eceived by OCD: 8/25/2023 6:29:50 Office	<i>PM</i> State of New Mexico Energy, Minerals and Natural Resources	Form C-103 of Revised July 18, 2013
<u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283	OIL CONSERVATION DIVISION	WELL API NO. 30-015-53757
811 S. First St., Artesia, NM 88210 District III – (505) 334-6178	1220 South St. Francis Dr.	5. Indicate Type of Lease
$\frac{District III}{1000 \text{ Rio Brazos Rd., Aztec, NM 87410}}$		STATE X FEE
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
87505		E101670008
	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
	GALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A CATION FOR PERMIT" (FORM C-101) FOR SUCH	GREASEWOOD 5 STATE COM
	Gas Well 🗌 Other	8. Well Number 201H
2 Name of Organitar	ACK OPERATING II, LLC	9. OGRID Number 330968
3. Address of Operator 19707 We	est IH 10, Suite 201	10. Pool name or Wildcat
1 19707 11	nio, TX 78257	PENASCO DRAW, SA-YESO (ASSOC)
4. Well Location	10, 17 10231	
	1809' feet from the <u>NORTH</u> line and _	370' feet from the WEST line
Section 4	Township 19S Range 25E	NMPM County EDDY
	11. Elevation (Show whether DR, RKB, RT, GR,	•
	3566'	····,
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING DOWNHOLE COMMINGLE	PLUG AND ABANDON	UBSEQUENT REPORT OF: ORK
CLOSED-LOOP SYSTEM	□ OTHER:	
of starting any proposed wo proposed completion or reco	rk). SEE RULE 19.15.7.14 NMAC. For Multiple ompletion.	
Silverback Operating II, I	LC. has changed the well number and the target de	epth of the subject well. SHL has not changed.
	nally permitted with well number 102H. However, 721'. Please see the new C-102 plat attached as we	
Please note the lease type s	hould be STATE.	
Spud Date:	Rig Release Date:	
I hereby certify that the information a	above is true and complete to the best of my knowl	edge and belief.
SIGNATURE <u>Fatma Abdai</u>	Ilah TITLE_Regulatory Manager	DATE08/25/2023
Type or print name <u>Fatma Abdallah</u> For State Use Only	E-mail address: _fabdallah@st	ilverbackexp.com PHONE: (210) 585-3316
APPROVED BY: <u>Ward Rikala</u> Conditions of Approval (if any):	TITLE Petroleum Spe	cialist ADATE9/29/2023

.

Released to Imaging: 10/3/2023 3:24:47 PM

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

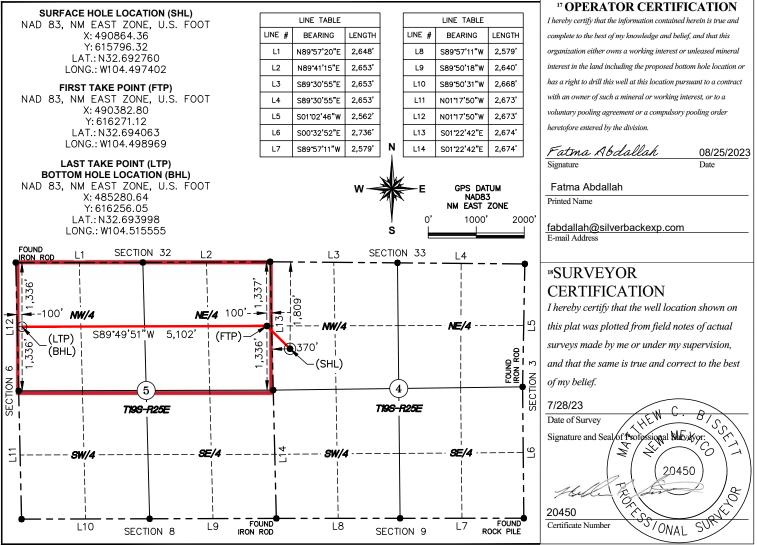
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

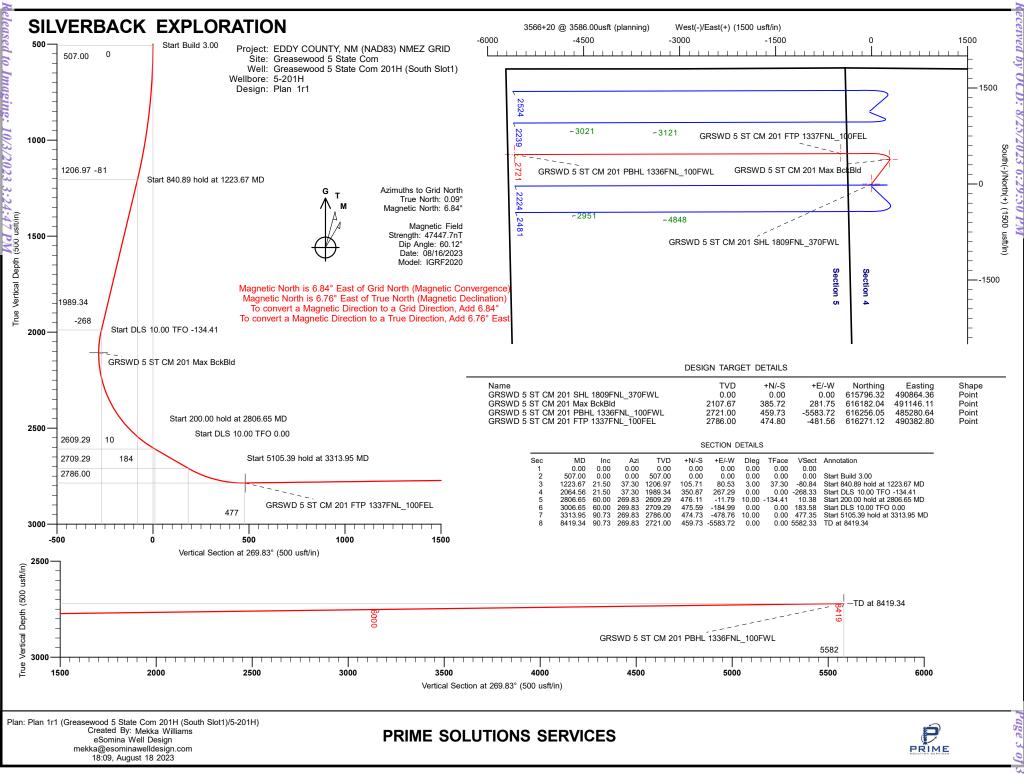
AMENDED REPORT

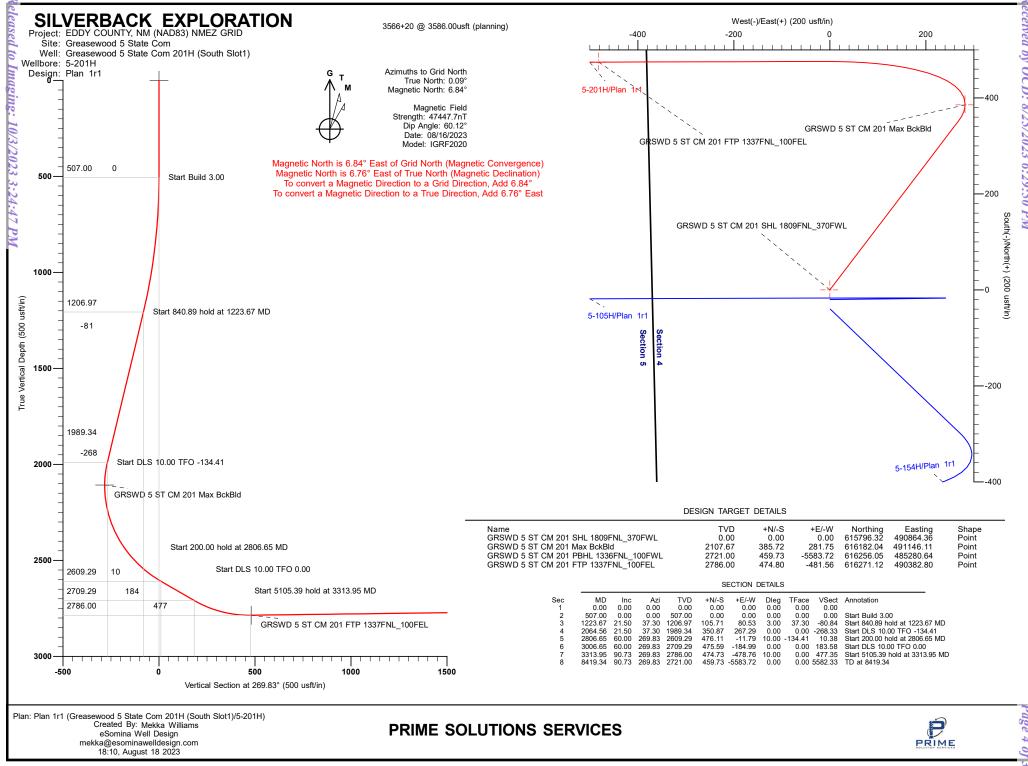
WELL LOCATION AND ACREAGE DEDICATION PLAT

1 A	PI Number			² Pool Code		LAGE DEDIC	³ Pool Na			
	-015-5375			50270		PENASC	O DRAW, SA-YE		OC)	
⁴ Property C				G	⁵ Property N REASEWOOD 5				6 .	Well Number 201H
33397										
⁷ OGRID N	lo.		⁸ Operator Name ⁹ Elevation							
33096	8		SILVERBACK EXPLORATION II, LLC 3,566'							
	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	4	19-S	25-E		1,809'	NORTH	370'	WE	ST	EDDY
			¹¹ Bo	ttom Hol	le Location If	Different Fron	n Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County
E	5	19-S	25-E		1,336'	NORTH	100'	WE	ST	EDDY
¹² Dedicated Acres	¹³ Joint o	r Infill ¹⁴ Co	nsolidation (Code ¹⁵ Or	der 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.







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SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID Greasewood 5 State Com Greasewood 5 State Com 201H (South Slot1)

