Form C-101

August 1, 2011 Permit 315163

<u>District I</u> 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

knowledge and belief.

⊠, if applicable. Signature: Printed Name:

Email Address:

Title:

Date:

I further certify I have complied with 19.15.14.9 (A) NMAC ⊠ and/or 19.15.14.9 (B) NMAC

Phone: 303-513-0990

Electronically filed by Matthew Alley

Chief Financial Officer

4/29/2022

malley@silverbackexp.com

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

		AIILIO	AHOH	I OITI LIMI	I IU DRILL, RE	LIVILIX	DLLI LI	1,1 LOODAC	it, OILADD				
Operator Nar										2. OGRII	O Number		
	erback Operating II	, LLC									330968		
	West, Suite 201									3. API N			
San	Antonio, TX 78257	,									30-015-4949	92	
4. Property Cod	е		5. Prope	erty Name						6. Well N	lo.		
3328	311			Schudde 27							101H		
					7. Sur	face Loca	tion						
UL - Lot	Section	Township		Range	Lot Idn	Feet Fron	n	N/S Line	Feet From	1	E/W Line	County	
D	26	1	18S	26E			272	N	40	00	W		Eddy
		•			8. Proposed I	Rottom Ho	le Locatio	n					
UL - Lot	Section	Township		Range	Lot Idn	Feet Fro		N/S Line	Feet From		E/W Line	County	
D	27		8S	26E	D		330	N		00	_, W	Journey	Eddy
	L	L			I			1				1	
ATOKA OLOD	IETA VEGO				9. Po	I Informa	tion				0050		
ATOKA;GLOR	IETA-YESO										3250		
					Additiona	Well Info	rmation						
					13. Cable/Rotary		14. Lease		15. Grd		Elevation		
New	Well		OIL					Private		3313			
16. Multiple		17. Propo		ı	18. Formation		19. Contra	ctor	20. Spt				
N			8535		Yeso					5/15/2	2022		
Depth to Groun	d water				Distance from neares	t fresh wate	er well		Distanc	e to neares	st surface water		
─ We will be u	sing a closed-loo	p system in li	ieu of lin	ed pits									
					21. Proposed Cas	ing and C	ement Pro	ogram					
Type	Hole Size	Casin	g Size	C	asing Weight/ft		Setting De		Sacks of 0	Cement		Estimated ⁻	TOC
Surf	12.25	9.6	325		36		1200		290)		0	
Prod	8.75		7		32		3450		149	0		0	
Prod	8.75	5	.5		20		8535		149	0		3450	
		•		_							•		
					asing/Cement Pro		itional Co	mments					
Joint type on	surface casing is E	BTC; Joint typ	e on inte	ermediate and p	roduction casing is	PIRS1.							
					22. Proposed Blo	wout Prev	ention Pro	ogram					
	Туре			Wo	rking Pressure			Test Press	sure		Mar	ufacturer	
Double Ram 5000					5000			5000			S	haffer	
l			-1				-1			- II			
23 I hereby o	ertify that the inform	nation diven a	ahove is	true and comple	ete to the best of m	,			OIL CONSERV	ATION DI	VISION		
23. Thereby of		nadon given e	2000 IS	a ao ana compie	ALO LO LITO DOGLO OI III	'			CIL CONCLINA		1.0.0.1		

Approved By:

Approved Date:

Title:

Katherine Pickford

Expiration Date: 5/2/2024

Geoscientist

5/2/2022

Conditions of Approval Attached

Phone: (575) 748-1283 Fax: (575) 748-9720

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

<u>DISTRICT IV</u> 1220 S. St. Francis Dr., Santa Fe, N.M. 87505 Phone: (505) 476-3480 Fax: (505) 476-3482

DISTRICT III

Artesia, N.M. 88210

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240 State of New Mexico Energy, Minerals & Natural Resources Department Phone: (575) 393-6161 Fax: (575) 393-0720 DISTRICT II 811 S. First St.,

