

District I1625 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) 476-3462Form C-101
August 1, 2011

Permit 322791

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

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

| | | |
|--|---|-------------------------------|
| 1. Operator Name and Address Tascosa Energy Partners, L.L.C 901 W. Missouri Ave Midland, TX 79701 | | 2. OGRID Number 329748 |
| | | 3. API Number 30-015-49817 |
| 4. Property Code 333128 | 5. Property Name BONNEVILLE 16 STATE | 6. Well No. 201H |

7. Surface Location

| | | | | | | | | | |
|---------------|---------------|-----------------|--------------|---------|-------------------|---------------|------------------|---------------|----------------|
| UL - Lot D | Section 16 | Township 20S | Range 27E | Lot Idn | Feet From 1290 | N/S Line N | Feet From 250 | E/W Line W | County Eddy |
|---------------|---------------|-----------------|--------------|---------|-------------------|---------------|------------------|---------------|----------------|

8. Proposed Bottom Hole Location

| | | | | | | | | | |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|------------------|---------------|----------------|
| UL - Lot A | Section 16 | Township 20S | Range 27E | Lot Idn A | Feet From 660 | N/S Line N | Feet From 100 | E/W Line E | County Eddy |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|------------------|---------------|----------------|

9. Pool Information

| | |
|---------------------------|------|
| AVALON;BONE SPRING, NORTH | 3712 |
|---------------------------|------|

Additional Well Information

| | | | | |
|---------------------------|-----------------------------|--|-------------------------|------------------------------------|
| 11. Work Type New Well | 12. Well Type OIL | 13. Cable/Rotary | 14. Lease Type State | 15. Ground Level Elevation 3293 |
| 16. Multiple N | 17. Proposed Depth 11509 | 18. Formation 2nd Bone Spring Sand | 19. Contractor | 20. Spud Date 9/15/2022 |
| Depth to Ground water | | Distance from nearest fresh water well | | Distance to nearest surface water |

☒ We will be using a closed-loop system in lieu of lined pits**21. Proposed Casing and Cement Program**

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 17.5 | 13.375 | 48 | 500 | 734 | 0 |
| Int1 | 12.25 | 9.625 | 36 | 2500 | 1153 | 0 |
| Prod | 8.5 | 5.5 | 20 | 11509 | 1871 | 0 |

Casing/Cement Program: Additional Comments

| |
|--|
| |
|--|

22. Proposed Blowout Prevention Program

| Type | Working Pressure | Test Pressure | Manufacturer |
|---------|------------------|---------------|--------------|
| Annular | 5000 | 5000 | CTI |
| Pipe | 5000 | 5000 | CTI |
| Blind | 5000 | 5000 | CTI |

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
 I further certify I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

Printed Name: Electronically filed by Kelly M Hardy

Title: Land Manager

Email Address: khardy@tascosaep.com

Date: 8/8/2022

Phone: 432-695-6970

OIL CONSERVATION DIVISION

Approved By: Katherine Pickford

Title: Geoscientist

Approved Date: 8/15/2022 Expiration Date: 8/15/2024

Conditions of Approval Attached

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

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|------------------------------------|--|--|
| API Number 30-015- 49817 | Pool Code 96381 3712 | Pool Name AVALON;BONE SPRING North |
| Property Code 333128 | Property Name BONNEVILLE 16 STATE | Well Number #201H |
| OGRID No. 329748 | Operator Name TASCOSA ENERGY PARTNERS, LLC | Elevation 3293' |

