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 357750

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

1. Operator Name and Address	2. OGRID Number
Silverback Operating II, LLC 19707 IH10 West, Suite 201 San Antonio, TX 78256	330968
	3. API Number 30-015-54791

4. Property Code	5. Property Name	6. Well No.
333472	NETHERLIN STATE COM	101H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	16	18S	26E		1321	S	236	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	16	18S	26E	M	440	S	100	W	Eddy

9. Pool Information

ATOKA;GLORIETA-YESO	3250

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3355
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	8213	Yeso		8/8/2024
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	12.25	9.625	36	1291	286	0
Prod	8.75	7	32	3393	165	0
Prod	8.75	5.5	20	8213	1250	2058

Casing/Cement Program: Additional Comments

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.

Signature:

OIL CONSERVATION DIVISION

Printed Name:	Electronically filed by Matthew Alley	Approved By:	Ward Rikala
Title:	Chief Financial Officer	Title:	
Email Address:	malley@silverbackexp.com	Approved Date: 2/28/2024	Expiration Date: 2/28/2026
Date: 2/5/2024	Phone: 303-513-0990	Conditions of Approval Attached	

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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015 -54791	3250	ATOKA; GLORIETA-YESO

[4] Property Code	[5] Property Name	[6] Well Number
333472	NETHERLIN STATE COM	101H

[7] OGRID No.	[8] Operator Name	[9] Elevation
330968	SILVERBACK OPERATING II, LLC	3,355'

[10] Surface Location

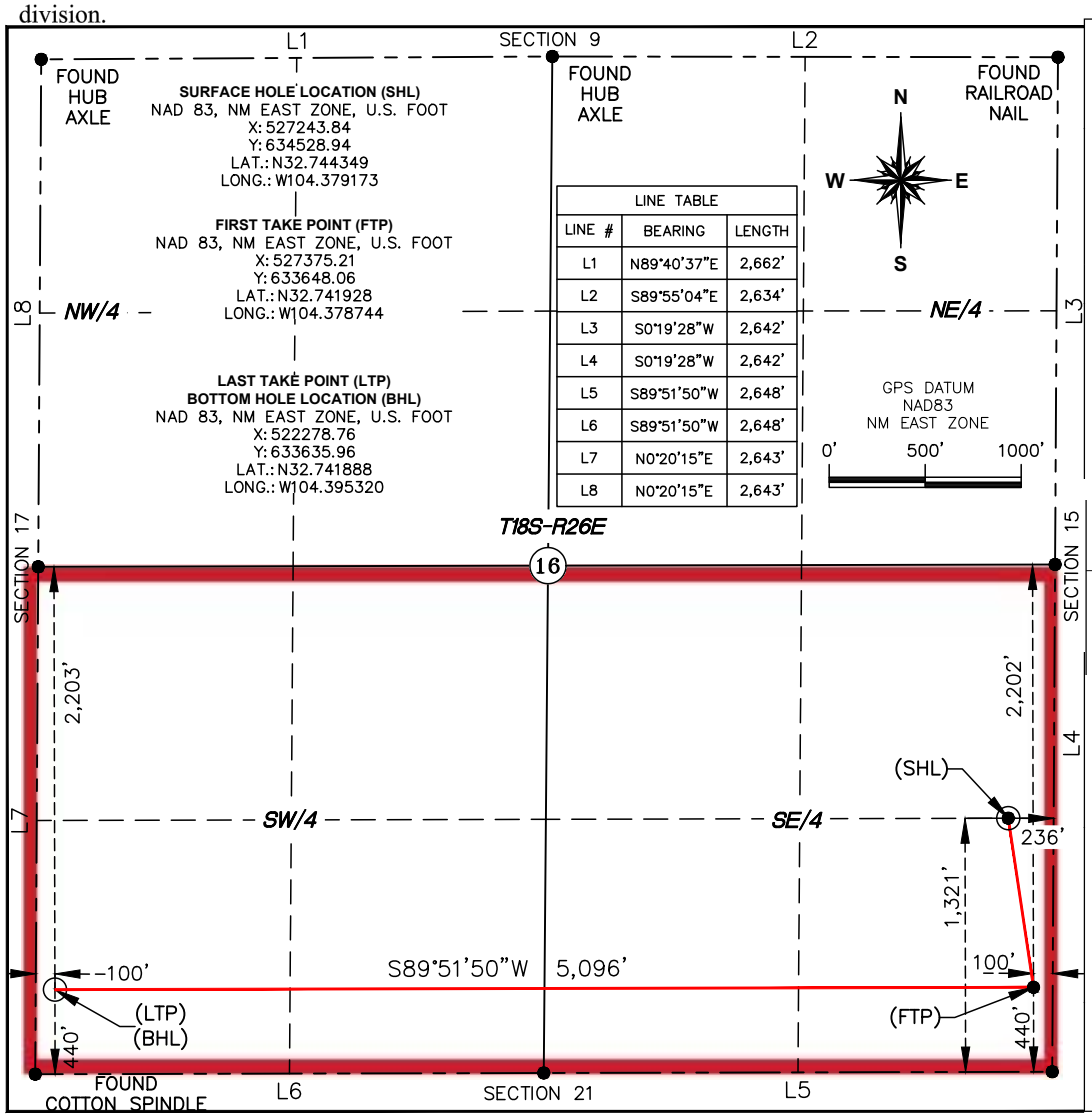
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	16	18-S	26-E		1,321'	SOUTH	236'	EAST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	16	18-S	26-E		440'	SOUTH	100'	WEST	EDDY

[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 01-23-24
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.