5-201H

Plan: Plan 1r1

Standard Planning Report

18 August, 2023

Received by OCD: 8/25/2023 6:29:50 PM

Planning Report

Database:	PRIM	E_EDM			Local Co-	well Greasewood 5 State Com 201H (South Slot1)			1 201H (South	
Company: Project: Site: Well: Wellbore: Design:	SILVERBACK EXPLORATION EDDY COUNTY, NM (NAD83) NMEZ GRID Greasewood 5 State Com Greasewood 5 State Com 201H (South Slot1) 5-201H Plan 1r1				MD Refere North Ref	O Reference: 3566+20 @ 3586.00usft (planning) Reference: 3566+20 @ 3586.00usft (planning) th Reference: Grid vey Calculation Method: Minimum Curvature				
Project	EDDY	COUNTY, NM	(NAD83) NME	Z GRID						
Map System: Geo Datum: Map Zone:	North Ar	e Plane 1983 nerican Datum xico Eastern Zo			System Dat	tum:	Με	ean Sea Level		
Site	Grease	ewood 5 State (Com							
Site Position: From: Position Uncertainty	Ma y:		Northi Eastin Ousft Slot R	ig:		,915.56 usft ,837.43 usft 13-3/16 "	Latitude: Longitude: Grid Converg	ence:		32.695836 -104.497494 -0.09
Well	Grease	wood 5 State C	Com 201H (Sou	th Slot1)						
Well Position	+N/-S +E/-W		93 usft Ea	orthing: sting: ellhead Elevati	ioni	615,796.32 490,864.36	usft Lor	tude: gitude: und Level:		32.692759 -104.497401 3,566.00 us
Position Uncertainty	y	0.0		ennead Elevati			Gro	und Level:		3,500.00 US
Wellbore	5-201	Н								
Magnetics	Mo	odel Name	Sample	e Date	Declina	tion	Dip A	-		Strength
					(°)		('			דו) די
		IGRF2020		08/16/23	(°)	6.76	(`	60.12		47.66297439
Design	Plan 1			08/16/23	(°)	6.76	(•
Design Audit Notes:	Plan 1			08/16/23	(°)	6.76	(*			•
	Plan 1		Phase		(°) PLAN		(` On Depth:	60.12		•
Audit Notes:	Plan 1	r1	Phase Pepth From (T\ (usft)	e: P		Tie +E		60.12 Dire	47,4	•
Audit Notes: Version:	Plan 1	r1	epth From (T)	e: P	PLAN +N/-S	Tie +E	On Depth: /-W sft)	60.12 Dire	47,4 0.00	•
Audit Notes: Version:	rogram Dept (us	r1 Date th To sff) Survey	epth From (T\ (usft)	e: P /D)	PLAN +N/-S (usft)	Tie +E. (us 0.	On Depth: /-W sft)	60.12 Dire	47,4 0.00 ection (°)	•
Audit Notes: Version: Vertical Section: Plan Survey Tool Pr Depth From (usft) 1 0.00	rogram Dept (us	r1 Date th To sff) Survey	0.000 08/18/23 (Wellbore)	e: P /D)	PLAN +N/-S (usft) 0.00 Tool Name MWD	Tie +E. (us 0.	On Depth: /- W s ft) 00	60.12 Dire	47,4 0.00 ection (°)	•
Audit Notes: Version: Vertical Section: Plan Survey Tool Pl Depth From (usft) 1 0.00 Plan Sections Measured	rogram Dept (us	r1 Date th To sff) Survey	0.000 08/18/23 (Wellbore)	e: P /D)	PLAN +N/-S (usft) 0.00 Tool Name MWD	Tie +E. (us 0.	On Depth: /- W s ft) 00	60.12 Dire	47,4 0.00 ection (°)	•
Audit Notes: Version: Vertical Section: Plan Survey Tool Pl Depth From (usft) 1 0.00 Plan Sections Measured Depth Incl (usft) 0.00	rogram Dept (us 8,4	r1 E Date th To sft) Survey 19.34 Plan 1r Azimuth (°) 0.00	Vertical Depth from (TV (usft) 0.00 08/18/23 (Wellbore) 1 (5-201H) Vertical Depth (usft) 0.00	e: P /D) +N/-S (usft) 0.00	PLAN +N/-S (usft) 0.00 Tool Name MWD OWSG MWD +E/-W (usft) 0.00	Tie +E. (us 0.) - Standard Dogleg Rate	On Depth: /-W sft) 00 Remarks Build Rate (°/100usft) 0.00	60.12 Dire 26 Turn Rate	47,4 0.00 ection (°) 9.83 TFO	47.66297439
Audit Notes: Version: Vertical Section: Plan Survey Tool Pl Depth From (usft) 1 0.00 Plan Sections Measured Depth Incl (usft) 0.00 507.00	rogram Dept (us 8,4	r1 Date h To Survey 19.34 Plan 1r Azimuth (°) 0.00 0.00	Vertical Depth from (TV (usft) 0.00 08/18/23 (Wellbore) 1 (5-201H) Vertical Depth (usft) 0.00 507.00	e: P /D) +N/-S (usft) 0.00 0.00	PLAN +N/-S (usft) 0.00 Tool Name MWD OWSG MWD +E/-W (usft) 0.00 0.00	Tie +E. (us 0.) - Standard Dogleg Rate (°/100usft) 0.00 0.00	On Depth: (-W sft) 00 Remarks Build Rate (°/100usft) 0.00 0.00	60.12 Dire 26 26 26 26 26 26 26 26 26 26 26 26 26	47,4 0.00 ection (°) 9.83 TFO (°) 0.00 0.00	47.66297439
Audit Notes: Version: Vertical Section: Plan Survey Tool Pl Depth From (usft) 1 0.00 Plan Sections Measured Depth Incl (usft) 0.00 507.00 1,223.67	rogram Dept (us 8,4 lination (°) 0.00 0.00 21.50	r1 Date h To sft) Survey 19.34 Plan 1r Azimuth (°) 0.00 0.00 37.30	Vertical Depth (usft) 0.00 08/18/23 (Wellbore) 1 (5-201H) Vertical Depth (usft) 0.00 507.00 1,206.97	e: P /D) +N/-S (usft) 0.00 0.00 105.71	PLAN +N/-S (usft) 0.00 Tool Name MWD OWSG MWD OWSG MWD +E/-W (usft) 0.00 0.00 0.00 0.00 0.00	Tie +E. (us 0.) - Standard Dogleg Rate (°/100usft) 0.00 0.00 3.00	On Depth: (-W sft) 00 Remarks Build Rate (°/100usft) 0.00 0.00 0.00 0.00 0.00	60.12 Dire 26 26 26 26 26 26 26 26 26 26 26 26 26	47,4 0.00 ection (°) 9.83 TFO (°) 0.00 0.00 37.30	47.66297439
Audit Notes: Version: Vertical Section: Plan Survey Tool Pl Depth From (usft) 1 0.00 Plan Sections Measured Depth Incl (usft) 0.00 507.00 1,223.67 2,064.56	rogram Dept (us 8,4 lination (°) 0.00 0.00 21.50 21.50	r1 Date b To sft) Survey 19.34 Plan 1r Azimuth (°) 0.00 0.00 37.30 37.30	Vertical Depth 0.00 08/18/23 (Wellbore) 1 (5-201H) Vertical Depth (usft) 0.00 507.00 1,206.97 1,989.34	e: P /D) +N/-S (usft) 0.00 0.00 105.71 350.87	PLAN +N/-S (usft) 0.00 Tool Name MWD OWSG MWD OWSG MWD +E/-W (usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Tie +E. (us 0.) - Standard Dogleg Rate (°/100usft) 0.00 0.00 3.00 0.00	On Depth: (60.12 Dire 26 26 26 26 26 26 26 26 26 26 26 26 26	47,4 0.00 ection (°) 9.83 TFO (°) 0.00 0.00 37.30 0.00	47.66297439
Audit Notes: Version: Vertical Section: Plan Survey Tool Pro Depth From (usft) 1 0.00 Plan Sections Measured Depth Incl (usft) 0.00 507.00 1,223.67 2,064.56 2,806.65	rogram Dept (us 8,4 lination (°) 0.00 0.00 21.50 21.50 60.00	r1 Date b To sft) Survey 19.34 Plan 1r Azimuth (°) 0.00 0.00 0.00 37.30 37.30 269.83	Vertical Depth 0.00 08/18/23 (Wellbore) 1 (5-201H) Vertical Depth (usft) 0.00 507.00 1,206.97 1,989.34 2,609.29	e: P /D) +N/-S (usft) 0.00 0.00 105.71 350.87 476.11	PLAN +N/-S (usft) 0.00 Tool Name MWD OWSG MWD OWSG MWD +E/-W (usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Tie +E. (us 0.) - Standard Dogleg Rate (°/100usft) 0.00 0.00 3.00 0.00 10.00	On Depth: (W sft) 00 Remarks Build Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	60.12 Dire 26 26 26 26 26 26 26 26 26 26 26 26 26	47,4 0.00 ection (°) 9.83 TFO (°) 0.00 0.00 37.30 0.00 -134.41	47.66297439
Audit Notes: Version: Vertical Section: Plan Survey Tool Pl Depth From (usft) 1 0.00 Plan Sections Measured Depth Incl (usft) 0.00 507.00 1,223.67 2,064.56	rogram Dept (us 8,4 lination (°) 0.00 0.00 21.50 21.50	r1 Date b To sft) Survey 19.34 Plan 1r Azimuth (°) 0.00 0.00 37.30 37.30	Vertical Depth 0.00 08/18/23 (Wellbore) 1 (5-201H) Vertical Depth (usft) 0.00 507.00 1,206.97 1,989.34	e: P /D) +N/-S (usft) 0.00 0.00 105.71 350.87	PLAN +N/-S (usft) 0.00 Tool Name MWD OWSG MWD OWSG MWD +E/-W (usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Tie +E. (us 0.) - Standard Dogleg Rate (°/100usft) 0.00 0.00 3.00 0.00	On Depth: (60.12 Dire 26 26 26 26 26 26 26 26 26 26 26 26 26	47,4 0.00 ection (°) 9.83 TFO (°) 0.00 0.00 37.30 0.00	47.66297439

08/18/23 6:07:26PM

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Received by OCD: 8/25/2023 6:29:50 PM

Planning Report

Database:	PRIME_EDM	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)
Company:	SILVERBACK EXPLORATION	TVD Reference:	3566+20 @ 3586.00usft (planning)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	MD Reference:	3566+20 @ 3586.00usft (planning)
Site:	Greasewood 5 State Com	North Reference:	Grid
Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature
Wellbore:	5-201H		
Design:	Plan 1r1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
507.00	0.00	0.00	507.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3		37.30	500.06	1.80	1.37	-1.38	3.00	3.00	0.00
600.00	2.79		599.96						
700.00	5.79	37.30	699.67	7.75	5.90	-5.93	3.00	3.00	0.00
800.00	8.79	37.30	798.85	17.84	13.59	-13.65	3.00	3.00	0.00
900.00	11.79	37.30	897.23	32.05	24.42	-24.51	3.00	3.00	0.00
1,000.00	14.79	37.30	994.54	50.34	38.35	-38.49	3.00	3.00	0.00
1,100.00	17.79	37.30	1,090.52	72.65	55.34	-55.56	3.00	3.00	0.00
1,200.00	20.79	37.30	1,184.89	98.92	75.36	-75.65	3.00	3.00	0.00
1,223.67	21.50	37.30	1,206.97	105.71	80.53	-80.84	3.00	3.00	0.00
Start 840.89	hold at 1223.67	MD							
1,300.00	21.50	37.30	1,277.99	127.97	97.48	-97.86	0.00	0.00	0.00
1,400.00	21.50	37.30	1,371.03	157.12	119.69	-120.16	0.00	0.00	0.00
1,500.00	21.50	37.30	1,464.07	186.28	141.90	-142.46	0.00	0.00	0.00
1,600.00	21.50	37.30	1,557.11	215.43	164.11	-164.75	0.00	0.00	0.00
1,700.00	21.50	37.30	1,650.15	244.58	186.32	-187.05	0.00	0.00	0.00
1,800.00	21.50	37.30	1,743.20	273.74	208.53	-209.34	0.00	0.00	0.00
			,						
1,900.00	21.50	37.30	1,836.24	302.89	230.74	-231.64	0.00	0.00	0.00
2,000.00	21.50	37.30	1,929.28	332.05	252.95	-253.94	0.00	0.00	0.00
2,064.56	21.50	37.30	1,989.34	350.87	267.29	-268.33	0.00	0.00	0.00
	0.00 TFO -134.41	00.50	0 000 50	004.40	074.40	075 47	10.00	0.55	01 70
2,100.00	19.18	29.58	2,022.58	361.10	274.10	-275.17	10.00	-6.55	-21.79
2,150.00	16.62	15.53	2,070.18	375.14	280.07	-281.18	10.00	-5.11	-28.10
2,200.00	15.29	357.92	2,118.28	388.63	281.75	-282.90	10.00	-2.67	-35.21
2,250.00	15.49	339.01	2,166.52	401.46	279.12	-280.31	10.00	0.40	-37.81
2,300.00	17.17	322.19	2,214.53	413.53	272.20	-273.42	10.00	3.37	-33.64
2,350.00	19.97	309.11	2,261.94	424.76	261.04	-262.30	10.00	5.59	-26.16
2,400.00	23.48	299.46	2,308.40	435.05	245.74	-247.03	10.00	7.03	-19.31
2,450.00	27.44	292.32	2,353.54	444.33	226.39	-227.71	10.00	7.91	-14.28
2,500.00	31.67	286.91	2,397.04	452.53	203.17	-204.51	10.00	8.46	-10.83
2,550.00	36.08	282.68	2,438.55	459.58	176.23	-177.59	10.00	8.82	-8.46
2,600.00	40.61	279.26	2,477.75	465.43	145.79	-147.17	10.00	9.06	-6.82
2,650.00	45.22	276.43	2,514.36	470.04	112.07	-113.46	10.00	9.23	-5.66
2,700.00	49.90	274.02	2,548.10	473.37	75.33	-76.74	10.00	9.35	-4.82
2,750.00	54.62	271.93	2,578.70	475.40	35.86	-37.27	10.00	9.44	-4.19
2,800.00	59.37	270.06	2,605.93	476.11	-6.05	4.63 10.38	10.00	9.50	-3.73
2,806.65	60.00	269.83	2,609.29	476.11	-11.79	10.36	10.00	9.53	-3.51
2.900.00	hold at 2806.65 60.00	MD 269.83	2,655.96	475.87	-92.63	91.22	0.00	0.00	0.00
,									
3,006.65	60.00	269.83	2,709.29	475.59	-184.99	183.58	0.00	0.00	0.00
	0.00 TFO 0.00	200 02	0 700 50	475 40	000.00	204.00	40.00	40.00	0.00
3,050.00	64.33	269.83	2,729.52	475.48	-223.32	221.90	10.00	10.00	0.00
3,100.00	69.33	269.83	2,749.18	475.34	-269.27	267.86	10.00	10.00	0.00
3,150.00	74.33	269.83	2,764.77	475.20	-316.76	315.35	10.00	10.00	0.00
3,200.00	79.33	269.83	2,776.15	475.06	-365.43	364.02	10.00	10.00	0.00
3,250.00	84.33	269.83	2,783.25	474.91	-414.91	413.50	10.00	10.00	0.00
3,300.00	89.33	269.83	2,786.01	474.77	-464.82	463.41	10.00	10.00	0.00

08/18/23 6:07:26PM

COMPASS 5000.15 Build 91

Planning Report

Database:	PRIME_EDM	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)
Company:	SILVERBACK EXPLORATION	TVD Reference:	3566+20 @ 3586.00usft (planning)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	MD Reference:	3566+20 @ 3586.00usft (planning)
Site:	Greasewood 5 State Com	North Reference:	Grid
Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature
Wellbore:	5-201H		
Design:	Plan 1r1		