Surface Location

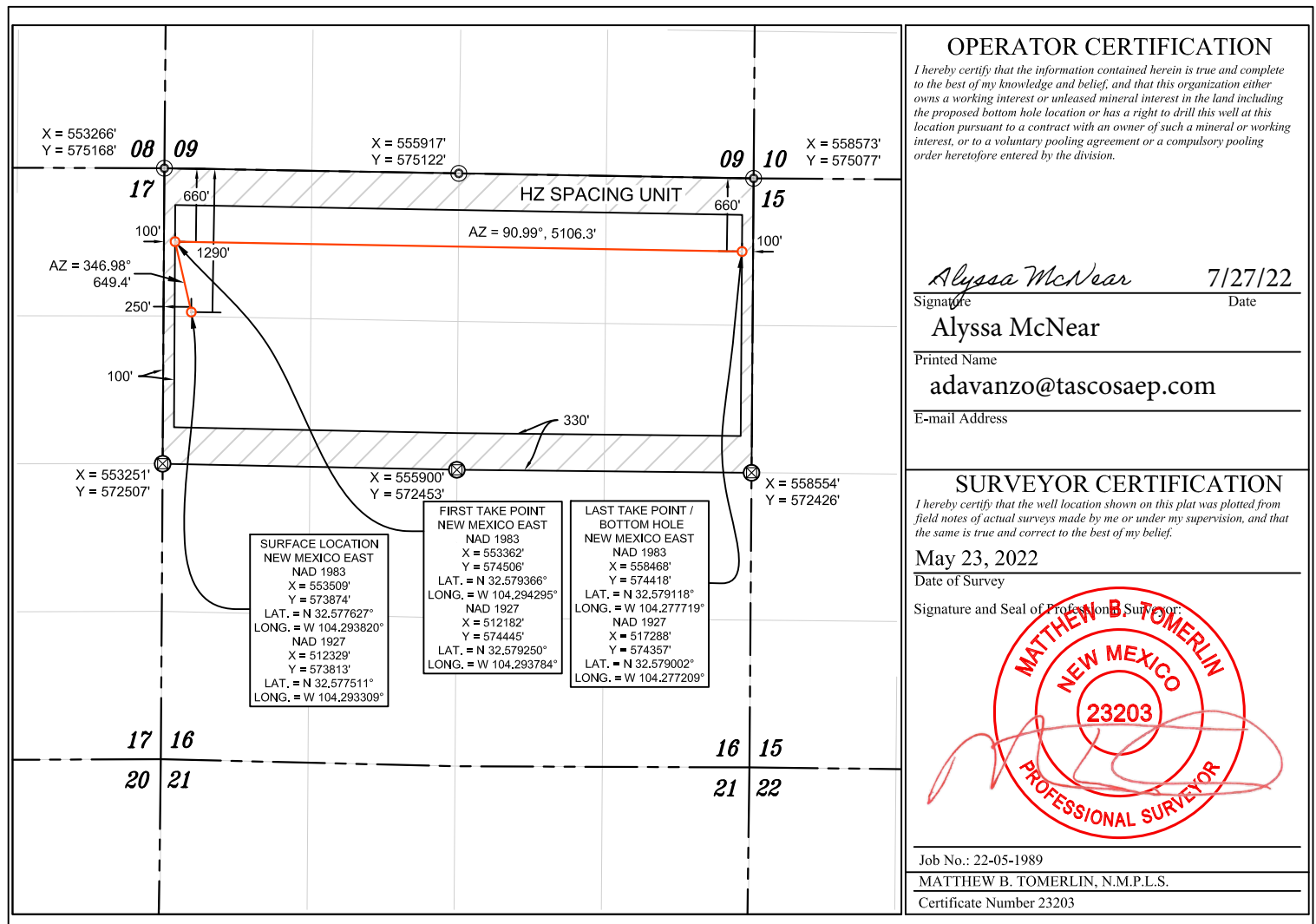
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| D | 16 | 20 S | 27 E | | 1290 | NORTH | 250 | WEST | EDDY |

Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| A | 16 | 20 S | 27 E | | 660 | NORTH | 100 | EAST | EDDY |

| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
|-----------------|-----------------|--------------------|-----------|
| 320.00 | | | |

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

Form APD Comments

Permit 322791

PERMIT COMMENTS

| | | |
|---|--|------------------------------------|
| Operator Name and Address: Tascosa Energy Partners, L.L.C [329748] 901 W. Missouri Ave Midland, TX 79701 | | API Number: 30-015-49817 |
| | | Well: BONNEVILLE 16 STATE #201H |
| Created By | Comment | Comment Date |
| kpickford | Defining well 30-015-49806 BONNEVILLE 16 STATE #302H | 8/15/2022 |

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

Form APD Conditions
Permit 322791

PERMIT CONDITIONS OF APPROVAL

| | | |
|---|---|------------------------------------|
| Operator Name and Address: Tascosa Energy Partners, L.L.C [329748] 901 W. Missouri Ave Midland, TX 79701 | | API Number: 30-015-49817 |
| | | Well: BONNEVILLE 16 STATE #201H |
| OCD Reviewer | Condition | |
| kpickford | The pool assignment for this well has been corrected on the C-102. Subsequent sundries must reflect the correct pool. | |

Bonneville 16 State # 2 Directional

MITCHELL ENGINEERING PROGRAMS

COPYRIGHT 1990 MITCHELL ENGINEERING, PO BOX 1492. GOLDEN, CO, 80402, USA (303) 273 3744

LONG's METHOD OF SURVEY COMPUTATION**OBLIQUE CIRCULAR ARC INTERPOLATION**

| | |
|------|------------------------------------|
| | MD OF INTERPOLATION DEPTH,(feet) |
| #N/A | TVD COORDINATE OF THE DEPTH (feet) |
| #N/A | N/S COORDINATE OF DEPTH (feet) |
| #N/A | E/W COORDINATE OF DEPTH (feet) |