01/11/24
Date of Survey

Signature and Seal of Professional Surveyor:

MATTHEW C. BISSETT
NEW MEXICO
20450
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 357750

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Silverback Operating II, LLC [330968] 19707 IH10 West, Suite 201 San Antonio, TX 78256	30-015-54791
	Well: NETHERLIN 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:** 02 / 01 / 2024

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

If Other, please describe: _____

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
Netherlin State Com 101H	30-015-	I-16-18S-26E	1321' FSL 236' FEL	515	440	3000
Netherlin State Com 102H	30-015-50082	I-16-18S-26E	1341' FSL 236' FEL	515	440	3000
Netherlin State Com 103H	30-015-50083	I-16-18S-26E	1361' FSL 237' FEL	515	440	3000

IV. Central Delivery Point Name: Netherlin State Com 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
Netherlin State Com 101H	30-015	8/8/2024	9/27/2024	11/4/2024	11/30/2024	11/30/2024
Netherlin State Com 102H	30-015-50082	8/10/2024	10/3/2024	11/4/2024	12/1/2024	12/1/2024
Netherlin State Com 103H	30-015-50083	8/12/2024	10/9/2024	11/4/2024	12/2/2024	12/2/2024

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
[redacted]			

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
[redacted]				

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:	Fatma Abdallah
Printed Name:	Fatma Abdallah
Title:	Regulatory Manager
E-mail Address:	fabdallah@silverbackexp.com
Date:	02/05/2024
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 including a low probably, high volume production case (approximately 75% higher than type curve or most likely amount of production). 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. The high volume case was used to size equipment, piping and instrumentation. Equipment sizing is based on drop settlement and limits the amount of carry over to the gas phase.

Each well has a dedicated 3 phase separator and gas from that separator is taken directly to gas sales. 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 flare. 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 flare which is sized to accommodate peak expected production volume. Flash volumes were estimated using the high volume case and process modeling software.

Operational Practices

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 will only occur during 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:

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

Best Management Practices

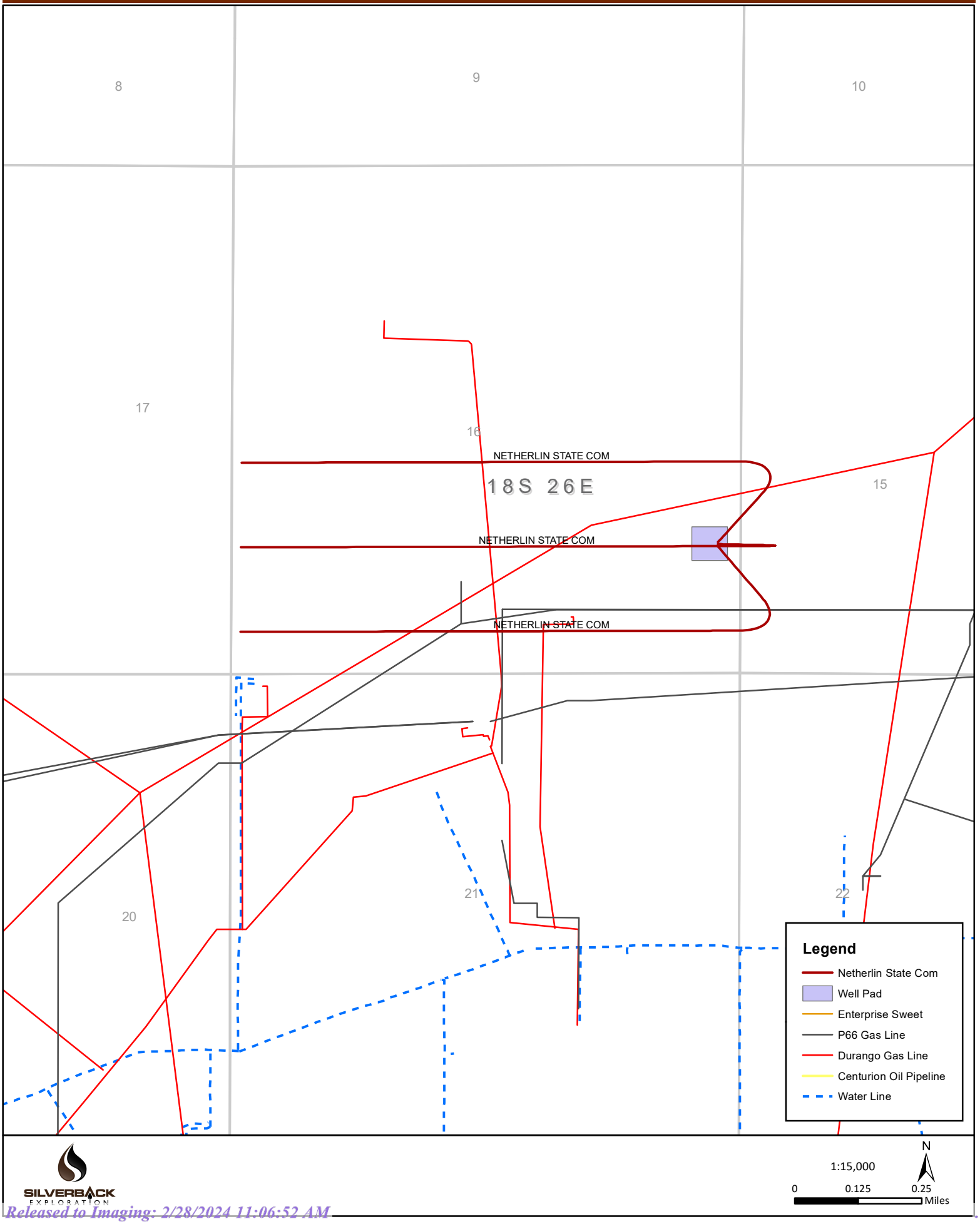
Silverback utilizes automate engineering controls included in facility design to minimize venting and flaring. Additionally, operational best practices support minimization of flare and venting as described below.

