

**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**

Form C-101

August 1, 2011

Permit 343185

**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 30-015-53950
4. Property Code 334296	5. Property Name CHIEFTAIN 18 STATE COM	6. Well No. 601H

**7. Surface Location**

UL - Lot D	Section 18	Township 21S	Range 26E	Lot Idn 1	Feet From 1189	N/S Line N	Feet From 257	E/W Line W	County Eddy
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**8. Proposed Bottom Hole Location**

UL - Lot A	Section 18	Township 21S	Range 26E	Lot Idn A	Feet From 400	N/S Line N	Feet From 100	E/W Line E	County Eddy
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**9. Pool Information**

AVALON; BONE SPRING	96381
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**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3275
16. Multiple N	17. Proposed Depth 12906	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 1/1/2024
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	500	550	0
Int1	12.25	9.625	36	2200	544	0
Prod	8.5	5.5	17	12906	2239	0

**Casing/Cement Program: Additional Comments**

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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	CTI
Blind	5000	5000	CTI
Pipe	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: 6/29/2023

Phone: 432-695-6970

**OIL CONSERVATION DIVISION**

Approved By: Ward Rikala

Title:

Approved Date: 7/6/2023

Expiration Date: 7/6/2025

Conditions of Approval Attached

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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 <b>30-015- 53950</b>	Pool Code 96381	Pool Name AVALON;BONE SPRING
Property Code <b>334296</b>	Property Name CHIEFTAIN 18 STATE COM	Well Number #601H
OGRID No. 329748	Operator Name TASCOSA ENERGY PARTNERS, LLC	Elevation 3275'

## Surface Location

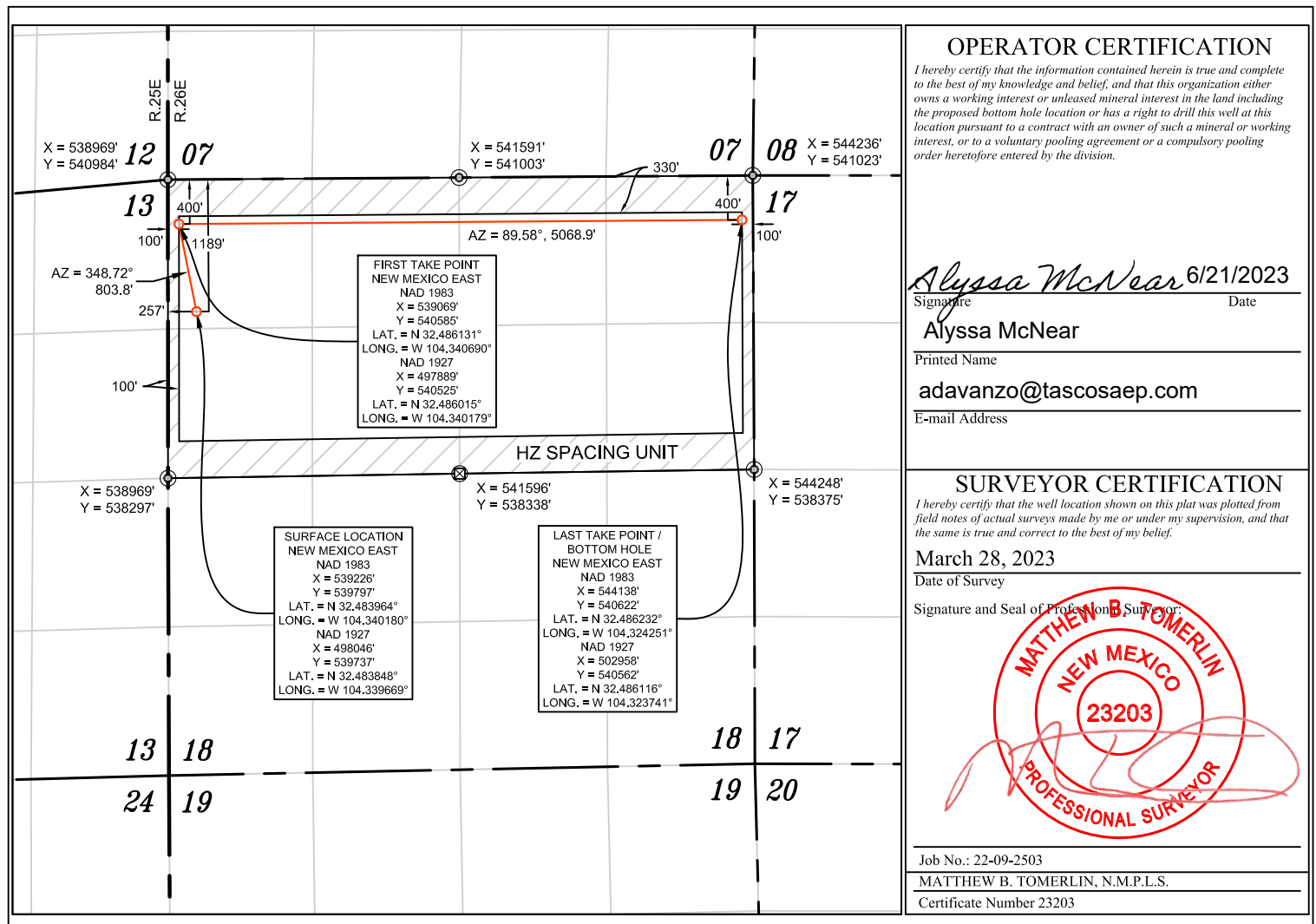
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 1	18	21 S	26 E		1189	NORTH	257	WEST	EDDY

