District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

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

1. Operator Name and Address	2. OGRID Number
Tascosa Energy Partners, LLC 901 West Missouri Avenue Midland TXC 79701	329748
	3. API Number 30-015-55175

4. Property Code	5. Property Name	6. Well No.
335974	Le Mans SWD #1	#1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	19	20S	27E		343	SOUTH	340	EAST	EDDY

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	19	20s	27E		343	SOUTH	340	EAST	EDDY

9. Pool Information

Pool Name	Pool Code
SWD-Cisco	

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
NEW	SWD		STATE	3,288.7'
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
No	8,200'	Cisco		7/1/2024

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

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	450	545	0
Int1	12.25	9.625	36	3000	710	0
Prod	8.75	7	29	8200	750	2800

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 that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒, if applicable.** Signature: Alyssa McNear	OIL CONSERVATION DIVISION Approved By:
Printed name: Alyssa McNear	Title:
Title: Operations Manager	Approved Date: / Expiration Date:
E-mail Address: adavanzo@tascosaep.com	
Date: 5/15/2024 Phone:	Conditions of Approval Attached

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

ORDER

GRANTING UIC PERMIT SWD- 2539

Tascosa Energy Partners, LLC ("Applicant") filed an Application for Authorization to Inject (Form C-108) ("Application") with the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division ("OCD") to inject produced water at the Applicant's Le Mans SWD #1 ("Well"), as more fully described in Appendix A.

THE OCD FINDS THAT:

1. Applicant provided the information required by 19.15.26 NMAC and the Form C-108 for an application to inject produced water into a Class II Underground Injection Control ("UIC") well.

2. Applicant complied with the notice requirements of 19.15.26.8 NMAC.

3. No person filed a protest on the Application.

4. The Well will inject produced water into the Cisco formation(s).

5. The produced water injected into the Well will be confined by layers above and below the approved injection interval.

6. No other UIC wells which inject or that are authorized to inject produced water into the same approved injection interval are permitted within 1.1 miles of the Well.

7. The Well is located within the 10-mile radius of a designated Seismic Response Area ("SRA"). OCD has assessed, based on the current information regarding seismic activity and geology, that the use of the proposed injection interval will not contribute to increased seismicity in the SRA.

8. Applicant affirmed in a sworn statement by a qualified person that it examined the available geologic and engineering data and found no evidence of open faults or other hydrologic connections between the approved injection interval and any underground sources of drinking water.

9. Applicant affirmed in a sworn statement by a qualified person that the injection of produced water over the predicted service life of the Well will not increase the potential for an induced seismic event.

10. Applicant is in compliance with 19.15.5.9 NMAC.

11. Applicant agrees to the Terms and Conditions in the attached Permit.

THE DIVISION CONCLUDES THAT:

1. OCD has authority under the Oil and Gas Act, NMSA 1978, §§70-2-1 *et seq.*, and its implementing regulations, 19.15.1 *et seq.* NMAC, and under the federal Safe Drinking Water Act, 42 U.S.C. 300f *et seq.*, and its implementing regulations, 40 CFR 144 *et seq.*, to issue this permit for an UIC Class II injection well. *See* 40 CFR 147.1600.

2. Based on the information and representations provided in the Application, the proposed injection, if conducted in accordance with the Application and the terms and conditions of the attached Permit, (a) will not result in waste of oil and gas; (b) will not adversely affect correlative rights; (c) will protect underground sources of drinking water; and (d) will protect the public health and environment.

3. Applicant is authorized to inject subject to the terms and conditions of the Permit.

IT IS THEREFORE ORDERED THAT:

The Applicant be granted UIC Permit SWD- 2539 for Well Le Mans SWD #1.

Date: 5/3/24

Dylan M. Fuge
DIRECTOR (Acting)

DMF/mgm

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

UIC CLASS II PERMIT SWD- 2539
APPENDIX A – AUTHORIZED INJECTION

Permittee: Tascosa Energy Partners, LLC

OGRID No.: 329748

Well name: Le Mans SWD #1

Surface location: 343 feet from the South line and 340 feet from the East line, Unit P, Section 19, Township 20 S, Range 27 E, NMPM, Eddy County New Mexico. Latitude/ Longitude: 32.552862 N; 104.313012W (NAD 83)

Bottom hole location (if different):

Type of completion: Perforated

Type of injection: Non-Commercial

Injection fluid: Produced Water

Injection interval: Cisco Formation: 8219 Feet to 8669 Feet

Injection interval thickness (feet): 450

Confining layer(s): Overlaying -WolfCamp and Underlying Canyon Formations

Prohibited injection interval(s): any Overlying formations (Wolfcamp and shallower formations) and any underlying formations (Canyon and deeper formations)

Liner, tubing, and packer set: 3.5-inch IPC tubing with Arrowset I-XS Nickel or Stainless steel or its equivalent packer set within 100 feet of the top of the open hole.

Maximum daily injection rate: 30,000 BPD

Maximum surface injection pressure: 1643psi (8219 ft x 0.2 psi/ft)

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

UIC CLASS II PERMIT SWD- 2539

Pursuant to the Oil and Gas Act, NMSA 1978, §§70-2-1 *et seq.*, ("Act") and its implementing regulations, 19.15.1 *et seq.* NMAC, ("Rules") and the federal Safe Drinking Water Act, 42 U.S.C. 300f *et seq.*, and its implementing regulations, 40 CFR 144 *et seq.*, the Oil Conservation Division ("OCD") issues this Permit to Tascosa Energy Partners, LLC ("Permittee") to authorize the construction and operation of a well to inject produced water at the location and under the terms and conditions specified in this Permit and Appendix A.

I. GENERAL CONDITIONS

A. AUTHORIZATION

1. Scope of Permit. This Permit authorizes the injection of produced water into the well described on Appendix A ("Well"). Any injection not specifically authorized by this Permit is prohibited. Permittee shall be the "operator" of the Well as defined in 19.15.2.7(O)(5) NMAC.

a. Injection is limited to the approved injection interval described in Appendix A. Permittee shall not allow the movement of fluid containing any contaminant into an underground source of drinking water ("USDW") if the presence of that contaminant may cause a violation of a Primary Drinking Water Regulation adopted pursuant to 40 CFR Part 142 or that may adversely affect the health of any person. [40 CFR 144.12(a)]

b. The wellhead injection pressure for the Well shall not exceed the value identified in Appendix A.

c. Permittee shall not commence to drill, convert, or recomplete the Well until receiving this approval and until OCD approves a Form C-101 Application for Permit to Drill ("APD") pursuant to 19.15.14 NMAC or receives an approved federal Form 3160-3 APD for the Well. [40 CFR 144.11; 19.15.14.8 and 19.15.26.8 NMAC]

d. Permittee shall not commence injection into the Well until the Permittee complies with the conditions in Section I. C. of this Permit.

e. This Permit authorizes injection of any UIC Class II fluid or oil field waste defined in 19.15.2.7(E)(6) NMAC.

f. This Permit does not authorize injection for an enhanced oil recovery project as defined in 19.15.2.7(E)(2) NMAC.