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

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

☐ AMENDED REPORT

Santa Fe, N.M. 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015 -49492	^a Pool Code 3250					
Property Code 332811	⁶ Property Schudd	Well Number				
70GRID №. 330968	-	*Operator Name Silverback Operating II, LLC				

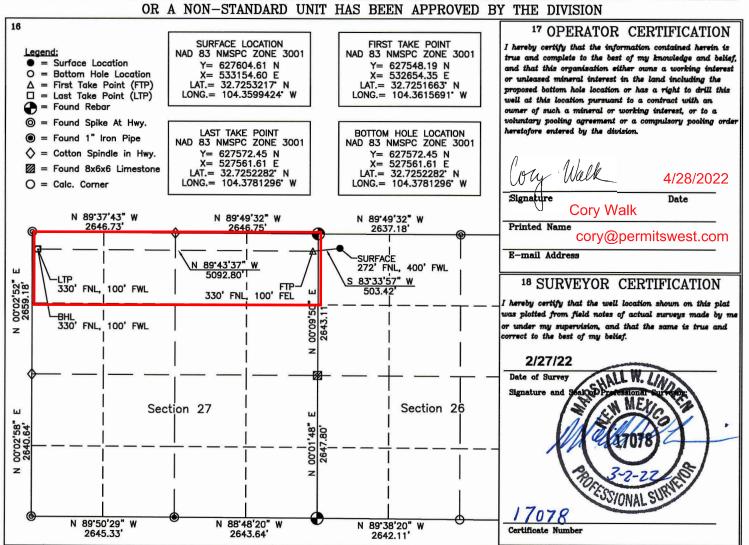
10 Surface Location

			44		E1 U 190 19	THE R PARTY IN THE PARTY IN	Drock test			_
D	26	18 S	26 E		272	North	400	West	Eddy	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	

11 Bottom Hole Location If Different From Surface

			Bottom field Botation in Different From Barrace												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County						
D	27	18 S	26 E		330	North	100	West	Eddy						
12 Dedicated Acre			18 Joint or	Infill 14 Cor	solidation Code	15 Order No.									
					abondunon code	order no.									
1 16	160			- 1											

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



Form APD Conditions

Permit 315163

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District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

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

drilling fluids and solids must be contained in a steel closed loop system

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

PERMIT CONDITIONS OF APPROVAL

1 .	lame and Address:	API Number:		
	Silverback Operating II, LLC [330968]	30-015-49492		
	IH10 West, Suite 201	Well:		
	San Antonio, TX 78257	Schudde 27 #101H		
OCD	Condition			
Reviewer				
kpickford	Notify OCD 24 hours prior to casing & cement			
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104			
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud			
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operato	r shall drill without interruption through the fresh		
	water zone or zones and shall immediately set in cement the water protection string	·		
knickford	Cement is required to circulate on both surface and intermediate1 strings of casing			

kpickford Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud,

Build: 1°/100

Hold: 3.78° Inc, 111.88° Azm

Silverback Exploration

Schudde 27 101H Eddy County, NM (NAD 83 NME) Job No. WT-22-*** Plan 0.5





300

400

600

700

900-

1100

1200-

1300

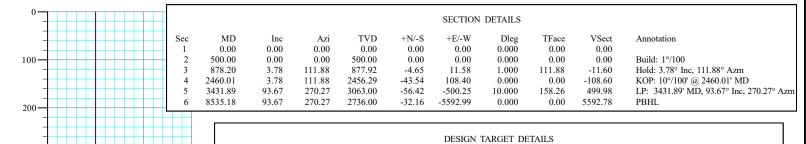
1400

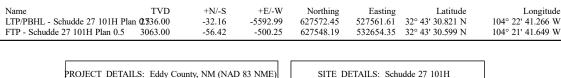
1500

1700-

-100

True Vertical Depth (200 usft/in)