DISTANCE TABLE

| STATION A | STATION B |
|-----------|-----------|
| | |
| | |
| | |
| 0.00 | ft |

3 D DISTANCE BETWEEN STATION A AND STATION B

TABLE OF SURVEY STATIONS

Calculator =

| STA # | ΔMD ft | INCL deg | AZIM deg | MD ft | TVD ft | N+/S- ft | E+/W- ft | DLS deg/100FT |
|-------|--------------|----------|----------|----------|---------|----------|----------|---------------|
| 1 | TIE POINT => | 0 | 0 | 1500.00 | 1500.00 | 0.00 | 0.00 | - |
| 2 | 100 | 3 | 326.31 | 1600.00 | 1599.95 | 2.18 | -1.45 | 3.00 |
| 3 | 100 | 6 | 326.31 | 1700.00 | 1699.63 | 8.71 | -5.80 | 3.00 |
| 4 | 100 | 9 | 326.31 | 1800.00 | 1798.77 | 19.56 | -13.04 | 3.00 |
| 5 | 100 | 10 | 326.31 | 1900.00 | 1897.40 | 33.30 | -22.20 | 1.00 |
| 6 | 100 | 10 | 326.31 | 2000.00 | 1995.88 | 47.75 | -31.83 | 0.00 |
| 7 | 1420 | 10 | 326.31 | 3420.00 | 3394.30 | 252.91 | -168.61 | 0.00 |
| 8 | 100 | 10 | 326.31 | 3520.00 | 3492.78 | 267.36 | -178.24 | 0.00 |
| 9 | 100 | 9 | 326.31 | 3620.00 | 3591.41 | 281.09 | -187.40 | 1.00 |
| 10 | 100 | 6 | 326.31 | 3720.00 | 3690.54 | 291.95 | -194.63 | 3.00 |
| 11 | 100 | 3 | 326.31 | 3820.00 | 3790.22 | 298.48 | -198.99 | 3.00 |
| 12 | 100 | 0 | 326.31 | 3920.00 | 3890.18 | 300.66 | -200.44 | 3.00 |
| 13 | 2018 | 0 | 0 | 5938.00 | 5908.18 | 300.66 | -200.44 | 0.00 |
| 14 | 100 | 0 | 86.32 | 6038.00 | 6008.18 | 300.66 | -200.44 | 0.00 |
| 15 | 100 | 10 | 86.32 | 6138.00 | 6107.67 | 301.22 | -191.75 | 10.00 |
| 16 | 100 | 20 | 86.32 | 6238.00 | 6204.14 | 302.88 | -165.96 | 10.00 |
| 17 | 100 | 30 | 86.32 | 6338.00 | 6294.66 | 305.59 | -123.83 | 10.00 |
| 18 | 100 | 40 | 86.32 | 6438.00 | 6376.47 | 309.26 | -66.67 | 10.00 |
| 19 | 100 | 50 | 86.32 | 6538.00 | 6447.09 | 313.79 | 3.81 | 10.00 |
| 20 | 100 | 60 | 86.32 | 6638.00 | 6504.37 | 319.05 | 85.45 | 10.00 |
| 21 | 100 | 70 | 86.32 | 6738.00 | 6546.58 | 324.86 | 175.78 | 10.00 |
| 22 | 100 | 80 | 86.32 | 6838.00 | 6572.43 | 331.05 | 272.05 | 10.00 |
| 23 | 78 | 87.76 | 86.32 | 6916.00 | 6580.74 | 336.02 | 349.39 | 9.95 |
| 24 | 100 | 87.76 | 86.32 | 7016.00 | 6584.65 | 342.43 | 449.10 | 0.00 |
| 25 | 100 | 87.76 | 86.32 | 7116.00 | 6588.56 | 348.85 | 548.82 | 0.00 |
| 26 | 4200 | 87.76 | 86.32 | 11316.00 | 6752.72 | 618.21 | 4736.96 | 0.00 |
| 27 | 100 | 87.76 | 86.32 | 11416.00 | 6756.63 | 624.63 | 4836.68 | 0.00 |
| 28 | 93 | 87.76 | 86.32 | 11509.00 | 6760.26 | 630.59 | 4929.41 | 0.00 |
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Bonneville 16 State # 2 Directional

MITCHELL ENGINEERING PROGRAMS

| STA # | ΔMD ft | INCL deg | AZIM deg | MD ft | TVD ft | N+/S- ft | E+/W- ft | DLS deg/100FT |
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Bonneville 16 State # 2 Directional

MITCHELL ENGINEERING PROGRAMS

| STA # | ΔMD ft | INCL deg | AZIM deg | MD ft | TVD ft | N+/S- ft | E+/W- ft | DLS deg/100FT |
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Well name:

Bonneville 16 State #201HOperator: **Tascosa Energy Partners, LLC**String type: **Surface Casing (500)****Eddy County, New Mexico. SHL= 1,290 FNL & 250 FWL, Sec 16, T20S, R27E****BHL = 660 FNL & 100 FEL, Sec 16, T20S, R27E,****Design parameters:****Collapse**

Mud weight: 9.00 ppg

Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

DF 1.125

Burst:

DF 1.10

Environment:

H2S considered? No

Surface temperature: 75.00 °F

BHTemp 79 °F

Temp gradient: 0.80 °F/100ft

Minimum sec length: 500 ft

Minimum Drift: 12.25 in

Cement top: Surface

Burst

Max anticipated surface pressure

= 250.00 psi

Internal gradient: = 0.12 psi/ft

Calculated BHP = 310.00 psi

Tension:

8 Rd STC: 1.80

8 Rd LTC: 1.80

Buttress: 1.60

Premium: 1.50

Body yield: 1.50

Non-directional string.