## 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	18	21 S	26 E		400	NORTH	100	EAST	EDDY

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.



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

Form APD Conditions

Permit 343185

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: Tascosa Energy Partners, L.L.C [329748] 901 W. Missouri Ave Midland, TX 79701	API Number: 30-015-53950
	Well: CHIEFTAIN 18 STATE COM #601H

OCD Reviewer	Condition
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
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
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
ward.rikala	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

Well name:

**Chieftain 18 State #601H**Operator: **Tascosa Energy Partners, LLC**String type: **Surface Casing (500)**Location: **Eddy County, New Mexico. 1,189 FNL & 257 FWL, Sec 18, T21S, R26E**BHL Planned: **400 FNL & 100 FEL, Sec 18, T21S, R26E****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**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.**

Tension is based on buoyed wgt.

Neutral pt: 453.00 ft

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: 02/23/23

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:

**Chieftain 18 State #601H**Operator: **Tascosa Energy Partners, LLC**String type: **Intermediate Casing (2,200)**Location: **Eddy County, New Mexico. 1,189 FNL & 257 FWL, Sec 18, T21S, R26E**BHL Planned: **400 FNL & 100 FEL, Sec 18, T21S, R26E****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: 823.00 psiInternal gradient: 0.12 psi/ft  
Calculated BHP 1,087.00 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.

(J)

(J)

(J)

(J)

(B)

**Re subsequent strings:**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	2200	9.625	36	J-55	LT&C	2199	2200	8.796	8.921	165
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	1086	2020	1.86	823	3520	4.27	79.2	453	5.7 J	

Prepared  
by: Richard WrightPhone: (432) 695 6970  
FAX: (432) 695 6973Date: 02/23/23  
Midland, Texas

## Remarks:

Collapse is based on a vertical depth of 2,200 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:

**Chieftain 18 State #601H**Operator: **Tascosa Energy Partners, LLC**String type: **Production Casing (± 12,900 ft MD) "FRAC"**Location: **Eddy County, New Mexico. 1,189 FNL & 257 FWL, Sec 18, T21S, R26E**BHL Planned **400 FNL & 100 FEL, Sec 18, T21S, R26E****Design parameters:****Collapse**

Mud weight:

Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

8.70 ppg

DF 1.125

**Burst:**

DF 1.12

**Environment:**

H2S considered?