2. Notice of Commencement. Permittee shall provide written notice on Form C-103 to OCD E-Permitting and notify OCD Engineering Bureau by email of the submittal no later than two (2) business days following the date on which injection commenced into the Well. [19.15.26.12(B) NMAC]

3. Termination. Unless terminated sooner, this Permit shall remain in effect for a term of twenty (20) years beginning on the date of issuance. Permittee may submit an application for a new permit prior to the expiration of this Permit. If Permittee submits an application for a new permit, then the terms and conditions of this Permit shall remain in effect until OCD denies the application or grants a new permit.

a. This Permit shall terminate one (1) year after the date of issuance if Permittee has not commenced injection into the Well, provided, however, that OCD may grant a single extension of no longer than one (1) year for good cause shown. Permittee shall submit a written request for an extension to OCD Engineering Bureau no later than thirty (30) days prior to the deadline for commencing injection.

b. One (1) year after the last date of reported injection into the Well, OCD shall consider the Well abandoned, the authority to inject pursuant to this Permit shall terminate automatically, and Permittee shall plug and abandon the Well as provided in Section I. E. of this Permit. Upon receipt of a written request by the Permittee no later than one year after the last date of reported injection into the Well, OCD may grant an extension for good cause. [19.15.26.12(C) NMAC]

B. DUTIES AND REQUIREMENTS

1. Duty to Comply with Permit. Permittee shall comply with the terms and conditions of this Permit. Any noncompliance with the terms and conditions of this Permit, or of any provision of the Act, Rules or an Order issued by OCD or the Oil Conservation Commission, shall constitute a violation of law and is grounds for an enforcement action, including revocation of this Permit and civil and criminal penalties. Compliance with this Permit does not relieve Permittee of the obligation to comply with any other applicable law, or to exercise due care for the protection of fresh water, public health and safety and the environment. The contents of the Application and Appendix A shall be enforceable terms and conditions of this Permit. [40 CFR 144.51(a); 19.15.5 NMAC]

2. Duty to Halt or Reduce Activity to Avoid Permit Violations. Permittee shall halt or reduce injection to avoid a violation of this Permit or other applicable law. It shall not be a defense in an enforcement action for Permittee to assert that it would have been necessary to halt or reduce injection in order to maintain compliance with this Permit. [40 CFR 144.51(c)]

3. Duty to Mitigate Adverse Effects. Permittee shall take all reasonable steps to minimize, mitigate and correct any waste or effect on correlative rights, public health, or the

environment resulting from noncompliance with the terms and conditions of this Permit. [40 CFR 144.51(d)]

4. Duty to Operate and Maintain Well and Facilities. Permittee shall operate and maintain the Well and associated facilities in compliance with the terms and conditions of this Permit. [40 CFR 144.51(e)]

5. Duty to Provide Information. In addition to any other applicable requirement, Permittee shall provide to OCD by the date and on the terms specified by OCD any information which OCD requests for the purpose of determining whether Permittee is complying with the terms and conditions of this Permit. [40 CFR 144.51(h)]

6. Private Property. This Permit does not convey a property right or authorize an injury to any person or property, an invasion of private rights, or an infringement of state or local law or regulations. [40 CFR 144.51(g)]

7. Inspection and Entry. Permittee shall allow OCD's authorized representative(s) to enter upon the Permittee's premises where the Well is located and where records are kept for the purposes of this Permit at reasonable times and upon the presentation of credentials to:

a. Inspect the Well and associated facilities;

b. Have access to and copy any record required by this Permit;

c. Observe any action, test, practice, sampling, measurement or operation of the Well and associated facilities; and

d. Obtain a sample, measure, and monitor any fluid, material or parameter as necessary to determine compliance with the terms and conditions of this Permit. [40 CFR 144.51(i)]

8. Certification Requirement. Permittee shall sign and certify the truth and accuracy of all reports, records, and documents required by this Permit or requested by OCD. [40 CFR 144.51(k)]

9. Financial Assurance. Permittee shall provide and maintain financial assurance for the Well in the amount specified by OCD until the Well has been plugged and abandoned and the financial assurance has been released by OCD. [40 CFR 144.52; 19.15.8.12 NMAC]

C. PRIOR TO COMMENCING INJECTION

1. Construction Requirements.

a. Permittee shall construct the Well as described in the Application,

Appendix A and as required by the Special Conditions.

b. Permittee shall construct and operate the Well in a manner that ensures the injected fluid enters only the approved injection interval and is not permitted to escape to other formations or onto the surface.

2. Tests and Reports. Permittee shall complete the following actions prior to commencing injection in the Well.

a. Permittee shall obtain and comply with the terms and conditions of an approved APD prior to commencing drilling of the Well, or other OCD approval, as applicable, prior to converting or recompleting the Well. If the APD is approved by the OCD, the Well shall be subject to the construction, testing, and reporting requirements of 19.15.16 NMAC.

b. Permittee shall circulate to surface the cement for the surface and intermediate casings. If cement does not circulate on any casing string, Permittee shall run a cement bond log ("CBL") to determine the top of cement, then notify the OCD Engineering Bureau and the appropriate OCD Inspection Supervisor and submit the CBL prior to continuing with any further cementing on the Well. If the cement did not tie back into next higher casing shoe, Permittee shall perform remedial cement action to bring the cement to a minimum of two hundred (200) feet above the next higher casing shoe.

c. If a liner is approved for the construction of the Well, Permittee shall run and submit to OCD E-Permitting and notify the OCD Engineering Bureau by email, a CBL for the liner to demonstrate placement cement and the cement bond with the tie-in for the casing string.

