DISTRICT1 625 N French Dr., 110 ?home: (575) 393-6166 DISTRICT11 111 S First St., Anteur ?home: (575) 748-1283 DISTRICT111	NM 88210 Fax: (575) 48-9		C	Minerals	te of New I & Natural I SERVATIC South St. F	Resources Dej ON DIVISION	oartment I		Form C-I vised August 1, 20 e copy to appropri District Off
000 Rio Brazos Road, Plione: (505) 334-6178 DISTRICT IV 220 S St Francis Dr., Phone: (505) 476-3460		505 162				exico 87505		DAM	ENDED REPOI
					ND ACRE	AGE DEDICA			
30-025- <b>y</b>	.PI Number - <b>3876</b>	)		Pool Code 8452 91	1922 W	C-025 G-0	Pool Nam 6 \$2234		
Property (			GI	RAMA 8	Property Nan				ell Number 4H
OGRID	-				Operator Nan	ne		Elevation	
2602	97	<u> </u>	·	BTAO		CERS, LLC			3476'
UL or lot No.	Section	Townsh	ip Range	Lot Idn	Surface Loca Feet from the	North/South line	Feet from the	East/West line	County
0	16	22-S	34-E		200	SOUTH	1980	EAST	LEA
				Bottom Hole	e Location If Dif	Terent From Surface			
UL or lot No. B	Section 9	Townsh 22-S		Lot Idn	Feet from the 200	North/South line NORTH	Feet from the 1980	East/West line EAST	County LEA
Dedicated Acres		1	Consolidation C	Code Orde	er No.				
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NO ALLOWABLE V	/ILL BE ASSIG		<u> </u>	GEODETIC NAD ВОТТОМ Н Y= 51 X= 76 LAT.=32	SCALE: 1"=; COORDINATES 27 NME IOLE LOCATION	2000' GEODETIC COORDINA NAD 83 NME BOTTOM HOLE LOCA	TES OPEI TION I hereby ce complete tr that this an unleased a w proposed to	RATOR CERTIF rtify that the information b o the best of my knowledg gamization either owns a w inneral intercer in the land i othom bole location or bas	ICATION berein is true and e and belief, and vorking iblerest or including the a right to drill this
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# **FMSS**

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD	ID:	10400007082	

Operator Name: BTA OIL PRODUCERS LLC

Well Name: GRAMA 8817 16-9 FEDERAL COM

Well Type: OIL WELL

## Submission Date: 11/14/2016

5 100-31

Well Number: 4H Well Work Type: Drill

## Section 1 - Geologic Formations

ID: Surface formation	Name: UNKNOWN	
Lithology(ies):		
ALLUVIUM		
Flovesiers 2470		Management Damatha ()
Elevation: 3476	True Vertical Depth: 0	Measured Depth: 0
Mineral Resource(s): NONE		
Is this a producing formation? N		
ID: Formation 1	Name: RUSTLER ANHYDRITE	
Lithology(ies):		
Elevation: 1905	True Vertical Depth: 1571	Measured Depth: 1571
Mineral Resource(s):		
NONE		
Is this a producing formation? N		
ID: Formation 2	Name: TOP OF SALT	
Lithology(ies):		
Elevation: 1436	True Vertical Depth: 2040	Measured Depth: 2040
Mineral Resource(s):	-	
NONE		
Is this a producing formation? N		

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Operator Name: BTA OIL PRODUCERS LLC Well Name: GRAMA 8817 16-9 FEDERAL COM Well Number: 4H			
D: Formation 3	Name: BASE OF SALT		
.ithology(ies):			
Elevation: 1 Aineral Resource(s): NONE	True Vertical Depth: 3475	Measured Depth: 3475	
s this a producing formation? N		· · · · ·	
D: Formation 4	Name: CAPITAN REEF		
ithology(ies):			
Elevation: -611 Aineral Resource(s): NONE s this a producing formation? N	True Vertical Depth: 4087	Measured Depth: 4087	
D: Formation 5	Name: DELAWARE		
ithology(ies):			
Elevation: -1849 fineral Resource(s): NONE	True Vertical Depth: 5325	Measured Depth: 5325	
s this a producing formation? N			
D: Formation 6	Name: CHERRY CANYON		
ithology(ies):		,	
levation: -2549 lineral Resource(s): NATURAL GAS	True Vertical Depth: 6025	Measured Depth: 6025	