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

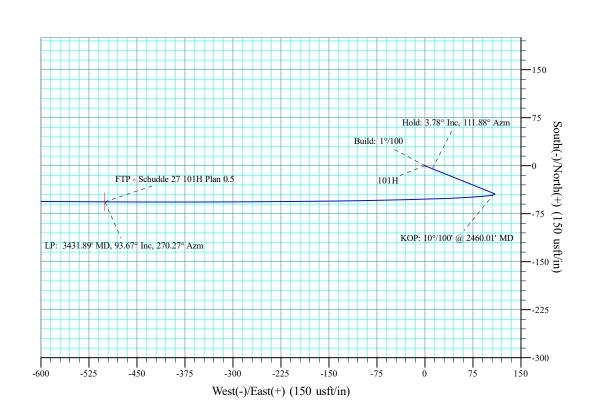
System Datum: Mean Sea Level

Site Centre Northing: 627604.61 Easting: 533154.60 Positional Uncertainity: 0.00 Convergence: -0.01 Local North: Grid



True North: 0.019 Magnetic North: 6.929

> Magnetic Field Strength: 47688.4nT Dip Angle: 60.39° Date: 5/16/2022 Model: MVHD



Drawn By: KRN Date Created: 12/22/2021 Date Revised: 4/14/2022 File:Silverback - Schudde 27 101H - Plan 0.5 - Int.wpc

100 Vertical Section at 270.27° (200 usft/in)

200

300



Silverback Exploration

Schudde 27 101H **Eddy County, NM (NAD 83 NME)** Job No. WT-22-*** Plan 0.5



	SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00			
2	500.00	0.00	0.00	500.00	0.00	0.00	0.000	0.00	0.00		Build: 1°/100	
3	878.20	3.78	111.88	877.92	-4.65	11.58	1.000	111.88	-11.60		Hold: 3.78° Inc, 111.88° Azm	
4 2	2460.01	3.78	111.88	2456.29	-43.54	108.40	0.000	0.00	-108.60		KOP: 10°/100' @ 2460.01' MD	
5 3	3431.89	93.67	270.27	3063.00	-56.42	-500.25	10.000	158.26	499.98	FTP - Schudde 27 101H Plan 0.5	LP: 3431.89' MD, 93.67° Inc, 270.27° Azm	
6 8	8535.18	93.67	270.27	2736.00	-32.16	-5592.99	0.000	0.00	5592.78	LTP/PBHL - Schudde 27 101H Plan 0.5	PBHL	

SITE DETAILS: Schudde 27 101H Site Centre Northing: 627604.61

Easting: 533154.60

Positional Uncertainity: 0.00 Convergence: -0.01 Local North: Grid

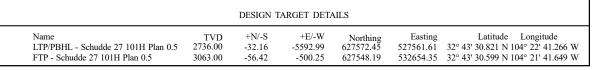
PROJECT DETAILS: Eddy County, NM (NAD 83 NME 5/2/2022 1:20:20 PM

Geodetic System: US State Plane 1983 Datum: North American Datum 1983

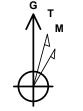
Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