d. Permittee shall submit the mudlog, geophysical logs, and a summary of depths (picks) for the contacts of the formations demonstrating that only the permitted formation is open for injection. OCD may amend this Permit to specify the depth of the approved injection interval within the stratigraphic interval requested in the application. If Permittee detects a hydrocarbon show during the drilling of the Well, it shall notify OCD Engineering Bureau by email and obtain written approval prior to commencing injection into the Well.

e. Permittee shall obtain and submit on a Form C-103 a calculated or measured static bottom-hole pressure measurement representative of the completion in the approved injection interval.

f. Permittee shall conduct an initial mechanical integrity test ("MIT") on the Well in compliance with the terms and conditions of this Permit and 19.15.26 NMAC, and shall not commence injection into the Well until the results of the initial MIT have been approved by the appropriate OCD Inspection Supervisor. [19.15.26.11(A) NMAC]

g. OCD retains authority to require a wireline verification of the completion and packer setting depths in this Well. [19.15.26.11(A) NMAC]

D. OPERATION

1. Operation and Maintenance.

a. Permittee shall equip, operate, monitor and maintain the Well to facilitate periodic testing, assure mechanical integrity, and prevent significant leaks in the tubular goods and packing materials used and significant fluid movements through vertical channels adjacent to the well bore. [19.15.26.10(A) NMAC]

b. Permittee shall operate and maintain the Well and associated facilities in a manner that confines the injected fluid to the approved injection interval and prevents surface damage and pollution by leaks, breaks and spills. [19.15.26.10(B) NMAC]

c. OCD may authorize an increase in the maximum surface injection pressure upon a showing by the Permittee that such higher pressure will not result in the migration of the disposed fluid from the approved injection interval or induced seismicity. Such proper showing shall be demonstrated by sufficient evidence, including an acceptable step-rate test.

d. If OCD has reason to believe that operation of the Well may have caused or determined to be contributing to seismic activity, Permittee shall, upon OCD's written request:

i. Take immediate corrective action, which could include testing and evaluating of the injection interval and confining layers; suspending or reducing of the rate of injection or maximum surface injection pressure, or both; and providing increased monitoring of the Well's operation; and

ii. Submit a remedial work plan or an application to modify the Permit to implement the corrective action, plug back the injection interval, or incorporate another modification required by OCD.

OCD may approve the remedial work plan, modify the Permit or issue an emergency order or temporary cessation order as it deems necessary.

2. Pressure Limiting Device.

a. The Well shall be equipped with a pressure limiting device, which is in workable condition and can be tested for proper calibration at the well site,

that shall limit surface tubing pressure to the maximum surface injection pressure specified in Appendix A.

b. Permittee shall test the pressure limiting device and all gauges and other metering requirement to ensure their accuracy and proper function no less than every five (5) years.

3. Mechanical Integrity. Permittee shall conduct a MIT prior to commencing injection, at least every five (5) years after the date of the previous MIT, and whenever the tubing is removed or replaced, the packer is reset, mechanical integrity is lost, Permittee proposes to transfer the Well, or requested by OCD.

a. MITs shall be conducted in accordance with 19.15.26 NMAC.

b. Permittee shall submit a sundry notice on Form C-103 of intent to install or replace injection equipment or conduct a MIT no later than three (3) business days prior to the event.

c. Permittee shall report the result of a MIT no later than two (2) business days after the test.

d. Permittee shall cease injection and shut-in the Well no later than twenty-four (24) hours after discovery if:

i. The Well fails a MIT; or

ii. Permittee observes conditions at the Well that indicate the mechanical failure of tubing, casing, or packer.

e. Permittee shall take all necessary actions to address the effects resulting from the loss of mechanical integrity in accordance with 19.15.26.10 NMAC.

f. Permittee shall conduct a successful MIT pursuant to 19.15.26.11 NMAC, including written approval from OCD prior to recommencing injection and the requirements contained in Section I G.3.

4. Additional Tests. Permittee shall conduct any additional test requested by OCD, including but not limited to step-rate tests, tracer surveys, injection surveys, noise logs, temperature logs, and casing integrity logs [19.15.26.11(A)(3) NMAC]

5. Records.

a. Permittee shall retain a copy of each record required by this Permit for a period of at least five (5) years and shall furnish a copy to OCD upon request. [40 CFR 144.51(h)]

b. Permittee shall retain a record of each test, sample, measurement, and certification of accuracy and function collected for the Well, including:

i. Date, location, and time of sample, measurement or calibration;

ii. Person who conducted the sample event, -measurement or calibration;

iii. Calibration of gauge or other equipment in accordance with the manufacturer's specifications;

iv. Description of method and procedures;

v. Description of handling and custody procedures; and

vi. Result of the analysis.

E. PLUGGING AND ABANDONMENT

1. Upon the termination of this Permit, Permittee shall plug and abandon the Well and restore and remediate the location in accordance with 19.15.25 NMAC.

2. If Permittee has received an extension pursuant to Section I. A. 3. b., Permittee shall apply for approved temporary abandonment pursuant to 19.15.25 NMAC.

3. If this Permit expires pursuant to 19.15.26.12 NMAC and OCD has not issued a new permit, then Permittee shall plug and abandon the Well and restore and remediate the location in accordance with 19.15.25 NMAC.

4. Permittee's temporary abandonment of the Well shall not toll the abandonment of injection in accordance with 19.15.26.12(C) NMAC.

F. REPORTING

1. Monthly Reports. Permittee shall submit a report using Form C-115 using the OCD's web-based online application on or before the 15th day of the second month following the month of injection, or if such day falls on a weekend or holiday, the first workday following the 15th, with the number of days of operation, injection volume, and injection pressure. [19.15.26.13 NMAC; 19.15.7.24 NMAC]

2. Corrections. Permittee shall promptly disclose to OCD any incorrect information in the Application or any record required by this Permit and submit corrected information. [40 CFR 144.51(h)(8)]

G. CORRECTIVE ACTION

1. Releases. Permittee shall report any unauthorized release of injection fluid at the Well or associated facilities in accordance with 19.15.29 and 19.15.30 NMAC.