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 flare.

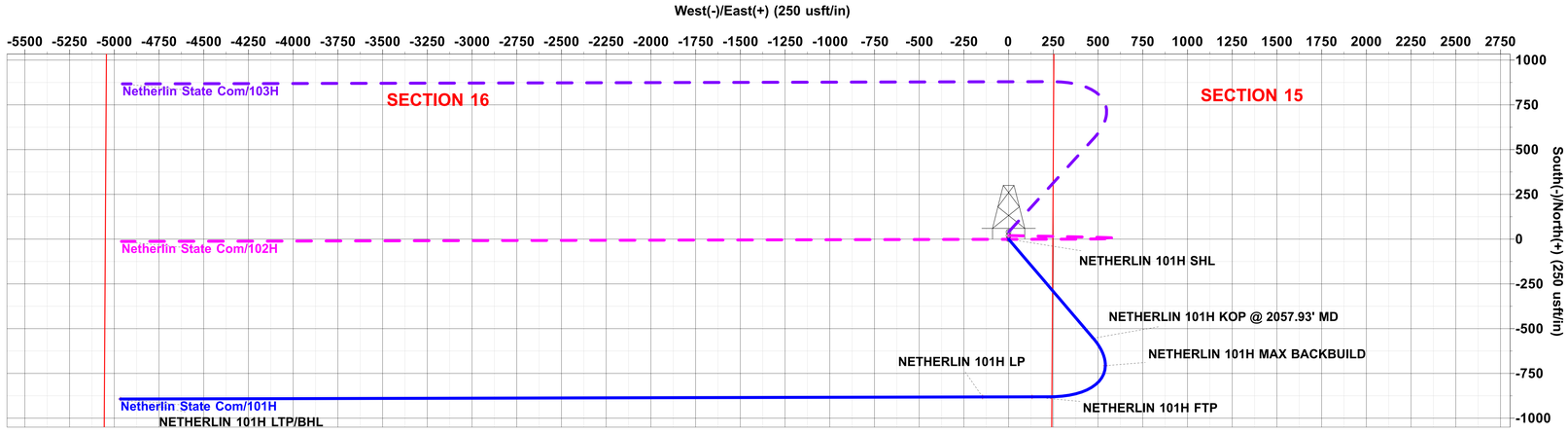
For maintenance activities, Silverback will utilize the facility flare to blowdown equipment and piping whenever practical to minimize venting

Silverback Exploration: Netherlin State Com



SILVERBACK EXPLORATION

Project: EDDY COUNTY, NM (NAD 83 - NME)
Site: Netherlin State Com
Well: 101H
Wellbore: Wellbore #1
Design: Plan 2r1



