure pipeline connectivity before producing hydrocarbons and will operate a closed vent vapor capture system that is designed to capture all associated and evolved gas during normal operation. Venting or flaring will only occur during start up and shut down, maintenance activities or equipment failure or upset. Silverback may utilize the following from list A-I of Section 3 for its operations to minimize flaring:

- a) Power generation on lease – Natural gas driven gen set to produce power required to run supply well pad electrical loads
- b) Compression on lease – gas lift or gas compression as required
- c) Liquids removal on lease – gas pressure will be used to convey fluids as needed

Best Management Practices

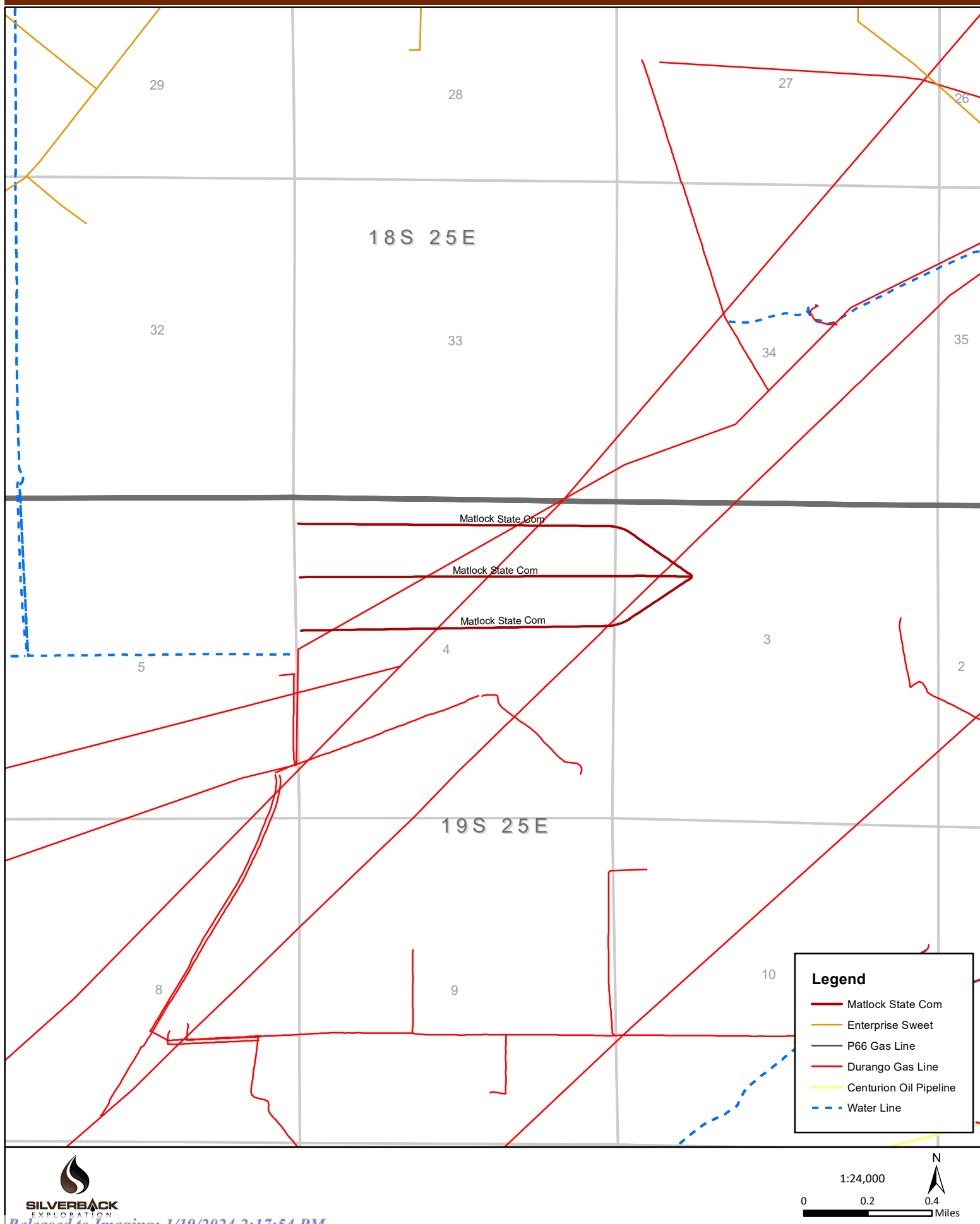
Silverback utilizes automate engineering controls included in facility design to minimize venting and flaring. Additionally, operational best practices support minimization of flare and venting as described below.

If the main gas outlet becomes unavailable and pressure increases on the outlet sales line, produced gas will be routed directly to the facility flare. The facility control system will alert personnel to the need for maintenance and appropriate response to the temporary flaring event.

The facility design includes a closed vent vapor capture system to route flash or evolved from the heater treater and tanks to the Vapor Recovery Unit (VRU) Compressor. If the VRU requires planned or unplanned maintenance, vapors will automatically be routed to the facility flare.

For maintenance activities, Silverback will utilize the facility flare to blowdown equipment and piping whenever practical to minimize venting

Silverback Exploration Matlock State Com



SILVERBACK
EXPLORATION

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? ☐

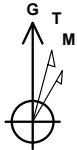
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SILVERBACK EXPLORATION

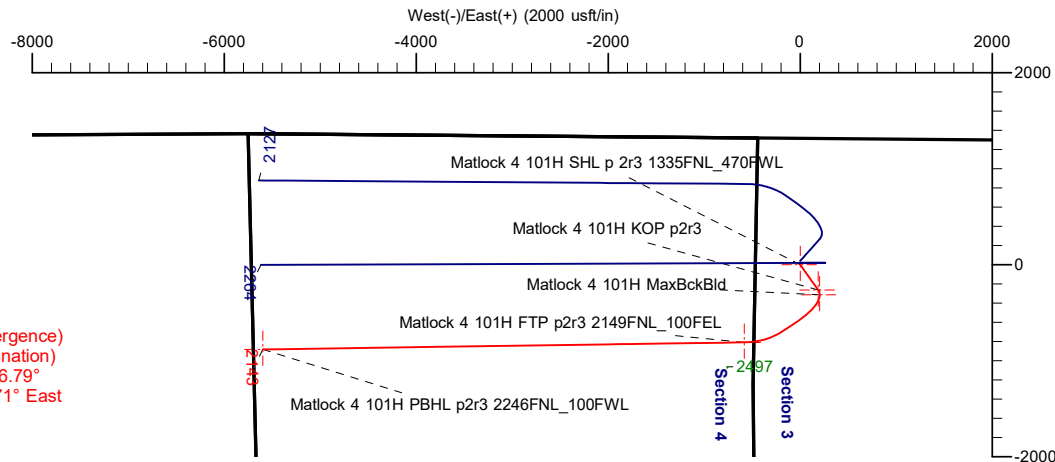
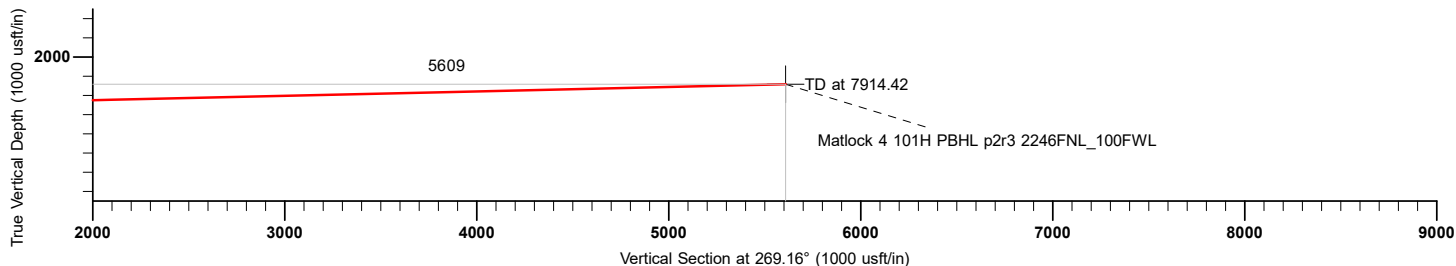
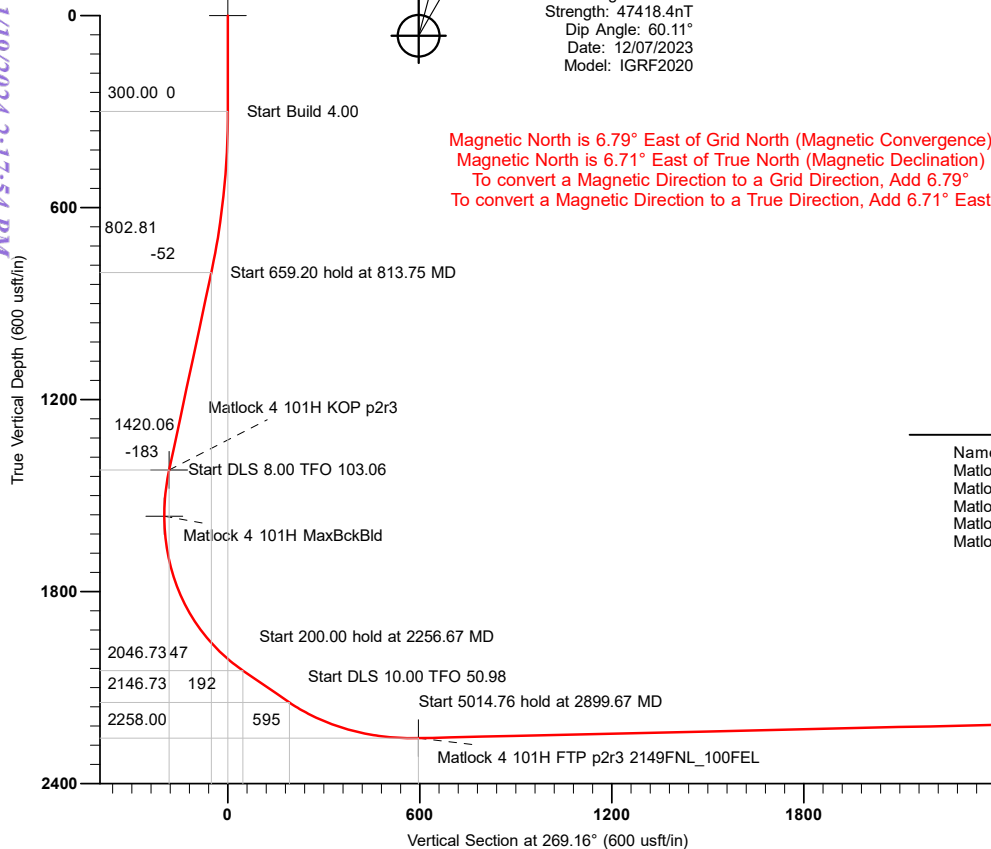
Project: EDDY COUNTY, NM (NAD83) NMEZ GRID
Site: Greasewood_Matlock
Well: Matlock State Com 101H (Slot3) 3523+20 @ 3543.00usft (gl+kb 120623)
Wellbore: MS Com 101H
Design: Plan 2r3