No

Surface temperature:

75.00 °F

Bottom hole temp:

139 °F

Temperature gradient:

0.80 °F/100ft

Minimum section lgth:

1,500 ft

Minimum Drift:

4.653 in

Cement top:

Surface ft

**Burst**

Max anticipated surface

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

Internal gradient: 0.434 psi/ft

Calculated BHP 13,484.00 psi

backup mud specified. 0.452 psi/ft

Net Injection Pressure Surface 10,000.00 psi

Net Injection Pressure TVD 5,218.00 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 &amp; Hold

KOP #1 ± 2,000 ft

KOP #2 ± 7,453 ft

Departure at shoe: 4,985 ft

Maximum dogleg: 10 °/100ft

Inclination at shoe: 88.8 °

Tension is based on buoyed weight. (.867 factor)

Neutral pt: **± 6,738 ft assumes no friction**

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	12,906	5.5	17	P110 RY	GEOCONN-SC	8,027	12,906	4.767	4.892	267.3
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	3,977	7480	1.88	10000	11550	1.155	355.6	546	1.54	

Prepared  
by: Richard WrightPhone: (432) 695 6970  
FAX: (432) 695 6973Date: 02/23/23  
Midland, Texas**Remarks:**

Collapse is based on a vertical depth of 8,026 ft, a mud weight of 10.5 ppg. The casing is considered to be evacuated for collapse purposes.

Collapse strength is based on the Westcott, Dunlop &amp; 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.

Tension/Joint Strength is Calculated by using string weight in air plus 100K overpull.

## Chieftain 18 State # 601H “Cement Program”

SL=1189 FNL & 257 FWL, Section 18, T21S, R26E, Eddy County, New Mexico.

BHL = 400 FNL & 100 FEL, Sec 18, T21S, R26E, Eddy County, New Mexico  
API # 30-015-

Bone Springs Horizontal Test\_TVD  $\pm$  7,930-8,026

**.80° F Temp Gradient per 100 ft + 75° F surface**

### 1. **Surface hole depth = 500 ft. (79°F) TOC @surface w/ 200% W/O**

Surface hole = 17.5 inch

Surface casing = 13.375" 48# H-40 STC

Float Collar "PDC Drillable" 1 jts up.

Hardware needed = 8 spring centralizers-(6) first 6 jts\_(1) every 3rd jt to surface

1 Guide shoe PDC Drillable

1 Float Collar (1 jt Up) PDC Drillable

2 thread lock

(2) collar stops (15' up from shoe) + (15' up from FC)

### **Engineering Data "Surface":**

500 ft 17.5 inch hole x 13.375" csg = .6946 cu ft/ft X 500 X 3.0 excess = 1042 cu ft

44 ft 13.375" 54.5 # casing volume= .8679 X 44 ft = 38 cu ft

**Total Cement volume required = 1080 cu ft.**

Lead slurry "Scavenger" Anticipated Coverage (200-surf) = 417 cu ft "C" 61:26 poz  
w/ 1% CaCl<sub>2</sub>, 12.8 ppg yield 1.68 cu ft/sk = **(271 sks)**

### **Slurry 1 Cement Tested @ 80°F**

Thickening Time 4hr 37 min

Compressive Strength = 8:53\_ 500 psi; 24:00\_815 psi

.07% FW in 2 hrs

FL = NC

Gel Strength = 10 sec 10.3; 10 min 26.2

PV = 16.2

YP = 18.3

Tail Slurry Anticipated Coverage (500'-200) = 625 cu ft Class "C" w/ 2% CaCl<sub>2</sub> 14.8  
ppg yield 1.35 cu ft / sk = **(463 sks)**

### **Slurry 2 Cement Tested @ 79°F**

Thickening Time 2hr 08 min

Compressive Strength = 5:53\_ 500 psi; 36:00\_1818 psi

0% FW in 2 hrs

FL = 100 ml/30 min

Gel Strength = 10 sec 15.3; 10 min 19.9

PV = 24

YP = 17.8

**Include 350 sks class "C" neat for top out + sack Calcium Chloride for mixing water (3%) if needed.**

**2. Intermediate hole depth=2,200 ft. (99° F) TOC @ Surface w/ 150% W/O open hole**

Intermediate hole = 12.25 inch

Intermediate Casing = 9.625" 36# J-55 LTC

Float Collar 1 jts up.