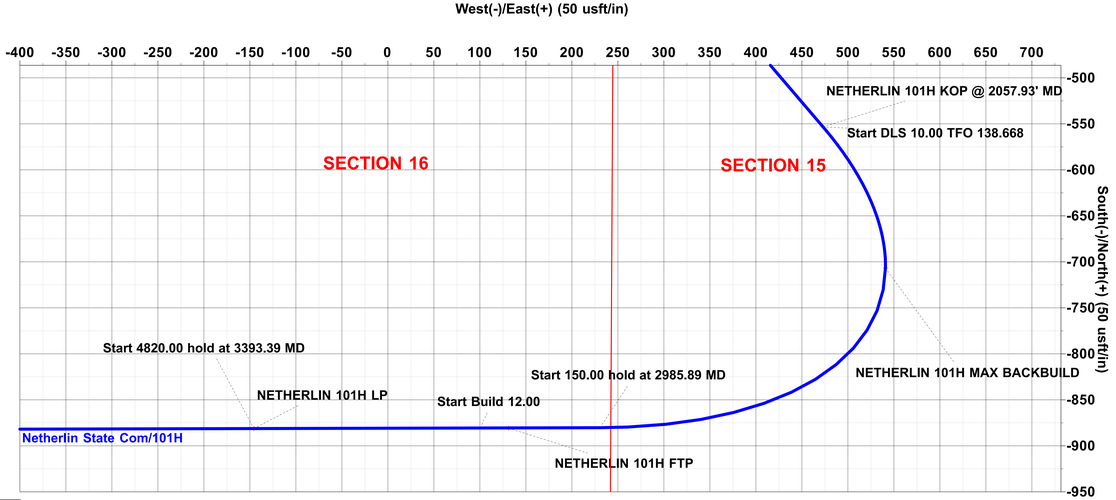
WELL DETAILS: 101H

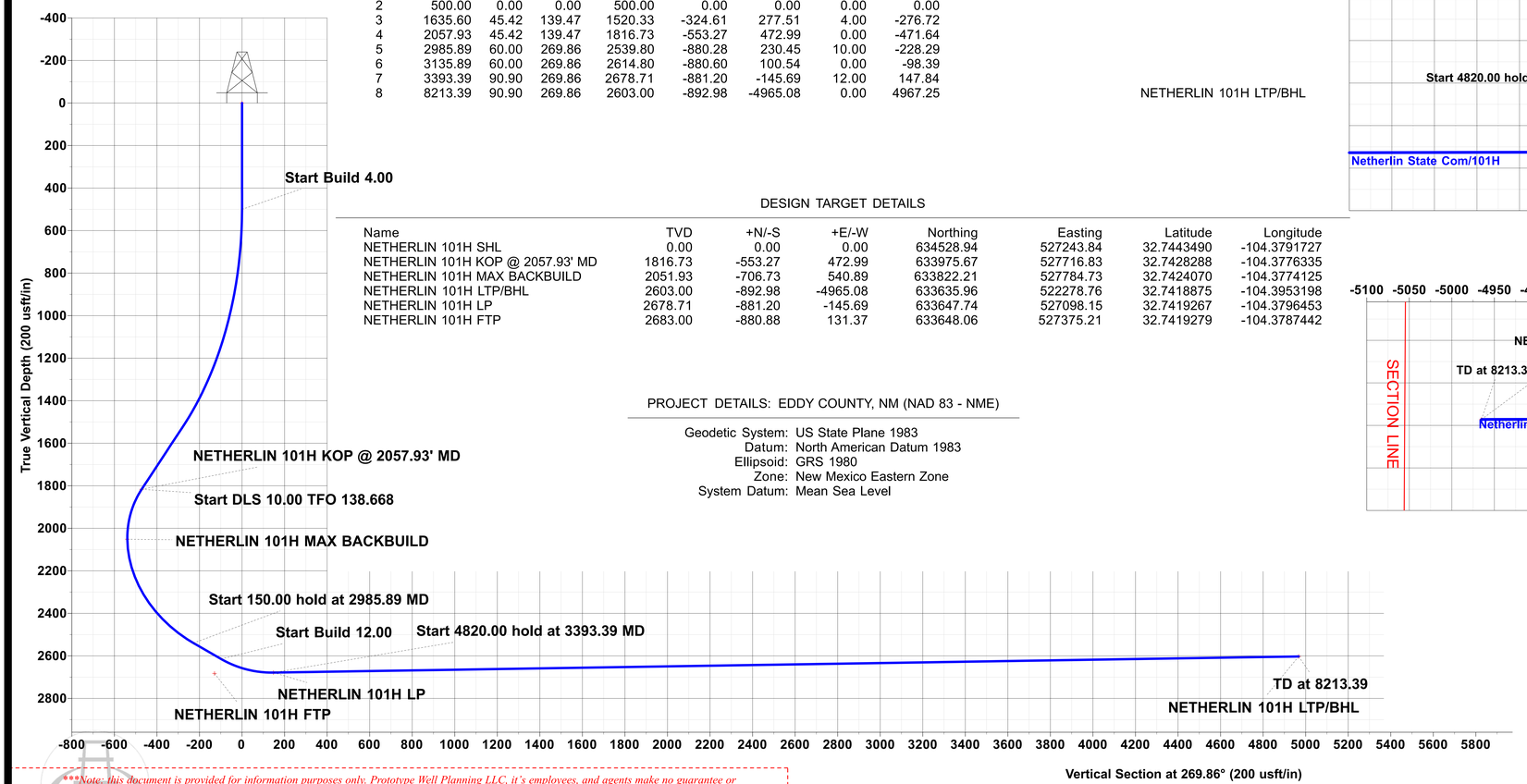
Rig Name: TBD RKB = 20' @ 3375.00usft (TBD)
Ground Level: 3355.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	634528.94	527243.84	32.7443490	-104.3791727