Azimuths to Grid North
True North: 0.08°
Magnetic North: 6.79°

Magnetic Field
Strength: 47418.4nT
Dip Angle: 60.11°
Date: 12/07/2023
Model: IGRF2020

Magnetic North is 6.79° East of Grid North (Magnetic Convergence)
Magnetic North is 6.71° East of True North (Magnetic Declination)
To convert a Magnetic Direction to a Grid Direction, Add 6.79°
To convert a Magnetic Direction to a True Direction, Add 6.71° East



DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Matlock 4 101H SHL p 2r3 1335FNL_470FWL	0.00	0.00	0.00	616243.97	496200.96	Point
Matlock 4 101H KOP p2r3	1420.06	-262.59	187.30	615981.38	496388.26	Point
Matlock 4 101H MaxBckBld	1564.51	-312.77	203.35	615931.20	496404.31	Point
Matlock 4 101H PBHL p2r3 2246FNL_100FWL	2143.00	-881.83	-5596.23	615362.14	490604.73	Point
Matlock 4 101H FTP p2r3 2149FNL_100FEL	2258.00	-808.07	-583.43	615435.90	495617.53	Point

SECTION DETAILS

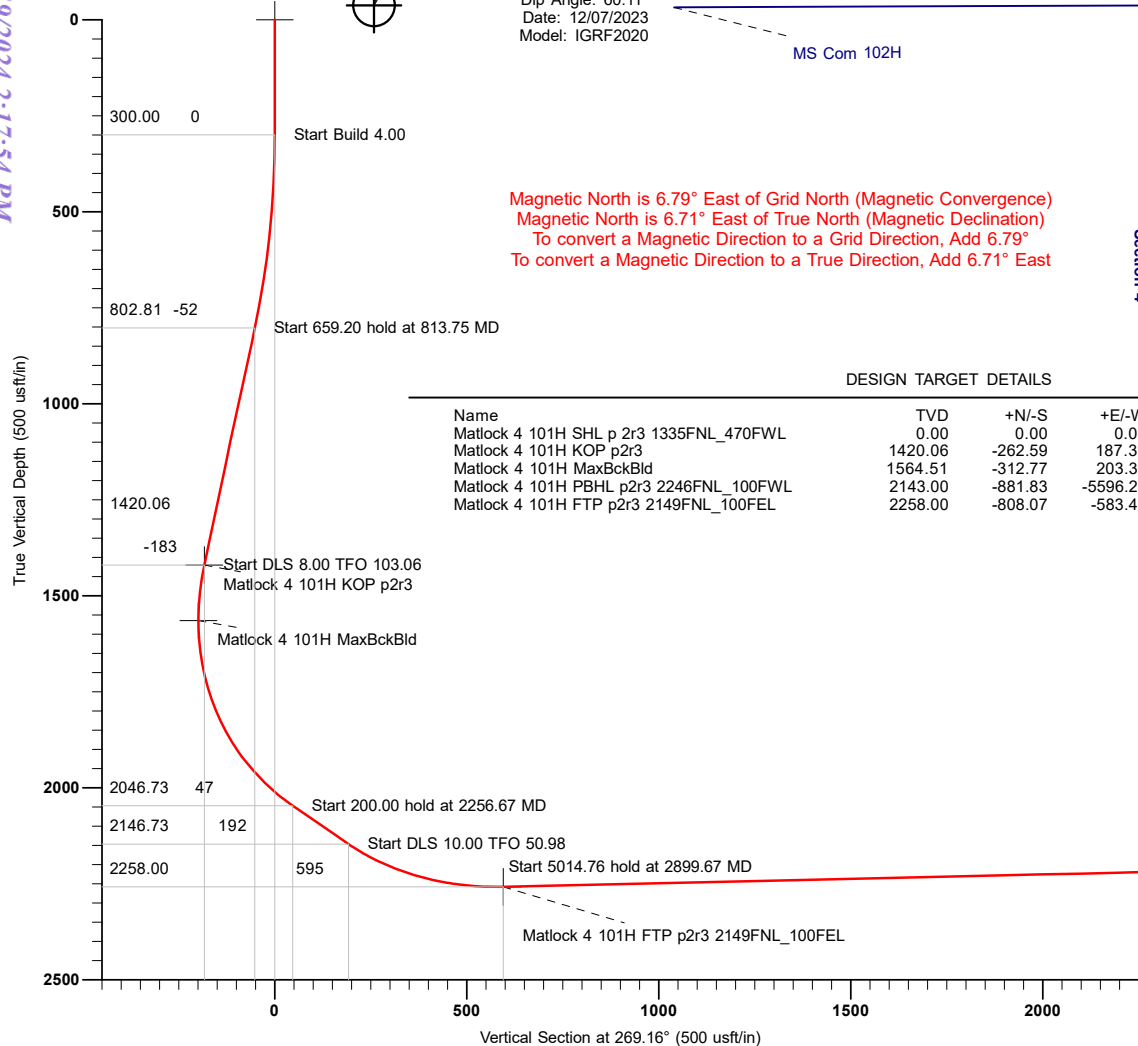
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 4.00
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	Start DLS 8.00 TFO 103.06
3	813.75	20.55	144.50	802.81	-74.21	52.93	4.00	144.50	-51.84	Start 200.00 hold at 2256.67 MD
4	1472.95	20.55	144.50	1420.06	-262.59	187.30	0.00	0.00	-183.43	Start DLS 10.00 TFO 50.98
5	2256.67	60.00	236.29	2046.73	-596.97	-38.07	8.00	103.06	46.82	Start 5014.76 hold at 2899.67 MD
6	2456.67	60.00	236.29	2146.73	-693.09	-182.15	0.00	0.00	192.29	Start DLS 10.00 TFO 50.98
7	2899.67	91.31	269.16	2258.00	-808.60	-583.33	10.00	50.98	595.12	Start 5014.76 hold at 2899.67 MD
8	7914.42	91.31	269.16	2143.00	-881.83	-5596.23	0.00	0.00	5608.56	TD at 7914.42