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)
3,313.95	90.73	269.83	2,786.00	474.73	-478.76	477.35	10.00	10.00	0.00
	39 hold at 3313.95		2,700.00		110.10	111.00	10.00	10.00	0.00
3,400.00	90.73	269.83	2,784.91	474.47	-564.81	563.40	0.00	0.00	0.00
3,500.00	90.73	269.83	2,783.63	474.18	-664.80	663.39	0.00	0.00	0.00
3,500.00	90.75	209.03	2,703.03		-004.00	003.39	0.00	0.00	0.00
3,600.00	90.73	269.83	2,782.36	473.89	-764.79	763.38	0.00	0.00	0.00
3,700.00	90.73	269.83	2,781.09	473.59	-864.78	863.38	0.00	0.00	0.00
3,800.00	90.73	269.83	2,779.81	473.30	-964.78	963.37	0.00	0.00	0.00
3,900.00	90.73	269.83	2,778.54	473.01	-1,064.77	1,063.36	0.00	0.00	0.00
4,000.00	90.73	269.83	2,777.27	472.71	-1,164.76	1,163.35	0.00	0.00	0.00
,						,			
4,100.00	90.73	269.83	2,775.99	472.42	-1,264.75	1,263.34	0.00	0.00	0.00
4,200.00	90.73	269.83	2,774.72	472.12	-1,364.74	1,363.34	0.00	0.00	0.00
4,300.00	90.73	269.83	2,773.45	471.83	-1,464.73	1,463.33	0.00	0.00	0.00
4,400.00	90.73	269.83	2,772.17	471.54	-1,564.73	1,563.32	0.00	0.00	0.00
4,500.00	90.73	269.83	2,770.90	471.24	-1,664.72	1,663.31	0.00	0.00	0.00
4,600.00	90.73	269.83	2,769.63	470.95	-1,764.71	1,763.30	0.00	0.00	0.00
4,000.00	90.73	269.83	2,768.35	470.66	-1,864.70	1,863.29	0.00	0.00	0.00
4,700.00	90.73	269.83	2,767.08	470.36	-1,964.69	1,963.29	0.00	0.00	0.00
	90.73 90.73	269.83					0.00		0.00
4,900.00			2,765.81	470.07	-2,064.68	2,063.28		0.00	
5,000.00	90.73	269.83	2,764.54	469.77	-2,164.67	2,163.27	0.00	0.00	0.00
5,100.00	90.73	269.83	2,763.26	469.48	-2,264.67	2,263.26	0.00	0.00	0.00
5,200.00	90.73	269.83	2,761.99	469.19	-2,364.66	2,363.25	0.00	0.00	0.00
5,300.00	90.73	269.83	2,760.72	468.89	-2,464.65	2,463.25	0.00	0.00	0.00
5,400.00	90.73	269.83	2,759.44	468.60	-2,564.64	2,563.24	0.00	0.00	0.00
5,500.00	90.73	269.83	2,758.17	468.31	-2,664.63	2,663.23	0.00	0.00	0.00
5,600.00	90.73	269.83	2,756.90	468.01	-2,764.62	2,763.22	0.00	0.00	0.00
5,700.00	90.73	269.83	2,755.62	467.72	-2,864.61	2,863.21	0.00	0.00	0.00
5,800.00	90.73	269.83	2,754.35	467.42	-2,964.61	2,963.21	0.00	0.00	0.00
5,900.00	90.73	269.83	2,753.08	467.13	-3,064.60	3,063.20	0.00	0.00	0.00
6,000.00	90.73	269.83	2,751.80	466.84	-3,164.59	3,163.19	0.00	0.00	0.00
6,100.00	90.73	269.83	2,750.53	466.54	-3,264.58	3,263.18	0.00	0.00	0.00
6,200.00	90.73	269.83	2,749.26	466.25	-3,204.58	3,363.17	0.00	0.00	0.00
6,200.00	90.73	269.83	2,749.26 2,747.98	465.96	-3,364.57 -3,464.56	3,463.17	0.00	0.00	0.00
6,400.00	90.73	269.83	2,747.98	465.66	-3,464.56 -3,564.55	3,563.17	0.00	0.00	0.00
							0.00		0.00
6,500.00	90.73	269.83	2,745.44	465.37	-3,664.55	3,663.15	0.00	0.00	0.00
6,600.00	90.73	269.83	2,744.16	465.07	-3,764.54	3,763.14	0.00	0.00	0.00
6,700.00	90.73	269.83	2,742.89	464.78	-3,864.53	3,863.13	0.00	0.00	0.00
6,800.00	90.73	269.83	2,741.62	464.49	-3,964.52	3,963.12	0.00	0.00	0.00
6,900.00	90.73	269.83	2,740.34	464.19	-4,064.51	4,063.12	0.00	0.00	0.00
7,000.00	90.73	269.83	2,739.07	463.90	-4,164.50	4,163.11	0.00	0.00	0.00
					4 00 4 40				
7,100.00	90.73	269.83	2,737.80	463.61	-4,264.49	4,263.10	0.00	0.00	0.00
7,200.00	90.73	269.83	2,736.52	463.31	-4,364.49	4,363.09	0.00	0.00	0.00
7,300.00	90.73	269.83	2,735.25	463.02	-4,464.48	4,463.08	0.00	0.00	0.00
7,400.00	90.73	269.83	2,733.98	462.72	-4,564.47	4,563.08	0.00	0.00	0.00
7,500.00	90.73	269.83	2,732.71	462.43	-4,664.46	4,663.07	0.00	0.00	0.00
7,600.00	90.73	269.83	2,731.43	462.14	-4,764.45	4,763.06	0.00	0.00	0.00
7,700.00	90.73	269.83	2,730.16	461.84	-4,864.44	4,863.05	0.00	0.00	0.00
7,800.00	90.73	269.83	2,728.89	461.55	-4,964.43	4,963.04	0.00	0.00	0.00
7,900.00	90.73	269.83	2,727.61	461.26	-5,064.43	5,063.04	0.00	0.00	0.00
8,000.00	90.73	269.83	2,726.34	460.96	-5,164.42	5,163.03	0.00	0.00	0.00
,									
8,100.00	90.73	269.83	2,725.07	460.67	-5,264.41	5,263.02	0.00	0.00	0.00
8,200.00	90.73	269.83	2,723.79	460.37	-5,364.40	5,363.01	0.00	0.00	0.00
8,300.00	90.73	269.83	2,722.52	460.08	-5,464.39	5,463.00	0.00	0.00	0.00
8,400.00	90.73	269.83	2,721.25	459.79	-5,564.38	5,562.99	0.00	0.00	0.00

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COMPASS 5000.15 Build 91

Planning Report

Database:	PRIME_EDM	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)
Company:	SILVERBACK EXPLORATION	TVD Reference:	3566+20 @ 3586.00usft (planning)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	MD Reference:	3566+20 @ 3586.00usft (planning)
Site:	Greasewood 5 State Com	North Reference:	Grid
Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature
Wellbore:	5-201H		
Design:	Plan 1r1		

Planned Survey

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)
8,419.3	4 90.73	269.83	2,721.00	459.73	-5,583.72	5,582.33	0.00	0.00	0.00

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
GRSWD 5 ST CM 201 S - plan hits target cent - Point	0.00 ter	360.00	0.00	0.00	0.00	615,796.32	490,864.36	32.6927599	-104.4974016
GRSWD 5 ST CM 201 N - plan hits target cent - Point	0.00 ter	0.00	2,107.67	385.72	281.75	616,182.04	491,146.11	32.6938213	-104.4964877
GRSWD 5 ST CM 201 F - plan hits target cent - Point	0.00 ter	360.00	2,721.00	459.73	-5,583.72	616,256.05	485,280.64	32.6939985	-104.5155546
GRSWD 5 ST CM 201 F - plan misses target	0.00 center by 0.09	0.00 Jusft at 3316	2,786.00 .74usft MD (2	474.80 2785.97 TVD,	-481.56 474.72 N, -48	616,271.12 1.56 E)	490,382.80	32.6940629	-104.4989694

- Point

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coord +N/-S	+E/-W	Comment	
. ,	. ,	(usft)	(usft)		
507.00	507.00	0.00	0.00	Start Build 3.00	
1,223.67	1,206.97	105.71	80.53	Start 840.89 hold at 1223.67 MD	
2,064.56	1,989.34	350.87	267.29	Start DLS 10.00 TFO -134.41	
2,806.65	2,609.29	476.11	-11.79	Start 200.00 hold at 2806.65 MD	
3,006.65	2,709.29	475.59	-184.99	Start DLS 10.00 TFO 0.00	
3,313.95	2,786.00	474.73	-478.76	Start 5105.39 hold at 3313.95 MD	
8,419.34	2,721.00	459.73	-5,583.72	TD at 8419.34	

SILVERBACK EXPLORATION

EDDY COUNTY, NM (NAD83) NMEZ GRID Greasewood 5 State Com Greasewood 5 State Com 201H (South Slot1)

5-201H Plan 1r1

Anticollision Report

18 August, 2023

Reference Plan 1r1 Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria								
Reference Design:	Plan 1r1	Offset TVD Reference:	Reference Datum					
Reference Wellbore	5-201H	Database:	PRIME_EDM					
Well Error:	0.00 usft	Output errors are at	2.00 sigma					
Reference Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature					
Site Error:	0.00 usft	North Reference:	Grid					
Reference Site:	Greasewood 5 State Com	MD Reference:	3566+20 @ 3586.00usft (planning)					
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3566+20 @ 3586.00usft (planning)					
Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)					

Depth Range:	Unlimited	Scan Method:	Closest Approach 3D	
Results Limited by:	Maximum ellipse separation of 0.00 usft	Error Surface:	Pedal Curve	
Warning Levels Evalua	ted at: 2.00 Sigma	Casing Method:	Not applied	
Survey Tool Program	Date 08/18/23			

Survey 1001 Program		Date	00/10/23			
From	То					
(usft)	(usft)	Survey	(Wellbore)	Tool	Name	Description
0.00	8,419.34	Plan 1r	l (5-201H)	MWE)	OWSG MWD - Standard

Summary

	Reference	Offset	Dista	nce		
Site Name Offset Well - Wellbore - Design	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)	Separatio n	Warning
Greasewood 5 State Com						
Greasewood 5 State Com 104H (North Slot2) - 5-104H -	2,354.77	2,168.44	614.29	591.77	27.274	CC
Greasewood 5 State Com 104H (North Slot2) - 5-104H -	8,419.34	7,862.93	689.28	477.25	3.251	ES, SF
Greasewood 5 State Com 105H (South Slot2) - 5-105H -	415.40	415.40	20.00	16.72	6.109	CC
Greasewood 5 State Com 105H (South Slot2) - 5-105H -	507.00	507.00	20.00	16.02	5.031	ES
Greasewood 5 State Com 105H (South Slot2) - 5-105H -	8,419.34	7,877.73	700.11	493.91	3.395	SF
Greasewood 5 State Com 153H (North Slot1) - 5-153H -						Out of range
Greasewood 5 State Com 154H (South Slot3) - 5-154H -	507.00	507.00	39.99	36.00	10.009	CC, ES
Greasewood 5 State Com 154H (South Slot3) - 5-154H -	8,419.34	8,209.41	937.43	664.39	3.433	SF
Greasewood BD State 1 (Offset) PA - GW BD ST 1 - GW						Out of range
Greasewood BD State 10 (Offset) Active - GW BD ST 1	6,237.51	2,777.92	333.94	185.32	2.247	CC, ES
Greasewood BD State 10 (Offset) Active - GW BD ST 1	6,300.00	2,777.12	339.74	186.49	2.217	SF
Greasewood BD State 8 (Offset) PA - GW BD ST 8 - GW	7,400.00	2,763.14	966.08	733.69	4.157	SF
Greasewood BD State 8 (Offset) PA - GW BD ST 8 - GW	7,500.00	2,761.87	960.04	732.86	4.226	ES
Greasewood BD State 8 (Offset) PA - GW BD ST 8 - GW	7,508.21	2,761.76	960.00	733.35	4.236	CC
Greasewood BD State 9 (Offset) PA - GW BD ST 9 - GW	7,536.51	2,761.61	361.56	178.68	1.977	CC, ES
Greasewood BD State 9 (Offset) PA - GW BD ST 9 - GW	7,600.00	2,760.80	367.09	181.06	1.973	SF

Offset Des urvey Progr	ram: 0-M	WD				ood 5 State (Com 104H (No	orth Slot2) -					Offset Site Error: Offset Well Error:	0.00 us 0.00 us
Refer	ence	Offse	et	Semi Major	Axis				Dista	ance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
1,200.00	1,184.89	1,321.73	1,297.80	9.76	9.29	-37.67	1,056.54	125.19	965.54	951.42	14.12	68.378		
1,223.67	1,206.97	1,343.27	1,318.11	9.82	9.33	-37.73	1,053.80	131.84	955.96	941.66	14.30	66.847		
1,300.00	1,277.99	1,412.62	1,383.48	9.95	9.48	-37.29	1,044.98	153.24	924.74	909.89	14.85	62.253		
1,400.00	1,371.03	1,503.47	1,469.12	10.15	9.69	-36.67	1,033.42	181.28	883.92	868.31	15.61	56.610		
1,500.00	1,464.07	1,595.75	1,557.03	10.37	10.02	-36.23	1,021.78	206.61	843.14	826.68	16.46	51.222		
1,600.00	1,557.11	1,688.07	1,647.83	10.60	10.52	-36.84	1,010.66	218.25	802.22	784.55	17.67	45.407		
1,700.00	1,650.15	1,775.55	1,734.64	10.84	11.01	-38.58	1,000.91	215.62	761.59	743.30	18.29	41.644		
1,800.00	1,743.20	1,854.94	1,812.34	11.10	11.77	-41.25	992.90	201.77	722.51	703.63	18.88	38.265		
1,900.00	1,836.24	1,924.75	1,878.58	11.37	12.31	-44.48	986.65	180.80	686.88	667.37	19.52	35.194		
2,000.00	1,929.28	1,984.90	1,933.32	11.67	12.72	-47.91	981.93	156.37	657.03	636.77	20.26	32.428		
2,064.56	1,989.34	2,018.96	1,963.10	11.86	12.94	-50.10	979.56	140.03	641.98	621.19	20.79	30.881		