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	
3	1635.60	45.42	139.47	1520.33	-324.61	277.51	4.00	-276.72	
4	2057.93	45.42	139.47	1816.73	-553.27	472.99	0.00	-471.64	
5	2985.89	60.00	269.86	2539.80	-880.28	230.45	10.00	-228.29	
6	3135.89	60.00	269.86	2614.80	-880.60	100.54	0.00	-98.39	
7	3393.39	90.90	269.86	2678.71	-881.20	-145.69	12.00	147.84	
8	8213.39	90.90	269.86	2603.00	-892.98	-4965.08	0.00	4967.25	NETHERLIN 101H LTP/BHL



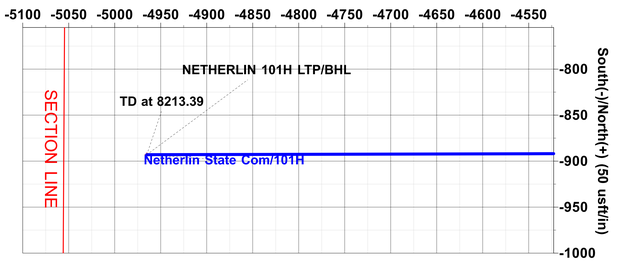


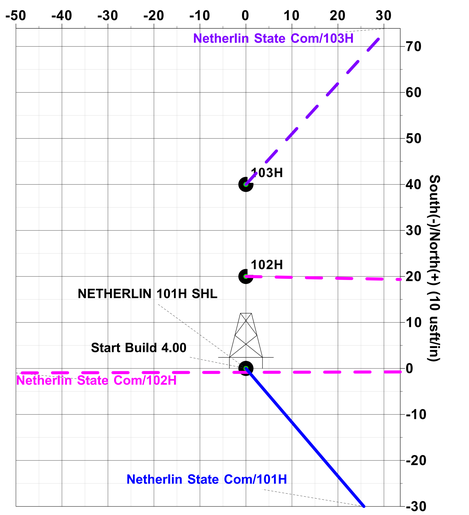
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
NETHERLIN 101H SHL	0.00	0.00	0.00	634528.94	527243.84	32.7443490	-104.3791727
NETHERLIN 101H KOP @ 2057.93' MD	1816.73	-553.27	472.99	633975.67	527716.83	32.7428288	-104.3776335
NETHERLIN 101H MAX BACKBUILD	2051.93	-706.73	540.89	633822.21	527784.73	32.7424070	-104.3774125
NETHERLIN 101H LTP/BHL	2603.00	-892.98	-4965.08	633635.96	522278.76	32.7418875	-104.3953198
NETHERLIN 101H LP	2678.71	-881.20	-145.69	633647.74	527098.15	32.7419267	-104.3796453
NETHERLIN 101H FTP	2683.00	-880.88	131.37	633648.06	527375.21	32.7419279	-104.3787442

PROJECT DETAILS: EDDY COUNTY, NM (NAD 83 - NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level





Plan: Plan 2r1 (101H/Wellbore #1)

Created By: PROTOTYPE WELL PLANNING / Date: 15:56, January 15 2024

SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD 83 - NME)
Netherlin State Com
101H

Wellbore #1

Plan: Plan 2r1

Standard Planning Report

15 January, 2024

SILVERBACK EXPLORATION

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 101H
Company:	SILVERBACK EXPLORATION	**TVD Reference:**	RKB = 20' @ 3375.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3375.00usft (TBD)
Site:	Netherlin State Com	**North Reference:**	Grid
Well:	101H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 2r1		

Project EDDY COUNTY, NM (NAD 83 - NME)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Netherlin State Com

Site Position:		**Northing:**	634,833.89 usft	**Latitude:**	32.7451871
From:	Map	**Easting:**	527,198.88 usft	**Longitude:**	-104.3793193
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	-0.025 °

Well 101H

Well Position	**+N/-S**	-304.95 usft	**Northing:**	634,528.94 usft	**Latitude:**	32.7443490
	+E/-W	44.96 usft	**Easting:**	527,243.84 usft	**Longitude:**	-104.3791727
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,355.00 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	07/05/23	6.720	60.186	47,504