Hardware needed = 12 spring centralizers  
1 Guide Shoe  
1 float collar (1 jt up)  
4 thread lock

**Engineering Data "Intermediate":**

1700 ft 12 1/4inch open hole x 9.625 csg = .3132 cuft/ft X 1700 X 2.5 excess = **1331 cu ft**

500 ft 9.625 x 13.375" casing =.3765 cu ft/ft X 500 = **188 cu ft**

44 ft 9.625"36 # casing volume= .4340 X 44 ft = **19 cu ft**

**Total Cement volume required = 1,538 cu ft.**

Lead Slurry Anticipated Coverage (1,700-Surface) = 1,127 cu ft "C" 61/26 poz w/ 2% Calcium Chloride 12.0 ppg yield 2.07 cu ft/sk = **(544 sks)**

**Lead Slurry Tested @ 99°F**

Thickening Time 5hr 59 min

Compressive Strength = 24:00 hrs \_ 349 psi

.2% in 2 hrs (2.5 ml/250 ml)

Gel Strength = 10 Sec 17.6; 10 min 25.1

PV = 13.3

YP = 16.1

Tail Slurry Anticipated Coverage (2,200-1,700) = 411 cu ft Class "C" w/ 1% CaCl2 14.8 ppg yield 1.34 cu ft / sk = **(306 sks)**

**Slurry 2 Cement Tested @ 100°F**

Thickening Time 1hr 56 min

Compressive Strength = 3:31\_ 500 psi; 36:0\_ 2229 psi



.8% FW in 2 hrs  
 FL = 100 ml/30 min  
 Gel Strength = 10 sec 16.6; 10 min 16.7  
 PV = .7  
 YP = 17.5

**Include 350 sks class "C" neat for top out + sack Calcium Chloride for mixing water (3%) if needed.**

**3. Production Hole Depth =  $\pm$  12,906 ft. " $\pm$  8,028" TVD Max. (Temp 140° F)\_TOC @ surface w/ 50% (W/O) OPEN HOLE (1 stage cmt job). NEED 18 HR SERVICE TIME TO PUMP JOB !**

Production Hole Part 1 = 8.5 inch 12,906 – 8,443 ft. (4,463) x 1.5 x .2290 = 1,533 cuft

Production Hole Part 2 = 8.75 inch 8,443 – 2,200 ft. (6,243') x 1.5 x .2526 = 2,365 cuft

Production Hole Part 3 = 9.625 36# Csg x 5.5" Csg (2,200') x .2691 = 592 cuft

Shoe Jt. 45 ft x .1245 = NA

**Total Cmt = 4,490 cu ft ( 2,239 sks)**

**5.5" seat = 12,906 MD. TOC calculated to Surface w/ 50% Washout open hole.**

Production Casing = 5.5 inch 20 # RY 110 w/ GBDC or Equivalent Connections

Hardware Needed = 70 spring Centralizers every 3<sup>rd</sup> jt. 7350 to surface  
 64 Rigid standoff Centralizers (1 every 2nd jt in lateral & Curve.  
 Wet Float Shoe  
 8 thread lock  
 Glass Disc float sub

**Engineering Data "Production Casing Cement":**

**Slurry 1 Coverage = (5,000-Surface ft)**

8.75" OH x 5.5" Csg = 2,800 x .2526 cu ft / ft x 1.5 = **1,061 cu ft.**

5.5" Csg x 9-5/8 36# csg = 2,200' x .2691 cu ft / ft = **592 cu ft.**

**Slurry 1 Total = 1,653 cu ft.**

**Total Slurry 1 Recipe = (1,653 cu ft) (373 sacks) class "C" 50/50 poz 10.5 ppg yield 4.43 cu ft/sk w/ 10% bentonite + 10% Silica Fume + 1.5% Sodium Metasilicate + 5 pps LCM.**

**Slurry 1 Cement Tested @ 141°F**

Thickening Time 6hr 02 min

Compressive Strength = 10:41\_ 50 psi; 15:29\_ 100 psi; 72 hr\_346 psi

1% in 2 hrs (2.5 ml/250 ml)

Gel Strength = 10 Sec 22; 10 min 32

PV = 5.8

YP = 19

**Slurry 2 Coverage = (12,900-5,000 ft)**

8-3/4" OH x 5.5" Csg = 3,443 ft x .2526 Cu ft/ft x 1.5 = **1,305 cu ft**

8-1/2" OH x 5.5" Csg = 4,463 ft x .2290 cu ft / ft x 1.5= **1,533 cu ft**

Shoe jt 45 x .1245 = **NA**

**Slurry 2 Total = 2,838 cuft**

**Total Slurry 2 Recipe = (2,838 cu ft) (1,867 sacks)** class "H" 50/50 poz 13.2 ppg yield

1.52 cu ft/sk w/ 4% bentonite + .2% Sodium Metasilicate + 3 BWOW NaCl + .4%

Fluid Loss Gas Migration Additive. 7.21 GPS H<sub>2</sub>O.