2. Failures and Noncompliance. Permittee shall report the following incidents to appropriate OCD Inspection Supervisor and OCD Engineering Bureau verbally and by e-mail no later than 24 hours after such incident:

a. Any mechanical integrity failures identified in Section I. D. 3. d;

b. The migration of injection fluid from the injection interval [19.15.26.10 NMAC]; or

c. A malfunction of the Well or associated facilities that may cause waste or affect the public health or environment, including: (a) monitoring or other information which indicates that a contaminant may affect a USDW; or (b) noncompliance or malfunction which may cause the migration of injection fluid into or between USDWs. [40 CFR 144.51(l)(6)]

3. Corrective Action. Permittee shall submit a written report describing the incident in Sections I.G.1 or I.G.2, including a corrective active plan, no later than five (5) calendar days after discovery of the incident. [40 CFR 144.51(l)(6)] For an unauthorized release, Permittee also shall comply with the site assessment, characterization and remediation requirements of 19.15.29 and 19.15.30 NMAC.

4. Restriction or Shut-In. OCD may restrict the injected volume and pressure or shut-in the Well if OCD determines that the Well has failed or may fail to confine the injected fluid to the approved injection interval or has caused induced seismicity until OCD determines that Permittee has identified and corrected the failure. [19.15.26.10(E) NMAC]

H. PERMIT CHANGES

1. Transfer. This Permit shall not be transferred without the prior written approval of OCD. Permittee shall file Form C-145 for a proposed transfer of the Well. OCD may require, as a condition of approving the transfer, that this Permit be amended to ensure compliance and consistency with applicable law. If the Well has not been spud prior to the transfer, the OCD may require that the new operator reapply and submit to the OCD a new Form C-108 prior to constructing and injecting into the well. [19.15.26.15 NMAC; 19.15.9.9 NMAC]

2. Insolvency. Permittee shall notify OCD Engineering Bureau of the commencement of a voluntary or involuntary proceeding in bankruptcy which names Permittee or an entity which operates the Well on behalf of Permittee as a debtor no later than ten (10) business days after the commencement of the proceeding.

3. OCD Authority to Modify Permit and Issue Orders

a. The OCD may amend, suspend, or revoke this Permit after notice and an opportunity for hearing if it determines that:

i. The Permit contains a material mistake;

ii. Permittee made an incorrect statement on which OCD relied to establish a term or condition of the Permit or grant this Permit;

iii. this Permit must be amended to ensure compliance and consistency with applicable law, including a change to the financial assurance requirements;

iv. The Well's operation may affect the water quality of fresh water;

v. Injected fluid is escaping from the approved injection interval;

vi. Injection may be caused or contributed to seismic activity: or

vii. Injection may cause or contribute to the waste of oil, gas or potash resources or affect correlative rights, public health, or the environment.

b. OCD retains jurisdiction to enter such orders as it deems necessary to prevent waste and to protect correlative rights, protect public health, and the environment.

c. OCD retains jurisdiction to review this Permit as necessary and no less than once every five (5) years, and may determine whether this Permit should be modified, revoked and reissued, or terminated. [40 CFR 144.36(a)]

4. Permittee Request to Modify Permit. Permittee may apply to modify the terms of this Permit.

a. **Minor Modifications**. OCD may make a minor modification to this Permit without notice and an opportunity for hearing for:

i. Non-substantive changes such as correction of typographical errors;

ii. Requirements for more frequent monitoring or reporting;

iii. Changes to the Well construction requirements provided that any alteration shall comply with the conditions of the Permit and does not change the Area of Review considered in the application for the Permit;

iv. Amendments to the plugging and abandonment plan;

v. Changes in the types of fluids injected which are consistent with sources listed in the application for the Permit and do not change the classification of the Well;

vi. Corrections of the actual injection interval if within the approved formation; or

vii. Transfer of a Permit for a Well that has been spud. [40 CFR 144.41]

b. **Major Modifications.** OCD shall require notice and an opportunity for hearing for any modification that is not minor. For such modifications, Permittee shall submit Form C-108 and comply with the notice requirements of 19.15.26 NMAC.

II. SPECIAL CONDITIONS

1. Swab test is required for hydrocarbon potential.
2. Conduct CBL on surface and intermediate strings.
3. The well shall be completed with perforation of casing on the injection interval.

III. ATTACHMENT

Well Completion Diagram as Provided in the Application

Side 1

INJECTION WELL DATA SHEET

OPERATOR: TASCOSA ENERGY PARTNERS, LLC

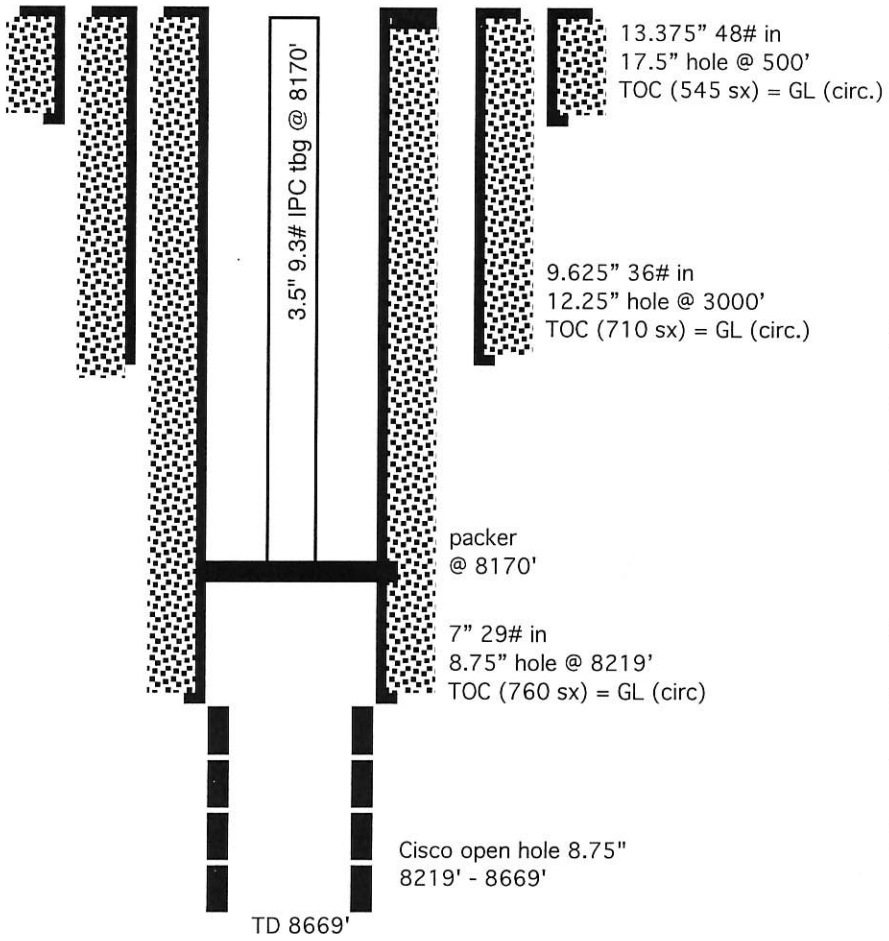
WELL NAME & NUMBER: LE MANS SWD 1

WELL LOCATION:	343' FSL & 340' FEL	P	19	20 S	27 E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

"PROPOSED"

(not to scale)



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.5" Casing Size: 13.375"

Cemented with: 545 sx. *or* _____ ft³

Top of Cement: GL Method Determined: CIRC.