Design Plan 2r1

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	269.86

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	0.000	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,635.60	45.42	139.47	1,520.33	-324.61	277.51	4.00	4.00	0.00	139.473	
2,057.93	45.42	139.47	1,816.73	-553.27	472.99	0.00	0.00	0.00	0.000	
2,985.89	60.00	269.86	2,539.80	-880.28	230.45	10.00	1.57	14.05	138.668	
3,135.89	60.00	269.86	2,614.80	-880.60	100.54	0.00	0.00	0.00	0.000	
3,393.39	90.90	269.86	2,678.71	-881.20	-145.69	12.00	12.00	0.00	0.000	
8,213.39	90.90	269.86	2,603.00	-892.98	-4,965.08	0.00	0.00	0.00	0.000	NETHERLIN 101H

SILVERBACK EXPLORATION

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 101H
Company:	SILVERBACK EXPLORATION	**TVD Reference:**	RKB = 20' @ 3375.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3375.00usft (TBD)
Site:	Netherlin State Com	**North Reference:**	Grid
Well:	101H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 2r1		

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
NETHERLIN 101H SHL									
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	4.00	139.47	599.92	-2.65	2.27	-2.26	4.00	4.00	0.00
700.00	8.00	139.47	699.35	-10.60	9.06	-9.03	4.00	4.00	0.00
800.00	12.00	139.47	797.81	-23.79	20.34	-20.28	4.00	4.00	0.00
900.00	16.00	139.47	894.82	-42.18	36.06	-35.95	4.00	4.00	0.00
1,000.00	20.00	139.47	989.91	-65.66	56.13	-55.97	4.00	4.00	0.00
1,100.00	24.00	139.47	1,082.61	-94.13	80.47	-80.24	4.00	4.00	0.00
1,200.00	28.00	139.47	1,172.47	-127.44	108.95	-108.64	4.00	4.00	0.00
1,300.00	32.00	139.47	1,259.05	-165.44	141.43	-141.03	4.00	4.00	0.00
1,400.00	36.00	139.47	1,341.94	-207.93	177.76	-177.26	4.00	4.00	0.00
1,500.00	40.00	139.47	1,420.73	-254.72	217.76	-217.14	4.00	4.00	0.00
1,600.00	44.00	139.47	1,495.02	-305.57	261.23	-260.49	4.00	4.00	0.00
1,635.60	45.42	139.47	1,520.33	-324.61	277.51	-276.72	4.00	4.00	0.00
1,700.00	45.42	139.47	1,565.52	-359.48	307.32	-306.44	0.00	0.00	0.00
1,800.00	45.42	139.47	1,635.71	-413.62	353.60	-352.59	0.00	0.00	0.00
1,900.00	45.42	139.47	1,705.89	-467.76	399.89	-398.75	0.00	0.00	0.00
2,000.00	45.42	139.47	1,776.08	-521.91	446.18	-444.90	0.00	0.00	0.00
2,057.93	45.42	139.47	1,816.73	-553.27	472.99	-471.64	0.00	0.00	0.00
NETHERLIN 101H KOP @ 2057.93' MD									
2,100.00	42.34	143.60	1,847.06	-576.07	491.15	-489.74	10.00	-7.34	9.81
2,150.00	38.89	149.16	1,885.03	-603.12	509.19	-507.72	10.00	-6.90	11.13
2,200.00	35.74	155.58	1,924.80	-629.91	523.28	-521.74	10.00	-6.29	12.84
2,250.00	32.99	162.99	1,966.09	-656.24	533.31	-531.70	10.00	-5.50	14.81
2,300.00	30.74	171.46	2,008.57	-681.91	539.19	-537.52	10.00	-4.49	16.94
2,350.00	29.12	180.95	2,051.93	-706.73	540.89	-539.16	10.00	-3.25	18.97
NETHERLIN 101H MAX BACKBUILD									
2,400.00	28.22	191.21	2,095.82	-730.50	538.39	-536.60	10.00	-1.80	20.53
2,450.00	28.12	201.81	2,139.93	-753.05	531.71	-529.87	10.00	-0.20	21.20
2,500.00	28.83	212.21	2,183.91	-774.21	520.90	-519.00	10.00	1.42	20.79
2,550.00	30.29	221.91	2,227.42	-793.80	506.04	-504.10	10.00	2.92	19.41
2,600.00	32.40	230.64	2,270.15	-811.70	487.25	-485.26	10.00	4.22	17.45
2,650.00	35.04	238.30	2,311.75	-827.74	464.67	-462.64	10.00	5.28	15.32
2,700.00	38.10	244.94	2,351.92	-841.83	438.47	-436.41	10.00	6.12	13.29
2,750.00	41.48	250.70	2,390.35	-853.84	408.85	-406.76	10.00	6.77	11.52
2,800.00	45.11	255.71	2,426.74	-863.69	376.03	-373.92	10.00	7.27	10.02
2,850.00	48.94	260.12	2,460.83	-871.30	340.27	-338.14	10.00	7.65	8.80
2,900.00	52.92	264.02	2,492.34	-876.62	301.84	-299.70	10.00	7.95	7.82
2,950.00	57.01	267.54	2,521.05	-879.60	261.03	-258.88	10.00	8.18	7.03
2,985.89	60.00	269.86	2,539.80	-880.28	230.45	-228.29	10.00	8.34	6.47
3,000.00	60.00	269.86	2,546.86	-880.31	218.23	-216.07	0.00	0.00	0.00
3,100.00	60.00	269.86	2,596.86	-880.53	131.62	-129.47	0.00	0.00	0.00
3,135.89	60.00	269.86	2,614.80	-880.60	100.54	-98.39	0.00	0.00	0.00
3,142.19	60.76	269.86	2,617.91	-880.62	95.06	-92.91	12.00	12.00	0.00
NETHERLIN 101H FTP									
3,150.00	61.69	269.86	2,621.67	-880.63	88.22	-86.07	12.00	12.00	0.00
3,175.00	64.69	269.86	2,632.95	-880.69	65.91	-63.76	12.00	12.00	0.00
3,200.00	67.69	269.86	2,643.04	-880.74	43.04	-40.89	12.00	12.00	0.00
3,225.00	70.69	269.86	2,651.92	-880.80	19.67	-17.52	12.00	12.00	0.00