**Slurry 2 Cement Tested @ 150°F**

Thickening Time 5hr 37 min

Compressive Strength = 9:34\_ 50 psi; 20:08\_ 500 psi; 72 hr\_1,622 psi

0% FW in 2 hrs

FL = 100 ml/30 min

Gel Strength = 10 sec 4; 10 min 8

PV = 120.9

YP = 13.2

1-Chieftain 18 State # 301H\_1Mi V2

MITCHELL ENGINEERING PROGRAMS

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**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	2000.00	2000.00	0.00	0.00	-
2	100	3	345.6	2100.00	2099.95	2.54	-0.65	3.00
3	100	6	345.6	2200.00	2199.63	10.13	-2.60	3.00
4	100	9	345.6	2300.00	2298.77	22.77	-5.85	3.00
5	100	12	345.6	2400.00	2397.08	40.42	-10.38	3.00
6	100	14	345.6	2500.00	2494.51	62.21	-15.97	2.00
7	100	14	345.6	2600.00	2591.54	85.64	-21.99	0.00
8	100	14	345.6	2700.00	2688.57	109.08	-28.01	0.00
9	2535	14	345.6	5235.00	5148.27	703.08	-180.52	0.00
10	100	14	345.6	5335.00	5245.30	726.51	-186.54	0.00
11	100	12	345.6	5435.00	5342.73	748.30	-192.13	2.00
12	100	9	345.6	5535.00	5441.05	765.95	-196.66	3.00
13	100	6	345.6	5635.00	5540.18	778.59	-199.91	3.00
14	100	3	345.6	5735.00	5639.86	786.19	-201.86	3.00
15	100	0	345.6	5835.00	5739.82	788.72	-202.51	3.00
16	100	0	0	5935.00	5839.82	788.72	-202.51	0.00
17	1318	0	0	7253.00	7157.82	788.72	-202.51	0.00
18	100	0	0	7353.00	7257.82	788.72	-202.51	0.00
19	100	0	90	7453.00	7357.82	788.72	-202.51	0.00
20	100	10	90	7553.00	7457.31	788.72	-193.81	10.00
21	100	20	90	7653.00	7553.78	788.72	-167.96	10.00
22	100	30	90	7753.00	7644.30	788.72	-125.75	10.00
23	100	40	90	7853.00	7726.11	788.72	-68.46	10.00
24	100	50	90	7953.00	7796.73	788.72	2.16	10.00
25	100	60	90	8053.00	7854.01	788.72	83.97	10.00
26	100	70	90	8153.00	7896.22	788.72	174.48	10.00
27	100	80	90	8253.00	7922.07	788.72	270.95	10.00
28	90	88.795	90	8343.00	7930.85	788.72	360.44	9.77
29	100	88.795	90	8443.00	7932.95	788.72	460.41	0.00
30	100	88.795	90	8543.00	7935.05	788.72	560.39	0.00
31	4300	88.795	90	12843.00	8025.48	788.72	4859.44	0.00
32	63	88.795	90	12906.00	8026.81	788.72	4922.43	0.00
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1-Chieftain 18 State # 301H\_1Mi V2

MITCHELL ENGINEERING PROGRAMS

STA #	ΔMD ft	INCL deg	AZIM deg	MD ft	TVD ft	N+/S- ft	E+/W- ft	DLS deg/100FT
47								
48								
49								
50								
51								
52								
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1-Chieftain 18 State # 301H\_1Mi V2

MITCHELL ENGINEERING PROGRAMS

STA #	ΔMD ft	INCL deg	AZIM deg	MD ft	TVD ft	N+/S- ft	E+/W- ft	DLS deg/100FT
106								
107								
108								
109								
110								
111								
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Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

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

First Take Point (FTP)

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

Last Take Point (LTP)

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

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

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

Estimated Formation Tops

Formation:	Top:	Formation:	Top:

**Tascosa Energy Partners, LLC  
Chieftain 18 State Com  
Hydrogen Sulfide Contingency Plan For  
Drilling/Workover/Facility  
SEC 18, T21S, R26E, Eddy County, New Mexico**