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Operator Name: BTA OIL PRODUC	CERS LLC	and the beat the second states and the second states and the second second second second second second second s
Well Name: GRAMA 8817 16-9 FEI	DERAL COM	54 Added over the matrix $1$ where the $55$
Is this a producing formation? N	in the second second Second second	Sala in the second s
ID: Formation 7		l (den gjan jeln verg tunwi Hall Tribua gjen
<ul> <li>「「「「」」」、「「」」、「」」、「」」、「」」、「」」、「」」、「」」、「」</li></ul>	(1) Product Methods Methods (1) Product Methods (1) Product (1)	Alfé Spéciel, augelession provinci i communité 1999 entre étrés éésé Alfé Seguines d'abour érapa on provinciel augeles d'alfé d'abour é previnci on étré d'alfé 100 kontrologie profession d'aprov or companies communité d'Alfé aujeles
Elevation: -3524	True Vertical Depth: 7000	Measured Depth: 7000 Measured Depth: 7000 Measured Depth: 7000 Measured Depth: 7000
Mineral Resource(s):	te de la tener de pareces	<ol> <li>แระ สะสติ ธรีกรวม ก็เกิดสาหระสุดสินสถา เป็น</li> </ol>
NATURAL GAS	n in the second se	ริสาร พรุก - 2 มีพระสถาย อากร์ 2 ค.ศ. 5 มกาพที่ พระสถ 1999 ก. 1999 - 2 วรี สัพเสรระ (สารณาวัส (สวรณ์) - กรณ
Is this a producing formation? N	۶ ,	and the menger the action
ID: Formation 8	Name: BONE SPRING LOWER	Came of the G Red Go of 1 Gal.
to Applications and a series		the function of the Contraction of the second of the
Lithology(ies):		the with which which and the
n an	$a_{1} = \left\{ e_{1} \in \mathcal{F}_{1} : \left\{ e_{1} \in \mathcal{F}_{1} : e_{2} \in \mathcal{F}_{1} \in \mathcal{F}_{2} \right\}$	Converting and And Anthening and a
Elevation: -5039.	True Vertical Depth: 8515	Méasured Depth: 8515
Mineral Resource(s):		and a second
NATURAL GAS		
с ́ ОІĽ		an a tha an
Is this a producing formation? N		and the second
ID: Formation 9	Name: BONE SPRING 2ND	
Lithology(ies):		at the second for
Elevation: -6979	True Vertical Depth: 10455	Measured Depth: 10782
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? Y		
Section 2 - Blowout I	Prevention	

Operator Name: BTA OIL PRODUCERS LLC Well Name: GRAMA 8817 16-9 FEDERAL COM

Well Number: 4H

## Stage Tool Depth:

<u>Lead</u>...

Top MD of Segment: 0 Additives: 4% Gel Density: 13.5

<u>Tail</u> Top MD of Segment: 1265

Additives: 2% CaCl2

Density: 14.8

#### Casing String Type: INTERMEDIATE

Stage Tool Depth: <u>Lead</u> Top MD of Segment: 0 Additives: 6% Gel Density: 12.9 <u>Tail</u> Top MD of Segment: 4240 Additives: 0.004 GPS cf-41L

Density: 14.8

Casing String Type: PRODUCTION

# Stage Tool Depth:

<u>Lead</u>

Top MD of Segment: 3800 Additives: 0.004 GPS cf-41L Density: 10.5

<u>Tail</u>

Top MD of Segment: 8896 Additives: 2% Gel Density: 14.4 Bottom MD Segment: 1265 Quantity (sks): 1035 Volume (cu.ft.): 1811