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Anticollision Report

Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3566+20 @ 3586.00usft (planning)
Reference Site:	Greasewood 5 State Com	MD Reference:	3566+20 @ 3586.00usft (planning)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	5-201H	Database:	PRIME_EDM
Reference Design:	Plan 1r1	Offset TVD Reference:	Reference Datum

rvey Progra	sign am: 0-M\		000 5 51		JIEASEWO		Com 104H (No	111 310(2) -	J-104FI - F				Offset Site Error:	0.00
Refere		Offse		Semi Major	Axis				Dista	ince			Offset Well Error:	0.00
asured)epth usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,100.00	2,022.58	2,036.78	1,978.28	11.99	13.05	-43.35	978.40	130.78	635.27	614.20	21.07	30.147		
2,150.00	2,070.18	2,062.14	1,999.40	12.35	13.20	-30.81	976.87	116.81	627.49	606.05	21.43	29.274		
2,200.00	2,118.28	2,087.77	2,020.09	12.81	13.34	-14.85	975.45	101.77	621.61	599.88	21.73	28.603		
2,250.00	2,166.52	2,113.62	2,040.27	13.29	13.48	2.28	974.16	85.67	617.53	595.57	21.96	28.120		
2,300.00	2,214.53	2,139.68	2,059.87	13.72	13.62	17.22	973.00	68.53	615.14	592.98	22.17	27.749		
2,350.00	2,261.94	2,165.93	2,078.81	14.03	13.75	28.35	971.98	50.39	614.30	591.81	22.49	27.320		
2,354.77	2,266.42	2,168.44	2,080.58	14.05	13.76	29.22	971.89	48.61	614.29	591.77	22.52	27.274 C	C	
2,400.00	2,308.40	2,200.00	2,102.14	14.23	13.91	35.64	970.88	25.59	614.91	591.92	22.99	26.745		
2,450.00	2,353.54	2,218.87	2,114.42	14.38	14.00	41.10	970.37	11.27	616.59	593.35	23.24	26.531		
2,500.00	2,397.04	2,250.00	2,133.64	14.53	14.14	44.31	969.72	-13.20	619.42	595.77	23.65	26.187		
2,550.00	2,438.55	2,272.27	2,146.56	14.69	14.23	46.68	969.39	-31.33	623.09	599.22	23.87	26.103		
2,600.00	2,477.75	2,300.00	2,140.60	14.86	14.35	48.08	969.12	-54.58	627.51	603.34	24.17	25.964		
2,650.00	2,514.36	2,333.31	2,178.53	15.05	14.45	48.83	969.01	-83.31	632.40	607.90	24.50	25.811		
2,700.00	2,548.10	2,381.98	2,202.86	15.24	14.61	49.13	968.88	-125.46	636.42	611.27	25.16	25.300		
2,750.00	2,578.70	2,431.46	2,227.60	15.44	14.82	49.59	968.76	-168.31	639.02	613.13	25.90	24.677		
	0 005 00	0 404 00	0 050 55	15.00	15.00	50.00		044 50	040.05		~~ ~~	00.057		
2,800.00 2,806.65	2,605.93	2,481.36	2,252.55	15.66	15.08	50.28	968.63	-211.53	640.05	613.34	26.72	23.957		
2,800.05	2,609.29 2,614.23	2,488.02 2,497.91	2,255.88 2,260.83	15.70 15.74	15.11 15.17	50.39 50.39	968.61 968.59	-217.29 -225.86	640.07 640.07	613.27 613.13	26.80 26.94	23.881 23.760		
2,900.00	2,655.96	2,497.91	2,200.83	16.18	15.54	50.39	968.45	-225.80	641.59	614.04	20.94	23.295		
3,006.65	2,709.29	2,607.84	2,307.97	16.99	16.09	49.79	968.29	-324.94	650.68	622.32	28.37	22.936		
3,050.00	2,729.52	2,625.00	2,313.27	17.41	16.28	49.20	968.24	-341.25	655.73	627.08	28.65	22.887		
3,100.00	2,749.18	2,656.19	2,321.40	17.97	16.66	48.53	968.15	-371.36	660.52	631.14	29.37	22.487		
3,150.00	2,764.77	2,681.97	2,326.62	18.61	17.01	48.06	968.08	-396.60	664.28	634.19	30.09	22.079		
3,200.00	2,776.15	2,707.70	2,330.47	19.31	17.38	47.73	968.00	-422.04	666.95	636.07	30.88	21.595		
3,250.00	2,783.25	2,733.41	2,332.94	20.08	17.78	47.54	967.93	-447.62	668.51	636.75	31.76	21.047		
3,300.00	2,786.01	2,759.09	2,334.03	20.88	18.19	47.49	967.85	-473.28	668.95	636.23	32.72	20.446		
3,313.95	2,786.00	2,766.26	2,334.09	21.12	18.31	47.50	967.83	-480.45	668.87	635.90	32.97	20.288		
3,329.07	2,785.81	2,775.37	2,334.00	21.38	18.46	47.50	967.80	-489.56	668.82	635.54	33.27	20.101		
3,400.00	2,784.91	2,843.68	2,332.73	22.62	19.68	47.47	967.60	-557.86	669.09	633.91	35.18	19.017		
3,500.00	2,783.63	2,943.68	2,330.87	24.48	21.60	47.44	967.31	-657.84	669.49	631.41	38.08	17.580		
3,600.00	2,782.36	3,043.67	2,329.01	26.45	23.65	47.40	967.01	-757.82	669.88	628.76	41.12	16.289		
3,700.00	2,781.09	3,143.67	2,327.15	28.50	25.78	47.36	966.71	-857.80	670.28	626.01	44.27	15.140		
3,800.00	2,779.81	3,243.67	2,325.29	30.61	27.98	47.33	966.42	-957.78	670.68	623.17	47.51	14.118		
3,900.00	2,778.54	3,343.67	2,323.43	32.76	30.22	47.29	966.12	-1,057.76	671.07	620.27	50.81	13.209		
4,000.00	2,777.27	3,443.67	2,321.57	34.96	32.50	47.25	965.83	-1,157.74	671.47	617.31	54.16	12.398		
4,100.00	2,775.99	3,543.67	2,319.71	37.19	34.80	47.22	965.53	-1,257.72	671.87	614.31	57.56	11.673		
4,200.00	2,774.72	3,643.66	2,319.71	39.45	34.80	47.18	965.23	-1,257.72	672.26	611.27	60.99	11.073		
4,300.00	2,773.45	3,743.66	2,315.99	41.73	39.46	47.14	964.94	-1,457.68	672.66	608.21	64.46	10.436		
4,400.00	2,772.17	3,843.66	2,314.13	44.03	41.82	47.11	964.64	-1,557.66	673.06	605.11	67.95	9.906		
4,500.00	2,770.90	3,943.66	2,312.27	46.35	44.18	47.07	964.35	-1,657.64	673.46	602.00	71.46	9.425		
4,600.00	2,769.63	4,043.66	2,310.41	48.68	46.56	47.03	964.05	-1,757.62	673.86	598.87	74.98	8.987		
4,700.00	2,768.35	4,143.66	2,308.55	51.02	48.94	47.00	963.75	-1,857.60	674.26	595.73	78.52	8.587		
4,800.00 4,900.00	2,767.08 2,765.81	4,243.65 4,343.65	2,306.69 2,304.82	53.37 55.73	51.33 53.73	46.96 46.92	963.46 963.16	-1,957.58 -2,057.56	674.66 675.05	592.58 589.41	82.08 85.64	8.220 7.882		
4,900.00 5,000.00	2,764.54	4,343.65	2,304.82	58.10	56.13	46.89	962.87	-2,057.50	675.45	586.24	89.21	7.571		
2,000.00	2,. 54.64	.,	2,002.00	00.10	50.10	.0.00	002.01	2,.07.04	510.40	500.24	00.21	1.011		
5,100.00	2,763.26	4,543.65	2,301.10	60.48	58.54	46.85	962.57	-2,257.52	675.85	583.06	92.79	7.283		
5,200.00	2,761.99	4,643.65	2,299.24	62.86	60.95	46.81	962.27	-2,357.51	676.25	579.87	96.38	7.017		
5,300.00	2,760.72	4,743.65	2,297.38	65.25	63.36	46.78	961.98	-2,457.49	676.65	576.68	99.97	6.769		
5,400.00	2,759.44	4,843.64	2,295.52	67.64	65.78	46.74	961.68	-2,557.47	677.06	573.49	103.56	6.538		
5,500.00	2,758.17	4,943.64	2,293.66	70.04	68.20	46.70	961.39	-2,657.45	677.46	570.29	107.16	6.322		
	2,756.90	5,043.64	2,291.80	72.44	70.62	46.67	961.09	-2,757.43	677.86	567.09	110.76	6.120		

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Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3566+20 @ 3586.00usft (planning)
Reference Site:	Greasewood 5 State Com	MD Reference:	3566+20 @ 3586.00usft (planning)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	5-201H	Database:	PRIME_EDM
Reference Design:	Plan 1r1	Offset TVD Reference:	Reference Datum

Offset De Survey Prog	•		wood 5 St	ate Com - (Greasewo	ood 5 State	Com 104H (No	orth Slot2) -	5-104H - F	Plan 1r1			Offset Site Error:	0.00 usft
Survey Prog Refer		Offse	et	Semi Major	Axis				Dista	ance			Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,700.00	2,755.62	5,143.64	2,289.94	74.84	73.05	46.63	960.79	-2,857.41	678.26	563.89	114.37	5.931		
5,800.00	2,754.35	5,243.64	2,288.08	77.25	75.48	46.59	960.50	-2,957.39	678.66	560.69	117.97	5.753		
5,900.00	2,753.08	5,343.63	2,286.22	79.66	77.91	46.56	960.20	-3,057.37	679.06	557.49	121.57	5.586		
6,000.00	2,751.80	5,443.63	2,284.36	82.07	80.34	46.52	959.91	-3,157.35	679.47	554.29	125.18	5.428		
6,100.00	2,750.53	5,543.63	2,282.50	84.49	82.77	46.49	959.61	-3,257.33	679.87	551.08	128.79	5.279		
6,200.00	2,749.26	5,643.63	2,280.64	86.91	85.20	46.45	959.31	-3,357.31	680.27	547.88	132.39	5.138		
6,300.00	2,747.98	5,743.63	2,278.78	89.33	87.64	46.41	959.02	-3,457.29	680.67	544.68	136.00	5.005		
6,400.00	2,746.71	5,843.63	2,276.92	91.75	90.07	46.38	958.72	-3,557.27	681.08	541.48	139.60	4.879		
6,500.00	2,745.44	5,943.62	2,275.06	94.18	92.51	46.34	958.43	-3,657.25	681.48	538.28	143.21	4.759		
6,600.00	2,744.16	6,043.62	2,273.20	96.60	94.95	46.31	958.13	-3,757.23	681.89	535.08	146.81	4.645		
6,700.00	2,742.89	6,143.62	2,271.34	99.03	97.39	46.27	957.83	-3,857.21	682.29	531.88	150.41	4.536		
6,800.00	2,741.62	6,243.62	2,269.48	101.46	99.83	46.24	957.54	-3,957.19	682.69	528.68	154.01	4.433		
6,900.00	2,740.34	6,343.62	2,267.61	103.89	102.27	46.20	957.24	-4,057.17	683.10	525.49	157.61	4.334		
7,000.00	2,739.07	6,443.62	2,265.75	106.32	104.71	46.16	956.95	-4,157.16	683.50	522.30	161.21	4.240		
7,100.00	2,737.80	6,543.61	2,263.89	108.75	107.15	46.13	956.65	-4,257.14	683.91	519.10	164.80	4.150		
7,200.00	2,736.52	6,643.61	2,262.03	111.18	109.59	46.09	956.35	-4,357.12	684.32	515.92	168.40	4.064		
7,300.00	2,735.25	6,743.61	2,260.17	113.62	112.04	46.06	956.06	-4,457.10	684.72	512.73	171.99	3.981		
7,400.00	2,733.98	6,843.61	2,258.31	116.05	114.48	46.02	955.76	-4,557.08	685.13	509.55	175.58	3.902		
7,500.00	2,732.71	6,943.61	2,256.45	118.49	116.93	45.99	955.47	-4,657.06	685.53	506.37	179.17	3.826		
7,600.00	2,731.43	7,043.61	2,254.59	120.93	119.37	45.95	955.17	-4,757.04	685.94	503.19	182.75	3.753		
7,700.00	2,730.16	7,143.60	2,252.73	123.36	121.82	45.92	954.87	-4,857.02	686.35	500.01	186.34	3.683		
7,800.00	2,728.89	7,243.60	2,250.87	125.80	124.26	45.88	954.58	-4,957.00	686.75	496.84	189.92	3.616		
7,900.00	2,727.61	7,343.60	2,249.01	128.24	126.71	45.84	954.28	-5,056.98	687.16	493.67	193.50	3.551		
8,000.00	2,726.34	7,443.60	2,247.15	130.68	129.15	45.81	953.99	-5,156.96	687.57	490.50	197.07	3.489		
8,100.00	2,725.07	7,543.60	2,245.29	133.12	131.60	45.77	953.69	-5,256.94	687.98	487.33	200.64	3.429		
8,200.00	2,723.79	7,643.60	2,243.43	135.56	134.05	45.74	953.39	-5,356.92	688.39	484.17	204.22	3.371		
8,300.00	2,722.52	7,743.59	2,241.57	138.00	136.50	45.70	953.10	-5,456.90	688.79	481.01	207.78	3.315		
8,400.00	2,721.25	7,843.59	2,239.71	140.45	138.94	45.67	952.80	-5,556.88	689.20	477.86	211.35	3.261		
8,419.34	2,721.00	7,862.93	2,239.35	140.92	139.42	45.66	952.75	-5,576.22	689.28	477.25	212.04	3.251 ES	S, SF	

Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3566+20 @ 3586.00usft (planning)
Reference Site:	Greasewood 5 State Com	MD Reference:	3566+20 @ 3586.00usft (planning)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	5-201H	Database:	PRIME_EDM
Reference Design:	Plan 1r1	Offset TVD Reference:	Reference Datum

Offset Des	-		wood 5 Sta	ate Com - (Greasewo	ood 5 State (Com 105H (Sc	uth Slot2) -	5-105H - F	Plan 1r1			Offset Site Error:	0.00 usft
Survey Progr Refere		WD Offse	at	Semi Major	Avis				Dista	Ince			Offset Well Error:	0.00 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.00	0.00	0.00	0.00	0.00	0.00	178.60	-19.99	0.49	20.00					
100.00	100.00	100.00	100.00	0.31	0.31	178.60	-19.99	0.49	20.00	19.52	0.47	42.341		
200.00	200.00	200.00	200.00	0.95	0.95	178.60	-19.99	0.49	20.00	18.49	1.50	13.295		
300.00 400.00	300.00 400.00	300.00 400.00	300.00 400.00	1.46 1.89	1.46 1.89	178.60 178.60	-19.99 -19.99	0.49 0.49	20.00 20.00	17.63 16.84	2.36 3.15	8.457 6.340		
400.00	400.00	400.00	400.00	1.89	1.89	178.60	-19.99	0.49	20.00	16.64	3.15	6.340 6.109 C	C	
507.00	507.00	507.00	507.00	2.36	2.35	178.56	-19.99	0.50	20.00	16.02	3.97	5.031 E	c	
600.00	599.96	599.93	599.89	3.25	3.13	138.11	-19.99	3.10	20.00	17.06	4.77	4.575	3	
700.00	699.67	699.55	699.18	4.87	4.79	132.22	-19.86	10.90	28.07	22.03	6.04	4.647		
800.00	798.85	798.53	797.32	6.16	6.07	126.93	-19.71	23.77	38.93	31.72	7.21	5.399		
900.00	897.23	896.61	893.76	7.23	7.12	123.14	-19.49	41.52	54.41	46.08	8.34	6.525		
1,000.00	994.54	993.49	988.02	8.16	8.03	120.55	-19.22	63.89	74.38	64.94	9.44	7.881		
1,100.00	1,090.52	1,089.85	1,080.71	9.00	8.31	119.04	-18.89	90.23	98.45	88.15	10.30	9.556		
1,200.00	1,184.89	1,186.16	1,173.19	9.76	8.49	119.71	-18.57	117.09	125.23	114.01	11.22	11.160		
1,223.67	1,206.97	1,208.82	1,194.95	9.82	8.53	120.08	-18.49	123.41	131.94	120.51	11.43	11.543		
1,300.00	1,277.99	1,281.83	1,265.06	9.95	8.69	121.67	-18.24	143.78	153.90	141.79	12.11	12.705		
1,400.00	1,371.03	1,377.47	1,356.90	10.15	8.90	123.18	-17.91	170.46	182.79	169.76	13.03	14.024		
1,500.00	1,464.07	1,473.11	1,448.75	10.37	9.12	124.27	-17.59	197.14	211.77	197.79	13.98	15.148		
1,600.00	1,557.11	1,570.92	1,542.77	10.60	9.39	125.21	-17.26	224.08	240.72	225.77	14.95	16.105		
1,700.00	1,650.15	1,677.04	1,647.47	10.84	10.30	128.81	-16.94	240.40	267.07	251.11	15.96	16.730		
1,800.00	1,743.20	1,776.75	1,747.03	11.10	10.83	135.06	-16.73	237.90	291.97	274.14	17.83	16.378		
1,900.00	1,836.24	1,865.39	1,834.00	11.37	11.60	142.33	-16.60	221.23	319.64	300.81	18.83	16.978		
2,000.00	1,929.28	1,941.24	1,905.62	11.67	12.18	149.40	-16.54	196.46	353.92	334.61	19.32	18.320		
2,064.56	1,989.34	1,983.57	1,943.99	11.86	12.47	153.52	-16.53	178.58	380.66	361.12	19.55	19.474		
2,100.00	2,022.58	2,005.37	1,963.20	11.99	12.61	164.49	-16.53	168.28	396.64	377.00	19.64	20.197		
2,150.00	2,070.18	2,035.86	1,989.38	12.35	12.80	-177.24	-16.53	152.67	419.73	399.95	19.77	21.225		
2,200.00	2,118.28	2,066.07	2,014.48	12.81	12.97	-155.86	-16.55	135.85	442.98	423.06	19.92	22.239		
2,250.00	2,166.52	2,100.00	2,041.55	13.29	13.15	-133.41	-16.57	115.41	466.02	445.88	20.14	23.140		
2,300.00	2,214.53	2,125.87	2,061.36	13.72	13.27	-113.94	-16.60	98.77	488.42	468.15	20.27	24.091		
2,350.00	2,261.94	2,150.00	2,079.13	14.03	13.39	-98.63	-16.63	82.46	510.03	489.65	20.38	25.022		
2,400.00	2,308.40	2,185.04	2,103.69	14.23	13.53	-86.69	-16.68	57.47	530.48	509.82	20.65	25.683		
2,450.00	2,353.54	2,214.43	2,123.08	14.38	13.64	-77.83	-16.73	35.39	549.70	529.04	20.67	26.599		
2,500.00	2,397.04	2,250.00	2,144.99	14.53	13.76	-70.86	-16.80	7.38	567.56	546.79	20.77	27.325		
2,550.00	2,438.55	2,272.89	2,158.16	14.69	13.83	-65.69	-16.85	-11.35	583.77	563.23	20.54	28.426		
2,600.00	2,477.75	2,300.00	2,172.76	14.86	13.90	-61.48	-16.91	-34.18	598.39	577.96	20.42	29.302		
2,650.00	2,514.36	2,342.89	2,194.33	15.05	13.95	-57.85	-17.02	-71.26	610.95	590.24	20.71	29.500		
2,700.00	2,548.10	2,391.56	2,218.67	15.24	14.00	-55.06	-17.15	-113.41	620.29	599.08	21.22	29.236		
2,750.00	2,578.70	2,441.04	2,243.40	15.44	14.06	-53.07	-17.28	-156.26	626.15	604.27	21.88	28.615		
2,800.00	2,605.93	2,490.95	2,268.36	15.66	14.15	-51.78	-17.40	-199.48	628.44	605.78	22.66	27.734		
2,806.65	2,609.29	2,497.60	2,271.68	15.70	14.17	-51.66	-17.42	-205.24	628.47	605.70	22.76	27.608		
2,900.00	2,655.96	2,550.00	2,296.59	16.18	14.37	-51.56	-17.56	-251.32	630.71	607.44	23.27	27.099		
3,006.65	2,709.29	2,612.92	2,319.87	16.99	14.92	-50.92	-17.73	-309.73	640.76	616.62	24.14	26.548		
3,050.00	2,729.52	2,635.70	2,326.38	17.41	15.22	-50.19	-17.80	-331.56	646.19	621.71	24.48	26.394		
3,100.00	2,749.18	2,661.88	2,332.55	17.97	15.62	-49.48	-17.87	-356.99	651.56	626.50	25.06	25.995		
3,150.00	2,764.77	2,687.96	2,337.31	18.61	16.05	-48.92	-17.95	-382.63	655.94	630.17	25.76	25.460		
3,200.00	2,776.15	2,713.98	2,340.66	19.31	16.51	-48.50	-18.02	-408.43	659.27	632.71	26.56	24.824		
3,250.00	2,783.25	2,739.95	2,342.59	20.08	16.98	-48.21	-18.10	-434.33	661.53	634.09	27.44	24.109		
3,300.00	2,786.01	2,765.90	2,343.12	20.88	17.47	-48.07	-18.18	-460.26	662.70	634.30	28.40	23.333		
3,313.95	2,786.00	2,773.68	2,343.00	21.12	17.61	-48.05	-18.20	-468.05	662.83	634.16	28.67	23.122		
3,400.00	2,784.91 2,783.63	2,858.67	2,341.02	22.62	19.30	-47.99	-18.45	-553.01	663.44	632.26	31.18	21.280		
3,500.00		2,958.66	2,338.69	24.48	21.37	-47.92	-18.74	-652.98	664.15	629.90	34.25	19.392		

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Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3566+20 @ 3586.00usft (planning)
Reference Site:	Greasewood 5 State Com	MD Reference:	3566+20 @ 3586.00usft (planning)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	5-201H	Database:	PRIME_EDM
Reference Design:	Plan 1r1	Offset TVD Reference:	Reference Datum

Survey Progra Refere Measured							Com 105H (So							
Measured													Offset Well Error:	0.00 usft
		Offse		Semi Major		1 Park at da		0	Dista			0		
Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
3,600.00	2,782.36	3,058.66	2,336.36	26.45	23.53	-47.86	-19.04	-752.94	664.86	627.42	37.44	17.757		
3,700.00	2,781.09	3,158.65	2,334.03	28.50	25.74	-47.79	-19.33	-852.91	665.57	624.84	40.73	16.343		
3,800.00	2,779.81	3,258.65	2,331.70	30.61	27.99	-47.72	-19.63	-952.88	666.28	622.20	44.08	15.116		
3,900.00	2,778.54	3,358.64	2,329.37	32.76	30.28	-47.65	-19.92	-1,052.84	666.99	619.51	47.48	14.047		
4,000.00	2,777.27	3,458.63	2,327.04	34.96	32.59	-47.59	-20.22	-1,152.81	667.71	616.77	50.93	13.110		
4,100.00	2,775.99	3,558.63	2,324.70	37.19	34.92	-47.52	-20.51	-1,252.78	668.42	614.01	54.41	12.285		
4,200.00	2,774.72	3,658.62	2,322.37	39.45	37.27	-47.45	-20.81	-1,352.74	669.13	611.22	57.91	11.554		
4,300.00	2,773.45	3,758.62	2,320.04	41.73	39.63	-47.39	-21.10	-1,452.71	669.85	608.42	61.43	10.904		
4,400.00	2,772.17	3,858.61	2,317.71	44.03	42.00	-47.32	-21.39	-1,552.68	670.57	605.60	64.97	10.321		
4,500.00	2,770.90	3,958.61	2,315.38	46.35	44.38	-47.25	-21.69	-1,652.64	671.29	602.77	68.52	9.797		
4,600.00	2,769.63	4,058.60	2,313.05	48.68	46.76	-47.19	-21.98	-1,752.61	672.01	599.93	72.08	9.323		
4,700.00	2,768.35	4,158.60	2,310.72	51.02	49.16	-47.12	-22.28	-1,852.58	672.72	597.08	75.64	8.894		
4,800.00	2,767.08	4,258.59	2,308.39	53.37	51.56	-47.06	-22.57	-1,952.55	673.45	594.24	79.21	8.502		
4,900.00	2,765.81	4,358.58	2,306.06	55.73	53.97	-46.99	-22.87	-2,052.51	674.17	591.39	82.78	8.144		
5,000.00	2,764.54	4,458.58	2,303.73	58.10	56.38	-46.93	-23.16	-2,152.48	674.89	588.53	86.36	7.815		
5,100.00	2,763.26	4,558.57	2,301.40	60.48	58.79	-46.86	-23.46	-2,252.45	675.61	585.68	89.93	7.512		
5,200.00	2,761.99	4,658.57	2,299.07	62.86	61.21	-46.79	-23.75	-2,352.41	676.34	582.83	93.51	7.233		
5,300.00	2,760.72	4,758.56	2,296.74	65.25	63.63	-46.73	-24.05	-2,452.38	677.06	579.98	97.08	6.974		
5,400.00	2,759.44	4,858.56	2,294.41	67.64	66.05	-46.66	-24.34	-2,552.35	677.79	577.13	100.66	6.734		
5,500.00	2,758.17	4,958.55	2,292.08	70.04	68.47	-46.60	-24.64	-2,652.31	678.52	574.29	104.23	6.510		
5,600.00	2,756.90	5,058.54	2,289.75	72.44	70.90	-46.53	-24.93	-2,752.28	679.24	571.44	107.80	6.301		
5,700.00	2,755.62	5,158.54	2,287.42	74.84	73.33	-46.47	-25.22	-2,852.25	679.97	568.61	111.37	6.106		
5,800.00	2,754.35	5,258.53	2,285.09	77.25	75.76	-46.41	-25.52	-2,952.21	680.70	565.77	114.93	5.923		
5,900.00	2,753.08	5,358.53	2,282.76	79.66	78.19	-46.34	-25.81	-3,052.18	681.43	562.94	118.49	5.751		
6,000.00	2,751.80	5,458.52	2,280.43	82.07	80.63	-46.28	-26.11	-3,152.15	682.16	560.11	122.05	5.589		
6,100.00	2,750.53	5,558.52	2,278.10	84.49	83.06	-46.21	-26.40	-3,252.11	682.89	557.29	125.60	5.437		
6,200.00	2,749.26	5,658.51	2,275.76	86.91	85.50	-46.15	-26.70	-3,352.08	683.63	554.47	129.15	5.293		
6,300.00	2,747.98	5,758.51	2,273.43	89.33	87.94	-46.09	-26.99	-3,452.05	684.36	551.66	132.70	5.157		
6,400.00	2,746.71	5,858.50	2,271.10	91.75	90.37	-46.02	-27.29	-3,552.01	685.10	548.86	136.24	5.029		
6,500.00	2,745.44	5,958.49	2,268.77	94.18	92.81	-45.96	-27.58	-3,651.98	685.83	546.05	139.78	4.907		
6,600.00	2,744.16	6,058.49	2,266.44	96.60	95.25	-45.89	-27.88	-3,751.95	686.57	543.26	143.31	4.791		
6,700.00	2,742.89	6,158.48	2,264.11	99.03	97.69	-45.83	-28.17	-3,851.91	687.30	540.47	146.84	4.681		
6,800.00	2,741.62	6,258.48	2,261.78	101.46	100.13	-45.77	-28.46	-3,951.88	688.04	537.68	150.36	4.576		
6,900.00	2,740.34	6,358.47	2,259.45	103.89	102.58	-45.71	-28.76	-4,051.85	688.78	534.90	153.88	4.476		
7,000.00	2,739.07	6,458.47	2,257.12	106.32	105.02	-45.64	-29.05	-4,151.82	689.52	532.13	157.39	4.381		
7,100.00	2,737.80	6,558.46	2,254.79	108.75	107.46	-45.58	-29.35	-4,251.78	690.26	529.36	160.90	4.290		
7,200.00	2,736.52	6,658.46	2,252.46	111.18	109.91	-45.52	-29.64	-4,351.75	691.00	526.60	164.40	4.203		
7,300.00	2,735.25	6,758.45	2,250.13	113.62	112.35	-45.45	-29.94	-4,451.72	691.74	523.85	167.90	4.120		
7,400.00	2,733.98	6,858.44	2,247.80	116.05	114.80	-45.39	-30.23	-4,551.68	692.49	521.10	171.39	4.040		
7,500.00	2,732.71	6,958.44	2,245.47	118.49	117.24	-45.33	-30.53	-4,651.65	693.23	518.36	174.87	3.964		
7,600.00	2,731.43	7,058.43	2,243.14	120.93	119.69	-45.27	-30.82	-4,751.62	693.98	515.62	178.36	3.891		
7,700.00	2,730.16	7,158.43	2,240.81	123.36	122.13	-45.21	-31.12	-4,851.58	694.72	512.89	181.83	3.821		
7,800.00	2,728.89	7,258.42	2,238.48	125.80	124.58	-45.14	-31.41	-4,951.55	695.47	510.17	185.30	3.753		
7,900.00	2,727.61	7,358.42	2,236.15	128.24	127.03	-45.08	-31.70	-5,051.52	696.21	507.45	188.77	3.688		
8,000.00	2,726.34	7,458.41	2,233.82	130.68	129.47	-45.02	-32.00	-5,151.48	696.96	504.74	192.23	3.626		
8,100.00	2,725.07	7,558.41	2,231.49	133.12	131.92	-44.96	-32.29	-5,251.45	697.71	502.03	195.68	3.566		
8,200.00	2,723.79	7,658.40	2,229.16	135.56	134.37	-44.90	-32.59	-5,351.42	698.46	499.33	199.13	3.508		
8,300.00	2,722.52	7,758.39	2,226.82	138.00	136.82	-44.84	-32.88	-5,451.38	699.21	496.64	202.57	3.452		
8,400.00	2,721.25	7,858.39	2,224.49	140.45	138.80	-44.78	-33.18	-5,551.35	699.96	494.31	205.65	3.404	-	
8,419.34	2,721.00	7,877.73	2,224.04	140.92	139.12	-44.76	-33.23	-5,570.68	700.11	493.91	206.19	3.395 \$	SF	