Chieftain 18 State Com 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 un-manned H<sub>2</sub>S 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)**

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

**EMERGENCY RESPONSE NUMBERS:**

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



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

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**HYDROGEN SULFIDE TRAINING**

**H2S SAFETY EQUIPMENT AND SYSTEMS**

<b>GENERAL EMERGENCY PLAN</b>	<b>page 7</b>
<b>EMERGENCY PROCEDURE FOR UNCONTROLLED RELEASES OF H2S</b>	<b>page 7</b>
<b>CALCULATIONS OF THE GENERAL RADIUS OF EXPOSURE (ROE)</b>	<b>page 8</b>
<b>PUBLIC EVACUATION PLAN</b>	<b>page 8</b>
<b>PROCEDURE FOR IGNITING AN UNCONTROLLABLE CONDITION:</b>	
<b>PROCEDURE FOR IGNITION</b>	<b>page 9</b>
<b>REQUIRED EMERGENCY EQUIPMENT</b>	<b>page 8</b>
<b>USING SELF CONTAINED BREATHING AIR EQUIPMENT ( SCBA)</b>	<b>page 9</b>
<b>RESCUE &amp; FIRST AID FOR VICTIMS OF HYDROGEN SULFIDE (H2S) POISONING</b>	<b>page 10</b>
<b>H2S TOXIC EFFECTS</b>	<b>page 11</b>
<b>H2S PHYSICAL EFFECTS</b>	<b>page 11</b>
<b>LOCATION MAP</b>	<b>page 12-13</b>

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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 (H<sub>2</sub>S)**
- 2. The proper use and maintenance of personal protective equipment and life support systems.**
- 3. The proper use of H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S Drilling Operations Plan and the Public Protection plan.**

**There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S 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. H<sub>2</sub>S Safety Equipment and Systems**

**Note: All H<sub>2</sub>S 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 H<sub>2</sub>S. If H<sub>2</sub>S greater than 100 ppm is encountered in the gas stream we will shut-in and install H<sub>2</sub>S 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 = [(0.4546) ( 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 H<sub>2</sub>S 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= [(0.4546) (.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 H<sub>2</sub>S safety, shall monitor with detection equipment the H<sub>2</sub>S 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 H<sub>2</sub>S, 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 UNCONTROLLABLE 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 H<sub>2</sub>S, 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 H<sub>2</sub>S 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

- H<sub>2</sub>S 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 (H<sub>2</sub>S) 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 (H<sub>2</sub>S) Toxic Effects

H<sub>2</sub>S is extremely toxic. The acceptable ceiling for eight hours of exposure is 10 ppm, which is .001% by volume. H<sub>2</sub>S is approximately 20% heavier than air (Sp. Gr= 1.19)(Air = 1) and H<sub>2</sub>S 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 <sub>2</sub> 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 <sub>2</sub>	2.21	2 ppm	N/A	1000 ppm
Chlorine	CL <sub>2</sub>	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	CO	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	CO <sub>2</sub>	1.52	5000 ppm	5%	10%
Methane	CH <sub>4</sub>	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.



## Chieftain 18 State Com – 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 two vapor recovery units and sent to the Enterprise sales line through a compressor at the Bonneville Facility.

### 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 (Enterprise).
- 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 minimized venting during downhole operations.