(J)

(J)

(J)

(J)

(B)

Re subsequent strings:

Next setting depth: 3,000.00 ft

Next mud weight: 10.00 ppg

Next setting BHP: 1,482.00 psi

Fracture mud wt: 11.00 ppg

Safety Factor Injection 1.00 ppg

Fracture depth: 500.00 ft

Injection pressure 312.00 psi

No backup mud specified.

Tension is based on buoyed wgt.

Neutral pt: 453.00 ft

Maximum Lift using 14.8 ppg cmt to surface with 8.5 ppg mud filled csg=
23,014 lbs lift. String wgt = 24,600 lbs. Chain down casing prior to cmt job
for Safety.

| Run Seq | Segment Length (ft) | Size (in) | Nominal Weight (lbs/ft) | Grade | End Finish | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in) | Internal Capacity (ft³) | Internal Capacity (bbls) |
|---------|---------------------|-------------------------|-------------------------|------------------|----------------------|----------------------|---------------------|-------------------------|-------------------------|--------------------------|
| 1 | 45 | 13.375 | 48.00 | H-40 | ST&C | 500 | 500 | 12.59 | 440.9 | 78.54 |
| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor | Tension Load (Kips) | Tension Strength (Kips) | Tension Design Factor | |
| 1 | 234 | 740 | 3.16 | 312 | 1730 | 5.54 | 24 | 322 | 13.417 | |

Prepared

by: Richard Wright

Phone: (432) 695 6970

FAX: (432) 695 6973

Date: 05/02/22

Midland, Texas

Remarks:

Collapse is based on a vertical depth of 500 ft, a mud weight of 9.0 ppg The casing is considered to be evacuated for collapse purposes.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name: **Bonneville 16 State # 201H**

Operator: **Tascosa Energy Partners, LLC**

String type: **Intermediate Casing (3,000)**

Eddy County, New Mexico. SHL= 1,290 FNL & 250 FWL, Sec 16, T20S, R27E

BHL = 660 FNL & 100 FEL, Sec 16, T20S, R27E,

Design parameters:

Collapse

Mud weight: 9.50 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

DF 1.125

Burst:

DF 1.15

Environment:

H2S considered? No
Surface temperature: 75.00 °F
BH Temp 99 °F
Temp Gradient 0.80 °F/100ft
Minimum Sec Length 1500 ft
Minimum Drift: 8.75 in
Cement top: Surface

Burst

Max anticipated surface pressure: 1,902.00 psi

Internal gradient: 0.12 psi/ft
Calculated BHP 2,262.00 psi

No backup mud specified.

Tension:

8 Rd STC: 1.80
8 Rd LTC: 1.80
Buttress: 1.60
Premium: 1.50
Body yield: 1.50

Non-directional string.

Re subsequent strings:

Tension is based on buoyed wgt.
Neutral pt: ± 2578 ft

Next setting depth: 12,818 ft MD
Next setting depth: 7,880 ft TVD
Next mud weight: 9.5 ppg
Next setting BHP: 3,893 psi
Fracture mud wt: 13.5 ppg
Safety Factor-Injection 1 ppg
Fracture depth: 3000 ft
Injection pressure 2,262 psi

| Run Seq | Segment Length (ft) | Size (in) | Nominal Weight (lbs/ft) | Grade | End Finish | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in) | ID Diameter (in) | Internal Capacity (bbls) |
|---------|---------------------|-------------------------|-------------------------|------------------|----------------------|----------------------|---------------------|-------------------------|-----------------------|--------------------------|
| 1 | 3000 | 9.625 | 36 | J-55 | LT&C | 3000 | 3000 | 8.796 | 8.921 | 232 |
| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor | Tension Load (Kips) | Tension Strength (Kips) | Tension Design Factor | |
| 1 | 1482 | 2020 | 1.36 | 1902 | 3520 | 1.85 | 108 | 453 | 4.19 | J |

Prepared by: Richard Wright

Phone: (432) 695 6970
FAX: (432) 695 6973

Date: 05/02/22
Midland, Texas

Remarks:

Collapse is based on a vertical depth of 3,000 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

Bonneville 16 State # 201HOperator: **Tascosa Energy Partners, LLC**String type: **Production Casing (± 11,509 ft MD) "FRAC"**

Eddy County, New Mexico. SHL= 1,290 FNL & 250 FWL, Sec 16, T20S, R27E

BHL = 660 FNL & 100 FEL, Sec 16, T20S, R27E,

Design parameters:**Collapse**

Mud weight:

9.50 ppg

Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

DF 1.125

Burst:

DF 1.12

Environment:

H2S considered?

No

Surface temperature:

75.00 °F

Bottom hole temp:

141 °F

Temperature gradient:

0.80 °F/100ft

Minimum section lgth:

2,500 ft

Minimum Drift:

4.653 in

Cement top:**Surface ft****Burst**

Max anticipated surface

pressure FRAC @ RATE:**10,000.00 psi**

Internal gradient:

0.000 psi/ft

Calculated BHP

10,000.00 psi

backup mud specified.