SILVERBACK EXPLORATION

Project: EDDY COUNTY, NM (NAD83) NMEZ GRID
 Site: Greasewood_Matlock
 Well: Matlock State Com 101H (Slot3)
 Wellbore: MS Com 101H
 Design: Plan 2r3

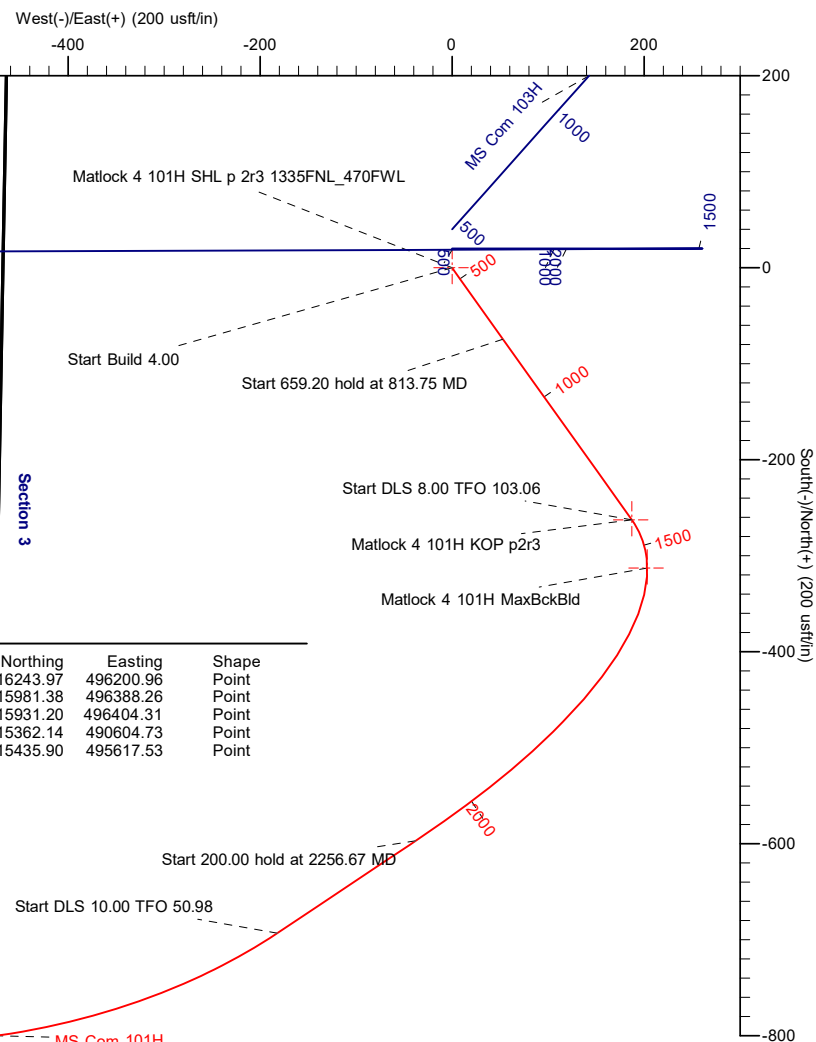
Azimuths to Grid North
 True North: 0.08°
 Magnetic North: 6.79°

Magnetic Field
 Strength: 47418.4nT
 Dip Angle: 60.11°
 Date: 12/07/2023
 Model: IGRF2020



DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Matlock 4 101H SHL p 2r3 1335FNL_470FWL	0.00	0.00	0.00	616243.97	496200.96	Point
Matlock 4 101H KOP p2r3	1420.06	-262.59	187.30	615981.38	496388.26	Point
Matlock 4 101H MaxBckBld	1564.51	-312.77	203.35	615931.20	496404.31	Point
Matlock 4 101H PBHL p2r3 2246FNL_100FWL	2143.00	-881.83	-5596.23	615362.14	490604.73	Point
Matlock 4 101H FTP p2r3 2149FNL_100FEL	2258.00	-808.07	-583.43	615435.90	495617.53	Point



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	Start Build 4.00
3	813.75	20.55	144.50	802.81	-74.21	52.93	4.00	144.50	-51.84	Start 659.20 hold at 813.75 MD
4	1472.95	20.55	144.50	1420.06	-262.59	187.30	0.00	0.00	-183.43	Start DLS 8.00 TFO 103.06
5	2256.67	60.00	236.29	2046.73	-596.97	-38.07	8.00	103.06	46.82	Start 200.00 hold at 2256.67 MD
6	2456.67	60.00	236.29	2146.73	-693.09	-182.15	0.00	0.00	192.29	Start DLS 10.00 TFO 50.98
7	2899.67	91.31	269.16	2258.00	-808.60	-583.33	10.00	50.98	595.12	Start 5014.76 hold at 2899.67 MD
8	7914.42	91.31	269.16	2143.00	-881.83	-5596.23	0.00	0.00	5608.56	TD at 7914.42

SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID

Greasewood_Matlock

Matlock State Com 101H (Slot3)

MS Com 101H

Plan: Plan 2r3

Standard Planning Report

07 December, 2023

Planning Report

Database:	PRIME_EDM	Local Co-ordinate Reference:	Well Matlock State Com 101H (Slot3)
Company:	SILVERBACK EXPLORATION	TVD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	MD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Site:	Greasewood_Matlock	North Reference:	Grid
Well:	Matlock State Com 101H (Slot3)	Survey Calculation Method:	Minimum Curvature
Wellbore:	MS Com 101H		
Design:	Plan 2r3		

Project	EDDY COUNTY, NM (NAD83) NMEZ GRID		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Greasewood_Matlock			
Site Position:		Northing:	616,915.56 usft	Latitude:	32.6958362
From:	Map	Easting:	490,837.43 usft	Longitude:	-104.4974948
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.09 °

Well	Matlock State Com 101H (Slot3)					
Well Position	+N/-S	-671.59 usft	Northing:	616,243.97 usft	Latitude:	32.6940118
	+E/-W	5,363.53 usft	Easting:	496,200.96 usft	Longitude:	-104.4800565
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,523.00 usft

Wellbore	MS Com 101H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/07/23	6.71	60.11	47,418.44889417

Design	Plan 2r3			
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	269.16

Plan Survey Tool Program	Date	12/07/23		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	7,914.42	Plan 2r3 (MS Com 101H)	MWD
				OWSG MWD - 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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
813.75	20.55	144.50	802.81	-74.21	52.93	4.00	4.00	0.00	144.50	
1,472.95	20.55	144.50	1,420.06	-262.59	187.30	0.00	0.00	0.00	0.00	
2,256.67	60.00	236.29	2,046.73	-596.97	-38.07	8.00	5.03	11.71	103.06	
2,456.67	60.00	236.29	2,146.73	-693.09	-182.15	0.00	0.00	0.00	0.00	
2,899.67	91.31	269.16	2,258.00	-808.60	-583.33	10.00	7.07	7.42	50.98	
7,914.42	91.31	269.16	2,143.00	-881.83	-5,596.23	0.00	0.00	0.00	0.00	Matlock 4 101H PBHL

Planning Report

Database:	PRIME_EDM	Local Co-ordinate Reference:	Well Matlock State Com 101H (Slot3)
Company:	SILVERBACK EXPLORATION	TVD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	MD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Site:	Greasewood_Matlock	North Reference:	Grid
Well:	Matlock State Com 101H (Slot3)	Survey Calculation Method:	Minimum Curvature
Wellbore:	MS Com 101H		
Design:	Plan 2r3		