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"

Cemented with: 710 sx. *or* _____ ft³

Top of Cement: GL Method Determined: CIRC.

Production Casing

Hole Size: 8.75" Casing Size: 7"

Cemented with: 760 sx. *or* _____ ft³

Top of Cement: GL Method Determined: CIRC.

Total Depth: CSG TD = 8219' & WELL TD = 8669'

Injection Interval

8219 feet to 8669'

(Perforated or Open Hole; indicate which)

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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	Pool Code	Pool Name
30-015-55175	98390	Le Mans SWD; Cisco

Property Code	Property Name	Well Number
335974	LE MANS SWD #1	#1

OGRID No.	Operator Name	Elevation
329748	TASCOSA ENERGY PARTNERS, LLC	3231'

Surface Location

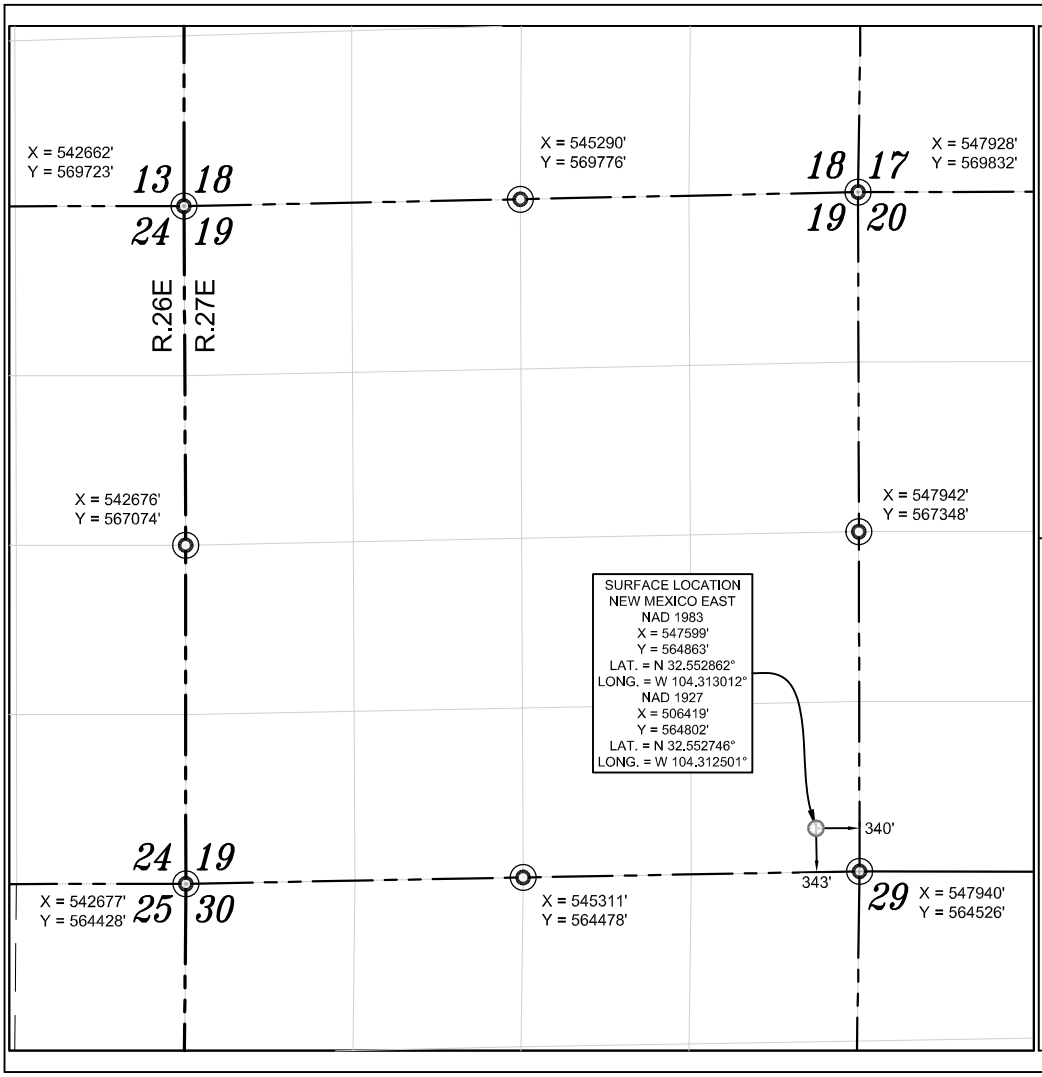
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	19	20 S	27 E		343	SOUTH	340	EAST	EDDY

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

Dedicated Acres	Joint or Infill	Consolidation Code	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.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Alyssa McNear 5/15/24
Signature Date

Alyssa McNear
Printed Name

adavanzo@tascosaep.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

February 24, 2023
Date of Survey

Signature and Seal of Professional Surveyor:

Job No.: 23-01-2786
MATTHEW B. TOMERLIN, N.M.P.L.S.
Certificate Number 23203

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Tascosa Energy Partners, LLC **OGRID:** 329748 **Date:** 5/15/2024

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Le Mans SWD #1		P-19-20S-27E	343FSL, 234 FEL	0.0	0.0	30,000 BWIPD (inj)

IV. Central Delivery Point Name: Tascosa 18 [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
Le Mans SWD #1		7/1/2024	7/15/2024	8/1/2024	8/2/2024	8/9/2024

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

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.

Signature:	Alyssa McNear
Printed Name:	Alyssa McNear
Title:	Engineering Manager
E-mail Address:	adavanzo@tascosaep.com
Date:	5/15/2024
Phone:	720-244-4417

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Le Mans SWD #1 – Natural Gas Management Plan

VI. Separation Equipment:

Tascosa has sized a separator and a heater treater 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 sale line.

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 and automation will be installed on all tanks to eliminate gas releases due to gauging through thief hatches. A VRU and VRT will also be installed to capture tank vapors and reduce waste.
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 minimize venting during downhole operations.

TASCOSA ENERGY PARTNERS (329748)

LE MANS SWD 1
Avalon Bone Springs, North
Eddy County, New Mexico
Drilling Procedure
Oct 1, 2022

General Information

Lease:	Le Mans SWD	AFE BCP:	$
Well No.:	1	AFE ACP:	$
Field:	Avalon; Bone Springs	AFE Total:	$
County:	Eddy	API No.:	30-015-XXXX
State:	New Mexico		
Section:	19	Permit Date:	
Township:	20S	Permit TD:	
Range:	27E	Proposed TD:	
Section Ties:	660'FSL & 800'FWL		
Ground Level:	3288.7'	KB:	27'
Latitude	N 32.5535258	Longitude	W 104.3263921

Well Objectives

The primary objective is to top set 7" casing and drill out open hole thru the Cisco formation.

Directions To Wells

Northwest of Carlsbad on 285 toward Artesia for 6.58 mi. / Rt on Capitan Reef Rd. for 4.5 mi. / Rt 0.4 mi /Rt 0.7 mi / Lft 0.8 mi to location

Special Drilling Considerations

1. No hunting for game is permitted. No firearms are to be taken to the location. Keep trash picked up on location and road.
2. Do not run hard-banded or hard-faced drill pipe in casing.
3. Cement must be circulated on surface and intermediate. If cement does not circulate, run a temperature survey and Operations Engineer for remedial instructions.
4. BOP equipment will be NU on the 13-3/8" surface casing. All safety and well control equipment should be rigged up and operational prior to drilling out the 13-3/8" casing shoe.
5. RU H_2S equipment by 7000'.

TASCOSA ENERGY PARTNERS (329748)

Tascosa Energy Partners Contact List			
Engineering Manager	Alyssa McNear (onsite Engineer)	Cell:	720 244 4417
Operations	Jeff Birkelbach	Cell:	432 553 0391
Production Superintendent	Brian Kirkland	Mobile:	432 770 2325
President	Kevin Herrmann	Office: Mobile:	432-695-6970 432 254-9106
Geologist (project Mgr & Geo Steer Mgr)	Helder Alvarez	Cell:	405 594 6367
Geologist II (2nd Call)	Bill Hardie	Mobile: Home:	432-553-0259 432-689-0325
Land Person	Kelly Hardy	Mobile:	469-371-5311
V.P. Acquisitions-Engineering	David Beathard	Mobile:	713-705-5222
Controller	Laci Ritchey	Office: Mobile:	432-695-6970 432 270-8400
Accounting-MSA-Etc	Cynthia Duarte	Office: Cell:	432 695 6970 432 661 0155

TASCOSA ENERGY PARTNERS (329748)

Vendor Contact List

Service	Vendor	Telephone Number		Contact / Location
Drilling Rig Contractor -	Manager	Cell:		
	Superintendent	Cell:		
	Superintendent	Cell:		
Bits	Baker Hughes	Cell:	575 390 6228	James Johnson
Bits	Halliburton	Cell:	214-770-3055	Peter Moreno
Bits	Ulterra	Cell:	575 361 0647	Gavin Hess
Casing (13-3/8; 9-5/8; 5-1/2)	B&L	Cell:	806-786 5785	Taylor Potts
		Cell:	432 770 7863	Kim Fotis
Cementing Surface & Intermediate	Par-Five	Artesia	575 748 8610	On duty dispatcher
		Cell	575 703 6723	Chris de Leon – sales
Cementing Production 5-1/2	Halliburton	Hobbs	800-417-6081	On duty dispatcher
Directional Drilling	Phoenix	Office:		Steve Johnson “Sales”
		Cell:		
	Phoenix	Cell:	281 543 7642	Lee Scholl “Coordinator”
	Phoenix	Cell	832 506 7731	Tyler Carlson “Well Planner”
Mud	NewPark	Cell:	575 390 7900	Doug Pope (Field Mgr)
		Cell:	432 557 8254	Mike Davis (Eng Mgr)
Mud Logging	Suttles	Office:	432 687 3148	Kenneth Putnam (Ops mgr)
			800 533 8334	Brent Terry (Ops)
				Jessica Rusch (Ops)
Well Head	FMC	Office:	432 582 5209	24 Hr Number
		Cell:	432 425 2086	Keith McGill
Regulatory	NMOCD	Emrgcy:	575-626-0830	Artesia Gilbert Cordero
	NMOCD		575 748 1283	Artesia Office
Vacuum Truck	M&R Trucking	Cell:	575-513-8905	Carlsbad-Dustin Bramwell
	A&RJ Oilfield Services	Cell:	580 478 4660	Casey
Casing Service_L/D & P/U & Crew	Nabors	Cell:	817 964 0539	Dispatcher Robert Lavender
		Cell:	432 363 8180	Field Supervisor_Larry
	Byrd	Cell:	575 392 7636	Jerid
	Butches (Express)	Cell:	432 967 7833	Cody Anderson (Sales)
		Office:	432 618 1103	
	Franks International	Office:	432 202 8318	Ross Bernal (Ext 4248)
		Cell:	985 226 3922	Ross Bernal
Float Equipment + Centralizers 13-3/8” & 9-5/8”	Innovex	Office:	979 431 5880	
		Cell:	432 528 1109	Bill Shifflett
Fuel	Sun Coast	Cell:	281-799-2781	Shelby Hughes
Onsite Trash Trailer_Porta Potties, Frac Tanks	Energy Pro’s	Cell:	575 361 3921	Bryan Prouty

TASCOSA ENERGY PARTNERS (329748)

Closed Loop System	Drill Cuttings Disposal Co	Office: Cell:	337-988-5181 337-739-5181	Jeff Reddoch Chris Canty
Wellhead	Well Head Specialties Co	Office: Cell	432 530 2448 432 530 4476	Brad Hulsey
Rental Pipe (Hvy Wgt), etc	McVickers Rentals	Cell:	580 334 8964	Pat McVickers
Welder (Starting Head) etc	Energy Pros	Office:	575 361 3921	Bryan Prouty
ASI	H2S Safety Monitoring	Cell:	575 513 9396	Chester Miller
Fluid Caliper	Ellison Fluid Caliper	Office: Cell: Cell:	432 634 0500 432 638 2531 469 767 0407	 Tom Elrod Jason Ellison
Open Hole Logging	Allied Wireline-Logging	Office: Cell: Cell:	432 897 1528 432 312 7977 Ri	Trek Lewis Trek Lewis
1" Top Job Equipment	Wilbanks	Cell	575 703 0618	Danny

Emergency Contact List- Call 911 for all emergency Services			
Service	**Vendor**	**Telephone Number**	**Contact / Location**
Sherriff Fire EMS		Office 575 887 7551 Office 575 885 3125 Emrgcy: 911	Carlsbad Carlsbad Carlsbad
Air Terminal	Cavern City Air Terminal	Office: 575 887 3060	Carlsbad
Carlsbad Medical Center	Hospital	Office: 575 887 4100	Carlsbad
State Police		Office: 575 885 3137	Carlsbad

Conductor & Surface Interval (500')

20" conductor will be set by Integrity Services – cut conductor 51" below GL and weld on landing ring
Drill 17 ½" hole to +450' (fit csg tally) PLUS 20 FT, run 450' 13 3/8" 48# H40 STC casing – contact FMC to land and install Unihead Cement with Par Five Services via recommendation

DRILLING FLUID

Interval	Density	FV	PV	YP	FL	pH	Max. % Solids	Remarks
80' - 500'	8.4 – 8.8	28 - 29	0 - 1	0 - 1	NC	9-10		

- Drill out from under surface with fresh water as per New Park recommendation.
- If returns are lost, pull reamers and/or stabilizers out of the hole and dry drill to TD using gel sweeps to clean hole.
- Do not pump LCM sweeps needlessly if not warranted.

CASING

Casing Design

Size	Interval	Length	Wt./ft.	Grade	Connection
13 3/8"	80' - 500'	500'	48	H40	STC

Casing Strengths / Make-up Torques / Dimensions

	Casing Ratings				Make-Up Torques			Dimensions		
	PSI		Tensile							
Casing	Burst	Collapse	Tube	Conn	Min	Opt	Max	ID	Drift	Cplng OD
13 3/8" 48# H40 STC	1730	770	541	322	3400	4032	5660	12.715"	12.559"	14.375"

Casing Accessories

Run a float shoe, 1 jt csg, float collar and balance of casing. Dope both pin and box with lead-free Best-of-Life 2000 or equivalent. Baker-Lok float collar and float shoe. Run centralizers as follows: 10' above shoe, on 1st collar and every third collar to surface.

CEMENTING PROGRAM

Cement:

545 sx C + 2% Ca + .125 cellophane / 14,8# / 1.34 yield

Cementing Procedure

For all cementing operations the drilling supervisor is responsible for coordinating with the service company the required cement tests using samples from the actual mix water source. Actual thickening times, free water, fluid loss and compressive strengths should be obtained well in advance of pumping cement.

Utilize one cement truck with a re-circulating mixer and pressurized mud scales to verify cement density.

a. Test cementing equipment and lines to 2,000 psi prior to cementing.
b. Precede cement with 50 bbls of fresh water. Mix cement at a rate that allows for a consistent slurry density of ± 0.1 ppg. Pump cement and displace at 6-8 bpm.
c. Drop wiper plug and displace cement. Do not over displace. Bump plug with 150 - 650 psi. (Record maximum pressure immediately prior to bumping plug, and increase pressure at least 500 psi above.) Release pressure & check float. If float fails, maintain pressure on the casing for 4 hours. Do not exceed MASP's show above.
d. If cement fails to circulate, 1" to surface
e. WOC 12 hours prior to pressure testing casing and drilling out.

WELLHEAD

Multi-bowl wellhead equipment from the FMC will be utilized. The drilling supervisor is responsible for verifying all wellhead dimensions and space-out.

CASING AND BOP PRESSURE TEST

Install FMC coupling nut bottom to 13 5/8" adapter to 13 3/8" BOP. RU and test BOP equipment (SA) 13-5/8" 3M annular prior to drill out. Record all tests on chart and note on daily report. Prior to drilling out, pressure test the casing and BOP equipment as follows:

ITEM	Hi TEST	Low	DURATION	REMARKS
Annular	1350	250	5 Min	"
Flowlines & valves	3000	250	5 Min	Test each component
Choke Manifold	3000	250	5 Min	"
Casing	1350		30 Min	~80% burst

Intermediate Interval (500' – 3000')

OBJECTIVE

The objective of this interval is to drill to 12-1/4" hole to the base of the Brushy Canyon. Drill to fit casing tally PLUS 20 FT of rat hole to accomidate landing casing in multibowl head. Cement must be circulated on this string, and H_2S equipment is not required for this interval. There have been loss circulation problems in this interval in the surrounding area.

DRILLING FLUID

Interval	Density	FV	PV	YP	FL	pH	Max. % Solids	Remarks
450' - 3000'	8.4 –8.6	28 - 29	0 - 1	0 - 1	NC	9-10		

- Drill out from under surface with fresh water as per New Park recommendation.
- If returns are lost, pull reamers and/or stabilizers out of the hole and dry drill to TD using gel sweeps to clean hole.
- Do not pump LCM sweeps needlessly if not warranted.

BOTTOMHOLE ASSEMBLY & DRILLSTRING

12-1/4" bit on directional equipment. Run sufficient drill collars to allow 70M# effective weight.

CASING

Casing Design

Size	Interval	Length	Wt./ft.	Grade	Connection	Section Weight	Design Factors Collapse	Burst	Tension
9-5/8"	0' - 3000'	3000'	36	J55	LTC	120.0	2.57	3.52	4.53

Casing Strengths / Make-up Torques / Dimensions

	Casing Ratings PSI		Tensile		Make-Up Torques			Dimensions		
Casing	Burst	Collapse	Tube	Conn	Min	Opt	Max	ID	Drift	Cplng OD
9-5/8" 36# J55 LTC	3520	2020	564	453	3400	4032	5660	8.921"	8.765"	10.625"

Casing Accessories

Run a float shoe, 1 jt csg, float collar and balance of casing. Dope both pin and box with lead-free Best-of-Life 2000 or equivalent. Baker-Lok float collar and float shoe. Run centralizers as follows: 10' above shoe, on 1st collar and every third collar to surface.