0.000 psi/ft

Net Injection Pressure Surface

10,000.00 psi

Net Injection Pressure TVD

5,606.00 psi

Annular surface PSI

0 psi

Frac Gradient

12.50 ppg

Frac Gradient

0.65 psi/ft

Tension:

8 Rd STC:

1.80

(J)

8 Rd LTC:

1.80

(J)

Buttress:

1.60

(J)

Premium:

1.50

(J)

Body yield:

1.50

(B)

Directional Info - Build & Hold

KOP #1 ±

1,500 ft

KOP #2 ±

6,038 ft

Departure at shoe:

4,969 ft

Maximum dogleg:

10 °/100ft

Inclination at shoe:

86.32 °

Tension is based on buoyed weight. (.85474 factor)

Neutral pt: **± 5,515 ft assumes no friction calc from mid pt of curve**

| Run Seq | Segment Length (ft) | Size (in) | Nominal Weight (lbs/ft) | Grade | End Finish | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in) | ID Diameter (in) | Internal Capacity (bbls) |
|---------|---------------------|-----------|-------------------------|---------|---------------|----------------------|---------------------|---------------------|------------------|--------------------------|
| 1 | 11,509 | 5.5 | 20 | CYP-110 | BTC Semi Prem | 6,760 | 11,509 | 4.653 | 4.778 | 256.0 |

| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor | Tension Load (Kips) | Tension Strength (Kips) | Tension Design Factor |
|---------|---------------------|-------------------------|------------------------|------------------|----------------------|---------------------|---------------------|-------------------------|-----------------------|
| 1 | 3,339 | 12200 | 3.65 | 10000 | 12360 | 1.236 | 330 | 641 | 1.94 yield |

100K over pull at TD

Prepared

Phone: (432) 695 6970

Date: 05/02/22

by: Richard Wright

FAX: (432) 695 6973

Midland, Texas

Remarks:

Collapse is based on a vertical depth of 6,760 ft, a mud weight of 9.5 ppg The casing is considered to be evacuated for collapse purposes.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a tensile load which is added to the axial load

| | | | |
|----------------|----------------|-------------|--|
| API # | | | |
| Operator Name: | Property Name: | Well Number | |

| | | | | | | | | | |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL | Section | Township | Range | Lot | Feet | From N/S | Feet | From E/W | County |
| Latitude | | | | | Longitude | | | | NAD |

| | | | | | | | | | |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL | Section | Township | Range | Lot | Feet | From N/S | Feet | From E/W | County |
| Latitude | | | | | Longitude | | | | NAD |

| | | | | | | | | | |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL | Section | Township | Range | Lot | Feet | From N/S | Feet | From E/W | County |
| Latitude | | | | | Longitude | | | | NAD |

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

| | | | |
|----------------|----------------|-------------|--|
| API # | | | |
| Operator Name: | Property Name: | Well Number | |

[illegible]

**Tascosa Energy Partners, LLC
Bonneville 16 State
Hydrogen Sulfide Contingency Plan
For Drilling/Workover/Facility
SEC 16, T20S, R27E, Eddy County, New Mexico**

Bonneville 16 State wells and their anticipated facility are not expected to have Hydrogen Sulfide releases. However, there may be Hydrogen Sulfide production in the nearby area. There are no occupied dwellings within a mile of the area but a contingency plan has been orchestrated. Tascosa Energy Partners, LLC will have a Company Representative living on location throughout the drilling and completion of this well. If Hydrogen Sulfide is detected or suspected, monitoring equipment will be available for monitoring and/or testing. An unmanned H₂S safety trailer and monitoring equipment will also be station on location during the drilling operation below the Surface Casing depth of \pm 500 ft. to total drilling depth of \pm 13,000 ft.

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EMERGENCY CALL LIST: (Start and continue until ONE of these people have been contacted)

| | OFFICE | MOBILE | HOME |
|-----------------------------|---------------------|---------------------|-------------|
| Tascosa Energy ,LLC. | 432 695-6970 | | |
| Alyssa McNear | | 720 244 4417 | |
| Jeff Birkelbach | 432 695-6970 | 432 553 0391 | |
| Brian Kirkland | | 432 770-2325 | |
| Kevin Herrmann | 432 695-6970 | 432 254-9106 | |

EMERGENCY RESPONSE NUMBERS:

| | | | |
|-------------------------------|-------------------------|---------------|----------------------------|
| State Police: | Eddy County | | 575 748 9718 |
| State Police: | Lea County | | 575 392 5588 |
| Sheriff | Eddy County | | 575 746 2701 |
| Sheriff | Lea County | | |
| Emergency Medical Ser | Eddy County | | 911 or 575 746 2701 |
| (Ambulance) | Lea County | Eunice | 911 or 575 394 3258 |
| Emergency Response | Eddy County SERC | | 575 476 9620 |
| Artesia Police Dept | | | 575 746 5001 |
| Artesia Fire Dept | | | 575 746 5001 |
| Carlsbad Police Dept | | | 575 885 2111 |
| Carlsbad Fire Dept | | | 575 885 3125 |
| Loco Hills Police Dept | | | 575 677 2349 |
| Jal Police Dept | | | 575 395 2501 |
| Jal Fire Dept | | | 575 395 2221 |
| Jal ambulance | | | 575 395 2221 |
| Eunice Police Dept | | | 575 394 0112 |
| Eunice Fire Dept | | | 575 394 3258 |