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Project:	EDDY COUNTY, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3375.00usft (TBD)
Site:	Netherlin State Com	**North Reference:**	Grid
Well:	101H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 2r1		

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)
3,250.00	73.69	269.86	2,659.56	-880.86	-4.13	6.28	12.00	12.00	0.00
3,275.00	76.69	269.86	2,665.95	-880.92	-28.29	30.45	12.00	12.00	0.00
3,300.00	79.69	269.86	2,671.06	-880.98	-52.76	54.92	12.00	12.00	0.00
3,325.00	82.69	269.86	2,674.89	-881.04	-77.47	79.62	12.00	12.00	0.00
3,350.00	85.69	269.86	2,677.42	-881.10	-102.33	104.49	12.00	12.00	0.00
3,375.00	88.69	269.86	2,678.64	-881.16	-127.30	129.45	12.00	12.00	0.00
3,393.39	90.90	269.86	2,678.71	-881.20	-145.69	147.84	12.00	12.00	0.00
NETHERLIN 101H LP									
3,400.00	90.90	269.86	2,678.61	-881.22	-152.30	154.45	0.00	0.00	0.00
3,500.00	90.90	269.86	2,677.03	-881.46	-252.29	254.44	0.00	0.00	0.00
3,600.00	90.90	269.86	2,675.46	-881.71	-352.27	354.43	0.00	0.00	0.00
3,700.00	90.90	269.86	2,673.89	-881.95	-452.26	454.41	0.00	0.00	0.00
3,800.00	90.90	269.86	2,672.32	-882.20	-552.25	554.40	0.00	0.00	0.00
3,900.00	90.90	269.86	2,670.75	-882.44	-652.24	654.39	0.00	0.00	0.00
4,000.00	90.90	269.86	2,669.18	-882.69	-752.22	754.38	0.00	0.00	0.00
4,100.00	90.90	269.86	2,667.61	-882.93	-852.21	854.37	0.00	0.00	0.00
4,200.00	90.90	269.86	2,666.04	-883.17	-952.20	954.35	0.00	0.00	0.00
4,300.00	90.90	269.86	2,664.47	-883.42	-1,052.19	1,054.34	0.00	0.00	0.00
4,400.00	90.90	269.86	2,662.90	-883.66	-1,152.17	1,154.33	0.00	0.00	0.00
4,500.00	90.90	269.86	2,661.33	-883.91	-1,252.16	1,254.32	0.00	0.00	0.00
4,600.00	90.90	269.86	2,659.76	-884.15	-1,352.15	1,354.30	0.00	0.00	0.00
4,700.00	90.90	269.86	2,658.19	-884.40	-1,452.13	1,454.29	0.00	0.00	0.00
4,800.00	90.90	269.86	2,656.62	-884.64	-1,552.12	1,554.28	0.00	0.00	0.00
4,900.00	90.90	269.86	2,655.04	-884.88	-1,652.11	1,654.27	0.00	0.00	0.00
5,000.00	90.90	269.86	2,653.47	-885.13	-1,752.10	1,754.25	0.00	0.00	0.00
5,100.00	90.90	269.86	2,651.90	-885.37	-1,852.08	1,854.24	0.00	0.00	0.00
5,200.00	90.90	269.86	2,650.33	-885.62	-1,952.07	1,954.23	0.00	0.00	0.00
5,300.00	90.90	269.86	2,648.76	-885.86	-2,052.06	2,054.22	0.00	0.00	0.00
5,400.00	90.90	269.86	2,647.19	-886.11	-2,152.05	2,154.21	0.00	0.00	0.00
5,500.00	90.90	269.86	2,645.62	-886.35	-2,252.03	2,254.19	0.00	0.00	0.00
5,600.00	90.90	269.86	2,644.05	-886.60	-2,352.02	2,354.18	0.00	0.00	0.00
5,700.00	90.90	269.86	2,642.48	-886.84	-2,452.01	2,454.17	0.00	0.00	0.00
5,800.00	90.90	269.86	2,640.91	-887.08	-2,552.00	2,554.16	0.00	0.00	0.00
5,900.00	90.90	269.86	2,639.34	-887.33	-2,651.98	2,654.14	0.00	0.00	0.00
6,000.00	90.90	269.86	2,637.77	-887.57	-2,751.97	2,754.13	0.00	0.00	0.00
6,100.00	90.90	269.86	2,636.20	-887.82	-2,851.96	2,854.12	0.00	0.00	0.00
6,200.00	90.90	269.86	2,634.62	-888.06	-2,951.95	2,954.11	0.00	0.00	0.00
6,300.00	90.90	269.86	2,633.05	-888.31	-3,051.93	3,054.09	0.00	0.00	0.00
6,400.00	90.90	269.86	2,631.48	-888.55	-3,151.92	3,154.08	0.00	0.00	0.00
6,500.00	90.90	269.86	2,629.91	-888.79	-3,251.91	3,254.07	0.00	0.00	0.00
6,600.00	90.90	269.86	2,628.34	-889.04	-3,351.89	3,354.06	0.00	0.00	0.00
6,700.00	90.90	269.86	2,626.77	-889.28	-3,451.88	3,454.04	0.00	0.00	0.00
6,800.00	90.90	269.86	2,625.20	-889.53	-3,551.87	3,554.03	0.00	0.00	0.00
6,900.00	90.90	269.86	2,623.63	-889.77	-3,651.86	3,654.02	0.00	0.00	0.00
7,000.00	90.90	269.86	2,622.06	-890.02	-3,751.84	3,754.01	0.00	0.00	0.00
7,100.00	90.90	269.86	2,620.49	-890.26	-3,851.83	3,854.00	0.00	0.00	0.00
7,200.00	90.90	269.86	2,618.92	-890.50	-3,951.82	3,953.98	0.00	0.00	0.00
7,300.00	90.90	269.86	2,617.35	-890.75	-4,051.81	4,053.97	0.00	0.00	0.00
7,400.00	90.90	269.86	2,615.78	-890.99	-4,151.79	4,153.96	0.00	0.00	0.00
7,500.00	90.90	269.86	2,614.21	-891.24	-4,251.78	4,253.95	0.00	0.00	0.00
7,600.00	90.90	269.86	2,612.63	-891.48	-4,351.77	4,353.93	0.00	0.00	0.00
7,700.00	90.90	269.86	2,611.06	-891.73	-4,451.76	4,453.92	0.00	0.00	0.00
7,800.00	90.90	269.86	2,609.49	-891.97	-4,551.74	4,553.91	0.00	0.00	0.00