CEMENTING PROGRAM

Cement:

Lead: 510 sx 35/65 Poz C + 5% NaCl + 5% strength enhancer + 4% bentonite + 1% chemical extender + 3 pps Kol-seal + defoamer + .125 cellophane
12.5# / 2.19 yield / 11.825 H2O

Tail: 200 sx C
14.8# / 1.32 yield

Cementing Procedure

For all cementing operations the drilling supervisor is responsible for coordinating with the service company the required cement tests using samples from the actual mix water source. Actual thickening times, free water, fluid loss and compressive strengths should be obtained well in advance of pumping cement. Utilize one cement truck with a re-circulating mixer and pressurized mud scales to verify cement density.

a. Test cementing equipment and lines to 2,500 psi prior to cementing.
b. Precede cement with 50 bbls of fresh water. Mix cement at a rate that allows for a consistent slurry density of ± 0.1 ppg. Pump cement and displace at 6-8 bpm.
c. Drop wiper plug and displace cement with fresh water. Do not over displace. Bump plug with 800 - 1300 psi. (Record maximum pressure immediately prior to bumping plug, and increase pressure at least 500 psi above.) Release pressure & check floats. If floats fail, maintain pressure on the casing for 4 hours. Do not exceed MASP's show above.
d. WOC 12 hours prior to pressure testing csg and drilling out.

CASING AND BOP PRESSURE TEST

BOP test not necessary with multi-bowl well head and BOP is not nippled down

Casing	2675 psi	30 Min	76% csg burst

Production Interval (3000' – +/-8200')

OBJECTIVE

The objective is to drill a 8 3/4" hole to +/- 8,200'. RU H_2S equipment by 7000' prior to penetrating the Bone Springs. Casing will be set at the base of the Wolfcamp. Cement must be brought up at least 200' into the intermediate casing.

FORMATION TOPS

Formation	Depth	Remarks
San Andres	1869'	
1st Bone Spring sand	5447'	
2nd Bone Spring sand	6222'	
3rd Bone Spring sand	7424'	
Wolfcamp	7943'	
Penn (Cisco)	8212'	

DRILLING FLUID

Interval	Density	FV	PV	YP	FL	pH	Max. % Solids	Remarks
3000' - 7000'	8.7 – 9.2	29 - 30	1 - 2	1 - 2	NC	9 - 10	6	Fresh water to FW/cut brine
7000' - TD'	8.7 – 9.2	36 -40	2 - 3	2 - 4		9 - 10	6	

- Drill out floats, cement, and shoe with conventual directional tools and WBM

BITS

					Estimated				Recommended		
Bit #	Bit Size	Bit Type	Mfg	IADC	Depth in	Ftg	Hrs	ROP	WOB	RPM	Remarks
3	8.75"	SPL616	Ulterra	M223	3000			125	40	20-40	PDC

BOTTOMHOLE ASSEMBLY & DRILLSTRING

Vertical - 8-3/4" PDC bit, 7-1/4" (1.75°) motor, 8-1/4" IBS, UBHO Sub, (1) 15' NM pony, (1) 6-3/4" NMDC, (1) 8-1/4" IBS, (12) 6-1/2" Rig DC's, XO, (24) Rig HWDP, Jars, (5) jts Rig HWDP, 5" Rig DP to surface.

CASING DESIGN

Size	Interval	Length	Wt./ft.	Grade	Connection
7”	0’ - TD’	+/- 8200’	29	N80	LTC

Casing Strengths / Make-up Torques / Dimensions

	Casing Ratings									
	PSI		Tensile		Make-Up Torques			Dimensions		
Casing	Burst	Collapse	Tube	Conn	Min	Opt	Max	ID	Drift	Cplng OD
7” 29# N80 LTC	8.16	7.02	676	597	4480	5970	7460	6.184”	6.059”	7.656”
					3980	**5315**	**6640**	**Adj for F_f = 0.89**		

Casing Accessories

Run Flt shoe, 1 jt with stop ring & centralizer, Flt collar, 1 centralizer every third joint

CEMENTING PROGRAM

Slurry Design Criteria

Previous casing string..... 9-5/8” 36# J55 LTC @ 3000’
Casing size, weight and grade ..... 7” 29# N80
Depth ..... +/- 8200’
Bit Size..... 8 3/4”
BHST ..... 144 F
BHCT ..... 116 F

Land 7” in multi-bowl head with landing joint.

Cement

Lead: 350 sx 50/50 Poz C + 10% bentonite + 5% NaCl + 5% chemical extender + .2% antisetting + .1% Retarder + 3 pps Kol-seal + defoamer + .125 pps cellophane
11.4# / 2.94 yield / 17.761 H2O

Tail: 400 sx H + .5% fluidloss + .2% retarder
15.6 # / 1.18 yield / 5.206 H2O

Cementing Procedure

For all cementing operations the drilling supervisor is responsible for coordinating with the service company the required cement tests using samples from the actual mix water source. Actual thickening times, free water, fluid loss and compressive strengths should be obtained well in advance of pumping cement.

a. Test lines to 3000 psi for 5 minutes, prior to cementing.
b. Establish circulation and pump at least 400 bbls prior to cementing. Record the buoyed string weight and fluid density on the daily drilling report.
c. Pump spacer & preflush
d. Mix cement at a rate that allows for a consistent slurry density of ±0.1 ppg.

e. After pumping cement, WASH UP CMT LINES ON RIG FLOOR, PUMP SPACER, drop plug and displace with FW at 5-6 BPM. Reduce rate to 2 BPM 10 bbl prior to calculated displacement. Bump plug with 2000 - 2500 psi. (Record maximum pressure immediately prior to bumping plug and increase pressure at least 500 psi above.) Hold pressure for 5 minutes and release to check floats. Record the final string weight with cement in place and the volume of cement circulated on the daily drilling report.
f. RDMO cement company.

WOC 12 hours

CASING AND BOP PRESSURE TEST

BOP test not necessary with multi-bowl well head and BOP is not nippled down

Casing	3000 psi	30 Min	37% csg burst

Drill out 6 1/8" float collar, casing, and float shoe. Continue to drill formation through the Cisco or until 100% loss returns are experienced,

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Jeff Birkelbach 1-October 2022

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 344601

CONDITIONS

Operator: Tascosa Energy Partners, L.L.C 901 W. Missouri Ave Midland, TX 79701	OGRID: 329748
	Action Number: 344601
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	6/17/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/17/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	6/17/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	6/17/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	6/17/2024
ward.rikala	Water injection can not commence until MIT is performed and approved by UIC.	6/17/2024