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Bonneville 16 State
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| | | |
|-------------------------------|---|--|
| Eunice Ambulance | | 575 394 3258 |
| Hobbs Police Dept | | |
| NMOCD | District 1 (Lea, Roosevelt, Curry) | 575 393 6161 |
| | District 2 (Eddy Chavez) | 575 748 1283 |
| BLM Carlsbad | | 575 234 5972 |
| BLM Hobbs | | 575 393 3612 |
| Lea County Information | | 575 393 8203 |
| Midland Safety | Lea/Eddy County | 432 520 3838 888 262 4964 |
| American Safety | Lea/Eddy County | 575 746 1096 575 393 3093 |
| Halliburton | Artesia | 800 844 8451 |
| | Hobbs | 800 844 8451 |
| | Midland | 800 844 8451 |
| Wild Well Control | Midland | 281 784 4700 281 443 4873 |

**Tascosa Energy Partners, LLC
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HYDROGEN SULFIDE TRAINING

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1. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well

- 1. The hazards and characteristics of hydrogen sulfide (H₂S)**
- 2. The proper use and maintenance of personal protective equipment and life support systems.**
- 3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing winds.**
- 4. The proper techniques for first aid and rescue procedures**

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in the special maintenance requirements.**
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.**
- 3. The contents and requirements of H₂S Drilling Operations Plan and the Public Protection plan.**

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S Safety Equipment and Systems

Note: All H₂S safety equipment and systems will be installed, tested and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S. If H₂S greater than 100 ppm is encountered in the gas stream we will shut-in and install H₂S equipment.

- 1. Well Control Equipment:**
 - a. Flare Line**
 - b. Choke manifold with remotely operated choke**
 - c. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.**

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- d. Auxiliary equipment to include; annular preventer, mud gas separator, rotating head.
2. Protective equipment for essential personnel:
 - a. Mark II Survive air 30 minute units located in the dog house and at the briefing areas.
3. H2S detection and monitoring equipment:
 - a. 2-portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
4. Visual warning systems:
 - a. Caution/Danger signs shall be posted on roads providing direct access to the location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate.
5. Mud Program:
 - a. The mud program has been designed to minimize the volume of H2S circulated to the surface.
6. Metallurgy:
 - a. All drill strings, casing, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
7. Communications:
 - a. Company vehicles equipped with cellular telephone.

Tascosa Energy Partners, LLC has conducted a review to determine if an H2S contingency plan is required for the subject well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, **we do not believe that an H2S contingency plan is necessary**

General H2S Emergency Actions:

1. All personnel will immediately evacuate to an up-wind and if possible up-hill "safe area"
2. If for any reason a person must enter the hazardous area, they must wear a SCBA (Self Contained Breathing Apparatus)
3. Always use the "buddy system"
4. Isolate the well/problem if possible
5. Account for all personnel
6. Display the proper colors warning all unsuspecting personnel of the danger at hand.
7. Contact the Company personnel as soon as possible if not at the location. (use the enclosed call list as instructed

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At this point the company representative will evaluate the situation and coordinate the necessary duties to bring the situation under control, and if necessary, the notification of the emergency response agencies and nearby residents.

EMERGENCY PROCEDURES FOR AN UNCONTROLLABLE RELEASE OF H₂S

1. All personnel will wear the self-contained breathing apparatus.
2. Remove all personnel to the "safe area". (always use the buddy system).
3. Contact company personnel if not on location.
4. Set in motion the steps to protect and or remove the general public to an upwind "safe area". Maintain strict security & safety procedures while dealing with the source.
5. No entry to any unauthorized personnel.
6. Notify the appropriate agencies: City Police-City Street (s)
State Police- State Rd
County Sheriff – County Rd.
7. Call the BLM &/or NMOCD

PROTECTION OF THE GENERAL PUBLIC (Radius of Exposure):

- 100 ppm at any public area (any place not associated with this site)
- 500 ppm at any public road (any road which the general public may travel)
- 100 ppm radius of ¼ mile in New Mexico will be assumed if there is insufficient data to do the calculations, and there is a reasonable expectation that H₂S could be present in concentrations greater than 100 ppm in the gas mixture

CALCULATIONS FOR THE 100 PPM (ROE) "Pasquill-Gifford equation"

X = [(1.589) (mole fraction) (Q- volume in std cu ft)] to the power of (0.6258)

CALCULATION FOR THE 500 PPM ROE:

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X = [(.4546) (mole fraction) (Q- volume in std cu ft)] to the power of (0.6258)

Example:

If a well/facility has been determined to have 150 / 500 ppm H₂S in the gas mixture and the well/facility is producing at a gas rate of 100 MCFPD then:

150 ppm X= [(1.589) (.00015) (100,000 cfd)] to the power of (.6258)
 X= 7 ft

500 ppm X= [(.4546) (.0005) (100,000 cfd)] to the power of (.6258)
 X = 3.3 ft.