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

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Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3566+20 @ 3586.00usft (planning)
Reference Site:	Greasewood 5 State Com	MD Reference:	3566+20 @ 3586.00usft (planning)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	5-201H	Database:	PRIME_EDM
Reference Design:	Plan 1r1	Offset TVD Reference:	Reference Datum

Offset Des	•		wood 5 Sta	ate Com - (Greasewo	od 5 State (Com 154H (Sc	outh Slot3) -	5-154H - I	Plan 1r1			Offset Site Error:	0.00 usft
Survey Progr Refere		WD Offse	et	Semi Major	Axis				Dista	ince			Offset Well Error:	0.00 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.00	0.00	0.00	0.00	0.00	0.00	178.61	-39.98	0.97	39.99					
100.00	100.00	100.00	100.00	0.31	0.31	178.61	-39.98	0.97	39.99	39.52	0.47	84.666		
200.00	200.00	200.00	200.00	0.95	0.95	178.61	-39.98	0.97	39.99	38.49	1.50	26.587		
300.00	300.00	300.00	300.00	1.46	1.46	178.61	-39.98	0.97	39.99	37.63	2.36	16.912		
400.00	400.00	400.00	400.00	1.89	1.89	178.61	-39.98	0.97	39.99	36.84	3.15	12.679	00 50	
507.00	507.00	507.00	507.00	2.36	2.36	178.61	-39.98	0.97	39.99	36.00	4.00	10.009	CC, ES	
600.00	599.96	598.52	598.49	3.25	2.61	141.04	-41.49	2.56	43.34	38.27	5.07	8.547		
700.00	699.67	696.13	695.82	4.87	4.27	140.36	-46.44	7.73	54.36	46.85	7.51	7.240		
800.00	798.85	792.08	791.02	6.16	5.65	139.59	-54.65	16.32	72.97	63.52	9.45	7.719		
900.00	897.23	885.60	883.13	7.23	6.72	138.87	-65.82	28.01	98.95	87.89	11.05	8.951		
1,000.00	994.54	976.02	971.32	8.16	7.62	138.19	-79.57	42.40	132.03	119.59	12.44	10.613		
1,100.00	1,090.52	1,062.75	1,054.94	9.00	8.39	137.49	-95.45	59.02	171.86	158.19	13.67	12.572		
1,200.00	1,184.89	1,145.36	1,133.54	9.76	9.07	136.75	-113.00	77.38	218.07	203.29	14.78	14.754		
1,223.67	1,206.97	1,164.27	1,151.37	9.82	9.21	136.56	-117.35	81.93	229.89	214.91	14.98	15.346		
1,300.00	1,277.99	1,224.05	1,207.32	9.95	9.68	136.67	-131.89	97.15	269.29	253.71	15.58	17.279		
1,400.00	1,371.03	1,305.33	1,282.29	10.15	10.31	136.33	-153.59	119.85	323.13	306.66	16.47	19.618		
1,500.00	1,464.07	1,382.62	1,352.92	10.37	10.59	135.89	-175.26	142.54	378.24	361.18	17.06	22.166		
1,600.00	1,557.11	1,465.99	1,429.11	10.60	10.78	135.53	-198.65	167.00	433.42	415.73	17.69	24.500		
1,700.00	1,650.15	1,549.37	1,505.31	10.84	10.96	135.25	-222.03	191.47	488.60	470.28	18.33	26.661		
1,800.00	1,743.20	1,632.74	1,581.50	11.10	11.15	135.03	-245.41	215.94	543.80	524.80	19.00	28.627		
1,900.00	1,836.24	1,716.11	1,657.70	11.37	11.35	134.85	-268.79	240.41	598.99	579.30	19.70	30.413		
2,000.00	1,929.28	1,799.48	1,733.89	11.67	11.57	134.70	-292.18	264.88	654.20	633.77	20.42	32.036		
2,064.56	1,989.34	1,861.99	1,791.50	11.86	11.76	134.76	-309.60	281.65	689.61	668.57	21.04	32.774		
2,100.00	2,022.58	1,899.33	1,826.72	11.99	11.94	144.45	-319.79	288.73	708.65	687.13	21.52	32.936		
2,150.00	2,070.18	1,952.79	1,877.90	12.35	12.17	161.11	-333.96	294.71	734.85	712.71	22.14	33.189		
2,200.00	2,118.28	2,007.31	1,930.60	12.81	12.28	-178.90	-347.79	295.74	760.09	737.55	22.55	33.710		
2,250.00	2,166.52	2,063.01	1,984.49	13.29	12.46	-157.83	-361.16	291.50	784.15	761.27	22.88	34.279		
2,300.00	2,214.53	2,119.99	2,039.12	13.72	12.79	-139.08	-373.91	281.66	806.79	783.51	23.29	34.644		
2,350.00	2,261.94	2,178.26	2,093.92	14.03	13.20	-124.29	-385.83	265.95	827.83	804.01	23.82	34.747		
2,400.00	2,308.40	2,237.75	2,148.17	14.23	13.65	-113.16	-396.72	244.18	847.06	822.70	24.35	34.781		
2,450.00	2,353.54	2,298.31	2,201.04	14.38	14.09	-104.75	-406.35	216.32	864.30	839.50	24.80	34.847		
2,500.00	2,397.04	2,359.70	2,251.61	14.53	14.51	-98.27	-414.51	182.52	879.39	854.21	25.18	34.919		
2,550.00	2,438.55	2,421.62	2,298.93	14.69	14.90	-93.16	-421.02	143.16	892.21	866.67	25.54	34.932		
2,600.00	2,477.75	2,483.69	2,342.10	14.86	15.27	-89.06	-425.72	98.86	902.64	876.72	25.92	34.822		
2,650.00	2,514.36	2,545.50	2,380.34	15.05	15.63	-85.72	-428.53	50.43	910.60	884.23	26.37	34.533		
2,700.00	2,548.10	2,606.62	2,413.08	15.24	15.99	-82.98	-429.45	-1.15	916.07	889.15	26.92	34.028		
2,750.00	2,578.70	2,655.05	2,437.32	15.44	16.27	-81.02	-429.59	-43.08	919.36	891.83	27.54	33.387		
2,800.00	2,605.93	2,704.96	2,462.27	15.66	16.58	-79.74	-429.71	-86.30	920.65	892.41	28.25	32.594		
2,806.65	2,609.29	2,711.61	2,465.60	15.70	16.63	-79.62	-429.73	-92.06	920.67	892.31	28.36	32.466		
2,895.56	2,653.74	2,800.52	2,510.05	16.15	17.24	-79.62	-429.96	-169.06	920.67	890.69	29.98	30.713		
2,900.00	2,655.96	2,801.14	2,510.36	16.18	17.25	-79.62	-429.96	-169.59	920.68	890.67	30.01	30.678		
2 000 05	2 700 20	2 000 17	2 547 20	10.00	10.05	70.00	400.40	046 44	000 40	000 44	20.05	20 770		
3,006.65 3,050.00	2,709.29 2,729.52	2,886.17 2,918.95	2,547.26 2,558.40	16.99 17.41	18.05 18.42	-79.23 -78.84	-430.19 -430.28	-246.11 -276.94	922.19 923.34	890.14 890.39	32.05 32.95	28.772 28.020		
3,100.00	2,729.52	2,918.95	2,558.40	17.41	18.88	-78.45	-430.28	-276.94	923.34 924.52	890.39	32.95	28.020		
3,150.00	2,749.18	3,000.00	2,508.98	18.61	19.46	-78.45	-430.59	-315.02	924.52	890.43	35.44	26.116		
3,200.00	2,776.15	3,031.29	2,582.87	19.31	19.92	-77.89	-430.61	-386.39	926.30	889.62	36.68	25.251		
3,250.00	2,783.25	3,068.48	2,586.19	20.08	20.48	-77.72	-430.72	-423.43	926.87	888.77	38.10	24.328		
3,300.00	2,786.01	3,105.61	2,587.10	20.88	21.07	-77.61	-430.83	-460.54	927.20	887.62	39.57	23.431		
3,313.95	2,786.00	3,116.96	2,586.92	21.12	21.26	-77.60	-430.87 -431.13	-471.89	927.24	887.23	40.01	23.175		
3,400.00 3,500.00	2,784.91 2,783.63	3,203.01 3,303.01	2,585.13 2,583.05	22.62 24.48	22.74 24.60	-77.56 -77.51	-431.13 -431.43	-557.92 -657.90	927.40 927.58	884.30 880.68	43.10 46.90	21.517 19.776		
	2,100.00	0,000.01	2,000.00	24.40	24.00	-11.01	-401.40	-007.90	321.30	000.00	40.90	19.110		

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Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3566+20 @ 3586.00usft (planning)
Reference Site:	Greasewood 5 State Com	MD Reference:	3566+20 @ 3586.00usft (planning)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	5-201H	Database:	PRIME_EDM
Reference Design:	Plan 1r1	Offset TVD Reference:	Reference Datum

Offset Des	Offset Design Greasewood 5 State Com - Greasewood 5 State Com 154H (South Slot3) - 5-154H - Plan 1r1									Plan 1r1			Offset Site Error:	0.00 usft
Survey Progr		WD						,					Offset Well Error:	0.00 usft
Refere		Offse		Semi Major		Llinheide	Offeret Wallbar	- Comtro	Dista		Minimum	Conception		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
3,600.00	2,782.36	3,403.01	2,580.97	26.45	26.57	-77.46	-431.73	-757.87	927.76	876.89	50.87	18.236		
3,700.00	2,781.09	3,503.00	2,578.89	28.50	28.62	-77.41	-432.03	-857.85	927.95	872.97	54.98	16.879		
3,800.00	2,779.81	3,603.00	2,576.81	30.61	30.74	-77.36	-432.33	-957.82	928.13	868.95	59.18	15.683		
3,900.00	2,778.54	3,703.00	2,574.73	32.76	32.91	-77.31	-432.63	-1,057.80	928.32	864.85	63.47	14.626		
4,000.00	2,777.27	3,802.99	2,572.65	34.96	35.12	-77.27	-432.93	-1,157.77	928.50	860.68	67.82	13.690		
4,100.00	2,775.99	3,902.99	2,570.57	37.19	37.36	-77.22	-433.24	-1,257.75	928.69	856.46	72.23	12.857		
4,200.00	2,774.72	4,002.99	2,568.49	39.45	39.63	-77.17	-433.54	-1,357.72	928.87	852.19	76.68	12.113		
4,300.00	2,773.45	4,102.98	2,566.41	41.73	41.92	-77.12	-433.84	-1,457.70	929.06	847.89	81.17	11.446		
4,400.00	2,772.17	4,202.98	2,564.33	44.03	44.22	-77.07	-434.14	-1,557.67	929.25	843.56	85.69	10.844		
4,500.00	2,770.90	4,302.98	2,562.25	46.35	46.55	-77.02	-434.44	-1,657.64	929.44	839.20	90.23	10.300		
4,600.00	2,769.63	4,402.97	2,560.17	48.68	48.89	-76.98	-434.74	-1,757.62	929.63	834.82	94.80	9.806		
4,700.00	2,768.35	4,502.97	2,558.09	51.02	51.24	-76.93	-435.05	-1,857.59	929.81	830.43	99.39	9.356		
4,800.00	2,767.08	4,602.97	2,556.01	53.37	53.60	-76.88	-435.35	-1,957.57	930.01	826.02	103.99	8.943		
4,900.00	2,765.81	4,702.96	2,553.93	55.73	55.96	-76.83	-435.65	-2,057.54	930.20	821.59	108.60	8.565		
5,000.00	2,764.54	4,802.96	2,551.85	58.10	58.34	-76.78	-435.95	-2,157.52	930.39	817.16	113.23	8.217		
5,100.00	2,763.26	4,902.96	2,549.77	60.48	60.72	-76.73	-436.25	-2,257.49	930.58	812.72	117.86	7.895		
5,200.00	2,761.99	5,002.95	2,547.69	62.86	63.11	-76.69	-436.55	-2,357.47	930.77	808.26	122.51	7.598		
5,300.00	2,760.72	5,102.95	2,545.61	65.25	65.50	-76.64	-436.85	-2,457.44	930.97	803.80	127.16	7.321		
5,400.00	2,759.44	5,202.95	2,543.53	67.64	67.90	-76.59	-437.16	-2,557.42	931.16	799.34	131.82	7.064		
5,500.00	2,758.17	5,302.94	2,541.45	70.04	70.30	-76.54	-437.46	-2,657.39	931.36	794.87	136.49	6.824		
5,600.00	2,756.90	5,402.94	2,539.37	72.44	72.71	-76.49	-437.76	-2,757.37	931.55	790.40	141.16	6.599		
5,700.00	2,755.62	5,502.94	2,537.29	74.84	75.11	-76.45	-438.06	-2,857.34	931.75	785.92	145.83	6.389		
5,800.00	2,754.35	5,602.93	2,535.21	77.25	77.53	-76.40	-438.36	-2,957.32	931.95	781.44	150.51	6.192		
5,900.00	2,753.08	5,702.93	2,533.13	79.66	79.94	-76.35	-438.66	-3,057.29	932.14	776.95	155.19	6.006		
6,000.00	2,751.80	5,802.93	2,531.05	82.07	82.36	-76.30	-438.96	-3,157.26	932.34	772.47	159.87	5.832		
6,100.00	2,750.53	5,902.93	2,528.97	84.49	84.78	-76.25	-439.27	-3,257.24	932.54	767.98	164.56	5.667		
6,200.00	2,749.26	6,002.92	2,526.89	86.91	87.20	-76.21	-439.57	-3,357.21	932.74	763.49	169.25	5.511		
6,300.00	2,747.98	6,102.92	2,524.81	89.33	89.62	-76.16	-439.87	-3,457.19	932.94	759.00	173.94	5.364		
6,400.00	2,746.71	6,202.92	2,522.73	91.75	92.04	-76.11	-440.17	-3,557.16	933.14	754.51	178.63	5.224		
6,500.00	2,745.44	6,302.91	2,520.65	94.18	94.47	-76.06	-440.47	-3,657.14	933.34	750.02	183.32	5.091		
6,600.00	2,744.16	6,402.91	2,518.57	96.60	96.90	-76.01	-440.77	-3,757.11	933.55	745.53	188.01	4.965		
6,700.00	2,742.89	6,502.91	2,516.49	99.03	99.33	-75.97	-441.07	-3,857.09	933.75	741.04	192.71	4.845		
6,800.00	2,741.62	6,602.90	2,514.41	101.46	101.76	-75.92	-441.38	-3,957.06	933.95	736.55	197.40	4.731		
6,900.00	2,740.34	6,702.90	2,512.33	103.89	104.19	-75.87	-441.68	-4,057.04	934.16	732.06	202.10	4.622		
7,000.00	2,739.07	6,802.90	2,510.25	106.32	106.62	-75.82	-441.98	-4,157.01	934.36	727.57	206.79	4.518		
7,100.00	2,737.80	6,902.89	2,508.17	108.75	109.06	-75.77	-442.28	-4,256.99	934.57	723.08	211.49	4.419		
7,200.00	2,736.52	7,002.89	2,506.09	111.18	111.49	-75.73	-442.58	-4,356.96	934.77	718.59	216.18	4.324		
7,300.00	2,735.25	7,102.89	2,504.01	113.62	113.93	-75.68	-442.88	-4,456.94	934.98	714.10	220.88	4.233		
7,400.00	2,733.98	7,202.88	2,501.93	116.05	116.36	-75.63	-443.19	-4,556.91	935.19	709.62	225.57	4.146		
7,500.00	2,732.71	7,302.88	2,499.85	118.49	118.80	-75.58	-443.49	-4,656.88	935.39	705.13	230.26	4.062		
7,600.00	2,731.43	7,402.88	2,497.77	120.93	121.24	-75.54	-443.79	-4,756.86	935.60	700.65	234.96	3.982		
7,700.00	2,730.16	7,502.87	2,495.70	123.36	123.68	-75.49	-444.09	-4,856.83	935.81	696.16	239.65	3.905		
7,800.00	2,728.89	7,602.87	2,493.62	125.80	126.12	-75.44	-444.39	-4,956.81	936.02	691.68	244.34	3.831		
7,900.00	2,727.61	7,702.87	2,491.54	128.24	128.56	-75.39	-444.69	-5,056.78	936.23	687.20	249.03	3.759		
8,000.00	2,726.34	7,802.86	2,489.46	130.68	131.00	-75.34	-444.99	-5,156.76	936.44	682.72	253.72	3.691		
8,100.00	2,725.07	7,902.86	2,487.38	133.12	133.44	-75.30	-445.30	-5,256.73	936.66	678.25	258.41	3.625		
8,200.00	2,723.79	8,002.86	2,485.30	135.56	135.88	-75.25	-445.60	-5,356.71	936.87	673.77	263.10	3.561		
8,300.00	2,722.52	8,102.85	2,483.22	138.00	138.33	-75.20	-445.90	-5,456.68	937.08	669.30	267.79	3.499		
8,400.00	2,721.25	8,202.85	2,481.14	140.45	140.77	-75.15	-446.20	-5,556.66	937.30	664.83	272.47	3.440		
8,419.34	2,721.00	8,209.41	2,481.00	140.92	140.93	-75.15	-446.22	-5,563.21	937.43	664.39	273.03	3.433 \$	SF	
3, 10.04	2,.21.00	5,200.71	2,101.00	140.02	0.00			5,500.21	501.40	304.00	210.00	0.400 (

Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3566+20 @ 3586.00usft (planning)
Reference Site:	Greasewood 5 State Com	MD Reference:	3566+20 @ 3586.00usft (planning)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	5-201H	Database:	PRIME_EDM
Reference Design:	Plan 1r1	Offset TVD Reference:	Reference Datum

Offset De	sign	Grease	wood 5 St	ate Com -	Greasewo	od BD State	e 10 (Offset) A	ctive - GW	BD ST 10	- GW BD	ST 10 A		Offset Site Error:	0.00 usft
Survey Prog		-INC-ONLY											Offset Well Error:	0.00 usft
Refer	rence	Offse		Semi Major	Axis				Dista	ance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,300.00	2,760.72	2,789.86	2,760.72	65.25	71.45	92.05	800.08	-3,403.06	995.14	918.17	76.97	12.929		
5,400.00	2,759.44	2,788.58	2,759.44	67.64	71.42	91.83	800.08	-3,403.06	901.57	822.84	78.73	11.452		
5,500.00	2,758.17	2,787.31	2,758.17	70.04	71.39	91.61	800.08	-3,403.06	809.54	728.45	81.09	9.983		
5,600.00	2,756.90	2,786.04	2,756.90	72.44	71.36	91.39	800.08	-3,403.06	719.63	635.35	84.28	8.538		
5,700.00	2,755.62	2,784.76	2,755.62	74.84	71.33	91.17	800.08	-3,403.06	632.76	544.12	88.64	7.139		
5,800.00	2,754.35	2,783.49	2,754.35	77.25	71.30	90.96	800.08	-3,403.06	550.37	455.72	94.65	5.815		
5,900.00	2,753.08	2,782.22	2,753.08	79.66	71.27	90.74	800.08	-3,403.06	474.78	371.74	103.03	4.608		
6,000.00	2,751.80	2,780.94	2,751.80	82.07	71.25	90.52	800.08	-3,403.06	409.78	295.18	114.60	3.576		
6,100.00	2,750.53	2,779.67	2,750.53	84.49	71.22	90.30	800.08	-3,403.06	361.14	231.79	129.35	2.792		
6,200.00	2,749.26	2,778.40	2,749.26	86.91	71.19	90.08	800.08	-3,403.06	336.04	191.79	144.25	2.330		
6,237.51	2,748.78	2,777.92	2,748.78	87.82	71.18	90.00	800.08	-3,403.06	333.94	185.32	148.62	2.247 CC,	ES	
6,300.00	2,747.98	2,777.12	2,747.98	89.33	71.16	89.86	800.08	-3,403.06	339.74	186.49	153.24	2.217 SF		
6,400.00	2,746.71	2,775.85	2,746.71	91.75	71.13	89.65	800.08	-3,403.06	371.37	217.92	153.45	2.420		
6,500.00	2,745.44	2,774.58	2,745.44	94.18	71.10	89.43	800.08	-3,403.06	424.74	276.94	147.80	2.874		
6,600.00	2,744.16	2,773.30	2,744.16	96.60	71.07	89.21	800.08	-3,403.06	492.84	352.58	140.26	3.514		
6,700.00	2,742.89	2,772.03	2,742.89	99.03	71.04	88.99	800.08	-3,403.06	570.42	437.46	132.96	4.290		
6,800.00	2,741.62	2,770.76	2,741.62	101.46	71.02	88.77	800.08	-3,403.06	654.11	527.51	126.60	5.167		
6,900.00	2,740.34	2,769.48	2,740.34	103.89	70.99	88.55	800.08	-3,403.06	741.85	620.59	121.26	6.118		
7,000.00	2,739.07	2,768.21	2,739.07	106.32	70.96	88.33	800.08	-3,403.06	832.35	715.53	116.82	7.125		
7,100.00	2,737.80	2,766.94	2,737.80	108.75	70.93	88.12	800.08	-3,403.06	924.82	811.69	113.13	8.175		

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Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3566+20 @ 3586.00usft (planning)
Reference Site:	Greasewood 5 State Com	MD Reference:	3566+20 @ 3586.00usft (planning)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	5-201H	Database:	PRIME_EDM
Reference Design:	Plan 1r1	Offset TVD Reference:	Reference Datum

Offset De	sign	Grease	wood 5 St	ate Com - (Greasewo	ood BD State	e 8 (Offset) PA	- GW BD S	ST 8 - GW	BD ST 8 A	AsDrille		Offset Site Error:	0.00 usft
Survey Prog	ram: 360-	-INC-ONLY											Offset Well Error:	0.00 usft
Refer	ence	Offse	et	Semi Major	Axis				Dista	ince				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
7,300.00	2,735.25	2,764.41	2,735.25	113.62	142.92	-90.16	-497.59	-4,669.85	982.32	746.78	235.53	4.171		
7,400.00	2,733.98	2,763.14	2,733.98	116.05	142.83	-90.08	-497.59	-4,669.85	966.08	733.69	232.39	4.157 SF		
7,500.00	2,732.71	2,761.87	2,732.71	118.49	142.73	-90.01	-497.59	-4,669.85	960.04	732.86	227.17	4.226 ES	;	
7,508.21	2,732.60	2,761.76	2,732.60	118.69	142.72	-90.00	-497.59	-4,669.85	960.00	733.35	226.65	4.236 CC	;	
7,600.00	2,731.43	2,760.59	2,731.43	120.93	142.64	-89.93	-497.59	-4,669.85	964.38	744.32	220.06	4.382		
7,700.00	2,730.16	2,759.32	2,730.16	123.36	142.55	-89.85	-497.59	-4,669.85	978.97	767.49	211.48	4.629		

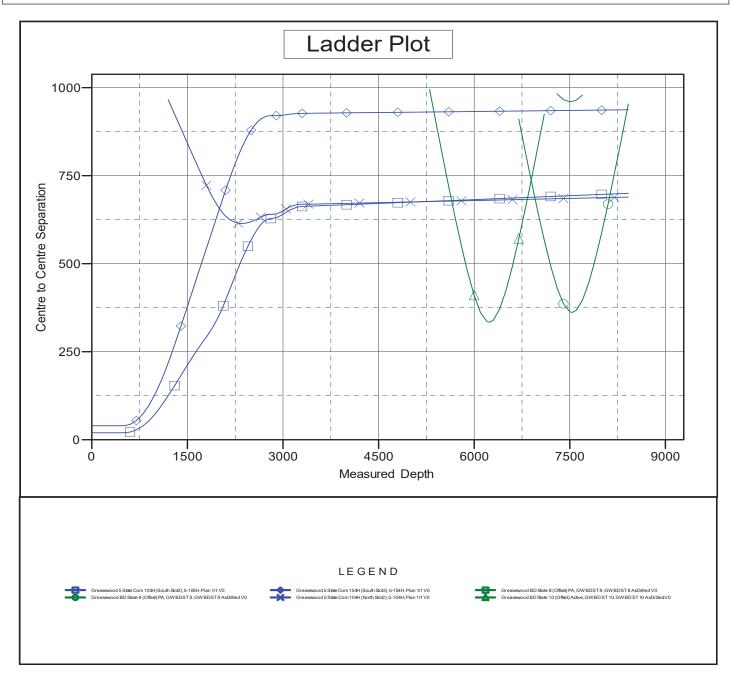
08/18/23 6:07:33PM

Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3566+20 @ 3586.00usft (planning)
Reference Site:	Greasewood 5 State Com	MD Reference:	3566+20 @ 3586.00usft (planning)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	5-201H	Database:	PRIME_EDM
Reference Design:	Plan 1r1	Offset TVD Reference:	Reference Datum

Offset De	sign	Grease	wood 5 St	ate Com - (Greasewo	od BD State	e 9 (Offset) PA	- GW BD S	ST 9 - GW	BD ST 9 A	AsDrille		Offset Site Error:	0.00 usft
Survey Prog	ram: 377	-INC-ONLY					. ,						Offset Well Error:	0.00 usft
Refer		Offse		Semi Major					Dista	ance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
6,700.00	2,742.89	2,772.26	2,742.89	99.03	71.54	91.69	823.88	-4,702.03	911.24	815.20	96.04	9.488		
6,800.00	2,741.62	2,770.98	2,741.62	101.46	71.52	91.49	823.88	-4,702.03	820.42	719.93	100.49	8.164		
6,900.00	2,740.34	2,769.71	2,740.34	103.89	71.49	91.28	823.88	-4,702.03	731.99	625.87	106.12	6.898		
7,000.00	2,739.07	2,768.44	2,739.07	106.32	71.47	91.08	823.88	-4,702.03	646.93	533.64	113.30	5.710		
7,100.00	2,737.80	2,767.16	2,737.80	108.75	71.45	90.88	823.88	-4,702.03	566.78	444.26	122.52	4.626		
7,200.00	2,736.52	2,765.89	2,736.52	111.18	71.42	90.68	823.88	-4,702.03	493.91	359.58	134.33	3.677		
7,300.00	2,735.25	2,764.62	2,735.25	113.62	71.40	90.48	823.88	-4,702.03	432.03	283.11	148.93	2.901		
7,400.00	2,733.98	2,763.34	2,733.98	116.05	71.38	90.28	823.88	-4,702.03	386.47	221.26	165.21	2.339		
7,500.00	2,732.71	2,762.07	2,732.71	118.49	71.35	90.07	823.88	-4,702.03	363.40	184.05	179.35	2.026		
7,536.51	2,732.24	2,761.61	2,732.24	119.38	71.34	90.00	823.88	-4,702.03	361.56	178.68	182.87	1.977 CC	C, ES	
7,600.00	2,731.43	2,760.80	2,731.43	120.93	71.33	89.87	823.88	-4,702.03	367.09	181.06	186.03	1.973 SF	:	
7,700.00	2,730.16	2,759.52	2,730.16	123.36	71.31	89.67	823.88	-4,702.03	396.80	213.23	183.57	2.162		
7,800.00	2,728.89	2,758.25	2,728.89	125.80	71.28	89.47	823.88	-4,702.03	447.37	272.11	175.26	2.553		
7,900.00	2,727.61	2,756.98	2,727.61	128.24	71.26	89.27	823.88	-4,702.03	512.67	347.56	165.11	3.105		
8,000.00	2,726.34	2,755.70	2,726.34	130.68	71.24	89.07	823.88	-4,702.03	587.80	432.40	155.40	3.782		
8,100.00	2,725.07	2,754.43	2,725.07	133.12	71.21	88.86	823.88	-4,702.03	669.47	522.55	146.92	4.557		
8,200.00	2,723.79	2,753.16	2,723.79	135.56	71.19	88.66	823.88	-4,702.03	755.56	615.80	139.76	5.406		
8,300.00	2,722.52	2,751.88	2,722.52	138.00	71.17	88.46	823.88	-4,702.03	844.72	710.94	133.78	6.314		
8,400.00	2,721.25	2,750.61	2,721.25	140.45	71.14	88.26	823.88	-4,702.03	936.06	807.29	128.78	7.269		
8,419.34	2,721.00	2,750.37	2,721.00	140.92	71.14	88.22	823.88	-4,702.03	953.93	826.03	127.90	7.458		

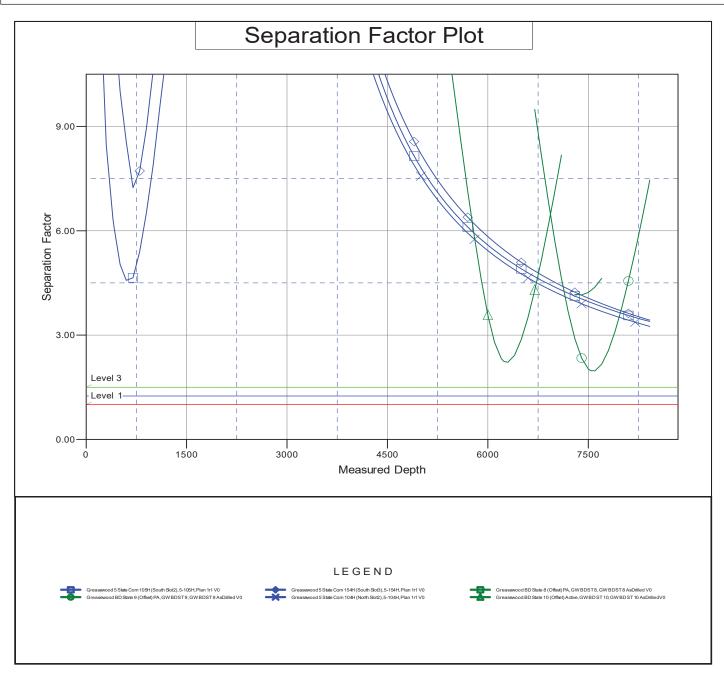
Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3566+20 @ 3586.00usft (planning)
Reference Site:	Greasewood 5 State Com	MD Reference:	3566+20 @ 3586.00usft (planning)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	5-201H	Database:	PRIME_EDM
Reference Design:	Plan 1r1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to 3566+20 @ 3586.00usft (planning) Offset Depths are relative to Offset Datum Central Meridian is -104.3333333 Coordinates are relative to: Greasewood 5 State Com 201H (South Slot1) Coordinate System is US State Plane 1983, New Mexico Eastern Zone Grid Convergence at Surface is: -0.09°



Company:	SILVERBACK EXPLORATION	Local Co-ordinate Reference:	Well Greasewood 5 State Com 201H (South Slot1)
Project:	EDDY COUNTY, NM (NAD83) NMEZ GRID	TVD Reference:	3566+20 @ 3586.00usft (planning)
Reference Site:	Greasewood 5 State Com	MD Reference:	3566+20 @ 3586.00usft (planning)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Greasewood 5 State Com 201H (South Slot1)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	5-201H	Database:	PRIME_EDM
Reference Design:	Plan 1r1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to 3566+20 @ 3586.00usft (planning) Offset Depths are relative to Offset Datum Central Meridian is -104.3333333 Coordinates are relative to: Greasewood 5 State Com 201H (South Slot1) Coordinate System is US State Plane 1983, New Mexico Eastern Zone Grid Convergence at Surface is: -0.09°



		Stat	e of New Me	exico			Subm	it Electronically
	I	Energy, Minerals a	nd Natural Re	sources Departme	ent			-permitting
		1220 \$	onservation D South St. Fran Ita Fe, NM 87	ncis Dr.				
	ľ	NATURAL G	AS MANA	GEMENT P	LAN			
This Natural Gas Mana	gement Plan r	nust be submitted w	ith each Applica	ation for Permit to I	Drill (AF	PD) for a	new or	recompleted well.
			1 – Plan I ffective May 25					
I. Operator: Silverbac	ek Operating I	II, LLC	OGRID:	330968		Date:	08 / 2	25 / 2023
II. Type: 🛛 Original 🗆	Amendmen	t due to □ 19.15.27.	9.D(6)(a) NMA	C 🗆 19.15.27.9.D(6	6)(b) NN	ИАС 🗆 С	Other.	
If Other, please describe	:							
III. Well(s): Provide the be recompleted from a s	e following in single well pao	formation for each 1 d or connected to a c ULSTR	central delivery	eted well or set of w point. Anticipated		posed to		ed or proposed to Anticipated
wen Name	API	ULSIK	Footages	-				oduced Water
				Oil BBL/D	Gas N	MCF/D	Pr	BBL/D
See attached table				Oil BBL/D	Gas N	MCF/D		
See attached table				Oil BBL/D	Gas N	MCF/D		
See attached table				Oil BBL/D	Gas N	MCF/D		
See attached table IV. Central Delivery P V. Anticipated Schedu	le: Provide th	e following informa	tion for each ne	1 CDP w or recompleted w		[See 1	9.15.27	BBL/D
IV. Central Delivery P V. Anticipated Schedu	le: Provide th	e following informa	tion for each ne	1 CDP w or recompleted w	vell or se	[See 1	9.15.27 propos	BBL/D 7.9(D)(1) NMAC]
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple	le: Provide th eted from a si	e following informa ngle well pad or con	tion for each ne nected to a cent TD Reached	1 CDP w or recompleted w tral delivery point. Completion	vell or se	[See 1 t of wells Initial F	9.15.27 propos	BBL/D 7.9(D)(1) NMAC] sed to be drilled or First Production
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple Well Name	le: Provide th eted from a si	e following informa ngle well pad or con	tion for each ne nected to a cent TD Reached	1 CDP w or recompleted w tral delivery point. Completion	vell or se	[See 1 t of wells Initial F	9.15.27 propos	BBL/D 7.9(D)(1) NMAC] sed to be drilled or First Production
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IV. Central Delivery P V. Anticipated Schedu proposed to be recomple Well Name	le: Provide th eted from a sin API	e following informa ngle well pad or con Spud Date	tion for each ne nected to a cent TD Reached Date	I CDP w or recompleted w tral delivery point. Completion Commencement	rell or se	[See 1 t of wells Initial F Back I	9.15.27 propos Flow Date	BBL/D 7.9(D)(1) NMAC] sed to be drilled or First Production Date
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple Well Name See attached table	le: Provide th eted from a sin API	e following informa ngle well pad or con Spud Date	tion for each ne nected to a cent TD Reached Date	A CDP W or recompleted w tral delivery point. Completion Commencement	Date	[See 1 t of wells Initial F Back I quipment	9.15.27 propos Flow Date	BBL/D 7.9(D)(1) NMAC] red to be drilled or First Production Date mize gas capture.

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.

 \square 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
			Suit Dute	of System Segment Tie In

XI. Map. \Box 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 \Box will \Box 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 \Box does \Box 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: \Box 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.

<u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

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

 \boxtimes 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

 \Box 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. \Box 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. \Box 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: 08/25/2023

Phone: 210-585-3316

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:

Title:

Approval Date:

Conditions of Approval:

III. Wells

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
GREASEWOOD 5 STATE COM 153H	30-15-53756	D-4-19S-25E	670'N 370'W	515	800	3000
GREASEWOOD 5 STATE COM 201H	30-15-53757	E-4-19S-25E	1809'N 370'W	515	800	3000
GREASEWOOD 5 STATE COM 154H	30-15-53758	E-4-19S-25E	1849'N 370'W	515	800	3000
GREASEWOOD 5 STATE COM 104H	30-15-53794	D-4-19S-25E	690' N 370' W	515	800	3000
GREASEWOOD 5 STATE COM 105H	30-15-53755	E-4-19S-25E	1829' N 370' E	515	800	3000

V. Anticipated Schedule

Well Name	<u>API</u>	Spud date	TD Reached Date	<u>Completion</u> Commencement Date	Initial Flow Back Date	First Production Date
GREASEWOOD 5 STATE COM 153H	30-15-53756	2/29/24	3/10/24	4/25/24	5/30/24	5/30/24
GREASEWOOD 5 STATE COM 104H	30-15-53794	3/11/24	3/21/24	4/25/24	5/30/24	5/30/24
GREASEWOOD 5 STATE COM 201H	30-15-53757	3/23/24	4/1/24	5/4/24	6/1/24	6/1/24
GREASEWOOD 5 STATE COM 105H	30-15-53755	4/2/24	4/12/24	5/4/24	6/1/24	6/1/24
GREASEWOOD 5 STATE COM 154H	30-15-53758	4/13/24	4/23/24	5/4/24	6/1/24	6/1/24

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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

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

CONDITIONS

Operator: (OGRID:	
Silverback Operating II, LLC	330968	
19707 IH10 West, Suite 201	Action Number:	
San Antonio, TX 78256	257939	
	Action Type:	
	[C-103] NOI Change of Plans (C-103A)	
CONDITIONS		

CONDITIONS					
Created By		Condition Date			
ward.rikala	Original COA's still apply.	9/29/2023			

CONDITIONS

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