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
Start Build 4.00									
400.00	4.00	144.50	399.92	-2.84	2.03	-1.98	4.00	4.00	0.00
500.00	8.00	144.50	499.35	-11.35	8.09	-7.93	4.00	4.00	0.00
600.00	12.00	144.50	597.81	-25.48	18.18	-17.80	4.00	4.00	0.00
700.00	16.00	144.50	694.82	-45.17	32.22	-31.56	4.00	4.00	0.00
800.00	20.00	144.50	789.91	-70.33	50.16	-49.13	4.00	4.00	0.00
813.75	20.55	144.50	802.81	-74.21	52.93	-51.84	4.00	4.00	0.00
Start 659.20 hold at 813.75 MD									
900.00	20.55	144.50	883.57	-98.85	70.51	-69.05	0.00	0.00	0.00
1,000.00	20.55	144.50	977.20	-127.43	90.90	-89.02	0.00	0.00	0.00
1,100.00	20.55	144.50	1,070.84	-156.01	111.28	-108.98	0.00	0.00	0.00
1,200.00	20.55	144.50	1,164.48	-184.59	131.66	-128.94	0.00	0.00	0.00
1,300.00	20.55	144.50	1,258.11	-213.16	152.05	-148.91	0.00	0.00	0.00
1,400.00	20.55	144.50	1,351.75	-241.74	172.43	-168.87	0.00	0.00	0.00
1,472.95	20.55	144.50	1,420.06	-262.59	187.30	-183.43	0.00	0.00	0.00
Start DLS 8.00 TFO 103.06									
1,500.00	20.17	150.62	1,445.42	-270.52	192.35	-188.36	8.00	-1.42	22.64
1,550.00	20.04	162.27	1,492.39	-286.19	199.19	-194.97	8.00	-0.26	23.30
1,600.00	20.66	173.65	1,539.29	-303.13	202.77	-198.30	8.00	1.25	22.76
1,650.00	21.98	184.06	1,585.89	-321.24	203.08	-198.35	8.00	2.63	20.81
1,700.00	23.87	193.12	1,631.95	-340.43	200.12	-195.11	8.00	3.79	18.12
1,750.00	26.22	200.78	1,677.26	-360.62	193.91	-188.60	8.00	4.69	15.33
1,800.00	28.91	207.20	1,721.59	-381.70	184.46	-178.84	8.00	5.37	12.83
1,850.00	31.85	212.56	1,764.73	-403.58	171.83	-165.90	8.00	5.88	10.73
1,900.00	34.98	217.08	1,806.46	-426.14	156.08	-149.82	8.00	6.27	9.04
1,950.00	38.26	220.94	1,846.59	-449.28	137.29	-130.69	8.00	6.55	7.71
2,000.00	41.64	224.26	1,884.92	-472.88	115.54	-108.60	8.00	6.77	6.65
2,050.00	45.11	227.16	1,921.26	-496.83	90.95	-83.66	8.00	6.94	5.81
2,100.00	48.64	229.74	1,955.44	-521.01	63.63	-55.99	8.00	7.07	5.14
2,150.00	52.23	232.04	1,987.28	-545.30	33.72	-25.73	8.00	7.17	4.61
2,200.00	55.85	234.13	2,016.64	-569.59	1.36	6.99	8.00	7.25	4.18
2,250.00	59.51	236.05	2,043.37	-593.76	-33.29	41.99	8.00	7.32	3.83
2,256.67	60.00	236.29	2,046.73	-596.97	-38.07	46.82	8.00	7.35	3.67
Start 200.00 hold at 2256.67 MD									
2,300.00	60.00	236.29	2,068.40	-617.79	-69.29	78.34	0.00	0.00	0.00
2,400.00	60.00	236.29	2,118.40	-665.86	-141.33	151.07	0.00	0.00	0.00
2,456.67	60.00	236.29	2,146.73	-693.09	-182.15	192.29	0.00	0.00	0.00
Start DLS 10.00 TFO 50.98									
2,500.00	62.78	240.07	2,167.48	-713.13	-214.47	224.91	10.00	6.42	8.74
2,550.00	66.11	244.21	2,189.06	-734.18	-254.35	265.09	10.00	6.66	8.27
2,600.00	69.55	248.14	2,207.93	-752.85	-296.70	307.70	10.00	6.87	7.85
2,650.00	73.06	251.89	2,223.96	-769.02	-341.19	352.43	10.00	7.04	7.50
2,700.00	76.65	255.50	2,237.02	-782.56	-387.50	398.93	10.00	7.17	7.22
2,750.00	80.28	259.01	2,247.02	-793.35	-435.27	446.86	10.00	7.27	7.01
2,800.00	83.95	262.44	2,253.88	-801.33	-484.14	495.83	10.00	7.34	6.86
2,850.00	87.64	265.82	2,257.55	-806.43	-533.73	545.49	10.00	7.38	6.77
2,899.67	91.31	269.16	2,258.00	-808.60	-583.33	595.12	10.00	7.40	6.73
Start 5014.76 hold at 2899.67 MD									
3,000.00	91.31	269.16	2,255.70	-810.06	-683.62	695.43	0.00	0.00	0.00