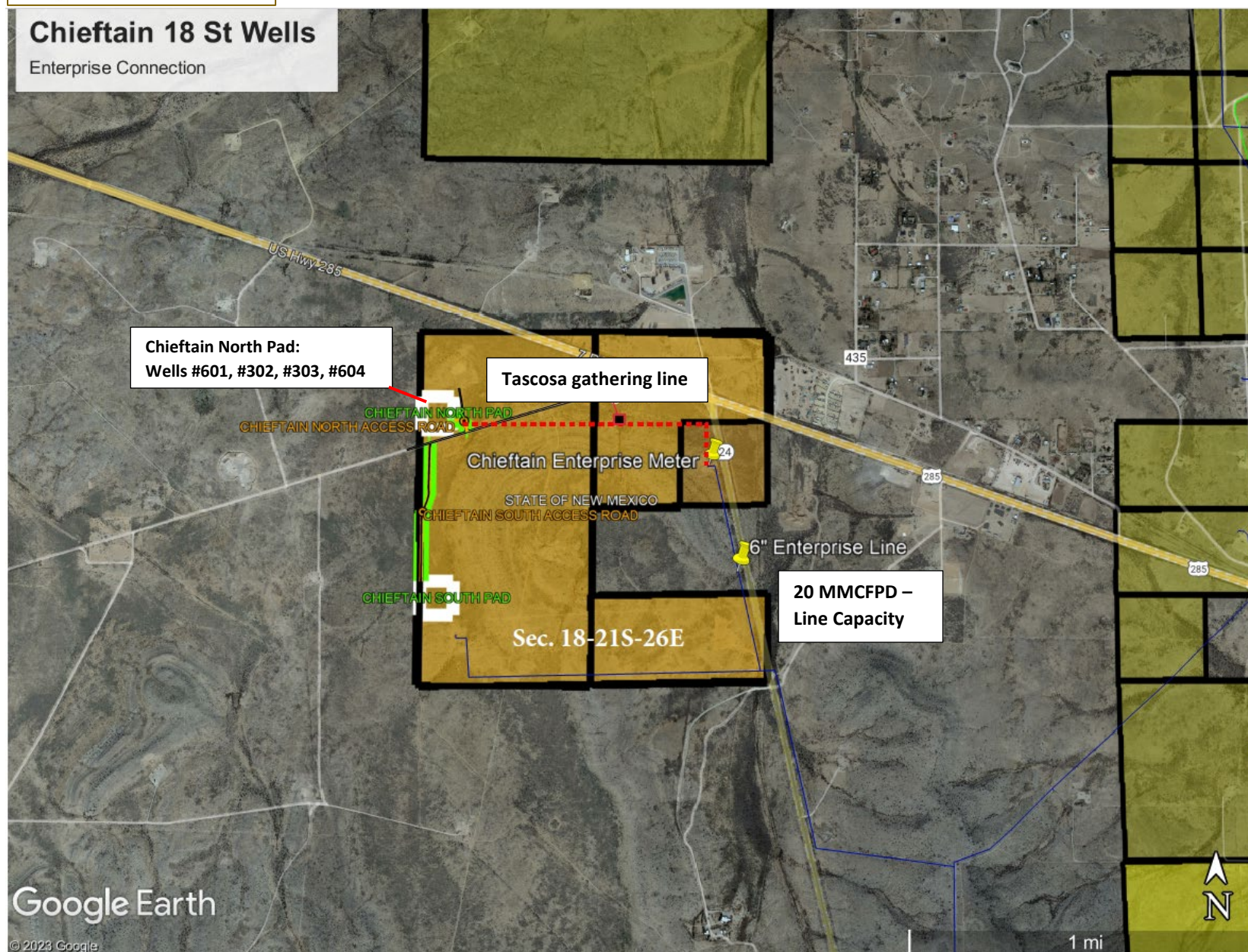
### **XI. Map:**





## Chieftain 18 St Wells

Enterprise Connection





### **XIII. Line Pressure:**

Tascosa does not have any existing wells connected to the Enterprise pipeline shown in the map above. However, Tascosa is planning for increases in line pressure as the compressor Station experiences higher volumes from other operators. Tascosa has rented a 2 stage, WAW-7044 compressor to prevent downtime or flaring when line pressure does increase. This compressor is rated for discharge pressure of up to 1000 psi, which is the maximum operating line pressure of the Enterprise gas gathering line.



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:** 329784 **Date:** 06/25/2023

**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
Chieftain 18 St Com #601H		Lot 1 18-21S-26E	1189' FNL, 257' FWL	900	3500	1100

**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
Chieftain 18 St Com #601H		1/1/2024	1/21/2024	2/15/2024	3/1/2024	3/15/2024

**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
Chieftain 18 State Com #601H		3500	838,500

#### **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
Enterprise	South Eddy	18-21S-26E	12/31/2023	20 MMCFPD

**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: <i>Alyssa McNear</i>
Printed Name: Alyssa McNear
Title: Engineering Manager
E-mail Address: adavanzo@tascosaep.com
Date: 6/21/2023
Phone: 720-244-4417
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>
Approved By:
Title:
Approval Date:
Conditions of Approval: