<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

**District IV** 

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

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

Form C-101 August 1, 2011

Permit 345202

AT LIGATION ON ENVIOLENCE, NE-ENTER, DELL'EN, I LOGBACK, ON ADD	AZONL
1. Operator Name and Address	2. OGRID Number
Earthstone Operating, LLC	331165

1400 Woodloch Forest; Ste 300 3. API Number The Woodlands, TX 77380 30-025-51731 4. Property Code 5. Property Name 6. Well No. 334547 DOVETAIL 18 7 STATE COM 221H

ADDITION FOR DEDMIT TO DOLL DE ENTED DEEDEN DILICRACK OR ADDIT ZONE

7 Surface Location

-						70 <b>=</b> 00uu.o				
	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	M	18	21S	35E	4	510	S	493	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	7	21S	35E	1	50	N	330	W	Lea

9. Pool Information

WILSON;BONE SPRING, NORTH	97704

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3639
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	20269	Bone Spring		11/1/2024
Depth to Ground water		Distance from nearest fresh water well	Distance to nearest surface water	

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

21. Proposed Casing and Cement Program

Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.75	10.75	45.5	1750	600	0
Int1	9.875	8.625	32	5717	1000	0
Prod	7.875	5.5	20	20269	1200	3647

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer					
Double Ram	5000	5000	CAMERON					

knowledge and be	elief.	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC					
Printed Name:	Electronically filed by Charlotte S	tilwell	Approved By:	Paul F Kautz			
Title:	Production Analyst Supervisor		Title:	Geologist			
Email Address:	charlotte@earthstoneenergy.con	1	Approved Date:	7/19/2023	Expiration Date: 7/19/2025		
Date:	7/14/2023	Phone: 281-771-3065	Conditions of Appr	oval Attached			

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>
811 S. First St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District IIII</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

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

District IV

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

<sup>1</sup> API Numbe		<sup>2</sup> Pool Code		Pool Name
30-025-5173	L	64560	RING, NORTH	
<sup>4</sup> Property Code		<sup>5</sup> Pı	<sup>6</sup> Well Number	
334547		DOVETAIL	221H	
<sup>7</sup> OGRID No.		8 O <sub>]</sub>	perator Name	<sup>9</sup> Elevation
331165		EARTHSTON	E OPERATING, LLC	3639.2

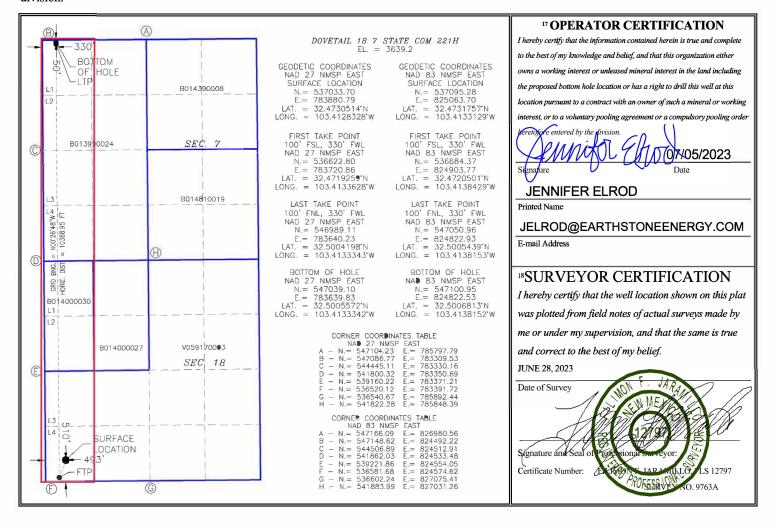
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	18	21 S	35 E	37	510	SOUTH	493	WEST	LEA
 D TT 1 T T TODIO T O									

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section 7	Township 21 S	Range 35 E	Lot Idn	Feet from the 50	North/South line NORTH	Feet from the 330	East/West line WEST	County LEA
<sup>12</sup> Dedicated Act 284.999	res 13 Joint	or Infill 14	<sup>4</sup> Consolidatio	n Code			<sup>15</sup> Order No.		

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.



Inten		As Dril												10
API#	<u> </u>		]											
	rator Nai	me: ONE OPE	 ERATIN	G, LL	С		perty N VETA			STATI	E C(	OM		Well Number 221H
Kick (	Off Point	(KOP)												
UL	Section 18	Township 21S	Range 35E	Lot 4	Feet 510		From N		Feet 493		From WE	n E/W	County LEA	
Latitu			33L	4	Longitu 103.4				493		VVL.	<u> </u>	NAD 83	
First T	Take Poir	Township	Range	Lot	Feet		From N		Feet			n E/W	County	
	18	21S	35E	4	100		SOUT	ſΗ	330		WE:	ST	LEA	
132.4	472050	1			Longitu 103.4		3429						NAD 83	
Last 1	Гаke Poin	t (LTP)												
UL	Section 7	Township 21S	Range 35E	Lot 1	Feet 100		m N/S DRTH	Feet 330		From WES		Count LEA	Ξγ	
132.5	<sup>ude</sup> 500543	9			Longitu 103.4		3153					NAD <b>83</b>		
Is this	s well the	e defining v	vell for th	e Horiz	zontal Sp	oacin	g Unit?	, [	NO	]				
Is this	s well an	infill well?		YES										
	ll is yes p ng Unit.	lease provi	ide API if	availab	le, Opei	rator	Name	and v	well n	umbei	for l	Definir	ng well fo	r Horizontal
API#	<u> </u>													
	DING					Dest		la :===						Moll Ni
Оре	rator Na	me:				Pro	perty N	ıame	:					Well Number
_ ^ r	DTUCTOR		INIC LLC			חר	\\/ETAII	107	CTAT	E CO.	1			l

KZ 06/29/2018

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

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

Form APD Conditions

Permit 345202

#### PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Earthstone Operating, LLC [331165]	30-025-51731
1400 Woodloch Forest; Ste 300	Well:
The Woodlands, TX 77380	DOVETAIL 18 7 STATE COM #221H

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

**Local Co-ordinate Reference:** 

Database: LEAM Multi\_User Db
Company: Earthstone Operating, LLC
Project: Lea County, NM (NAD 27)
Site: Dovetail 18 7 State Com
Well: Dovetail State Com 221H

OH

Plan #1

stone Operating, LLC
County, NM (NAD 27)
MD Reference:
Morth Reference:
North Reference:
Survey Calculation Method:

Well Dovetail State Com 221H GE 3639.2' + KB 27.5' @ 3666.70usft GE 3639.2' + KB 27.5' @ 3666.70usft

Grid Minimum Curvature

Project Lea County, NM (NAD 27)

Wellbore:

Design:

Map System:US State Plane 1927 (Exact solution)Geo Datum:NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Dovetail 18 7 State Com

Northing: 536,922.83 usft 32° 28' 21.73 N Site Position: Latitude: From: Мар Easting: 785,678.26 usft Longitude: 103° 24' 25.23 W **Position Uncertainty:** 0.00 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.50°

Well Dovetail State Com 221H

 Well Position
 +N/-S
 110.87 usft
 Northing:
 537,033.70 usft
 Latitude:
 32° 28' 22.99 N

 +E/-W
 -1,797.47 usft
 Easting:
 783,880.79 usft
 Longitude:
 103° 24' 46.20 W

Position Uncertainty0.00 usftWellhead Elevation:Ground Level:3,639.20 usft

ОН Wellbore Magnetics **Model Name** Sample Date Declination **Dip Angle** Field Strength (°) (°) (nT) HDGM\_FILE 60.17 47,630.30000000 8/10/2023 6.28

Plan #1 Design Audit Notes: Version: Phase: **PLAN** Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 359.55 0.00 0.00 0.00

Plan Survey Tool Program Date 7/10/2023

Depth From Depth To
(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.00 20,269.12 Plan #1 (OH) OWSG\_Rev2\_MWD+HRGM

OWSG MWD + HRGM

CHOC IIII THE

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,805.06	4.10	197.55	2,804.88	-6.99	-2.21	2.00	2.00	0.00	197.55	
9,436.72	4.10	197.55	9,419.56	-459.20	-145.23	0.00	0.00	0.00	0.00	
10,375.12	89.94	359.55	10,031.34	111.71	-163.25	10.00	9.15	17.26	161.96	
20,269.12	89.94	359.55	10,041.70	10,005.40	-240.96	0.00	0.00	0.00	0.00	PBHL (Dovetail 221H)

Database: LEAM Multi\_User Db
Company: Earthstone Operating, LLC
Project: Lea County, NM (NAD 27)
Site: Dovetail 18 7 State Com
Well: Dovetail State Com 221H

Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Dovetail State Com 221H GE 3639.2' + KB 27.5' @ 3666.70usft GE 3639.2' + KB 27.5' @ 3666.70usft Grid

Minimum Curvature

n:	Plan #1								
ned 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
SHL (Dovet	•								
100.00 200.00	0.00 0.00	0.00 0.00	100.00 200.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,676.70	0.00	0.00	1,676.70	0.00	0.00	0.00	0.00	0.00	0.00
Rustler 1,700.00	0.00	0.00	1 700 00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,700.00 1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00 2,000.00	0.00 0.00	0.00 0.00	1,900.00 2,000.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2,100.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,106.70	0.00	0.00	2,106.70	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	2.00	197.55	2,699.98	-1.66	-0.53	-1.66	2.00	2.00	0.00
2,805.06	4.10	197.55	2,804.88	-6.99	-2.21	-6.98	2.00	2.00	0.00
2,900.00	4.10	197.55	2,899.58	-13.47	-4.26	-13.43	0.00	0.00	0.00
3,000.00 3,100.00	4.10 4.10	197.55 197.55	2,999.33 3,099.07	-20.29 -27.11	-6.42 -8.57	-20.24 -27.04	0.00 0.00	0.00 0.00	0.00 0.00
3,200.00	4.10	197.55	3,198.81	-33.92	-0.57 -10.73	-27.04 -33.84	0.00	0.00	0.00
						-40.64			
3,300.00 3,400.00	4.10 4.10	197.55 197.55	3,298.56 3,398.30	-40.74 -47.56	-12.89 -15.04	-40.64 -47.44	0.00 0.00	0.00 0.00	0.00 0.00
3,500.00	4.10	197.55	3,498.05	-54.38	-17.20	-47.44 -54.24	0.00	0.00	0.00
3,600.00	4.10	197.55	3,597.79	-61.20	-19.36	-61.05	0.00	0.00	0.00
3,628.98	4.10	197.55	3,626.70	-63.18	-19.98	-63.02	0.00	0.00	0.00
Yates									
3,700.00	4.10	197.55	3,697.53	-68.02	-21.51	-67.85	0.00	0.00	0.00
3,800.00	4.10	197.55	3,797.28	-74.84	-23.67	-74.65	0.00	0.00	0.00
3,900.00	4.10	197.55	3,897.02	-81.66	-25.83	-81.45	0.00	0.00	0.00
4,000.00	4.10	197.55	3,996.77	-88.48	-27.98	-88.25	0.00	0.00	0.00
4,100.00	4.10	197.55	4,096.51	-95.29	-30.14	-95.05	0.00	0.00	0.00
4,150.32	4.10	197.55	4,146.70	-98.73	-31.22	-98.48	0.00	0.00	0.00
Capitan Red									
4,200.00	4.10	197.55	4,196.25	-102.11	-32.29	-101.86	0.00	0.00	0.00
4,300.00	4.10	197.55	4,296.00	-108.93	-34.45	-108.66	0.00	0.00	0.00

Database: LEAM Multi\_User Db
Company: Earthstone Operating, LLC
Project: Lea County, NM (NAD 27)
Site: Dovetail 18 7 State Com
Well: Dovetail State Com 221H

Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
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MD Reference:
North Reference:
Survey Calculation Method:

Well Dovetail State Com 221H GE 3639.2' + KB 27.5' @ 3666.70usft GE 3639.2' + KB 27.5' @ 3666.70usft Grid Minimum Curvature

4,500.00 4.10 197.55 4,495.48 -122.57 -38.76 -122.26 0.00 0.00 0.00 0.00 4,600.00 4.10 197.55 4,595.23 -129.39 -40.92 -129.06 0.00 0.00 0.00 0.00 4,700.00 4.10 197.55 4,694.97 -136.21 -43.08 -135.86 0.00 0.00 0.00 0.00 4,900.00 4.10 197.55 4,894.46 -149.85 -47.39 -149.47 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	
Measured Depth (usft)	
4,500.00         4.10         197.55         4,495.48         -122.57         -38.76         -122.26         0.00         0.00         0.00           4,600.00         4.10         197.55         4,595.23         -129.39         -40.92         -129.06         0.00         0.00         0.0           4,800.00         4.10         197.55         4,694.97         -136.21         -43.08         -135.86         0.00         0.00         0.00           4,800.00         4.10         197.55         4,694.72         -148.03         -45.23         -149.47         0.00         0.00         0.00           4,900.00         4.10         197.55         4,894.46         -149.85         -47.39         -149.47         0.00         0.00         0.00           5,000.00         4.10         197.55         5,993.95         -163.48         -51.70         -163.07         0.00         0.00         0.00           5,200.00         4.10         197.55         5,993.95         -163.48         -51.70         -163.07         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.	ft)
4,700.00       4.10       197.55       4,694.97       -136.21       -43.08       -135.86       0.00       0.00       0.00         4,800.00       4.10       197.55       4,794.72       -143.03       -45.23       -142.67       0.00       0.00       0.00         4,900.00       4.10       197.55       4,894.46       -149.85       -47.39       -149.47       0.00       0.00       0.00         5,000.00       4.10       197.55       5,994.20       -156.66       -49.55       -156.27       0.00       0.00       0.00         5,100.00       4.10       197.55       5,093.95       -163.48       -51.70       -163.07       0.00       0.00       0.00         5,200.00       4.10       197.55       5,193.69       -170.30       -53.86       -169.87       0.00       0.00       0.00         5,300.00       4.10       197.55       5,293.44       -177.12       -56.02       -176.67       0.00       0.00       0.00         5,600.00       4.10       197.55       5,592.67       -197.58       -62.49       -197.08       0.00       0.00       0.00         5,602.40       4.10       197.55       5,692.41       -204.40       -64.64	.00
4,900.00       4.10       197.55       4,894.46       -149.85       -47.39       -149.47       0.00       0.00       0.00         5,000.00       4.10       197.55       4,994.20       -156.66       -49.55       -156.27       0.00       0.00       0.0         5,100.00       4.10       197.55       5,093.95       -163.48       -51.70       -163.07       0.00       0.00       0.0         5,200.00       4.10       197.55       5,193.69       -177.30       -53.86       -169.87       0.00       0.00       0.0         5,300.00       4.10       197.55       5,293.44       -177.12       -56.02       -176.67       0.00       0.00       0.0         5,400.00       4.10       197.55       5,393.18       -183.94       -58.17       -183.48       0.00       0.00       0.0         5,500.00       4.10       197.55       5,492.92       -190.76       -60.33       -190.28       0.00       0.00       0.0         5,600.00       4.10       197.55       5,592.67       -197.58       -62.49       -197.08       0.00       0.00       0.0         5,801.09       4.10       197.55       5,692.67       -197.58       -62.49	.00
5,100.00         4.10         197.55         5,093.95         -163.48         -51.70         -163.07         0.00         0.0	.00 .00 .00
5,300.00       4.10       197.55       5,293.44       -177.12       -56.02       -176.67       0.00       0.00       0.00         5,400.00       4.10       197.55       5,393.18       -183.94       -58.17       -183.48       0.00       0.00       0.00         5,500.00       4.10       197.55       5,492.92       -190.76       -60.33       -190.28       0.00       0.00       0.00         5,600.00       4.10       197.55       5,592.67       -197.58       -62.49       -197.08       0.00       0.00       0.00         5,624.09       4.10       197.55       5,616.70       -199.22       -63.01       -198.72       0.00       0.00       0.00         5,700.00       4.10       197.55       5,692.41       -204.40       -64.64       -203.88       0.00       0.00       0.00         5,800.00       4.10       197.55       5,792.16       -211.21       -66.80       -210.68       0.00       0.00       0.00         5,900.00       4.10       197.55       5,891.64       -224.85       -71.11       -224.29       0.00       0.00       0.00         6,000.00       4.10       197.55       6,091.39       -231.67       -73.27	.00
5,600.00       4.10       197.55       5,592.67       -197.58       -62.49       -197.08       0.00       0.00       0.0         5,624.09       4.10       197.55       5,616.70       -199.22       -63.01       -198.72       0.00       0.00       0.0         Cherry Canyon         5,700.00       4.10       197.55       5,692.41       -204.40       -64.64       -203.88       0.00       0.00       0.0         5,800.00       4.10       197.55       5,792.16       -211.21       -66.80       -210.68       0.00       0.00       0.0         5,900.00       4.10       197.55       5,891.90       -218.03       -68.96       -217.49       0.00       0.00       0.0         6,000.00       4.10       197.55       5,991.64       -224.85       -71.11       -224.29       0.00       0.00       0.0         6,100.00       4.10       197.55       6,091.39       -231.67       -73.27       -231.09       0.00       0.00       0.0         6,200.00       4.10       197.55       6,191.13       -238.49       -75.43       -237.89       0.00       0.00       0.0         6,300.00       4.10       197.55       6	.00
Cherry Canyon           5,700.00         4.10         197.55         5,692.41         -204.40         -64.64         -203.88         0.00         0.00         0.0           5,800.00         4.10         197.55         5,792.16         -211.21         -66.80         -210.68         0.00         0.00         0.00           5,900.00         4.10         197.55         5,891.90         -218.03         -68.96         -217.49         0.00         0.00         0.00           6,000.00         4.10         197.55         5,991.64         -224.85         -71.11         -224.29         0.00         0.00         0.00         0.00           6,100.00         4.10         197.55         6,091.39         -231.67         -73.27         -231.09         0.00	.00
5,800.00       4.10       197.55       5,792.16       -211.21       -66.80       -210.68       0.00       <	.00
6,100.00       4.10       197.55       6,091.39       -231.67       -73.27       -231.09       0.00       <	.00 .00 .00
6,300.00       4.10       197.55       6,290.88       -245.31       -77.58       -244.69       0.00       <	.00
6,600.00 4.10 197.55 6,590.11 -265.77 -84.05 -265.10 0.00 0.00 0.	.00 .00 .00
6,651.73 4.10 197.55 6,641.70 -269.29 -85.17 -268.62 0.00 0.00 0.	.00
Brushy Canyon	.00
	.00 .00
7,000.00 4.10 197.55 6,989.08 -293.04 -92.68 -292.30 0.00 0.00 0.	.00
7,200.00 4.10 197.55 7,188.57 -306.68 -96.99 -305.91 0.00 0.00 0.	.00 .00 .00
	.00
7,700.00 4.10 197.55 7,687.29 -340.77 -107.77 -339.92 0.00 0.00 0.	.00 .00 .00
7,900.00 4.10 197.55 7,886.78 -354.41 -112.09 -353.52 0.00 0.00 0.	.00
8,055.32 4.10 197.55 8,041.70 -365.00 -115.44 -364.08 0.00 0.00 0. <b>Top BSPG Lime</b>	.00
8,200.00 4.10 197.55 8,186.01 -374.87 -118.56 -373.92 0.00 0.00 0.	.00
8,400.00 4.10 197.55 8,385.50 -388.50 -122.87 -387.53 0.00 0.00 0.	.00 .00 .00
8,600.00 4.10 197.55 8,584.99 -402.14 -127.18 -401.13 0.00 0.00 0.	.00
8,800.00     4.10     197.55     8,784.47     -415.78     -131.50     -414.73     0.00     0.00     0.       8,900.00     4.10     197.55     8,884.22     -422.60     -133.65     -421.54     0.00     0.00     0.       9,000.00     4.10     197.55     8,983.96     -429.42     -135.81     -428.34     0.00     0.00     0.	

Database: LEAM Multi\_User Db
Company: Earthstone Operating, LLC
Project: Lea County, NM (NAD 27)
Site: Dovetail 18 7 State Com
Well: Dovetail State Com 221H

Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Dovetail State Com 221H GE 3639.2' + KB 27.5' @ 3666.70usft GE 3639.2' + KB 27.5' @ 3666.70usft Grid

Minimum Curvature

re: OH

ned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
9,100.00 9,200.00	4.10 4.10	197.55 197.55	9,083.71 9,183.45	-436.24 -443.06	-137.97 -140.12	-435.14 -441.94	0.00 0.00	0.00 0.00	0.00 0.00
9,248.37	4.10	197.55	9,231.70	-446.35	-141.17	-445.23	0.00	0.00	0.00
1st BSPG S 9,300.00	<b>s</b> 4.10	197.55	9.283.19	-449.87	-142.28	-448.74	0.00	0.00	0.00
9,400.00	4.10	197.55	9,382.94	-456.69	-144.44	-455.54	0.00	0.00	0.00
9,436.72 9,448.88	4.10 2.97	197.55 204.84	9,419.56 9,431.70	-459.20 -459.90	-145.23 -145.49	-458.04 -458.74	0.00 10.00	0.00 -9.31	0.00 59.96
2nd BSPG C		201.01	0,101.70	100.00	110.10	100.11	10.00	0.01	00.00
9,450.00	2.87	205.80	9,432.82	-459.95	-145.52	-458.79	10.00	-9.00	85.49
9,500.00	2.74	331.97	9,482.79	-460.02	-146.62	-458.85	10.00	-0.26	252.34
9,550.00	7.54	349.91	9,532.58	-455.73	-147.76	-454.56	10.00	9.59	35.88
9,600.00	12.49	353.81	9,581.80	-447.13	-148.92	-445.94	10.00	9.91	7.81
9,650.00	17.47	355.52	9,630.09	-434.26	-150.09	-433.07	10.00	9.96	3.41
9,700.00	22.46	356.48	9,677.07	-417.23	-151.26	-416.03	10.00	9.98	1.93
9,750.00	27.46	357.11	9,722.38	-396.17	-152.43	-394.96	10.00	9.99	1.26
9,800.00	32.45	357.55	9,765.69	-371.24	-153.59	-370.02	10.00	9.99	0.89
9,825.26	34.97	357.74	9,786.70	-357.24	-154.16	-356.01	10.00	9.99	0.72
2nd BSPG S 9,850.00	37.45	357.89	9,806.66	-342.63	-154.72	-341.41	10.00	9.99	0.64
9,900.00	42.44	358.16	9,844.98	-342.03	-154.72	-341.41	10.00	9.99	0.54
9,950.00	42.44 47.44	358.39	9,880.36	-275.27	-156.88	-274.02	10.00	10.00	0.45
FTP (Doveta	ail 221H)								
10,000.00	52.44	358.58	9,912.53	-237.02	-157.89	-235.77	10.00	10.00	0.38
10,050.00	57.44	358.74	9,941.25	-196.12	-158.85	-194.87	10.00	10.00	0.33
10,100.00	62.44	358.89	9,966.29	-152.87	-159.74	-151.61	10.00	10.00	0.30
10,150.00	67.43	359.02	9,987.46	-107.60	-160.56	-106.34	10.00	10.00	0.27
10,200.00	72.43	359.15	10,004.61	-60.66	-161.31	-59.39	10.00	10.00	0.25
10,250.00	77.43	359.27	10,017.61	-12.39	-161.98	-11.12	10.00	10.00	0.24
10,300.00	82.43	359.38	10,026.34	36.82	-162.56	38.09	10.00	10.00	0.23
10,350.00	87.43	359.49	10,030.76	86.60	-163.04	87.88	10.00	10.00	0.22
10,375.12	89.94	359.55	10,031.34	111.71	-163.25	112.99	10.00	10.00	0.22
10,400.00	89.94	359.55	10,031.37	136.59	-163.45	137.87	0.00	0.00	0.00
10,500.00	89.94	359.55	10,031.47	236.59	-164.23	237.87	0.00	0.00	0.00
10,600.00	89.94	359.55	10,031.57	336.59	-165.02	337.87	0.00	0.00	0.00
10,700.00	89.94	359.55	10,031.68	436.58	-165.81	437.87	0.00	0.00	0.00
10,719.82	89.94	359.55	10,031.70	456.40	-165.96	457.69	0.00	0.00	0.00
Target LP		0=====	40.001.70	E0.2 = 2	400 = 0				
10,800.00	89.94	359.55	10,031.78	536.58	-166.59	537.87	0.00	0.00	0.00
10,900.00	89.94	359.55	10,031.89	636.58	-167.38	637.87	0.00	0.00	0.00
11,000.00	89.94	359.55	10,031.99	736.57	-168.16	737.87	0.00	0.00	0.00
11,100.00	89.94	359.55	10,032.10	836.57	-168.95	837.87	0.00	0.00	0.00
11,200.00	89.94	359.55	10,032.20	936.57	-169.73	937.87	0.00	0.00	0.00
11,300.00	89.94	359.55	10,032.31	1,036.56	-170.52	1,037.87	0.00	0.00	0.00
11,400.00	89.94	359.55	10,032.41	1,136.56	-171.30	1,137.87	0.00	0.00	0.00
11,500.00	89.94 80.04	359.55 350.55	10,032.52	1,236.56	-172.09	1,237.87	0.00	0.00	0.00
11,600.00	89.94	359.55	10,032.62	1,336.55	-172.87	1,337.87	0.00	0.00	0.00
11,700.00	89.94	359.55	10,032.73	1,436.55	-173.66	1,437.87	0.00	0.00	0.00
11,800.00	89.94	359.55	10,032.83	1,536.55	-174.44	1,537.87	0.00	0.00	0.00
11,900.00	89.94	359.55	10,032.94	1,636.54	-175.23	1,637.87	0.00	0.00	0.00
12,000.00	89.94	359.55	10,033.04	1,736.54	-176.02	1,737.87	0.00	0.00	0.00
12,100.00	89.94	359.55	10,033.15	1,836.54	-176.80	1,837.87	0.00	0.00	0.00
12,200.00	89.94	359.55	10,033.25	1,936.54	-177.59	1,937.87	0.00	0.00	0.00

Database: LEAM Multi\_User Db
Company: Earthstone Operating, LLC
Project: Lea County, NM (NAD 27)
Site: Dovetail 18 7 State Com
Well: Dovetail State Com 221H

OH Plan #1

Wellbore: Design: Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Dovetail State Com 221H GE 3639.2' + KB 27.5' @ 3666.70usft GE 3639.2' + KB 27.5' @ 3666.70usft

Minimum Curvature

Measured Depth   Inclination   Azimuth (usft)	Planned Survey									
12,400,00 89,94 399,55 10,033,46 2,136,53 179,916 2,137,87 0,00 0,00 0,00 12,600,00 89,94 399,55 10,033,67 2,336,52 180,73 2,337,87 0,00 0,00 0,00 0,00 12,600,00 89,94 399,55 10,033,67 2,336,52 180,73 2,337,87 0,00 0,00 0,00 0,00 12,800,00 89,94 399,55 10,033,88 2,536,52 182,20 2,537,87 0,00 0,00 0,00 0,00 12,800,00 89,94 399,55 10,033,98 2,536,52 182,20 2,537,87 0,00 0,00 0,00 0,00 13,000,00 89,94 399,55 10,033,98 2,536,52 182,20 2,537,87 0,00 0,00 0,00 0,00 13,000,00 89,94 359,55 10,034,99 2,736,51 183,87 2,737,87 0,00 0,00 0,00 0,00 13,200,00 89,94 359,55 10,034,99 2,736,51 184,55 2,737,87 0,00 0,00 0,00 0,00 13,200,00 89,94 359,55 10,034,99 2,736,50 182,50 182,50 182,50 183,5	Depth			Depth			Section	Rate	Rate	Rate
12,500,00 89,94 359,55 10,033,67 2,336,52 -180,73 2,337,87 0.00 0.00 0.00 0.00 12,700,00 89,94 359,55 10,033,67 2,336,52 -180,73 2,337,87 0.00 0.00 0.00 0.00 12,800,00 89,94 359,55 10,033,88 2,536,52 -181,51 2,437,87 0.00 0.00 0.00 0.00 13,000,00 89,94 359,55 10,033,88 2,536,52 -182,33 2,537,87 0.00 0.00 0.00 0.00 13,000,00 89,94 359,55 10,034,98 2,738,51 -183,68 2,237,87 0.00 0.00 0.00 0.00 13,000,00 89,94 359,55 10,034,98 2,238,55 1-88,68 2,238,57 0.00 0.00 0.00 0.00 13,000,00 89,94 359,55 10,034,91 2,238,55 1-86,53 3,337,87 0.00 0.00 0.00 0.00 13,000,00 89,94 359,55 10,034,91 2,238,55 1-86,54 2,337,87 0.00 0.00 0.00 0.00 13,400,00 89,94 359,55 10,034,91 3,336,50 -185,44 2,937,87 0.00 0.00 0.00 0.00 13,400,00 89,94 359,55 10,034,51 3,136,50 -187,01 3,137,87 0.00 0.00 0.00 13,500,00 89,94 359,55 10,034,51 3,136,50 -187,01 3,137,87 0.00 0.00 0.00 0.00 13,500,00 89,94 359,55 10,034,51 3,136,50 -187,01 3,137,87 0.00 0.00 0.00 0.00 13,500,00 89,94 359,55 10,034,51 3,136,50 -187,01 3,137,87 0.00 0.00 0.00 0.00 13,500,00 89,94 359,55 10,034,71 3,238,49 -185,88 3,337,87 0.00 0.00 0.00 0.00 13,500,00 89,94 359,55 10,034,71 3,238,49 -185,88 3,337,87 0.00 0.00 0.00 0.00 13,500,00 89,94 359,55 10,034,31 3,338,49 -189,57 3,337,87 0.00 0.00 0.00 0.00 13,500,00 89,94 359,55 10,034,31 3,338,49 -189,57 3,337,87 0.00 0.00 0.00 0.00 14,000,00 89,94 359,55 10,034,31 3,338,49 -189,57 3,337,87 0.00 0.00 0.00 0.00 14,000,00 89,94 359,55 10,035,41 3,383,44 -191,57 3,337,87 0.00 0.00 0.00 0.00 14,000,00 89,94 359,55 10,035,41 3,383,44 -191,57 3,337,87 0.00 0.00 0.00 0.00 14,000,00 89,94 359,55 10,035,54 3,383,44 -191,57 3,337,87 0.00 0.00 0.00 0.00 14,000,00 89,94 359,55 10,035,54 3,383,44 -191,57 3,383,57 0.00 0.00 0.00 0.00 14,000,00 89,94 359,55 10,035,54 3,383,44 -191,57 3,383,57 0.00 0.00 0.00 0.00 14,000,00 89,94 359,55 10,035,57 4,436,44 -191,44 4,337,87 0.00 0.00 0.00 0.00 14,000,00 89,94 359,55 10,035,57 4,436,44 -191,44 4,337,87 0.00 0.00 0.00 0.00 14,000,00 89,94 359,55 10,035,57 4,436,44 -191,57 4,437,87 0.00 0.00 0.00 0.										
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13,600.00										
13,700.00         89,94         359,55         10,034,82         3,436,49         -189.37         3,437,87         0.00         0.00         0.00           13,800.00         89,94         359,55         10,035,03         3,636,48         -190,15         3,537,87         0.00         0.00         0.00           14,000.00         89,94         359,55         10,035,14         3,736,48         -191,72         3,737,87         0.00         0.00         0.00           14,000.00         89,94         359,55         10,035,14         3,736,48         -191,72         3,737,87         0.00         0.00         0.00           14,200.00         89,94         359,55         10,035,44         3,936,47         -194,08         4,037,87         0.00         0.00         0.00           14,200.00         89,94         359,55         10,035,45         4,036,47         -194,08         4,037,87         0.00         0.00         0.00           14,500.00         89,94         359,55         10,035,66         4,236,46         -195,65         4,237,87         0.00         0.00         0.00           14,700.00         89,94         359,55         10,035,76         4,364,86         -196,24         4,37,87         0.00<				,						
13,800.00       89.94       359.55       10,034.93       3,536.49       -190.15       3,537.87       0.00       0.00       0.00         13,900.00       89.94       359.55       10,035.03       3,636.48       -190.24       3,637.87       0.00       0.00       0.00         14,100.00       89.94       359.55       10,035.24       3,836.48       -191.72       3,837.87       0.00       0.00       0.00         14,200.00       89.94       359.55       10,035.24       3,836.47       -193.29       3,937.87       0.00       0.00       0.00         14,200.00       89.94       359.55       10,035.34       3,936.47       -194.08       4,037.87       0.00       0.00       0.00         14,500.00       89.94       359.55       10,035.56       4,036.47       -194.08       4,037.87       0.00       0.00       0.00         14,500.00       89.94       359.55       10,035.66       4,236.46       -196.64       4,237.87       0.00       0.00       0.00         14,700.00       89.94       359.55       10,035.67       4,364.66       -196.24       4,337.87       0.00       0.00       0.00         14,200.00       89.94       359.55       10,	13,600.00	89.94	359.55	10,034.72	3,336.49	-188.58	3,337.87	0.00	0.00	0.00
13,800.00 89.94 359.55 10,034.93 3,536.49 1-90.15 3,537.87 0.00 0.00 0.00 14,000.00 89.94 359.55 10,035.03 3,636.48 1-190.94 3637.87 0.00 0.00 0.00 14,000.00 89.94 359.55 10,035.24 3,836.48 1-191.72 3,737.87 0.00 0.00 0.00 0.00 14,100.00 89.94 359.55 10,035.24 3,836.48 1-191.72 3,737.87 0.00 0.00 0.00 0.00 14,100.00 89.94 359.55 10,035.24 3,836.48 1-192.51 3,837.87 0.00 0.00 0.00 0.00 14,300.00 89.94 359.55 10,035.45 4,036.47 1-194.08 4,037.87 0.00 0.00 0.00 14,300.00 89.94 359.55 10,035.55 4,136.47 1-194.08 4,037.87 0.00 0.00 0.00 0.00 14,400.00 89.94 359.55 10,035.56 4,336.46 1-196.65 4,237.87 0.00 0.00 0.00 0.00 14,600.00 89.94 359.55 10,035.76 4,336.46 1-196.64 4,337.87 0.00 0.00 0.00 0.00 14,600.00 89.94 359.55 10,035.76 4,336.46 1-196.44 4,337.87 0.00 0.00 0.00 14,800.00 89.94 359.55 10,035.76 4,336.46 1-196.44 4,337.87 0.00 0.00 0.00 14,800.00 89.94 359.55 10,035.76 4,336.46 1-196.47 4,337.87 0.00 0.00 0.00 14,800.00 89.94 359.55 10,035.87 4,436.46 1-196.47 4,337.87 0.00 0.00 0.00 14,800.00 89.94 359.55 10,035.69 4,436.46 1-196.47 4,337.87 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.80 4,636.45 1-198.01 4,537.87 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.80 4,636.45 1-198.01 4,537.87 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.80 4,336.44 200.36 4,837.87 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.80 4,336.44 200.36 4,837.87 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.80 4,364.44 200.36 4,837.87 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.80 4,364.44 201.35 5,037.87 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.80 5,136.43 202.72 5,137.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.60 5,136.43 202.72 5,137.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.60 5,136.43 202.72 5,137.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.81 5,336.43 202.72 5,137.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,037.35 5,336.43 202.72 5,337.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,037.73 5,536.44 200.00 89.94 359.55 10,037.73 5,536.44 200.00 5,337.87 0.00 0.00 0.00 0.00 16,000.00 89.94 359	13,700.00	89.94	359.55	10,034.82	3,436.49	-189.37	3,437.87	0.00	0.00	0.00
13,900.00 89.94 359.55 10,035.03 3,636.48 -190.94 3,637.87 0.00 0.00 0.00 14,000.00 89.94 359.55 10,035.14 3,736.48 -191.72 3,737.87 0.00 0.00 0.00 0.00 14,100.00 89.94 359.55 10,035.24 3,836.48 -192.51 3,837.87 0.00 0.00 0.00 0.00 14,200.00 89.94 359.55 10,035.34 3,936.47 -193.29 3,937.87 0.00 0.00 0.00 0.00 14,400.00 89.94 359.55 10,035.45 4,036.47 -194.08 4,037.87 0.00 0.00 0.00 0.00 14,400.00 89.94 359.55 10,035.66 4,236.46 -195.65 4,237.87 0.00 0.00 0.00 0.00 14,600.00 89.94 359.55 10,035.66 4,236.46 -195.65 4,237.87 0.00 0.00 0.00 0.00 14,600.00 89.94 359.55 10,035.66 4,236.46 -195.65 4,237.87 0.00 0.00 0.00 0.00 14,600.00 89.94 359.55 10,035.67 4,436.46 -197.22 4,437.87 0.00 0.00 0.00 0.00 14,700.00 89.94 359.55 10,035.87 4,436.46 -197.22 4,437.87 0.00 0.00 0.00 0.00 14,700.00 89.94 359.55 10,035.97 4,536.45 -198.01 4,537.87 0.00 0.00 0.00 0.00 14,900.00 89.94 359.55 10,036.89 4,536.45 -198.79 4,637.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.08 4,736.45 -198.79 4,637.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.98 4,736.45 -198.79 4,637.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.98 4,364.4 -201.95 8 4,737.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.98 4,364.4 -201.95 8 4,737.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.69 5,036.44 -201.95 8 4,737.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.69 5,036.44 -201.95 8 4,737.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.60 5,136.44 -201.95 8 4,737.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.61 5,336.43 -204.29 5,337.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.61 5,336.44 -201.95 6,337.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.61 5,336.44 -201.95 6,337.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.61 5,336.44 -201.95 6,337.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.61 5,336.44 -201.95 6,337.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,037.75 6,336.44 -201.95 6,337.87 0.00 0.00 0.00 0.00 16,000.00 89.94 359.55 10,037.65 6,136.40 -201.95 6,337.87 0.00 0.00				,	,					
14,100.00       89.94       359.55       10,035.24       3,836.48       -192.51       3,837.87       0.00       0.00       0.00         14,200.00       89.94       359.55       10,035.34       3,936.47       -193.29       3,937.87       0.00       0.00       0.00         14,400.00       89.94       359.55       10,035.45       4,036.47       -194.86       4,137.87       0.00       0.00       0.00         14,500.00       89.94       359.55       10,035.56       4,236.46       -195.65       4,237.87       0.00       0.00       0.00         14,700.00       89.94       359.55       10,035.66       4,236.46       -196.44       4,337.87       0.00       0.00       0.00         14,700.00       89.94       359.55       10,035.67       4,436.46       -197.22       4,437.87       0.00       0.00       0.00         14,700.00       89.94       359.55       10,035.87       4,536.45       -198.01       4,537.87       0.00       0.00       0.00         14,800.00       89.94       359.55       10,036.87       4,536.45       -198.79       4,637.87       0.00       0.00       0.00         15,000.00       89.94       359.55       10,	13,900.00	89.94	359.55	10,035.03	3,636.48	-190.94	3,637.87	0.00	0.00	0.00
14,200.00         89.94         359.55         10,035.34         3,936.47         -193.29         3,937.87         0.00         0.00         0.00           14,300.00         89.94         359.55         10,035.45         4,036.47         -194.08         4,037.87         0.00 <t< td=""><td>14,000.00</td><td>89.94</td><td>359.55</td><td>10,035.14</td><td>3,736.48</td><td>-191.72</td><td>3,737.87</td><td>0.00</td><td>0.00</td><td>0.00</td></t<>	14,000.00	89.94	359.55	10,035.14	3,736.48	-191.72	3,737.87	0.00	0.00	0.00
14,300.00 89.94 359.55 10,035.45 4,036.47 -194.08 4,037.87 0.00 0.00 0.00 14,400.00 89.94 359.55 10,035.66 4,236.46 -195.65 4,237.87 0.00 0.00 0.00 14,600.00 89.94 359.55 10,035.66 4,236.46 -195.65 4,237.87 0.00 0.00 0.00 0.00 14,600.00 89.94 359.55 10,035.66 4,236.46 -196.44 4,337.87 0.00 0.00 0.00 0.00 14,700.00 89.94 359.55 10,035.87 4,336.46 -196.44 4,337.87 0.00 0.00 0.00 0.00 14,700.00 89.94 359.55 10,035.97 4,536.45 -198.01 4,537.87 0.00 0.00 0.00 0.00 14,900.00 89.94 359.55 10,035.97 4,536.45 -198.01 4,537.87 0.00 0.00 0.00 0.00 14,900.00 89.94 359.55 10,036.08 4,636.45 -198.79 4,637.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.08 4,636.45 -198.79 4,637.87 0.00 0.00 0.00 0.00 15,100.00 89.94 359.55 10,036.29 4,836.44 -200.36 4,837.87 0.00 0.00 0.00 0.00 15,200.00 89.94 359.55 10,036.29 4,836.44 -200.36 4,837.87 0.00 0.00 0.00 0.00 15,300.00 89.94 359.55 10,036.29 4,836.44 -201.36 4,837.87 0.00 0.00 0.00 0.00 15,300.00 89.94 359.55 10,036.29 4,836.44 -201.36 4,837.87 0.00 0.00 0.00 0.00 15,300.00 89.94 359.55 10,036.50 5,036.44 -201.35 4,937.87 0.00 0.00 0.00 0.00 15,300.00 89.94 359.55 10,036.50 5,036.44 -201.35 5,037.87 0.00 0.00 0.00 0.00 15,400.00 89.94 359.55 10,036.60 5,136.43 -202.72 5,137.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,036.61 5,336.43 -202.72 5,137.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,036.81 5,336.43 -202.72 5,137.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,036.71 5,236.43 -203.50 5,237.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,037.12 5,636.42 -205.66 5,637.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,037.12 5,636.42 -205.66 5,637.87 0.00 0.00 0.00 0.00 16,000 89.94 359.55 10,037.44 5,936.41 -209.00 5,937.87 0.00 0.00 0.00 0.00 0.00 16,000 89.94 359.55 10,037.44 5,936.41 -209.00 5,937.87 0.00 0.00 0.00 0.00 0.00 16,000 89.94 359.55 10,037.44 5,936.41 -209.00 5,937.87 0.00 0.00 0.00 0.00 0.00 16,000 89.94 359.55 10,037.86 6,336.40 -210.13 6,237.87 0.00 0.00 0.00 0.00 0.00 16,000 89.94 359.55 10,037.86 6,336.40 -210.13 6,237.87 0.00 0.00 0.00 0.	14,100.00	89.94	359.55	10,035.24	3,836.48	-192.51	3,837.87	0.00	0.00	0.00
14,300.00 89.94 359.55 10,035.45 4,036.47 -194.08 4,037.87 0.00 0.00 0.00 14,400.00 89.94 359.55 10,035.66 4,236.46 -195.65 4,237.87 0.00 0.00 0.00 14,600.00 89.94 359.55 10,035.66 4,236.46 -195.65 4,237.87 0.00 0.00 0.00 0.00 14,600.00 89.94 359.55 10,035.66 4,236.46 -196.44 4,337.87 0.00 0.00 0.00 0.00 14,700.00 89.94 359.55 10,035.87 4,336.46 -196.44 4,337.87 0.00 0.00 0.00 0.00 14,700.00 89.94 359.55 10,035.97 4,536.45 -198.01 4,537.87 0.00 0.00 0.00 0.00 14,900.00 89.94 359.55 10,035.97 4,536.45 -198.01 4,537.87 0.00 0.00 0.00 0.00 14,900.00 89.94 359.55 10,036.08 4,636.45 -198.79 4,637.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.08 4,636.45 -198.79 4,637.87 0.00 0.00 0.00 0.00 15,100.00 89.94 359.55 10,036.29 4,836.44 -200.36 4,837.87 0.00 0.00 0.00 0.00 15,200.00 89.94 359.55 10,036.29 4,836.44 -200.36 4,837.87 0.00 0.00 0.00 0.00 15,300.00 89.94 359.55 10,036.29 4,836.44 -201.36 4,837.87 0.00 0.00 0.00 0.00 15,300.00 89.94 359.55 10,036.29 4,836.44 -201.36 4,837.87 0.00 0.00 0.00 0.00 15,300.00 89.94 359.55 10,036.50 5,036.44 -201.35 4,937.87 0.00 0.00 0.00 0.00 15,300.00 89.94 359.55 10,036.50 5,036.44 -201.35 5,037.87 0.00 0.00 0.00 0.00 15,400.00 89.94 359.55 10,036.60 5,136.43 -202.72 5,137.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,036.61 5,336.43 -202.72 5,137.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,036.81 5,336.43 -202.72 5,137.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,036.71 5,236.43 -203.50 5,237.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,037.12 5,636.42 -205.66 5,637.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,037.12 5,636.42 -205.66 5,637.87 0.00 0.00 0.00 0.00 16,000 89.94 359.55 10,037.44 5,936.41 -209.00 5,937.87 0.00 0.00 0.00 0.00 0.00 16,000 89.94 359.55 10,037.44 5,936.41 -209.00 5,937.87 0.00 0.00 0.00 0.00 0.00 16,000 89.94 359.55 10,037.44 5,936.41 -209.00 5,937.87 0.00 0.00 0.00 0.00 0.00 16,000 89.94 359.55 10,037.86 6,336.40 -210.13 6,237.87 0.00 0.00 0.00 0.00 0.00 16,000 89.94 359.55 10,037.86 6,336.40 -210.13 6,237.87 0.00 0.00 0.00 0.	14 200 00	89 94	359 55	10 035 34	3 936 47	-193 29	3 937 87	0.00	0.00	0.00
14,400.00         89.94         359.55         10,035.55         4,136.47         -194.86         4,137.87         0.00         0.00         0.00           14,500.00         89.94         359.55         10,035.76         4,336.46         -196.44         4,337.87         0.00         0.00         0.00           14,700.00         89.94         359.55         10,035.76         4,336.46         -196.44         4,337.87         0.00         0.00         0.00           14,700.00         89.94         359.55         10,035.97         4,536.45         -198.01         4,537.87         0.00         0.00         0.00           14,800.00         89.94         359.55         10,036.08         4,636.45         -198.01         4,537.87         0.00         0.00         0.00           15,000.00         89.94         359.55         10,036.18         4,736.45         -199.58         4,737.87         0.00         0.00         0.00           15,200.00         89.94         359.55         10,036.29         4,836.44         -200.36         4,837.87         0.00         0.00         0.00           15,200.00         89.94         359.55         10,036.29         4,836.44         -201.15         4,937.87         0.00				-,	-,		,			
14,500.00       89,94       359,55       10,035,66       4,236,46       -195,65       4,237,87       0.00       0.00       0.00         14,600.00       89,94       359,55       10,035,76       4,336,46       -196,44       4,337,87       0.00       0.00       0.00         14,700.00       89,94       359,55       10,035,97       4,536,45       -198,01       4,537,87       0.00       0.00       0.00         14,900.00       89,94       359,55       10,036,08       4,636,45       -198,79       4,637,87       0.00       0.00       0.00         15,000.00       89,94       359,55       10,036,18       4,736,45       -198,58       4,737,87       0.00       0.00       0.00         15,100.00       89,94       359,55       10,036,18       4,736,45       -199,58       4,737,87       0.00       0.00       0.00         15,200.00       89,94       359,55       10,036,39       4,836,44       -201,15       4,937,87       0.00       0.00       0.00         15,200.00       89,94       359,55       10,036,60       5,136,44       -201,15       4,937,87       0.00       0.00       0.00         15,400.00       89,94       359,55       10,					,					
14,600.00         89.94         359.55         10,035.76         4,336.46         -196.44         4,337.87         0.00         0.00         0.00           14,700.00         89.94         359.55         10,035.87         4,436.46         -197.22         4,437.87         0.00         0.00         0.00           14,800.00         89.94         359.55         10,036.08         4,636.45         -198.79         4,637.87         0.00         0.00         0.00           15,000.00         89.94         359.55         10,036.18         4,736.45         -198.79         4,637.87         0.00         0.00         0.00           15,000.00         89.94         359.55         10,036.18         4,736.45         -199.58         4,737.87         0.00         0.00         0.00           15,000.00         89.94         359.55         10,036.29         4,836.44         -200.36         4,837.87         0.00         0.00         0.00           15,300.00         89.94         359.55         10,036.50         5,036.44         -201.15         4,937.87         0.00         0.00         0.00           15,400.00         89.94         359.55         10,036.60         5,136.43         -202.72         5,137.87         0.00					,					
14,700.00 89.94 359.55 10,035.87 4,436.46 -197.22 4,437.87 0.00 0.00 0.00 14,800.00 89.94 359.55 10,035.97 4,536.45 -198.01 4,537.87 0.00 0.00 0.00 0.00 14,900.00 89.94 359.55 10,036.08 4,636.45 -198.79 4,637.87 0.00 0.00 0.00 0.00 15,000.00 89.94 359.55 10,036.18 4,736.45 -199.58 4,737.87 0.00 0.00 0.00 0.00 15,100.00 89.94 359.55 10,036.29 4,836.44 -200.36 4,837.87 0.00 0.00 0.00 0.00 15,100.00 89.94 359.55 10,036.39 4,936.44 -201.15 4,937.87 0.00 0.00 0.00 0.00 15,300.00 89.94 359.55 10,036.50 5,036.44 -201.93 5,037.87 0.00 0.00 0.00 0.00 15,500.00 89.94 359.55 10,036.50 5,036.44 -201.93 5,037.87 0.00 0.00 0.00 0.00 15,500.00 89.94 359.55 10,036.60 5,136.43 -202.72 5,137.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,036.81 5,336.43 -204.29 5,337.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,036.81 5,336.43 -204.29 5,337.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,036.81 5,336.43 -204.29 5,337.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,036.92 5,436.43 -205.07 5,437.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,037.21 5,536.42 -205.86 5,537.87 0.00 0.00 0.00 0.00 15,800.00 89.94 359.55 10,037.12 5,636.42 -205.86 5,537.87 0.00 0.00 0.00 0.00 15,800.00 89.94 359.55 10,037.12 5,636.42 -205.86 5,537.87 0.00 0.00 0.00 0.00 16,000.00 89.94 359.55 10,037.23 5,736.42 -205.86 5,537.87 0.00 0.00 0.00 0.00 16,000.00 89.94 359.55 10,037.23 5,736.42 -205.86 5,537.87 0.00 0.00 0.00 0.00 16,000.00 89.94 359.55 10,037.23 5,736.42 -205.86 5,537.87 0.00 0.00 0.00 0.00 16,000.00 89.94 359.55 10,037.24 5,936.41 -209.29 5,837.87 0.00 0.00 0.00 0.00 16,000.00 89.94 359.55 10,037.54 6,036.41 -209.79 6,037.87 0.00 0.00 0.00 0.00 16,000.00 89.94 359.55 10,037.56 6,136.40 -210.57 6,137.87 0.00 0.00 0.00 0.00 16,000.00 89.94 359.55 10,037.56 6,136.40 -210.57 6,137.87 0.00 0.00 0.00 0.00 16,600.00 89.94 359.55 10,037.56 6,336.40 -211.36 6,237.87 0.00 0.00 0.00 0.00 16,600.00 89.94 359.55 10,037.66 6,336.40 -211.36 6,337.87 0.00 0.00 0.00 0.00 16,600.00 89.94 359.55 10,037.66 6,336.39 -214.50 6,637.87 0.00 0.00 0.00 0.										
14,800.00       89.94       359.55       10,035.97       4,536.45       -198.01       4,537.87       0.00       0.00       0.00         14,900.00       89.94       359.55       10,036.08       4,636.45       -198.79       4,637.87       0.00       0.00       0.00         15,000.00       89.94       359.55       10,036.29       4,836.44       -200.36       4,837.87       0.00       0.00       0.00         15,200.00       89.94       359.55       10,036.39       4,936.44       -201.15       4,937.87       0.00       0.00       0.00         15,300.00       89.94       359.55       10,036.50       5,036.44       -201.15       4,937.87       0.00       0.00       0.00         15,400.00       89.94       359.55       10,036.60       5,136.43       -202.72       5,137.87       0.00       0.00       0.00         15,500.00       89.94       359.55       10,036.61       5,336.43       -202.72       5,137.87       0.00       0.00       0.00         15,600.00       89.94       359.55       10,036.81       5,336.43       -202.72       5,337.87       0.00       0.00       0.00         15,700.00       89.94       359.55       10,										
14,900.00       89.94       359.55       10,036.08       4,636.45       -198.79       4,637.87       0.00       0.00       0.00         15,000.00       89.94       359.55       10,036.18       4,736.45       -199.58       4,737.87       0.00       0.00       0.00         15,100.00       89.94       359.55       10,036.29       4,836.44       -200.36       4,837.87       0.00       0.00       0.00         15,200.00       89.94       359.55       10,036.39       4,936.44       -201.15       4,937.87       0.00       0.00       0.00         15,300.00       89.94       359.55       10,036.60       5,136.43       -202.72       5,137.87       0.00       0.00       0.00         15,500.00       89.94       359.55       10,036.60       5,136.43       -202.72       5,137.87       0.00       0.00       0.00         15,600.00       89.94       359.55       10,036.81       5,336.43       -202.72       5,137.87       0.00       0.00       0.00         15,700.00       89.94       359.55       10,036.81       5,336.43       -205.07       5,437.87       0.00       0.00       0.00         15,800.00       89.94       359.55       10,				,						
15,000.00       89.94       359.55       10,036.18       4,736.45       -199.58       4,737.87       0.00       0.00       0.00         15,100.00       89.94       359.55       10,036.29       4,836.44       -200.36       4,837.87       0.00       0.00       0.00         15,200.00       89.94       359.55       10,036.39       4,936.44       -201.15       4,937.87       0.00       0.00       0.00         15,300.00       89.94       359.55       10,036.50       5,036.44       -201.93       5,037.87       0.00       0.00       0.00         15,500.00       89.94       359.55       10,036.60       5,136.43       -202.72       5,137.87       0.00       0.00       0.00         15,600.00       89.94       359.55       10,036.81       5,336.43       -203.50       5,237.87       0.00       0.00       0.00         15,700.00       89.94       359.55       10,036.92       5,436.43       -204.29       5,337.87       0.00       0.00       0.00         15,800.00       89.94       359.55       10,037.12       5,536.42       -205.86       5,537.87       0.00       0.00       0.00         15,900.00       89.94       359.55       10,				,						
15,100.00       89.94       359.55       10,036.29       4,836.44       -200.36       4,837.87       0.00       0.00       0.00         15,200.00       89.94       359.55       10,036.50       5,036.44       -201.15       4,937.87       0.00       0.00       0.00         15,300.00       89.94       359.55       10,036.50       5,036.44       -201.93       5,037.87       0.00       0.00       0.00         15,500.00       89.94       359.55       10,036.60       5,136.43       -202.72       5,137.87       0.00       0.00       0.00         15,600.00       89.94       359.55       10,036.81       5,336.43       -204.29       5,337.87       0.00       0.00       0.00         15,700.00       89.94       359.55       10,036.81       5,336.43       -204.29       5,337.87       0.00       0.00       0.00         15,700.00       89.94       359.55       10,037.02       5,536.42       -205.07       5,437.87       0.00       0.00       0.00         15,800.00       89.94       359.55       10,037.12       5,636.42       -205.86       5,537.87       0.00       0.00       0.00         16,900.00       89.94       359.55       10,				,						
15,200.00 89.94 359.55 10,036.39 4,936.44 -201.15 4,937.87 0.00 0.00 0.00 15,300.00 89.94 359.55 10,036.60 5,136.43 -202.72 5,137.87 0.00 0.00 0.00 0.00 15,500.00 89.94 359.55 10,036.61 5,336.43 -203.50 5,237.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,036.81 5,336.43 -204.29 5,337.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,036.81 5,336.43 -204.29 5,337.87 0.00 0.00 0.00 0.00 15,600.00 89.94 359.55 10,036.81 5,336.43 -205.07 5,437.87 0.00 0.00 0.00 0.00 15,800.00 89.94 359.55 10,037.02 5,536.42 -205.86 5,537.87 0.00 0.00 0.00 0.00 15,900.00 89.94 359.55 10,037.12 5,636.42 -206.65 5,637.87 0.00 0.00 0.00 0.00 16,000.00 89.94 359.55 10,037.23 5,736.42 -207.43 5,737.87 0.00 0.00 0.00 0.00 16,100.00 89.94 359.55 10,037.33 5,836.41 -208.22 5,837.87 0.00 0.00 0.00 0.00 16,200.00 89.94 359.55 10,037.34 5,936.41 -208.22 5,837.87 0.00 0.00 0.00 0.00 16,400.00 89.94 359.55 10,037.54 6,036.41 -209.00 5,937.87 0.00 0.00 0.00 0.00 16,400.00 89.94 359.55 10,037.54 6,036.41 -209.79 6,037.87 0.00 0.00 0.00 0.00 16,400.00 89.94 359.55 10,037.54 6,036.41 -209.79 6,037.87 0.00 0.00 0.00 0.00 16,400.00 89.94 359.55 10,037.54 6,036.41 -209.79 6,037.87 0.00 0.00 0.00 0.00 16,500.00 89.94 359.55 10,037.56 6,136.40 -210.57 6,137.87 0.00 0.00 0.00 0.00 16,600.00 89.94 359.55 10,037.86 6,336.40 -211.36 6,237.87 0.00 0.00 0.00 0.00 16,600.00 89.94 359.55 10,037.86 6,336.40 -212.14 6,337.87 0.00 0.00 0.00 0.00 16,600.00 89.94 359.55 10,037.86 6,336.40 -212.14 6,337.87 0.00 0.00 0.00 0.00 16,600.00 89.94 359.55 10,037.86 6,336.40 -212.14 6,337.87 0.00 0.00 0.00 0.00 16,600.00 89.94 359.55 10,037.86 6,336.40 -212.14 6,337.87 0.00 0.00 0.00 0.00 16,600.00 89.94 359.55 10,037.86 6,336.40 -212.14 6,337.87 0.00 0.00 0.00 0.00 16,600.00 89.94 359.55 10,037.86 6,336.40 -212.14 6,337.87 0.00 0.00 0.00 0.00 16,600.00 89.94 359.55 10,037.86 6,336.40 -212.14 6,337.87 0.00 0.00 0.00 0.00 16,600.00 89.94 359.55 10,037.86 6,336.40 -212.14 6,337.87 0.00 0.00 0.00 0.00 16,600.00 89.94 359.55 10,037.96 6,436.39 -212.93 6,437.87 0.00 0.00 0.00 0.										
15,300.00       89.94       359.55       10,036.50       5,036.44       -201.93       5,037.87       0.00       0.00       0.00         15,400.00       89.94       359.55       10,036.60       5,136.43       -202.72       5,137.87       0.00       0.00       0.00         15,500.00       89.94       359.55       10,036.81       5,336.43       -203.50       5,237.87       0.00       0.00       0.00         15,700.00       89.94       359.55       10,036.81       5,336.43       -204.29       5,337.87       0.00       0.00       0.00         15,700.00       89.94       359.55       10,036.92       5,436.43       -205.86       5,537.87       0.00       0.00       0.00         15,800.00       89.94       359.55       10,037.02       5,536.42       -205.86       5,537.87       0.00       0.00       0.00         15,900.00       89.94       359.55       10,037.12       5,636.42       -206.65       5,637.87       0.00       0.00       0.00         16,000.00       89.94       359.55       10,037.33       5,836.41       -208.22       5,837.87       0.00       0.00       0.00         16,200.00       89.94       359.55       10,										
15,400.00       89.94       359.55       10,036.60       5,136.43       -202.72       5,137.87       0.00       0.00       0.00         15,500.00       89.94       359.55       10,036.71       5,236.43       -203.50       5,237.87       0.00       0.00       0.00         15,600.00       89.94       359.55       10,036.81       5,336.43       -204.29       5,337.87       0.00       0.00       0.00         15,700.00       89.94       359.55       10,036.92       5,436.43       -205.07       5,437.87       0.00       0.00       0.00         15,800.00       89.94       359.55       10,037.02       5,536.42       -205.86       5,537.87       0.00       0.00       0.00         15,900.00       89.94       359.55       10,037.12       5,636.42       -206.65       5,637.87       0.00       0.00       0.00         16,000.00       89.94       359.55       10,037.23       5,736.42       -207.43       5,737.87       0.00       0.00       0.00         16,200.00       89.94       359.55       10,037.33       5,836.41       -208.22       5,837.87       0.00       0.00       0.00         16,200.00       89.94       359.55       10,				,	,					
15,500.00       89.94       359.55       10,036.71       5,236.43       -203.50       5,237.87       0.00       0.00       0.00         15,600.00       89.94       359.55       10,036.81       5,336.43       -204.29       5,337.87       0.00       0.00       0.00         15,700.00       89.94       359.55       10,037.02       5,536.42       -205.07       5,437.87       0.00       0.00       0.00         15,800.00       89.94       359.55       10,037.02       5,536.42       -205.86       5,537.87       0.00       0.00       0.00         15,900.00       89.94       359.55       10,037.12       5,636.42       -206.65       5,637.87       0.00       0.00       0.00         16,000.00       89.94       359.55       10,037.23       5,736.42       -207.43       5,737.87       0.00       0.00       0.00         16,100.00       89.94       359.55       10,037.33       5,836.41       -208.22       5,837.87       0.00       0.00       0.00         16,200.00       89.94       359.55       10,037.44       5,936.41       -209.79       6,037.87       0.00       0.00       0.00         16,300.00       89.94       359.55       10,				,	,					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
15,700.00       89.94       359.55       10,036.92       5,436.43       -205.07       5,437.87       0.00       0.00       0.00         15,800.00       89.94       359.55       10,037.02       5,536.42       -205.86       5,537.87       0.00       0.00       0.00         15,900.00       89.94       359.55       10,037.23       5,736.42       -206.65       5,637.87       0.00       0.00       0.00         16,000.00       89.94       359.55       10,037.23       5,736.42       -207.43       5,737.87       0.00       0.00       0.00         16,100.00       89.94       359.55       10,037.33       5,836.41       -208.22       5,837.87       0.00       0.00       0.00         16,200.00       89.94       359.55       10,037.44       5,936.41       -209.00       5,937.87       0.00       0.00       0.00         16,300.00       89.94       359.55       10,037.54       6,036.41       -209.00       5,937.87       0.00       0.00       0.00         16,400.00       89.94       359.55       10,037.65       6,136.40       -210.57       6,137.87       0.00       0.00       0.00         16,500.00       89.94       359.55       10,										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
15,900.00       89.94       359.55       10,037.12       5,636.42       -206.65       5,637.87       0.00       0.00       0.00         16,000.00       89.94       359.55       10,037.23       5,736.42       -207.43       5,737.87       0.00       0.00       0.00         16,100.00       89.94       359.55       10,037.44       5,936.41       -208.22       5,837.87       0.00       0.00       0.00         16,200.00       89.94       359.55       10,037.44       5,936.41       -209.00       5,937.87       0.00       0.00       0.00         16,300.00       89.94       359.55       10,037.54       6,036.41       -209.79       6,037.87       0.00       0.00       0.00         16,400.00       89.94       359.55       10,037.65       6,136.40       -210.57       6,137.87       0.00       0.00       0.00         16,500.00       89.94       359.55       10,037.75       6,236.40       -211.36       6,237.87       0.00       0.00       0.00         16,600.00       89.94       359.55       10,037.86       6,336.40       -212.14       6,337.87       0.00       0.00       0.00         16,700.00       89.94       359.55       10,				,	,					
16,000.00       89.94       359.55       10,037.23       5,736.42       -207.43       5,737.87       0.00       0.00       0.00         16,100.00       89.94       359.55       10,037.33       5,836.41       -208.22       5,837.87       0.00       0.00       0.00         16,200.00       89.94       359.55       10,037.44       5,936.41       -209.00       5,937.87       0.00       0.00       0.00         16,300.00       89.94       359.55       10,037.54       6,036.41       -209.79       6,037.87       0.00       0.00       0.00         16,400.00       89.94       359.55       10,037.65       6,136.40       -210.57       6,137.87       0.00       0.00       0.00         16,500.00       89.94       359.55       10,037.75       6,236.40       -211.36       6,237.87       0.00       0.00       0.00         16,600.00       89.94       359.55       10,037.86       6,336.40       -212.14       6,337.87       0.00       0.00       0.00         16,700.00       89.94       359.55       10,037.96       6,436.39       -212.14       6,337.87       0.00       0.00       0.00         16,800.00       89.94       359.55       10,										
16,100.00       89.94       359.55       10,037.33       5,836.41       -208.22       5,837.87       0.00       0.00       0.00         16,200.00       89.94       359.55       10,037.44       5,936.41       -209.00       5,937.87       0.00       0.00       0.00         16,300.00       89.94       359.55       10,037.54       6,036.41       -209.79       6,037.87       0.00       0.00       0.00         16,400.00       89.94       359.55       10,037.65       6,136.40       -210.57       6,137.87       0.00       0.00       0.00         16,500.00       89.94       359.55       10,037.75       6,236.40       -211.36       6,237.87       0.00       0.00       0.00         16,600.00       89.94       359.55       10,037.86       6,336.40       -212.14       6,337.87       0.00       0.00       0.00         16,700.00       89.94       359.55       10,037.96       6,436.39       -212.93       6,437.87       0.00       0.00       0.00         16,800.00       89.94       359.55       10,038.07       6,536.39       -213.71       6,537.87       0.00       0.00       0.00         16,900.00       89.94       359.55       10,										
16,200.00       89.94       359.55       10,037.44       5,936.41       -209.00       5,937.87       0.00       0.00       0.00         16,300.00       89.94       359.55       10,037.54       6,036.41       -209.79       6,037.87       0.00       0.00       0.00         16,400.00       89.94       359.55       10,037.65       6,136.40       -210.57       6,137.87       0.00       0.00       0.00         16,500.00       89.94       359.55       10,037.75       6,236.40       -211.36       6,237.87       0.00       0.00       0.00         16,600.00       89.94       359.55       10,037.86       6,336.40       -212.14       6,337.87       0.00       0.00       0.00         16,700.00       89.94       359.55       10,037.96       6,436.39       -212.93       6,437.87       0.00       0.00       0.00         16,800.00       89.94       359.55       10,038.07       6,536.39       -213.71       6,537.87       0.00       0.00       0.00         16,900.00       89.94       359.55       10,038.17       6,636.39       -213.71       6,537.87       0.00       0.00       0.00				,						
16,300.00       89.94       359.55       10,037.54       6,036.41       -209.79       6,037.87       0.00       0.00       0.00         16,400.00       89.94       359.55       10,037.65       6,136.40       -210.57       6,137.87       0.00       0.00       0.00         16,500.00       89.94       359.55       10,037.75       6,236.40       -211.36       6,237.87       0.00       0.00       0.00         16,600.00       89.94       359.55       10,037.86       6,336.40       -212.14       6,337.87       0.00       0.00       0.00         16,700.00       89.94       359.55       10,037.96       6,436.39       -212.93       6,437.87       0.00       0.00       0.00         16,800.00       89.94       359.55       10,038.07       6,536.39       -213.71       6,537.87       0.00       0.00       0.00         16,900.00       89.94       359.55       10,038.17       6,636.39       -214.50       6,637.87       0.00       0.00       0.00	,				,					
16,400.00     89.94     359.55     10,037.65     6,136.40     -210.57     6,137.87     0.00     0.00     0.00       16,500.00     89.94     359.55     10,037.75     6,236.40     -211.36     6,237.87     0.00     0.00     0.00       16,600.00     89.94     359.55     10,037.86     6,336.40     -212.14     6,337.87     0.00     0.00     0.00       16,700.00     89.94     359.55     10,037.96     6,436.39     -212.93     6,437.87     0.00     0.00     0.00       16,800.00     89.94     359.55     10,038.07     6,536.39     -213.71     6,537.87     0.00     0.00     0.00       16,900.00     89.94     359.55     10,038.17     6,636.39     -214.50     6,637.87     0.00     0.00     0.00										
16,500.00     89.94     359.55     10,037.75     6,236.40     -211.36     6,237.87     0.00     0.00     0.00       16,600.00     89.94     359.55     10,037.86     6,336.40     -212.14     6,337.87     0.00     0.00     0.00       16,700.00     89.94     359.55     10,037.96     6,436.39     -212.93     6,437.87     0.00     0.00     0.00       16,800.00     89.94     359.55     10,038.07     6,536.39     -213.71     6,537.87     0.00     0.00     0.00       16,900.00     89.94     359.55     10,038.17     6,636.39     -214.50     6,637.87     0.00     0.00     0.00										
16,600.00     89.94     359.55     10,037.86     6,336.40     -212.14     6,337.87     0.00     0.00     0.00       16,700.00     89.94     359.55     10,037.96     6,436.39     -212.93     6,437.87     0.00     0.00     0.00       16,800.00     89.94     359.55     10,038.07     6,536.39     -213.71     6,537.87     0.00     0.00     0.00       16,900.00     89.94     359.55     10,038.17     6,636.39     -214.50     6,637.87     0.00     0.00     0.00										
16,700.00     89.94     359.55     10,037.96     6,436.39     -212.93     6,437.87     0.00     0.00     0.00       16,800.00     89.94     359.55     10,038.07     6,536.39     -213.71     6,537.87     0.00     0.00     0.00       16,900.00     89.94     359.55     10,038.17     6,636.39     -214.50     6,637.87     0.00     0.00     0.00										
16,800.00     89.94     359.55     10,038.07     6,536.39     -213.71     6,537.87     0.00     0.00     0.00       16,900.00     89.94     359.55     10,038.17     6,636.39     -214.50     6,637.87     0.00     0.00     0.00										
16,900.00 89.94 359.55 10,038.17 6,636.39 -214.50 6,637.87 0.00 0.00 0.00	,			,	.,					
				,						
	17,000.00	89.94	359.55	10,038.28	6,736.38	-215.28	6,737.87	0.00	0.00	0.00
17,100.00 89.94 359.55 10,038.38 6,836.38 -216.07 6,837.87 0.00 0.00 0.00	17,100.00	89.94	359.55	10,038.38	<b>0,</b> 830.38	<b>-</b> ∠16.07	0,837.87	0.00	0.00	0.00
17,200.00 89.94 359.55 10,038.49 6,936.38 -216.86 6,937.87 0.00 0.00 0.00	17,200.00	89.94	359.55	10,038.49	6,936.38	-216.86	6,937.87	0.00	0.00	0.00
17,300.00 89.94 359.55 10,038.59 7,036.38 -217.64 7,037.87 0.00 0.00 0.00				,			7,037.87			
17,400.00 89.94 359.55 10,038.70 7,136.37 -218.43 7,137.87 0.00 0.00 0.00										
17,500.00 89.94 359.55 10,038.80 7,236.37 -219.21 7,237.87 0.00 0.00 0.00										
17,600.00 89.94 359.55 10,038.91 7,336.37 -220.00 7,337.87 0.00 0.00 0.00	17,600.00	89.94	359.55	10,038.91	7,336.37	-220.00	7,337.87	0.00	0.00	0.00

LEAM Multi\_User Db Database: Company: Earthstone Operating, LLC Project: Lea County, NM (NAD 27) Site: Dovetail 18 7 State Com Well: Dovetail State Com 221H Wellbore:

Design:

ОН Plan #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: **Survey Calculation Method:** 

Well Dovetail State Com 221H GE 3639.2' + KB 27.5' @ 3666.70usft GE 3639.2' + KB 27.5' @ 3666.70usft Minimum Curvature

Measured Depth (usft)  17,700.00 17,800.00 17,900.00 18,000.00 18,100.00 18,300.00 18,400.00 18,500.00 18,600.00 18,700.00 18,800.00 18,900.00 19,000.00 19,100.00 19,200.00 19,300.00 19,400.00 19,500.00	89.94 89.94 89.94 89.94 89.94 89.94 89.94 89.94 89.94 89.94 89.94 89.94 89.94	Azimuth (°)  359.55 359.55 359.55 359.55 359.55 359.55 359.55 359.55 359.55 359.55 359.55	Vertical Depth (usft)  10,039.01 10,039.11 10,039.22 10,039.32 10,039.43 10,039.64 10,039.74 10,039.85 10,039.95 10,040.06 10,040.16 10,040.27	+N/-S (usft)  7,436.36 7,536.36 7,636.36 7,736.35 7,836.35 7,936.35 8,036.34 8,136.34 8,236.34 8,336.33 8,436.33 8,436.33 8,536.33 8,636.33	+E/-W (usft)  -220.78 -221.57 -222.35 -223.14 -223.92 -224.71 -225.49 -226.28 -227.07 -227.85 -228.64 -229.42	Vertical Section (usft) 7,437.87 7,537.87 7,637.87 7,737.87 7,837.87 8,037.87 8,137.87 8,237.87 8,337.87 8,437.87 8,537.87	Dogleg Rate (°/100usft)  0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Build Rate (°/100usft)  0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Turn Rate (°/100usft)  0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
17,800.00 17,900.00 18,000.00 18,100.00 18,200.00 18,300.00 18,400.00 18,500.00 18,600.00 18,700.00 18,900.00 19,000.00 19,100.00 19,200.00 19,300.00 19,400.00	89.94 89.94 89.94 89.94 89.94 89.94 89.94 89.94 89.94 89.94 89.94	359.55 359.55 359.55 359.55 359.55 359.55 359.55 359.55 359.55 359.55 359.55	10,039.11 10,039.22 10,039.32 10,039.43 10,039.53 10,039.64 10,039.74 10,039.85 10,039.95 10,040.06 10,040.16	7,536.36 7,636.36 7,736.35 7,836.35 7,936.35 8,036.34 8,136.34 8,236.34 8,336.33 8,436.33 8,536.33	-221.57 -222.35 -223.14 -223.92 -224.71 -225.49 -226.28 -227.07 -227.85 -228.64 -229.42	7,537.87 7,637.87 7,737.87 7,837.87 7,937.87 8,037.87 8,137.87 8,237.87 8,337.87 8,437.87	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
17,900.00 18,000.00 18,100.00 18,200.00 18,300.00 18,400.00 18,500.00 18,600.00 18,700.00 18,900.00 19,000.00 19,200.00 19,300.00 19,400.00	89.94 89.94 89.94 89.94 89.94 89.94 89.94 89.94 89.94 89.94	359.55 359.55 359.55 359.55 359.55 359.55 359.55 359.55 359.55 359.55	10,039.22 10,039.32 10,039.43 10,039.53 10,039.64 10,039.74 10,039.85 10,039.95 10,040.06 10,040.16	7,636.36 7,736.35 7,836.35 7,936.35 8,036.34 8,136.34 8,236.34 8,336.33 8,436.33 8,536.33	-222.35 -223.14 -223.92 -224.71 -225.49 -226.28 -227.07 -227.85 -228.64 -229.42	7,637.87 7,737.87 7,837.87 7,937.87 8,037.87 8,137.87 8,237.87 8,337.87 8,437.87	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
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18,100.00 18,200.00 18,300.00 18,500.00 18,500.00 18,600.00 18,700.00 18,900.00 19,000.00 19,100.00 19,300.00 19,400.00	89.94 89.94 89.94 89.94 89.94 89.94 89.94 89.94	359.55 359.55 359.55 359.55 359.55 359.55 359.55 359.55	10,039.43 10,039.53 10,039.64 10,039.74 10,039.85 10,039.95 10,040.06 10,040.16	7,836.35 7,936.35 8,036.34 8,136.34 8,236.34 8,336.33 8,436.33 8,536.33	-223.92 -224.71 -225.49 -226.28 -227.07 -227.85 -228.64 -229.42	7,837.87 7,937.87 8,037.87 8,137.87 8,237.87 8,337.87 8,437.87	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
18,200.00 18,300.00 18,400.00 18,500.00 18,600.00 18,700.00 18,900.00 19,000.00 19,100.00 19,200.00 19,300.00 19,400.00	89.94 89.94 89.94 89.94 89.94 89.94 89.94	359.55 359.55 359.55 359.55 359.55 359.55 359.55 359.55	10,039.53 10,039.64 10,039.74 10,039.85 10,039.95 10,040.06 10,040.16	7,936.35 8,036.34 8,136.34 8,236.34 8,336.33 8,436.33 8,536.33	-224.71 -225.49 -226.28 -227.07 -227.85 -228.64 -229.42	7,937.87 8,037.87 8,137.87 8,237.87 8,337.87 8,437.87	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
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18,400.00 18,500.00 18,600.00 18,700.00 18,800.00 19,000.00 19,100.00 19,200.00 19,300.00 19,400.00	89.94 89.94 89.94 89.94 89.94	359.55 359.55 359.55 359.55 359.55 359.55	10,039.74 10,039.85 10,039.95 10,040.06 10,040.16	8,136.34 8,236.34 8,336.33 8,436.33 8,536.33	-226.28 -227.07 -227.85 -228.64 -229.42	8,137.87 8,237.87 8,337.87 8,437.87	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
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18,600.00 18,700.00 18,800.00 18,900.00 19,000.00 19,100.00 19,200.00 19,300.00 19,400.00	89.94 89.94 89.94 89.94	359.55 359.55 359.55 359.55	10,039.95 10,040.06 10,040.16	8,336.33 8,436.33 8,536.33	-227.85 -228.64 -229.42	8,337.87 8,437.87	0.00	0.00	0.00 0.00
18,700.00 18,800.00 18,900.00 19,000.00 19,100.00 19,200.00 19,300.00 19,400.00	89.94 89.94 89.94	359.55 359.55 359.55	10,040.06 10,040.16	8,436.33 8,536.33	-228.64 -229.42	8,437.87	0.00	0.00	0.00
18,800.00 18,900.00 19,000.00 19,100.00 19,200.00 19,300.00 19,400.00	89.94 89.94	359.55 359.55	10,040.16	8,536.33	-229.42	,			
18,900.00 19,000.00 19,100.00 19,200.00 19,300.00 19,400.00	89.94	359.55	,	,		8,537.87	0.00	0.00	0.00
19,000.00 19,100.00 19,200.00 19,300.00 19,400.00			10,040.27	8 636 33					
19,100.00 19,200.00 19,300.00 19,400.00	89 94	250 55		,	-230.21	8,637.87	0.00	0.00	0.00
19,200.00 19,300.00 19,400.00		359.55	10,040.37	8,736.32	-230.99	8,737.87	0.00	0.00	0.00
19,300.00 19,400.00	89.94	359.55	10,040.48	8,836.32	-231.78	8,837.87	0.00	0.00	0.00
19,400.00	89.94	359.55	10,040.58	8,936.32	-232.56	8,937.87	0.00	0.00	0.00
	89.94	359.55	10,040.69	9,036.31	-233.35	9,037.87	0.00	0.00	0.00
19,500.00	89.94	359.55	10,040.79	9,136.31	-234.13	9,137.87	0.00	0.00	0.00
,	89.94	359.55	10,040.89	9,236.31	-234.92	9,237.87	0.00	0.00	0.00
19,600.00	89.94	359.55	10,041.00	9,336.30	-235.70	9,337.87	0.00	0.00	0.00
19,700.00	89.94	359.55	10,041.10	9,436.30	-236.49	9,437.87	0.00	0.00	0.00
19,800.00	89.94	359.55	10,041.21	9,536.30	-237.28	9,537.87	0.00	0.00	0.00
19,900.00	89.94	359.55	10,041.31	9,636.29	-238.06	9,637.87	0.00	0.00	0.00
20,000.00	89.94	359.55	10,041.42	9,736.29	-238.85	9,737.87	0.00	0.00	0.00
20,100.00	89.94	359.55	10,041.52	9,836.29	-239.63	9,837.87	0.00	0.00	0.00
20,200.00	89.94	359.55	10,041.63	9,936.28	-240.42	9,937.87	0.00	0.00	0.00
LTP (Dovetail 221)									
20,269.12	89.94	359.55	10,041.70	10,005.40	-240.96	10,006.98	0.00	0.00	0.00

Formations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,676.70	1,676.70	Rustler				
	2,106.70	2,106.70	Salado				
	3,628.98	3,626.70	Yates				
	4,150.32	4,146.70	Capitan Reef				
	5,624.09	5,616.70	Cherry Canyon				
	6,651.73	6,641.70	Brushy Canyon				
	8,055.32	8,041.70	Top BSPG Lime				
	9,248.37	9,231.70	1st BSPG Ss				
	9,448.88	9,431.70	2nd BSPG Carb				
	9,825.26	9,786.70	2nd BSPG Ss				
	10,719.82	10,031.70	Target LP				

## 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

	N	ATURAL GA	AS MANA	GEMENT PI	LAN			
This Natural Gas Manag	gement Plan m	ust be submitted wi	th each Applica	tion for Permit to I	Orill (AF	PD) for a	new or	recompleted well.
			1 – Plan D fective May 25.					
I. Operator: EARTH	STONE OPE	RATING, LLC	OGRID: 3311	65		Date	e: _07	/14/2023
II. Type: Y Original	☐ Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C □ 19.15.27.9.D(	(6)(b) NI	MAC □ (	Other.	
If Other, please describe	e:							
<b>III. Well(s):</b> Provide the be recompleted from a s					wells pro	oposed to	be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D		cipated Produced Water BBL/D
SEE ATTACHED								
IV. Central Delivery P	oint Name: _	DOVETAIL B1 E	BATTERY			[See 1	9.15.2	7.9(D)(1) NMAC]
V. Anticipated Schedu proposed to be recomple					ell or se	et of wells	s propo	sed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial F Back D		First Production Date
SEE ATTACHED			Bute	Commencement	Bute	Buck E		Dute
VI. Separation Equipm	nent: □XAttacl	h a complete descrip	ption of how Op	erator will size sep	aration 6	equipmen	it to op	timize gas capture.
VII. Operational Prac Subsection A through F	tices: □XAttac of 19.15.27.8	ch a complete descr NMAC.	ription of the ac	tions Operator will	l take to	comply	with tl	ne requirements of
VIII. Best Management during active and planned			te description of	Operator's best m	nanagem	nent pract	tices to	minimize venting

Received by OCD: 7/14/2023 12:45:44 PM

WELL NAME	API	UL/SECT/T/R	FOOTAGES	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED WATER BBL/D
DOVETAIL 18 7 STATE COM 221H		LOT 4-18-21S-35E	510 FSL, 493 FWL	700 BBL/D	1200 MCF/D	2600 BBL/D
DOVETAIL 18 7 STATE COM 111H		LOT 4-18-21S-35E	506 FSL, 523 FWL	700 BBL/D	1200 MCF/D	2600 BBL/D
DOVETAIL 18 7 STATE COM 212H		N-18-21S-35E	384 FSL, 2290 FWL	700 BBL/D	1200 MCF/D	2600 BBL/D
DOVETAIL 18 7 STATE COM 112H		N-18-21S-35E	414 FSL, 2290 FWL	700 BBL/D	1200 MCF/D	2600 BBL/D
WELL NAME	API	SPUD	TD	COMPLETION DATE	FLOW BACK DATE	FIRST PRODUCTION
DOVETAIL 18 7 STATE COM 221H		22-NOV-24	12-DEC-24	19-MAR-25	11-MAY-25	12-MAY-25
DOVETAIL 18 7 STATE COM 111H		13-DEC-24	2-JAN-25	19-MAR-25	11-MAY-25	12-MAY-25
DOVETAIL 18 7 STATE COM 212H		8-JAN-25	28-JAN-25	19-MAR-25	11-MAY-25	12-MAY-25
DOVETAIL 18 7 STATE COM 112H		29-JAN-25	18-FEB-25	19-MAR-25	11-MAY-25	12-MAY-25

## 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.**  $\square$  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  $\square$  will  $\square$  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  $\square$  does  $\square$  does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

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

**XIV. Confidentiality:** 

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

# Section 3 - Certifications Effective May 25, 2021

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

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

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

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

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

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

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

## **Section 4 - Notices**

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature: OMWILL PLUD				
Printed Name: JENNIFER ELROD				
Title: SR. REGULATORY ANALYST				
E-mail Address: JELROD@EARTHSTONEENERGY.COM				
Date: 07/14/2023				
Phone: (940)452-6214				
OIL CONSERVATION DIVISION				
(Only applicable when submitted as a standalone form)				
Approved By:				
Title:				
Approval Date:				
Conditions of Approval:				

## ESTE Natural Gas Management Plan Items VI-VIII

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

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Adequate separation relates to retention time for Liquid Liquid separation and velocity for Gas-Liquid separation.
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering are selected to be serviced without flow interruptions or the need to release gas from the well.

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

#### **Drilling Operations**

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100' from the nearest surface hole location on the pad.
- All-natural gas produced during drilling operations will be flared, unless there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety and the environment, at which point the gas will be vented.

### Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as excess VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which point it will be flared until it meets pipeline spec.

### **Production Operations**

- Weekly AVOs will be performed on all facilities.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All tanks will have sight glasses installed, but no electronic gauging equipment.
- Leaking thief hatches found during AVOs will be cleaned and properly re-sealed.
- There will be no gas re-injection for underground storage, temporary storage, or for enhanced oil recovery; however, gas injection will be used for gas lift applications in which the gas would be circulated through a closed loop system.
- If H2S is encountered, gas will be treated to pipeline spec to avoid shut-in's and/or flaring.

#### Performance Standards

• Production equipment will be designed to handle maximum anticipated rates and pressure.

- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Weekly AVOs will be performed on all wells and facilities that produce more than 50MCFPD.

## **Measurement & Estimation**

- All volume that is flared or vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- No meter bypasses with be installed.
- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

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

- During downhole well maintenance, ESTE will use best management practices to vent as minimally as possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.

## **Dovetail State Com 221H**

## **Casing and Cement**

String	<b>Hole Size</b>	Csg OD	PPF	Depth	Sx Cement	TOC
Surface	14 3/4"	10 <sup>3</sup> / <sub>4</sub> "	45.5#	1,750'	600	0'
Intermediate	9 7/8"	8-5/8"	32#	5,717'	1000	0'
Production	7-7/8"	5-1/2"	20#	20,269'	1200	3,647'

## Well Plan

Drill 14-3/4" hole to ~1,750' w/ fresh water. Run 10-3/4" 45.5# J-55 BTC casing to TD and cement to surface in one stage.

Drill 9-7/8" hole to ~5,717' with saturated Brine. Run 8-5/8 32# L-80 MO-FXL to TD and cement to surface in two stages. DVT will be placed at 4,047' MD.

Drill 7-7/8" vertical hole, curve & lateral to 20,269' with OBM. Run 5-1/2" 20# P110 BTC casing from TD to surface and cement to 3,647' in one stage.

### **Well Control**

<u>Type</u>	Working Pressure	<b>Test Pressure</b>	<u>Manufacture</u>
Double Ram	5000 psi	5000 psi	Cameron