Planning Report

Database:	PRIME_EDM	Local Co-ordinate Reference:	Well Matlock State Com 101H (Slot3)
Company:	SILVERBACK EXPLORATION	TVD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	MD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Site:	Greasewood_Matlock	North Reference:	Grid
Well:	Matlock State Com 101H (Slot3)	Survey Calculation Method:	Minimum Curvature
Wellbore:	MS Com 101H		
Design:	Plan 2r3		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,100.00	91.31	269.16	2,253.41	-811.52	-783.59	795.40	0.00	0.00	0.00	
3,200.00	91.31	269.16	2,251.11	-812.99	-883.55	895.37	0.00	0.00	0.00	
3,300.00	91.31	269.16	2,248.82	-814.45	-983.51	995.35	0.00	0.00	0.00	
3,400.00	91.31	269.16	2,246.53	-815.91	-1,083.48	1,095.32	0.00	0.00	0.00	
3,500.00	91.31	269.16	2,244.23	-817.37	-1,183.44	1,195.29	0.00	0.00	0.00	
3,600.00	91.31	269.16	2,241.94	-818.83	-1,283.40	1,295.27	0.00	0.00	0.00	
3,700.00	91.31	269.16	2,239.65	-820.29	-1,383.36	1,395.24	0.00	0.00	0.00	
3,800.00	91.31	269.16	2,237.35	-821.75	-1,483.33	1,495.22	0.00	0.00	0.00	
3,900.00	91.31	269.16	2,235.06	-823.21	-1,583.29	1,595.19	0.00	0.00	0.00	
4,000.00	91.31	269.16	2,232.77	-824.67	-1,683.25	1,695.16	0.00	0.00	0.00	
4,100.00	91.31	269.16	2,230.47	-826.13	-1,783.22	1,795.14	0.00	0.00	0.00	
4,200.00	91.31	269.16	2,228.18	-827.59	-1,883.18	1,895.11	0.00	0.00	0.00	
4,300.00	91.31	269.16	2,225.89	-829.05	-1,983.14	1,995.08	0.00	0.00	0.00	
4,400.00	91.31	269.16	2,223.59	-830.51	-2,083.11	2,095.06	0.00	0.00	0.00	
4,500.00	91.31	269.16	2,221.30	-831.97	-2,183.07	2,195.03	0.00	0.00	0.00	
4,600.00	91.31	269.16	2,219.01	-833.43	-2,283.03	2,295.00	0.00	0.00	0.00	
4,700.00	91.31	269.16	2,216.71	-834.89	-2,382.99	2,394.98	0.00	0.00	0.00	
4,800.00	91.31	269.16	2,214.42	-836.35	-2,482.96	2,494.95	0.00	0.00	0.00	
4,900.00	91.31	269.16	2,212.13	-837.81	-2,582.92	2,594.93	0.00	0.00	0.00	
5,000.00	91.31	269.16	2,209.83	-839.27	-2,682.88	2,694.90	0.00	0.00	0.00	
5,100.00	91.31	269.16	2,207.54	-840.73	-2,782.85	2,794.87	0.00	0.00	0.00	
5,200.00	91.31	269.16	2,205.25	-842.19	-2,882.81	2,894.85	0.00	0.00	0.00	
5,300.00	91.31	269.16	2,202.95	-843.65	-2,982.77	2,994.82	0.00	0.00	0.00	
5,400.00	91.31	269.16	2,200.66	-845.11	-3,082.74	3,094.79	0.00	0.00	0.00	
5,500.00	91.31	269.16	2,198.37	-846.57	-3,182.70	3,194.77	0.00	0.00	0.00	
5,600.00	91.31	269.16	2,196.08	-848.03	-3,282.66	3,294.74	0.00	0.00	0.00	
5,700.00	91.31	269.16	2,193.78	-849.49	-3,382.63	3,394.72	0.00	0.00	0.00	
5,800.00	91.31	269.16	2,191.49	-850.95	-3,482.59	3,494.69	0.00	0.00	0.00	
5,900.00	91.31	269.16	2,189.20	-852.41	-3,582.55	3,594.66	0.00	0.00	0.00	
6,000.00	91.31	269.16	2,186.90	-853.87	-3,682.51	3,694.64	0.00	0.00	0.00	
6,100.00	91.31	269.16	2,184.61	-855.33	-3,782.48	3,794.61	0.00	0.00	0.00	
6,200.00	91.31	269.16	2,182.32	-856.79	-3,882.44	3,894.58	0.00	0.00	0.00	
6,300.00	91.31	269.16	2,180.02	-858.25	-3,982.40	3,994.56	0.00	0.00	0.00	
6,400.00	91.31	269.16	2,177.73	-859.71	-4,082.37	4,094.53	0.00	0.00	0.00	
6,500.00	91.31	269.16	2,175.44	-861.18	-4,182.33	4,194.51	0.00	0.00	0.00	
6,600.00	91.31	269.16	2,173.14	-862.64	-4,282.29	4,294.48	0.00	0.00	0.00	
6,700.00	91.31	269.16	2,170.85	-864.10	-4,382.26	4,394.45	0.00	0.00	0.00	
6,800.00	91.31	269.16	2,168.56	-865.56	-4,482.22	4,494.43	0.00	0.00	0.00	
6,900.00	91.31	269.16	2,166.26	-867.02	-4,582.18	4,594.40	0.00	0.00	0.00	
7,000.00	91.31	269.16	2,163.97	-868.48	-4,682.14	4,694.37	0.00	0.00	0.00	
7,100.00	91.31	269.16	2,161.68	-869.94	-4,782.11	4,794.35	0.00	0.00	0.00	
7,200.00	91.31	269.16	2,159.38	-871.40	-4,882.07	4,894.32	0.00	0.00	0.00	
7,300.00	91.31	269.16	2,157.09	-872.86	-4,982.03	4,994.29	0.00	0.00	0.00	
7,400.00	91.31	269.16	2,154.80	-874.32	-5,082.00	5,094.27	0.00	0.00	0.00	
7,500.00	91.31	269.16	2,152.50	-875.78	-5,181.96	5,194.24	0.00	0.00	0.00	
7,600.00	91.31	269.16	2,150.21	-877.24	-5,281.92	5,294.22	0.00	0.00	0.00	
7,700.00	91.31	269.16	2,147.92	-878.70	-5,381.89	5,394.19	0.00	0.00	0.00	
7,800.00	91.31	269.16	2,145.62	-880.16	-5,481.85	5,494.16	0.00	0.00	0.00	
7,900.00	91.31	269.16	2,143.33	-881.62	-5,581.81	5,594.14	0.00	0.00	0.00	
7,914.42	91.31	269.16	2,143.00	-881.83	-5,596.23	5,608.56	0.00	0.00	0.00	
TD at 7914.42										

Planning Report

Database:	PRIME_EDM	Local Co-ordinate Reference:	Well Matlock State Com 101H (Slot3)
Company:	SILVERBACK EXPLORATION	TVD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	MD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Site:	Greasewood_Matlock	North Reference:	Grid
Well:	Matlock State Com 101H (Slot3)	Survey Calculation Method:	Minimum Curvature
Wellbore:	MS Com 101H		
Design:	Plan 2r3		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
Matlock 4 101H SHL p 2	0.00	360.00	0.00	0.00	0.00	616,243.97	496,200.96	32.6940118	-104.4800565
- plan hits target center									
- Point									
Matlock 4 101H KOP p2	0.00	360.00	1,420.06	-262.59	187.30	615,981.38	496,388.26	32.6932908	-104.4794465
- plan hits target center									
- Point									
Matlock 4 101H MaxBck	0.00	360.00	1,564.51	-312.77	203.35	615,931.20	496,404.31	32.6931529	-104.4793941
- plan hits target center									
- Point									
Matlock 4 101H PBHL p:	0.00	360.00	2,143.00	-881.83	-5,596.23	615,362.14	490,604.73	32.6915654	-104.4982434
- plan hits target center									
- Point									
Matlock 4 101H FTP p2r	0.00	360.00	2,258.00	-808.07	-583.43	615,435.90	495,617.53	32.6917885	-104.4819494
- plan misses target center by 0.53usft at 2899.76usft MD (2258.00 TVD, -808.60 N, -583.42 E)									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
300.00	300.00	0.00	0.00	Start Build 4.00
813.75	802.81	-74.21	52.93	Start 659.20 hold at 813.75 MD
1,472.95	1,420.06	-262.59	187.30	Start DLS 8.00 TFO 103.06
2,256.67	2,046.73	-596.97	-38.07	Start 200.00 hold at 2256.67 MD
2,456.67	2,146.73	-693.09	-182.15	Start DLS 10.00 TFO 50.98
2,899.67	2,258.00	-808.60	-583.33	Start 5014.76 hold at 2899.67 MD
7,914.42	2,143.00	-881.83	-5,596.23	TD at 7914.42

SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID

Greasewood_Matlock

Matlock State Com 101H (Slot3)

MS Com 101H

Plan 2r3

Anticollision Report

07 December, 2023

Anticollision Report

Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Matlock State Com 101H (Slot3)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Reference Site:	Greasewood_Matlock	MD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Matlock State Com 101H (Slot3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	MS Com 101H	Database:	PRIME_EDM
Reference Design:	Plan 2r3	Offset TVD Reference:	Reference Datum

Reference	Plan 2r3		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 0.00 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	12/07/23		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	7,914.42	Plan 2r3 (MS Com 101H)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation	Warning
Offset Well - Wellbore - Design						
Greasewood_Matlock						
Greasewood BD State 1 (Offset) PA - GW BD ST 1 - GW						Out of range
Greasewood BD State 10 (Offset) Active - GW BD ST 1						Out of range
Greasewood BD State 8 (Offset) PA - GW BD ST 8 - GW						Out of range
Greasewood BD State 9 (Offset) PA - GW BD ST 9 - GW						Out of range
Matlock State Com 102H (Slot2) - MS Com 102H - Plan					8.358	CC, ES
Matlock State Com 102H (Slot2) - MS Com 102H - Plan	7,914.96	7,905.46	888.51	611.53	3.208	SF
Matlock State Com 103H (Slot1) - MS Com 103H - Plan	300.00	300.00	40.00	37.61	16.717	CC, ES
Matlock State Com 103H (Slot1) - MS Com 103H - Plan	500.00	493.68	61.43	52.74	7.066	SF
State AX 1 (Offset) PA - State AX 1 - State AX 1 AsDrilled	3,000.00	2,247.45	263.88	175.18	2.975	SF
State AX 1 (Offset) PA - State AX 1 - State AX 1 AsDrilled	3,079.52	2,245.63	251.62	170.21	3.091	CC, ES