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Design:	Plan 2r1		

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7,900.00	90.90	269.86	2,607.92	-892.21	-4,651.73	4,653.90	0.00	0.00	0.00
8,000.00	90.90	269.86	2,606.35	-892.46	-4,751.72	4,753.88	0.00	0.00	0.00
8,100.00	90.90	269.86	2,604.78	-892.70	-4,851.71	4,853.87	0.00	0.00	0.00
8,200.00	90.90	269.86	2,603.21	-892.95	-4,951.69	4,953.86	0.00	0.00	0.00
8,213.39	90.90	269.86	2,603.00	-892.98	-4,965.08	4,967.25	0.00	0.00	0.00
NETHERLIN 101H LTP/BHL									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
NETHERLIN 101H SH - plan hits target center - Point	0.00	360.00	0.00	0.00	0.00	634,528.94	527,243.84	32.7443490	-104.3791727
NETHERLIN 101H KO - plan hits target center - Point	0.00	360.00	1,816.73	-553.27	472.99	633,975.67	527,716.83	32.7428288	-104.3776335
NETHERLIN 101H MI - plan hits target center - Point	0.00	360.00	2,051.93	-706.73	540.89	633,822.21	527,784.73	32.7424070	-104.3774125
NETHERLIN 101H LT - plan hits target center - Point	0.00	360.00	2,603.00	-892.98	-4,965.08	633,635.96	522,278.76	32.7418875	-104.3953198
NETHERLIN 101H LP - plan hits target center - Point	0.00	360.00	2,678.71	-881.20	-145.69	633,647.74	527,098.15	32.7419267	-104.3796453
NETHERLIN 101H FT - plan misses target center by 74.53usft at 3142.19usft MD (2617.91 TVD, -880.62 N, 95.06 E) - Point	0.00	0.00	2,683.00	-880.88	131.37	633,648.06	527,375.21	32.7419279	-104.3787442