(These calculations will be forwarded to the appropriate District NMOCD office when Applicable)

PUBLIC EVACUATION PLAN:

- 1. Notification of the emergency response agencies of the hazardous condition and implement evacuation procedures.
- A trained person in H₂S safety, shall monitor with detection equipment the H₂S concentration, wind and area exposure (ROE). This person will determine the outer perimeter of the hazardous area. The extent of the evacuation area will be determined from the data being collected. Monitoring shall continue until the situation has been resolved. **(All monitoring equipment shall be UL approved, for use in class 1 groups A,B,C & D, Division 1, hazardous locations. All monitor will have a minimum capability of measuring H₂S, oxygen, and flammable values).**
- Law enforcement shall be notified to set up necessary barriers and maintain such for the duration of the situation as well as aid in the evacuation procedure.
- The company supervising personnel shall stay in communication with all agencies throughout the duration of the situation and inform such agencies when the situation has been contained and the affected area(s) is safe to enter.

PROCEDURE FOR IGNITING AN UNCONTROLABLE CONDITION:

- 1. Human life and/or property are in danger
- 2. There is no hope of bringing the situation under control with the prevailing conditions at the site.

INSTRUCTION FOR IGNITION:

- 1. Two people are required. They must be equipped with positive pressure, "self - contained breathing apparatus" and a "D" ring style full body, OSHA approved safety harness. Nonflammable rope will be attached.

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- 2. One of the people will be qualified safety person who will test the atmosphere for H₂S, Oxygen & LFL. The other person will be the company supervisor; he is responsible for igniting the well.
- 3. Ignite up wind from a distance no closer than necessary. Make sure that where you ignite from has the maximum escape avenue available. A 25 mm flare gun shall be used, with a \pm 500 ft. range to ignite the gas.
- 4. Prior to ignition, make a final check for combustible gases.
- 5. Following ignition, continue with the emergency actions & procedures as before.

A. All personnel shall receive proper H₂S training in accordance with Onshore Order III.C.3.a.

B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.

C. Required Emergency Equipment:

- Well control equipment
 - a. Flare line 100' from wellhead to be ignited by flare gun or automatic striker.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator
- Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs — 4 packs shall be stored on the rig floor th sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

- H₂S detection and monitoring equipment:

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The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.
(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.
- Mud program: **Only utilized if H2S has been detected**
The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
- Metallurgy: **Only utilized if H2S has been detected**
 - a. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
 - b. All elastomers used for packing and seals shall be H2S trim.
- Communication: **Only utilized if H2S has been detected**
Communication will be via two way radio in emergency and company vehicles. Cell phones and land lines where available.

USING SELF CONTAINED BREATHING AIR EQUIPMENT (SCBA):

- (SCBA) SHOULD BE WORN WHEN ANY OF THE FOLLOWING ARE PERFORMED: **Only utilized if H2S has been detected**
 - Working near the top or on top of a tank
 - Disconnecting any line where H2S can reasonably be expected
 - Sampling air in the area to determine if toxic concentrations of H2S exist.
 - Working in areas where over 10 ppm on H2S has been detected.
 - At any time there is a doubt as the level of H2S in the area.
- All personnel shall be trained in the use of SCBA prior to working in a potentially hazardous location.
- Facial hair and standard eyeglasses are not allowed with SCBA.
- Contact lenses are never allowed with SCBA.

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- Air quality shall be continuously be checked during the entire operation.
- After each use, the SCBA unit shall be cleaned, disinfected, serviced and inspected
- All SCBA shall be inspected monthly.

RESCUE AND FIRST AID FOR VICTIMS OF HYDROGEN SULFIDE (H₂S) POISONING:

- Do not panic
- Remain Calm & think
- Get on the breathing apparatus
- Remove the victim to the safe breathing area as quickly as possible. Up wind an uphill from source or cross wind to achieve upwind.
- Notify emergency response personnel.
- Provide artificial respiration and or CPR, as necessary
- Remove all contaminated clothing to avoid further exposure.
- A minimum of two personnel on location shall be trained in CPR and First Aid.

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Hydrogen Sulfide (H₂S) Toxic Effects

H₂S is extremely toxic. The acceptable ceiling for eight hours of exposure is 10 ppm, which is .001% by volume. H₂S is approximately 20% heavier than air (Sp. Gr= 1.19)(Air = 1) and H₂S is colorless. It forms an explosive mixture with air between 4.3% and 46%. By volume hydrogen sulfide is almost as toxic as hydrogen cyanide and 5-6 times more toxic than carbon monoxide.

Various Gases

| COMMON NAME | CHEMICAL ABBREV. | SPECIFIC GRVTY. | THRESHOLD LIMITS | HAZARDOUS LIMITS | LETHAL CONCENTRATIONS |
|------------------|------------------|-----------------|------------------|------------------|-----------------------|
| Hydrogen Sulfide | H ₂ S | 1.19 | 10ppm 15 ppm | 100 ppm/hr | 600 ppm |
| Hydrogen Cyanide | HCN | 0.94 | 10 ppm | 150 ppm/hr | 300 ppm |
| Sulfur Dioxide | SO ₂ | 2.21 | 2 ppm | N/A | 1000 ppm |
| Chlorine | CL ₂ | 2.45 | 1 ppm | 4 ppm/hr | 1000 ppm |
| Carbon Monoxide | CO | 0.97 | 50 ppm | 400 ppm/hr | 1000 ppm |
| Carbon Dioxide | CO ₂ | 1.52 | 5000 ppm | 5% | 10% |
| Methane | CH ₄ | 0.55 | 90,000 | Combustible@ 5% | N/A |

Threshold Limit: Concentrations at which it is believed that all workers may be repeatedly exposed, day after day without adverse effects.