Bottom MD Segment: 1621 Quantity (sks): 200 Volume (cu.ft.): 268

Bottom MD Segment: 4240 Quantity (sks): 1085 Volume (cu.ft.): 2365

Bottom MD Segment: 5320 Quantity (sks): 250 Volume (cu.ft:): 332

**Bottom MD Segment: 8896** 

Bottom MD Segment: 20337

Quantity (sks): 415

Volume (cu.ft.): 1838

Quantity (sks): 1200 Volume (cu.ft.): 1464 Cement Type: Class C Yield (cu.ff./sk): 2.18 Percent Excess: 61 Cement Type: Class C Yield (cu.ff./sk): 1.33

e. 1

Cement Type: Class C +4 Telefficial

Yield (cu.ff./sk): 1.75

Cement Type: Class C

Yield (cu.ff./sk): 1.34<sup>7</sup>

Percent Excess: 81

Percent Excess: 81

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Cement Type: 50:50 H Yield (cu.ff./sk): 4.43 Percent Excess: 42

Percent Excess: 61

.95

21.

Cement Type: 50:50 H Yield (cu.ff./sk): 1.22 Percent Excess: 15

Page 8 of 11

Operator Name: BTA OIL PRODUCERS LLC Well Name: GRAMA 8817 16-9 FEDERAL COM

Well Number: 4H

### **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

**Describe what will be on location to control well or mitigate other conditions:** Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

## **Circulating Medium Table**

Top Depth: 0	Bottom Depth: 1621
Mud Type: SPUD MUD	
Min Weight (Ibs./gal.): 8.3	Max Weight (Ibs./gal.): 8.4
Density (Ibs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP):
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	
Top Depth: 1621	Bottom Depth: 5320
Mud Type: SALT SATURATED	
Min Weight (Ibs./gal.): 9.8	Max Weight (Ibs./gal.): 10
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP):
FN.	
Filtration (cc):	Salinity (ppm):

Operator Name: BTA OIL PRODUCERS LLC Well Name: GRAMA 8817 16-9 FEDERAL COM

Well Number: 4H

Top Depth: 5320	Bottom Depth: 10455
Mud Type: WATER-BASED MUD	
Min Weight (Ibs./gal.): 8.6	Max Weight (Ibs./gal.): 8.9
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP):
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	٧

## Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures: Drill Stem Tests will be based on geological sample shows

List of open and cased hole logs run in the well: CBL,GR,MUDLOG

Coring operation description for the well: None Planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4987

Anticipated Surface Pressure: 2686.9

Anticipated Bottom Hole Temperature(F): 165

Anticipated abnormal proessures, temperatures, or potential geologic hazards? NO

Describe:

**Contingency Plans geoharzards description:** 

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? NO Hydrogen sulfide drilling operations plan: Operator Name: BTA OIL PRODUCERS LLC

.

Well Name: GRAMA 8817 16-9 FEDERAL COM

Well Number: 4H

## Section 8 - Other Information

#### Proposed horizontal/directional/multi-lateral plan submission:

Grama 8817 16-9 Fed Com 4H Directional Plan\_11-14-2016.pdf

Grama 8817 16-9 Fed Com 4H Wall Plot\_11-14-2016.pdf

#### Other proposed operations facets description:

A variance is requested for a Multi Bowl Wellhead. See the attached schematic and running procedure.

#### Other proposed operations facets attachment:

H2S Equipment Schematic - Grama 8817 16-9 Fed Com\_11-14-2016.pdf

H2S Plan - Grama 8817 16-9 Fed Com 11-14-2016.pdf

#### Other Variance attachment:

Multi Bowl Wellhead Schematic\_11-14-2016.pdf Wellhead System and Testing\_11-14-2016.pdf