Offset Design	Greasewood_Matlock - Matlock State Com 102H (Slot2) - MS Com 102H - Plan 2r3												Offset Site Error:	0.00 usft
Survey Program:	0-MWD												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis			Distance									Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	20.00					
100.00	100.00	100.00	100.00	0.31	0.31	0.00	20.00	0.00	20.00	19.52	0.48	41.677		
200.00	200.00	200.00	200.00	0.95	0.95	0.00	20.00	0.00	20.00	18.47	1.53	13.112		
300.00	300.00	300.00	300.00	1.46	1.46	0.00	20.00	0.00	20.00	17.61	2.39	8.358	CC, ES	
400.00	399.92	399.92	399.92	2.57	1.89	-149.51	20.00	0.00	22.93	19.03	3.90	5.885		
500.00	499.35	499.61	499.60	5.42	2.22	-157.32	20.00	0.86	32.17	25.18	7.00	4.597		
600.00	597.81	599.17	598.90	7.22	4.15	-157.06	20.01	7.76	46.68	37.28	9.40	4.966		
700.00	694.82	697.94	696.70	8.64	6.32	-153.23	20.02	21.40	66.11	54.89	11.22	5.894		
800.00	789.91	795.37	792.03	9.83	7.90	-148.70	20.04	41.44	90.81	78.32	12.49	7.269		
900.00	883.57	891.45	884.50	9.96	9.17	-144.28	20.06	67.49	118.95	106.30	12.65	9.403		
1,000.00	977.20	986.72	974.78	10.10	9.42	-139.72	20.09	97.90	147.70	134.85	12.85	11.493		
1,100.00	1,070.84	1,081.93	1,064.92	10.26	9.57	-136.55	20.11	128.55	177.06	163.69	13.37	13.241		
1,200.00	1,164.48	1,177.13	1,155.05	10.43	9.73	-134.28	20.14	159.20	206.78	192.72	14.06	14.705		
1,300.00	1,258.11	1,272.34	1,245.19	10.62	9.91	-132.58	20.17	189.85	236.72	221.87	14.85	15.939		
1,400.00	1,351.75	1,367.54	1,335.33	10.82	10.09	-131.26	20.19	220.50	266.81	251.11	15.70	16.989		
1,500.00	1,445.42	1,470.59	1,434.70	11.03	10.52	-137.60	20.20	247.44	296.09	279.42	16.66	17.770		
1,600.00	1,539.29	1,573.40	1,536.67	11.22	11.20	-162.53	20.16	259.86	328.30	310.72	17.57	18.680		

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

Anticollision Report

Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Matlock State Com 101H (Slot3)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Reference Site:	Greasewood_Matlock	MD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Matlock State Com 101H (Slot3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	MS Com 101H	Database:	PRIME_EDM
Reference Design:	Plan 2r3	Offset TVD Reference:	Reference Datum

Offset Design Greasewood_Matlock - Matlock State Com 102H (Slot2) - MS Com 102H - Plan 2r3													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
1,700.00	1,631.95	1,674.47	1,637.63	11.43	11.61	175.62	20.07	257.74	365.12	346.18	18.94	19.277		
1,800.00	1,721.59	1,773.86	1,735.66	11.74	12.21	158.84	19.94	241.82	405.97	386.36	19.61	20.704		
1,900.00	1,806.46	1,871.87	1,829.26	12.35	12.72	146.11	19.78	212.99	450.11	430.16	19.96	22.555		
2,000.00	1,884.92	1,969.01	1,917.28	13.14	13.17	136.05	19.58	172.08	496.75	476.45	20.30	24.474		
2,100.00	1,955.44	2,065.94	1,998.79	13.97	13.55	127.79	19.34	119.77	544.99	524.24	20.75	26.265		
2,200.00	2,016.64	2,163.46	2,072.92	14.83	13.88	120.82	19.08	56.53	593.92	572.47	21.46	27.680		
2,300.00	2,068.40	2,262.46	2,138.70	15.71	14.15	117.36	18.79	-17.36	642.55	619.98	22.57	28.466		
2,400.00	2,118.40	2,362.13	2,194.00	16.64	14.37	116.50	18.48	-100.19	689.73	665.54	24.19	28.513		
2,500.00	2,167.48	2,450.17	2,238.02	17.73	14.49	111.70	18.20	-176.43	735.71	709.67	26.04	28.255		
2,600.00	2,207.93	2,541.73	2,283.79	19.17	14.74	104.78	17.91	-255.72	775.57	747.22	28.36	27.350		
2,700.00	2,237.02	2,651.84	2,332.13	20.67	15.72	100.80	17.55	-354.50	806.42	774.83	31.58	25.533		
2,800.00	2,253.88	2,772.03	2,362.55	22.20	17.76	98.49	17.13	-470.54	825.75	790.07	35.68	23.141		
2,900.00	2,257.99	2,890.81	2,368.58	23.76	20.10	97.62	16.69	-588.98	832.69	792.55	40.14	20.746		
3,000.00	2,255.70	2,990.81	2,366.50	25.35	22.20	97.62	16.33	-688.95	833.80	789.64	44.17	18.878		
3,100.00	2,253.41	3,090.80	2,364.42	27.03	24.38	97.63	15.96	-788.92	834.92	786.63	48.28	17.292		
3,200.00	2,251.11	3,190.79	2,362.34	28.82	26.60	97.63	15.59	-888.90	836.03	783.50	52.53	15.916		
3,300.00	2,248.82	3,290.79	2,360.26	30.71	28.86	97.64	15.23	-988.87	837.14	780.27	56.87	14.720		
3,400.00	2,246.53	3,390.78	2,358.18	32.68	31.16	97.64	14.86	-1,088.84	838.25	776.96	61.29	13.676		
3,500.00	2,244.23	3,490.78	2,356.10	34.72	33.48	97.65	14.50	-1,188.81	839.37	773.59	65.78	12.760		
3,600.00	2,241.94	3,590.77	2,354.03	36.81	35.81	97.65	14.13	-1,288.78	840.48	770.16	70.32	11.953		
3,700.00	2,239.65	3,690.76	2,351.95	38.94	38.17	97.66	13.76	-1,388.75	841.59	766.70	74.90	11.237		
3,800.00	2,237.35	3,790.76	2,349.87	41.12	40.53	97.66	13.40	-1,488.73	842.71	763.20	79.51	10.599		
3,900.00	2,235.06	3,890.75	2,347.79	43.32	42.90	97.66	13.03	-1,588.70	843.82	759.67	84.15	10.027		
4,000.00	2,232.77	3,990.74	2,345.71	45.56	45.29	97.67	12.67	-1,688.67	844.93	756.11	88.82	9.513		
4,100.00	2,230.47	4,090.74	2,343.63	47.81	47.68	97.67	12.30	-1,788.64	846.05	752.54	93.50	9.048		
4,200.00	2,228.18	4,190.73	2,341.55	50.09	50.08	97.68	11.93	-1,888.61	847.16	748.95	98.21	8.626		
4,300.00	2,225.89	4,290.73	2,339.47	52.38	52.48	97.68	11.57	-1,988.58	848.27	745.34	102.93	8.241		
4,400.00	2,223.59	4,390.72	2,337.39	54.69	54.89	97.69	11.20	-2,088.55	849.39	741.72	107.66	7.889		
4,500.00	2,221.30	4,490.71	2,335.31	57.01	57.30	97.69	10.83	-2,188.53	850.50	738.09	112.41	7.566		
4,600.00	2,219.01	4,590.71	2,333.23	59.34	59.71	97.70	10.47	-2,288.50	851.61	734.45	117.16	7.269		
4,700.00	2,216.71	4,690.70	2,331.15	61.69	62.13	97.70	10.10	-2,388.47	852.72	730.80	121.93	6.994		
4,800.00	2,214.42	4,790.70	2,329.08	64.04	64.55	97.70	9.74	-2,488.44	853.84	727.14	126.70	6.739		
4,900.00	2,212.13	4,890.69	2,327.00	66.40	66.98	97.71	9.37	-2,588.41	854.95	723.47	131.48	6.503		
5,000.00	2,209.83	4,990.68	2,324.92	68.76	69.40	97.71	9.00	-2,688.38	856.06	719.80	136.26	6.282		
5,100.00	2,207.54	5,090.68	2,322.84	71.13	71.83	97.72	8.64	-2,788.35	857.18	716.12	141.05	6.077		
5,200.00	2,205.25	5,190.67	2,320.76	73.51	74.26	97.72	8.27	-2,888.33	858.29	712.44	145.85	5.885		
5,300.00	2,202.95	5,290.66	2,318.68	75.89	76.69	97.73	7.91	-2,988.30	859.40	708.75	150.65	5.705		
5,400.00	2,200.66	5,390.66	2,316.60	78.28	79.13	97.73	7.54	-3,088.27	860.52	705.06	155.45	5.536		
5,500.00	2,198.37	5,490.65	2,314.52	80.67	81.56	97.74	7.17	-3,188.24	861.63	701.37	160.26	5.376		
5,600.00	2,196.08	5,590.65	2,312.44	83.07	84.00	97.74	6.81	-3,288.21	862.74	697.67	165.07	5.226		
5,700.00	2,193.78	5,690.64	2,310.36	85.47	86.44	97.74	6.44	-3,388.18	863.86	693.97	169.89	5.085		
5,800.00	2,191.49	5,790.63	2,308.28	87.87	88.87	97.75	6.08	-3,488.16	864.97	690.26	174.71	4.951		
5,900.00	2,189.20	5,890.63	2,306.20	90.28	91.31	97.75	5.71	-3,588.13	866.08	686.56	179.53	4.824		
6,000.00	2,186.90	5,990.62	2,304.13	92.68	93.75	97.76	5.34	-3,688.10	867.20	682.85	184.35	4.704		
6,100.00	2,184.61	6,090.61	2,302.05	95.09	96.19	97.76	4.98	-3,788.07	868.31	679.13	189.17	4.590		
6,200.00	2,182.32	6,190.61	2,299.97	97.51	98.64	97.76	4.61	-3,888.04	869.42	675.42	194.00	4.482		
6,300.00	2,180.02	6,290.60	2,297.89	99.92	101.08	97.77	4.25	-3,988.01	870.53	671.70	198.83	4.378		
6,400.00	2,177.73	6,390.60	2,295.81	102.34	103.52	97.77	3.88	-4,087.98	871.65	667.99	203.66	4.280		
6,500.00	2,175.44	6,490.59	2,293.73	104.76	105.97	97.78	3.51	-4,187.96	872.76	664.27	208.49	4.186		
6,600.00	2,173.14	6,590.58	2,291.65	107.18	108.41	97.78	3.15	-4,287.93	873.87	660.55	213.33	4.096		
6,700.00	2,170.85	6,690.58	2,289.57	109.60	110.85	97.79	2.78	-4,387.90	874.99	656.83	218.16	4.011		
6,800.00	2,168.56	6,790.57	2,287.49	112.02	113.30	97.79	2.42	-4,487.87	876.10	653.10	223.00	3.929		

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

Anticollision Report

Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Matlock State Com 101H (Slot3)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Reference Site:	Greasewood_Matlock	MD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Matlock State Com 101H (Slot3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	MS Com 101H	Database:	PRIME_EDM
Reference Design:	Plan 2r3	Offset TVD Reference:	Reference Datum

Offset Design Greasewood_Matlock - Matlock State Com 102H (Slot2) - MS Com 102H - Plan 2r3												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,900.00	2,166.26	6,890.56	2,285.41	114.45	115.75	97.79	2.05	-4,587.84	877.21	649.38	227.84	3.850	
7,000.00	2,163.97	6,990.56	2,283.33	116.87	118.19	97.80	1.68	-4,687.81	878.33	645.65	232.68	3.775	
7,100.00	2,161.68	7,090.55	2,281.25	119.30	120.64	97.80	1.32	-4,787.78	879.44	641.93	237.52	3.703	
7,200.00	2,159.38	7,190.55	2,279.18	121.73	123.08	97.81	0.95	-4,887.76	880.55	638.20	242.36	3.633	
7,300.00	2,157.09	7,290.54	2,277.10	124.16	125.53	97.81	0.59	-4,987.73	881.67	634.47	247.20	3.567	
7,400.00	2,154.80	7,390.53	2,275.02	126.59	127.98	97.81	0.22	-5,087.70	882.78	630.74	252.04	3.503	
7,500.00	2,152.50	7,490.53	2,272.94	129.02	130.43	97.82	-0.15	-5,187.67	883.89	627.01	256.88	3.441	
7,600.00	2,150.21	7,590.52	2,270.86	131.45	132.88	97.82	-0.51	-5,287.64	885.01	623.28	261.73	3.381	
7,700.00	2,147.92	7,690.51	2,268.78	133.88	135.32	97.83	-0.88	-5,387.61	886.12	619.55	266.57	3.324	
7,800.00	2,145.62	7,790.51	2,266.70	136.32	137.77	97.83	-1.24	-5,487.59	887.23	615.81	271.42	3.269	
7,900.00	2,143.33	7,890.50	2,264.62	138.75	140.22	97.84	-1.61	-5,587.56	888.35	612.08	276.27	3.216	
7,914.96	2,142.99	7,905.46	2,264.31	139.12	140.59	97.84	-1.67	-5,602.51	888.51	611.53	276.99	3.208 SF	

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

Anticollision Report

Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Matlock State Com 101H (Slot3)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Reference Site:	Greasewood_Matlock	MD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Matlock State Com 101H (Slot3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	MS Com 101H	Database:	PRIME_EDM
Reference Design:	Plan 2r3	Offset TVD Reference:	Reference Datum

Offset Design Greasewood_Matlock - Matlock State Com 103H (Slot1) - MS Com 103H - Plan 2r3													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.00	0.00	40.00					
100.00	100.00	100.00	100.00	0.31	0.31	0.00	40.00	0.00	40.00	39.52	0.48	83.353		
200.00	200.00	200.00	200.00	0.95	0.95	0.00	40.00	0.00	40.00	38.47	1.53	26.224		
300.00	300.00	300.00	300.00	1.46	1.46	0.00	40.00	0.00	40.00	37.61	2.39	16.717 CC, ES		
400.00	399.92	397.67	397.60	2.57	3.20	-144.08	42.49	2.21	45.39	40.75	4.63	9.798		
500.00	499.35	493.68	493.09	5.42	5.62	-143.18	49.76	8.70	61.43	52.74	8.69	7.066 SF		
600.00	597.81	586.47	584.56	7.22	7.27	-142.23	61.32	18.99	87.81	76.49	11.32	7.759		
700.00	694.82	674.74	670.48	8.64	8.53	-141.30	76.39	32.42	123.98	110.67	13.30	9.318		
800.00	789.91	757.48	749.75	9.83	9.55	-140.31	94.08	48.19	169.26	154.37	14.89	11.370		
900.00	883.57	836.14	823.72	9.96	10.11	-140.17	114.01	65.94	221.17	205.79	15.38	14.378		
1,000.00	977.20	920.77	902.73	10.10	10.23	-139.94	136.66	86.12	274.43	258.66	15.77	17.402		
1,100.00	1,070.84	1,005.40	981.74	10.26	10.34	-139.79	159.30	106.30	327.70	311.50	16.20	20.231		
1,200.00	1,164.48	1,090.03	1,060.75	10.43	10.48	-139.68	181.95	126.47	380.96	364.30	16.67	22.854		
1,300.00	1,258.11	1,174.66	1,139.76	10.62	10.62	-139.60	204.59	146.65	434.23	417.05	17.18	25.275		
1,400.00	1,351.75	1,259.29	1,218.77	10.82	10.77	-139.53	227.24	166.82	487.50	469.77	17.73	27.502		
1,500.00	1,445.42	1,343.79	1,297.65	11.03	10.94	-146.40	249.85	186.97	540.97	522.67	18.29	29.576		
1,600.00	1,539.29	1,422.16	1,370.83	11.22	11.09	-172.04	270.84	205.59	598.19	579.34	18.85	31.732		
1,700.00	1,631.95	1,479.23	1,424.34	11.43	11.24	165.18	287.40	216.47	661.47	642.35	19.12	34.588		
1,800.00	1,721.59	1,531.06	1,473.01	11.74	11.44	146.93	304.04	222.74	730.41	711.08	19.33	37.793		
1,900.00	1,806.46	1,577.86	1,516.80	12.35	11.70	132.05	320.29	225.44	803.67	784.18	19.49	41.239		
2,000.00	1,884.92	1,619.87	1,555.83	13.14	11.98	119.20	335.83	225.45	880.00	860.32	19.68	44.710		
2,100.00	1,955.44	1,657.34	1,590.29	13.97	12.25	107.65	350.39	223.53	958.25	938.29	19.96	48.017		

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

Anticollision Report

Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Matlock State Com 101H (Slot3)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Reference Site:	Greasewood_Matlock	MD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Matlock State Com 101H (Slot3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	MS Com 101H	Database:	PRIME_EDM
Reference Design:	Plan 2r3	Offset TVD Reference:	Reference Datum