Hazardous Limit: Concentrations that may cause death.

Lethal Concentrations: Concentrations that will cause death with short term exposure.

Threshold Limit- 10 ppm: NIOSH guide to chemical hazards.

PHYSICAL EFFECTS OF HYDROGEN SULFIDE:

| CONCENTRATION | PHYSICAL EFFECTS |
|---------------|--|
| .001% 10 PPM | Obvious and unpleasant odor. Safe for 8 hour exposure |
| .005% 50 ppm | Can cause some flu like symptoms and can cause pneumonia |
| .01% 100 ppm | Kills the sense of smell in 3-15 minutes. May irritate the eyes and throat. |
| .02% 200 ppm | Kills the sense of smell rapidly. Severly irritates the eyes and throat. Severe flu like symptoms after 4 or more hours. May cause lung damage and or death. |
| .06% 600 ppm | Loss of consciousness quickly, death will result if not rescued promptly. |



Bonneville 16 State DSU – Natural Gas Management Plan

VI. Separation Equipment:

Tascosa has sized a FWKO and a high pressure, 3-phase separator to allow for complete separation at our anticipated rates, with adequate retention times. Tank vapors will also be captured through a vapor recovery unit and sent to the DCP sales line through a compressor at the gathering station.

VII. Operational Practices:

- a. Drilling Operations – Tascosa will ensure that a flare stack is set at least 100' from the wellbore during drilling operations. This flare stack will be properly sized to handle the maximum expected release, ensuring that all natural gas produced during drilling operations can be flared (unless there is an equipment malfunction or if venting is necessary for safety reasons).
- b. Completion Operations – Prior to flowback, Tascosa will ensure that the well is connected to a gathering system that can handle the expected gas volumes. During flowback, natural gas will be separated and flared until it is within the specs of the contracted gathering system (DCP).
- c. Production Operations – Tascosa will conduct weekly AVO inspections and tackle equipment failures with haste. The emergency flare on location will be equipped with an auto-ignition, capable of handling the maximum expected release. Sight glasses will be installed on all tanks to eliminate gas releases due to gauging through thief hatches. A VRU will also be installed to capture tank vapors and reduce waste. In preparation of a VRU failure or planned maintenance, a backup combustor will be placed at the facility.
- d. Performance Standards –
 - a. Tascosa will design completion and production equipment for maximum expected output and pressure to eliminate venting.
 - b. A properly sized flare stack will be placed at the facility with an automatic ignitor.
 - c. AVO inspections will be conducted at least once a week to prevent releases due to equipment failure. These inspections will be recorded for future review.
 - d. Tascosa is obligated to eliminate waste and will repair equipment failures as soon as possible.
- e. Measurement and Estimation – A meter will be placed on the combustor and the flare stack to ensure combusted gas readings are accurate during a release event. If for any reason a meter reading is unavailable, released volumes will be estimated and reported.



VIII. Best Management Practices:

Tascosa will aim to conduct surface maintenance without venting or flaring as much as possible. If planned maintenance is prolonged due to wait times for labor and equipment, Tascosa will shut in the producing well to prevent excess emissions. Tascosa will also minimized venting during downhole operations.

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Tascosa Energy Partners, LLC. **OGRID:** 329748 **Date:** 08/01/2022

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

If Other, please describe: _____

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

| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | Anticipated Gas MCF/D | Anticipated Produced Water BBL/D |
|---------------------------|-----|--------------|-------------------|-----------------------|-----------------------|----------------------------------|
| Bonneville 16 State #201H | | D-16-20S-27E | 1290 FNL, 250 FWL | 510 | 2040 | 610 |
| | | | | | | |

IV. Central Delivery Point Name: Catalina 30 [See 19.15.27.9(D)(1) NMAC]

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

| Well Name | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow Back Date | First Production Date |
|---------------------------|-----|------------|-----------------|------------------------------|------------------------|-----------------------|
| Bonneville 16 State #201H | | 11/15/2022 | 12/10/22 | 03/01/2023 | 04/01/2023 | 04/05/2023 |
| | | | | | | |

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

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

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

Section 2 – Enhanced Plan**EFFECTIVE APRIL 1, 2022**

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

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| Signature: <i>Alyssa McNear</i> |
| Printed Name: Alyssa McNear |
| Title: Engineering Manger |
| E-mail Address: adavanzo@tascosaep.com |
| Date: 08/08/2022 |
| Phone: 720-244-4417 |
| OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) |
| Approved By: |
| Title: |
| Approval Date: |
| Conditions of Approval: |