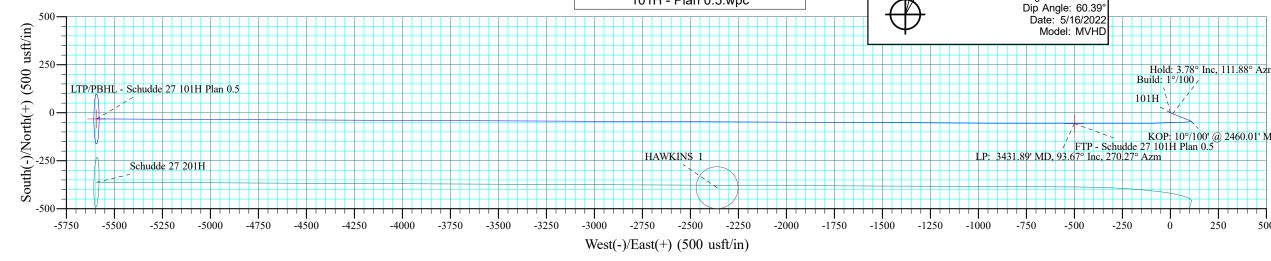


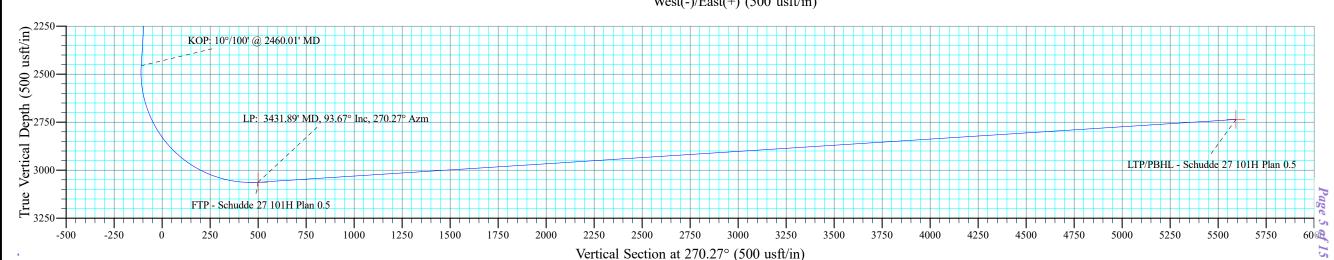
Drawn By: KRN Date Created: 12/22/2021 Date Revised: 4/14/2022 File:Silverback - Schudde 27 101H - Plan 0.5.wpc



Azimuths to Grid North True North: 0.01 Magnetic North: 6.92°

Magnetic Field Strength: 47688.4nT





Aim Directional Services, LLC



Planning Report



Database: Company: RTOC- EDM 5000.1 Single User Db

Silverback Exploration

Project: Site:

Eddy County, NM (NAD 83 NME)

Schudde 27 101H

Well: 101H Wellbore: **Planning** Design: Plan 0.5

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 101H

Well @ 3337.75usft (18.75' KB) Well @ 3337.75usft (18.75' KB)

Minimum Curvature

Project Eddy County, NM (NAD 83 NME)

Map System: Geo Datum:

Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Schudde 27 101H

Site Position: From:

Мар

Northing: Easting:

627,604.61 usft 533,154.60 usft

Latitude: Longitude:

32° 43' 31.158 N 104° 21' 35.793 W

Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " **Grid Convergence:** -0.01°

Well 101H

Well Position

0.00 usft +N/-S 0.00 usft +E/-W

Northing: Easting:

627.604.61 usft 533,154.60 usft

Latitude: Longitude:

32° 43' 31.158 N 104° 21' 35.793 W

Position Uncertainty 0.00 usft Wellhead Elevation: **Ground Level:** 3,319.00 usft

Wellbore **Planning**

Declination **Model Name Dip Angle** Field Strength Magnetics Sample Date (°) (°) (nT) **MVHD** 5/16/2022 6.90 60.39 47.688.421

Design Plan 0.5

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.00

0.00

270.27

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°)

0.00

Plan Survey Tool Program

Depth To

(usft)

Survey (Wellbore)

Date 4/14/2022

Tool Name

0.00

Remarks

0.00

Depth From

(usft)

8,535.18 Plan 0.5 (Planning) MWD+HRGM

OWSG MWD + HRGM

Plan Section	ıs									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.000	0.000	0.000	0.00	
878.20	3.78	111.88	877.92	-4.65	11.58	1.000	1.000	0.000	111.88	
2,460.01	3.78	111.88	2,456.29	-43.54	108.40	0.000	0.000	0.000	0.00	
3,431.89	93.67	270.27	3,063.00	-56.42	-500.25	10.000	9.249	16.297	158.26 F	TP - Schudde 27 '
8,535.18	93.67	270.27	2,736.00	-32.16	-5,592.99	0.000	0.000	0.000	0.00 L	ΓΡ/PBHL - Schudα

Aim Directional Services, LLC





Database: Company: Project: RTOC- EDM 5000.1 Single User Db

Silverback Exploration

Eddy County, NM (NAD 83 NME)

Site: Schudde 27 101H

Well: 101H
Wellbore: Planning
Design: Plan 0.5

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 101H

Well @ 3337.75usft (18.75' KB)

Well @ 3337.75usft (18.75' KB)

Grid

Minimum Curvature

anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.000	0.000	0.000
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.000	0.000	0.000
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.000	0.000	0.000
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.000	0.000	0.000
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.000	0.000	0.000
Build: 1°/1									
600.00	1.00	111.88	599.99	-0.33	0.81	-0.81	1.000	1.000	0.000
700.00	2.00	111.88	699.96	-1.30	3.24	-3.24	1.000	1.000	0.000
800.00	3.00	111.88	799.86	-2.93	7.29	-7.30	1.000	1.000	0.000
878.20	3.78	111.88	877.92	-4.65	11.58	-11.60	1.000	1.000	0.000
	° Inc, 111.88° <i>A</i>								
900.00	3.78	111.88	899.68	-5.19	12.91	-12.94	0.000	0.000	0.000
1,000.00	3.78	111.88	999.46	-7.64	19.03	-19.07	0.000	0.000	0.000
1,100.00	3.78	111.88	1,099.24	-10.10	25.15	-25.20	0.000	0.000	0.000
1,200.00	3.78	111.88	1,199.02	-12.56	31.28	-31.33	0.000	0.000	0.000
1,300.00	3.78	111.88	1,298.81	-15.02	37.40	-37.47	0.000	0.000	0.000
1,400.00	3.78	111.88	1,398.59	-17.48	43.52	-43.60	0.000	0.000	0.000
1,500.00	3.78	111.88	1,498.37	-19.94	49.64	-49.73	0.000	0.000	0.000
1,600.00	3.78	111.88	1,598.15	-22.39	55.76	-55.86	0.000	0.000	0.000
1,700.00	3.78	111.88	1,697.94	-24.85	61.88	-62.00	0.000	0.000	0.000
1,800.00	3.78	111.88	1,797.72	-27.31	68.00	-68.13	0.000	0.000	0.000
1,900.00	3.78	111.88	1,897.50	-29.77	74.12	-74.26	0.000	0.000	0.000
2,000.00	3.78	111.88	1,997.28	-32.23	80.24	-80.39	0.000	0.000	0.000
2,100.00	3.78	111.88	2,097.06	-34.69	86.36	-86.53	0.000	0.000	0.000
2,200.00	3.78	111.88	2,196.85	-37.14	92.48	-92.66	0.000	0.000	0.000
2,300.00	3.78	111.88	2,296.63	-39.60	98.60	-98.79	0.000	0.000	0.000
2,400.00	3.78	111.88	2,396.41	-42.06	104.72	-104.92	0.000	0.000	0.000
2,460.01	3.78	111.88	2,456.29	-43.54	108.40	-108.60	0.000	0.000	0.000
•	100' @ 2460.01		2,.00.20				0.000	0.000	0.000
2,500.00	1.48	199.31	2,496.25	-44.52	109.45	-109.66	10.000	-5.751	218.622
2,550.00	5.66	255.91	2,546.15	-45.73	106.84	-107.06	10.000	8.358	113.190
2,600.00	10.58	262.66	2,595.63	-46.91	99.90	-100.12	10.000	9.833	13.508
2,650.00	15.55	265.14	2,644.32	-48.07	88.66	-88.89	10.000	9.939	4.961
2,700.00	20.53	266.44	2,691.85	-49.18	73.22	-73.45	10.000	9.968	2.596
2,750.00	25.52	267.25	2,737.85	-50.24	53.70	-53.94	10.000	9.980	1.615
2,800.00	30.51	267.81	2,781.98	-51.25	30.24	-30.48	10.000	9.986	1.115
2,850.00	35.51	268.22	2,823.89	-52.18	3.03	-3.27	10.000	9.990	0.827
2,900.00	40.51	268.54	2,863.28	-53.05	-27.74	27.49	10.000	9.992	0.647
2,950.00	45.50	268.81	2,899.83	-53.83	-61.82	61.57	10.000	9.994	0.527
3,000.00	50.50	269.03	2,933.28	-54.53	-98.96	98.70	10.000	9.995	0.443
3,050.00	55.50	269.22	2,963.36	-55.14	-138.88	138.61	10.000	9.995	0.384
3,100.00	60.50	269.39	2,989.85	-55.65	-181.26	181.00	10.000	9.996	0.340
3,150.00	65.49	269.54	3,012.55	-56.06	-225.79	225.53	10.000	9.996	0.308
3,200.00	70.49	269.69	3,031.28	-56.37	-272.13	271.86	10.000	9.997	0.285
3,250.00	75.49	269.82	3,045.90	-56.58	-319.93	319.66	10.000	9.997	0.267
3,300.00	80.49	269.95	3,056.30	-56.68	-368.82	368.55	10.000	9.997	0.256
3,350.00	85.49	270.07	3,062.40	-56.67	-418.43	418.16	10.000	9.997	0.248
3,400.00	90.49	270.19	3,064.16	-56.55	-468.38	468.11	10.000	9.997	0.245
3,431.89	93.67	270.27	3,063.00	-56.42	-500.25	499.98	10.000	9.997	0.245
·	89' MD, 93.67°			-50.42	-500.25	433.30	10.000	J.331	0.243
3,500.00	93.67	270.27	3,058.64	-56.10	-568.22	567.95	0.000	0.000	0.000
3,600.00	93.67	270.27	3,052.23	-55.62	-668.01	667.74	0.000	0.000	0.000
3,700.00	93.67	270.27	3,045.82	-55.15	-767.80	767.54	0.000	0.000	0.000

Aim Directional Services, LLC





Database: Company: RTOC- EDM 5000.1 Single User Db

Silverback Exploration

Project: Eddy County, NM (NAD 83 NME)

Site: Schudde 27 101H

Well: 101H
Wellbore: Planning
Design: Plan 0.5

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 101H

Well @ 3337.75usft (18.75' KB)

Well @ 3337.75usft (18.75' KB)

Grid

Minimum Curvature

_									
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,800.00	93.67	270.27	3,039.41	-54.67	-867.60	867.33	0.000	0.000	0.000
3,900.00	93.67	270.27	3,033.01	-54.19	-967.39	967.13	0.000	0.000	0.000
4,000.00	93.67	270.27	3,026.60	-53.72	-1,067.18	1,066.92	0.000	0.000	0.000
4,100.00	93.67	270.27	3,020.19	-53.24	-1,166.98	1,166.71	0.000	0.000	0.000
4,200.00	93.67	270.27	3,013.78	-52.77	-1,266.77	1,266.51	0.000	0.000	0.000
4,300.00	93.67	270.27	3,007.37	-52.29	-1,366.56	1,366.30	0.000	0.000	0.000
4,400.00	93.67	270.27	3,000.97	-51.82	-1,466.36	1,466.10	0.000	0.000	0.000
4,500.00	93.67	270.27	2,994.56	-51.34	-1,566.15	1,565.89	0.000	0.000	0.000
4,600.00	93.67	270.27	2,988.15	-50.87	-1,665.94	1,665.69	0.000	0.000	0.000
4,700.00	93.67	270.27	2,981.74	-50.39	-1,765.74	1,765.48	0.000	0.000	0.000
4,800.00	93.67	270.27	2,975.34	-49.92	-1,865.53	1,865.28	0.000	0.000	0.000
4,900.00	93.67	270.27	2,968.93	-49.44	-1,965.33	1,965.07	0.000	0.000	0.000
5,000.00	93.67	270.27	2,962.52	-48.97	-2,065.12	2,064.86	0.000	0.000	0.000
5,100.00	93.67	270.27	2,956.11	-48.49	-2,164.91	2,164.66	0.000	0.000	0.000
5,200.00	93.67	270.27	2,949.71	-48.01	-2,264.71	2,264.45	0.000	0.000	0.000
5,300.00	93.67	270.27	2,943.30	-47.54	-2,364.50	2,364.25	0.000	0.000	0.000
5,400.00	93.67	270.27	2,936.89	-47.06	-2,464.29	2,464.04	0.000	0.000	0.000
5,500.00	93.67	270.27	2,930.48	-46.59	-2,564.09	2,563.84	0.000	0.000	0.000
5,600.00	93.67	270.27	2,924.08	-46.11	-2,663.88	2,663.63	0.000	0.000	0.000
5,700.00	93.67	270.27	2,917.67	-45.64	-2,763.67	2,763.43	0.000	0.000	0.000
5,800.00	93.67	270.27	2,911.26	-45.16	-2,863.47	2,863.22	0.000	0.000	0.000
5,900.00	93.67	270.27	2,904.85	-44.69	-2,963.26	2,963.02	0.000	0.000	0.000
6,000.00	93.67	270.27	2,898.44	-44.21	-3,063.05	3,062.81	0.000	0.000	0.000
6,100.00	93.67	270.27	2,892.04	-43.74	-3,162.85	3,162.60	0.000	0.000	0.000
6,200.00	93.67	270.27	2,885.63	-43.26	-3,262.64	3,262.40	0.000	0.000	0.000
6,300.00	93.67	270.27	2,879.22	-42.79	-3,362.43	3,362.19	0.000	0.000	0.000
6,400.00	93.67	270.27	2,872.81	-42.31	-3,462.23	3,461.99	0.000	0.000	0.000
6,500.00	93.67	270.27	2,866.41	-41.83	-3,562.02	3,561.78	0.000	0.000	0.000
6,600.00	93.67	270.27	2,860.00	-41.36	-3,661.81	3,661.58	0.000	0.000	0.000
6,700.00	93.67	270.27	2,853.59	-40.88	-3,761.61	3,761.37	0.000	0.000	0.000
6,800.00	93.67	270.27	2,847.18	-40.41	-3,861.40	3,861.17	0.000	0.000	0.000
6,900.00	93.67	270.27	2,840.78	-39.93	-3,961.19	3,960.96	0.000	0.000	0.000
7,000.00	93.67	270.27	2,834.37	-39.46	-4,060.99	4,060.75	0.000	0.000	0.000
7,100.00	93.67	270.27	2,827.96	-38.98	-4,160.78	4,160.55	0.000	0.000	0.000
7,200.00	93.67	270.27	2,821.55	-38.51	-4,260.57	4,260.34	0.000	0.000	0.000
7,300.00	93.67	270.27	2,815.15	-38.03	-4,360.37	4,360.14	0.000	0.000	0.000
7,400.00	93.67	270.27	2,808.74	-37.56	-4,460.16	4,459.93	0.000	0.000	0.000
7,500.00	93.67	270.27	2,802.33	-37.08	-4,559.95	4,559.73	0.000	0.000	0.000
7,600.00	93.67	270.27	2,795.92	-36.61	-4,659.75	4,659.52	0.000	0.000	0.000
7,700.00	93.67	270.27	2,789.52	-36.13	-4,759.54	4,759.32	0.000	0.000	0.000
7,800.00	93.67	270.27	2,783.11	-35.65	-4,859.33	4,859.11	0.000	0.000	0.000
7,900.00	93.67	270.27	2,776.70	-35.18	-4,959.13	4,958.91	0.000	0.000	0.000
8,000.00	93.67	270.27	2,770.29	-34.70	-5,058.92	5,058.70	0.000	0.000	0.000
8,100.00	93.67	270.27	2,763.88	-34.23	-5,158.71	5,158.49	0.000	0.000	0.000
8,200.00	93.67	270.27	2,757.48	-33.75	-5,258.51	5,258.29	0.000	0.000	0.000
8,300.00 8,400.00 8,500.00 8,535.18 PBHL	93.67 93.67 93.67 93.67	270.27 270.27 270.27 270.27	2,751.07 2,744.66 2,738.25 2,736.00	-33.28 -32.80 -32.33 -32.16	-5,358.30 -5,458.09 -5,557.89 -5,592.99	5,358.08 5,457.88 5,557.67 5,592.78	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

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Aim Directional Services, LLC



Planning Report



Database: Company: RTOC- EDM 5000.1 Single User Db

Silverback Exploration

Project: Eddy County, NM (NAD 83 NME)
Site: Schudde 27 101H

Well: 101H
Wellbore: Planning
Design: Plan 0.5

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 101H

Well @ 3337.75usft (18.75' KB) Well @ 3337.75usft (18.75' KB)

Grid

Minimum Curvature

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
LTP/PBHL - Schudde - plan hits target ce - Point	0.00 enter	360.00	2,736.00	-32.16	-5,592.99	627,572.45	527,561.61	32° 43' 30.821 N	104° 22' 41.266 W
FTP - Schudde 27 10 ⁻ - plan hits target ce - Point	0.00 enter	360.00	3,063.00	-56.42	-500.25	627,548.19	532,654.35	32° 43′ 30.599 N	104° 21' 41.649 W

Casin	ng Points							
	M	leasured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (")	Hole Diameter (")	
		1,200.98	1,200.00	Casing		9-5/8	12-1/4	

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	Comment
(usft)	(usft)	(usft)	(usft)	
500.00	500.00	0.00	0.00	Build: 1°/100
878.20	877.92	-4.65	11.58	Hold: 3.78° Inc, 111.88° Azm
2,460.01	2,456.29	-43.54	108.40	KOP: 10°/100' @ 2460.01' MD
3,431.89	3,063.00	-56.42	-500.25	LP: 3431.89' MD, 93.67° Inc, 270.27° Azm
8,535.18	2,736.00	-32.16	-5,592.99	PBHL

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 <u>Effective May 25, 2021</u>

Operator: Silverback Operating II, LLC			OGRID:	330968	Date:	_04 / _28 / 2022	
II. Type: ☑ Original	☐ Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C □ 19.15.27.9.D((6)(b) NMAC □	Other.	
If Other, please describ	e:						_
III. Well(s): Provide the be recompleted from a					wells proposed to	be drilled or proposed	to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D	
Schudde 27 #101H	30-015-	D-26-18S-26E	272 FNL 400 FWL	500	750	3600	
V. Anticipated Schedu proposed to be recompl Well Name					Initial I	Flow First Productio	
Schudde 27 #101H	30-015-	05/15/2022	07/01/2022	07/15/2022	08/01/20	022 08/10/2022	
VI. Separation Equipout VII. Operational Praces Subsection A through Figure VIII. Best Manageme during active and plann	etices: Attac F of 19.15.27.8 I	h a complete descr NMAC.	iption of the ac	tions Operator will	l take to comply	with the requirements	of

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

XII. Line Capacity. The natural	gas gathering system \square wi	ill □ will not have	capacity to gather	100% of the anticipated	l natural gas
production volume from the well	prior to the date of first prod	duction.			

XIII. Line Pressure. Operator \square does \square does not anticipate that its existing we	ell(s) connected to the same segment, or portion, of the
natural gas gathering system(s) described above will continue to meet anticipated	

\neg	A 44 1 4	O 4 9	1 .		1 4	•	4 41	1.1"	
	. Attach (Operator	s blan i	ro manage	production	in response	to the increa	sed line press	ure

XIV. C	onfidentiality: \square Operator ass	erts confidentiality purs	uant to Section	n 71-2-8 NMSA	1978 for the	information	provided in
Section	2 as provided in Paragraph (2) o	f Subsection D of 19.15.2	27.9 NMAC, a	nd attaches a full	description of	the specific	information
for which	ch confidentiality is asserted and	the basis for such asserti	ion.				

Section 3 - Certifications Effective May 25, 2021

	<u>Effective May 25, 2021</u>
Operator certifies that, a	after reasonable inquiry and based on the available information at the time of submittal:
one hundred percent of	e to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the a into account the current	e able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. **Dox, Operator will select one of the following:*
Well Shut-In. ☐ Opera D of 19.15.27.9 NMAC	tor will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection c; or
	Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential ses 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.

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 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. Flash volumes were estimated using the high volume case and process modeling software. Gas from the VRU outlet 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
- c) Compression on lease gas lift or gas compression as required
- d) 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