Offset Design		Greasewood_Matlock - State AX 1 (Offset) PA - State AX 1 - State AX 1 AsDrilled											Offset Site Error:	0.00 usft
Survey Program:		500-DIPMETER											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,100.00	1,955.44	1,936.31	1,945.06	13.97	74.59	10.37	-1,061.38	-759.44	984.66	898.88	85.78	11.479		
2,200.00	2,016.64	2,008.39	2,016.64	14.83	75.82	5.18	-1,062.82	-759.44	906.70	819.40	87.29	10.387		
2,300.00	2,068.40	2,060.15	2,068.40	15.71	76.34	1.79	-1,062.82	-759.44	821.20	733.22	87.98	9.334		
2,400.00	2,118.40	2,110.15	2,118.40	16.64	76.84	2.00	-1,062.82	-759.44	734.60	646.02	88.58	8.293		
2,500.00	2,167.48	2,159.23	2,167.48	17.73	77.34	-6.02	-1,062.82	-759.44	647.51	558.32	89.20	7.259		
2,600.00	2,207.93	2,199.68	2,207.93	19.17	77.74	-31.20	-1,062.82	-759.44	556.96	467.15	89.82	6.201		
2,700.00	2,237.02	2,228.77	2,237.02	20.67	78.04	-60.86	-1,062.82	-759.44	465.71	375.31	90.40	5.152		
2,800.00	2,253.88	2,245.63	2,253.88	22.20	78.21	-81.74	-1,062.82	-759.44	379.70	288.78	90.91	4.176		
2,900.00	2,257.99	2,249.74	2,257.99	23.76	78.25	-90.94	-1,062.82	-759.44	309.07	217.94	91.13	3.391		
3,000.00	2,255.70	2,247.45	2,255.70	25.35	78.23	-90.42	-1,062.82	-759.44	263.88	175.18	88.70	2.975 SF		
3,079.52	2,253.88	2,245.63	2,253.88	26.68	78.21	-90.00	-1,062.82	-759.44	251.62	170.21	81.41	3.091 CC, ES		
3,100.00	2,253.41	2,245.16	2,253.41	27.03	78.20	-89.89	-1,062.82	-759.44	252.45	173.78	78.67	3.209		
3,200.00	2,251.11	2,242.86	2,251.11	28.82	78.18	-89.37	-1,062.82	-759.44	278.96	214.75	64.21	4.344		
3,300.00	2,248.82	2,240.57	2,248.82	30.71	78.16	-88.85	-1,062.82	-759.44	334.51	277.79	56.72	5.897		
3,400.00	2,246.53	2,238.28	2,246.53	32.68	78.13	-88.33	-1,062.82	-759.44	407.39	349.46	57.93	7.033		
3,500.00	2,244.23	2,235.98	2,244.23	34.72	78.11	-87.81	-1,062.82	-759.44	489.92	428.40	61.52	7.964		
3,600.00	2,241.94	2,233.69	2,241.94	36.81	78.09	-87.28	-1,062.82	-759.44	577.99	513.23	64.76	8.925		
3,700.00	2,239.65	2,231.40	2,239.65	38.94	78.06	-86.76	-1,062.82	-759.44	669.41	602.11	67.29	9.948		
3,800.00	2,237.35	2,229.10	2,237.35	41.12	78.04	-86.24	-1,062.82	-759.44	762.97	693.74	69.24	11.020		
3,900.00	2,235.06	2,226.81	2,235.06	43.32	78.02	-85.72	-1,062.82	-759.44	857.99	787.25	70.74	12.128		
4,000.00	2,232.77	2,224.52	2,232.77	45.56	77.99	-85.21	-1,062.82	-759.44	954.02	882.09	71.93	13.263		

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

Anticollision Report

Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Matlock State Com 101H (Slot3)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Reference Site:	Greasewood_Matlock	MD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Matlock State Com 101H (Slot3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	MS Com 101H	Database:	PRIME_EDM
Reference Design:	Plan 2r3	Offset TVD Reference:	Reference Datum

Reference Depths are relative to 3523+20 @ 3543.00usft (gl+kb 12062

Offset Depths are relative to Offset Datum

Central Meridian is -104.3333333

Coordinates are relative to: Matlock State Com 101H (Slot3)

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

Grid Convergence at Surface is: -0.08°



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

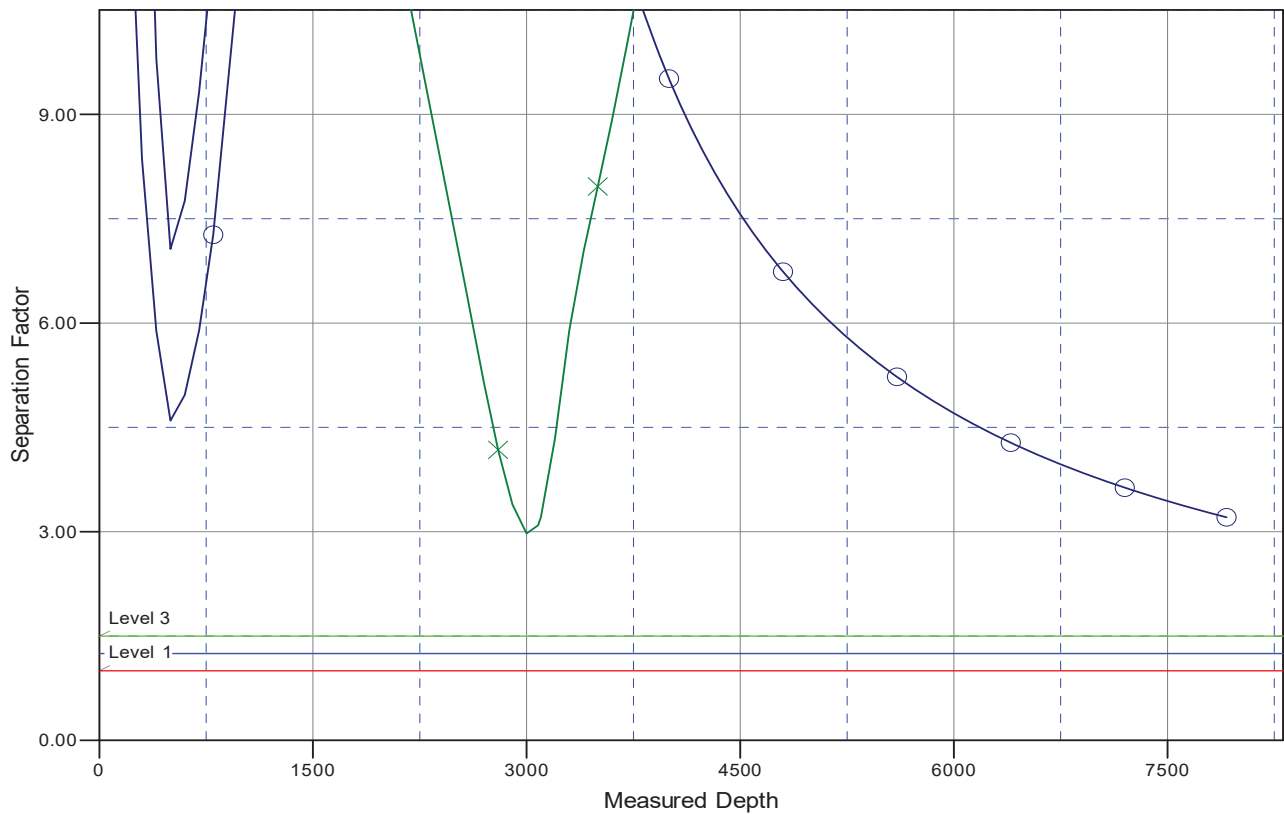
Anticollision Report

Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Matlock State Com 101H (Slot3)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Reference Site:	Greasewood_Matlock	MD Reference:	3523+20 @ 3543.00usft (gl+kb 120623)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Matlock State Com 101H (Slot3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	MS Com 101H	Database:	PRIME_EDM
Reference Design:	Plan 2r3	Offset TVD Reference:	Reference Datum

Reference Depths are relative to 3523+20 @ 3543.00usft (gl+kb 12062
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Matlock State Com 101H (Slot3)
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: -0.08°

Separation Factor Plot



LEGEND

● MatlockState Com 103H (Slot1), MS Com 103H, Plan 2r3 V0 ● MatlockState Com 102H (Slot2), MS Com 102H, Plan 2r3 V0 x State AX 1 (Offset) PA, State AX 1, State AX 1 As Drilled V0