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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 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
30-025- 43870	~~28432~~ 97922	WC-025 G-06 S223421C; BS

Property Code	Property Name	Well Number
319083	GRAMA 8817 16-9 FEDERAL COM	4H

OGRID No	Operator Name	Elevation
260297	BTA OIL PRODUCERS, LLC	3476'

Surface Location

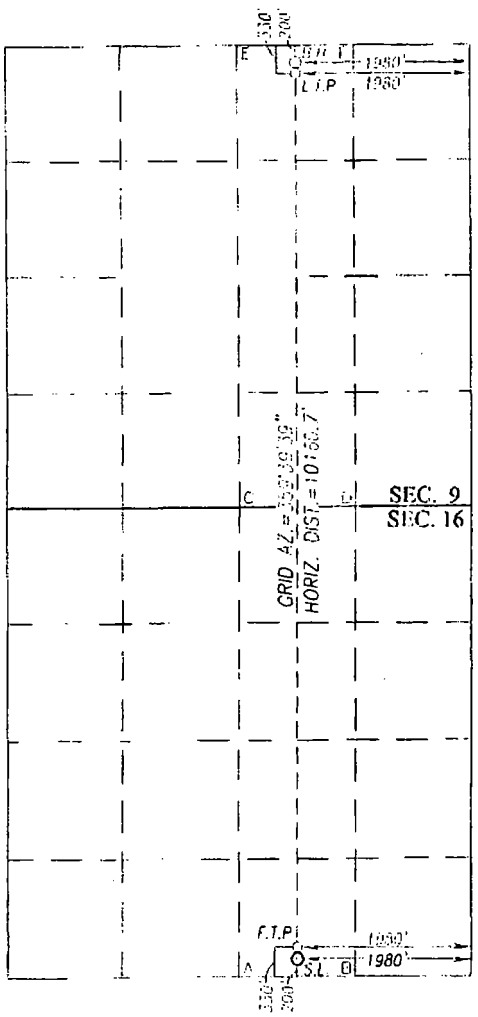
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	16	22-S	34-E		200	SOUTH	1980	EAST	LEA

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
B	9	22-S	34-E		200	NORTH	1980	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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



SCALE: 1"=2000'

GEODETIC COORDINATES
NAD 27 NME
BOTTOM HOLE LOCATION
Y= 514963.4 N
X= 765726.6 E
LAT.=32.412806° N
LONG.=103.472270° W

GEODETIC COORDINATES
NAD 83 NME
BOTTOM HOLE LOCATION
Y= 515024.3 N
X= 806909.4 E
LAT.=32.412930° N
LONG.=103.472751° W

LAST TAKE POINT
NAD 27 NME
Y= 514833.5 N
X= 765727.4 E
LAT.=32.412449° N
LONG.=103.472271° W

LAST TAKE POINT
NAD 83 NME
Y= 514894.3 N
X= 806910.2 E
LAT.=32.412573° N
LONG.=103.472752° W

CORNER COORDINATES TABLE
NAD 27 NME
A - Y= 504601.2 N, X= 765116.2 E
B - Y= 504608.7 N, X= 766441.8 E
C - Y= 509873.8 N, X= 765101.1 E
D - Y= 509885.6 N, X= 766418.7 E
E - Y= 515158.4 N, X= 765058.0 E
F - Y= 515168.3 N, X= 766381.5 E

CORNER COORDINATES TABLE
NAD 83 NME
A - Y= 504661.7 N, X= 806299.2 E
B - Y= 504669.2 N, X= 807624.8 E
C - Y= 509934.5 N, X= 806284.0 E
D - Y= 509946.3 N, X= 807601.7 E
E - Y= 515219.2 N, X= 806240.8 E
F - Y= 515229.2 N, X= 807564.3 E

FIRST TAKE POINT
NAD 27 NME
Y= 504934.9 N
X= 765785.8 E
LAT.=32.385240° N
LONG.=103.472340° W

FIRST TAKE POINT
NAD 83 NME
Y= 504995.4 N
X= 806968.8 E
LAT.=32.385364° N
LONG.=103.472820° W

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y= 504805.0 N
X= 765786.5 E
LAT.=32.384883° N
LONG.=103.472341° W

GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y= 504865.5 N
X= 806969.6 E
LAT.=32.385007° N
LONG.=103.472821° W

OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kayla McConnell 11/14/16
Signature Date

KAYLA MCCONNELL
Printed Name

KMCCONNELL@BTAOIL.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.

SEPTEMBER 2, 2016
Date of Survey

Signature & Seal of Professional Surveyor

NEW MEXICO
3239
REGISTERED PROFESSIONAL SURVEYOR

Ronald J Eidson 11/11/2016
Certificate Number Gary G. Eidson 12641
Ronald J. Eidson 3239

ACK REL. W.O.: 16110713 JWSC W.O.: 16.11 0856

APD ID: 10400007082 **Submission Date:** 11/14/2016

Operator Name: BTA OIL PRODUCERS LLC

Well Name: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 4H

Well Type: OIL WELL **Well Work Type:** Drill

Section 1 - Geologic Formations

ID: Surface formation **Name:** UNKNOWN

Lithology(ies):

ALLUVIUM

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

ID: Formation 3 **Name:** BASE OF SALT

Lithology(ies):

Elevation: 1 **True Vertical Depth:** 3475 **Measured Depth:** 3475

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 4 **Name:** CAPITAN REEF

Lithology(ies):

Elevation: -611 **True Vertical Depth:** 4087 **Measured Depth:** 4087

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 5 **Name:** DELAWARE

Lithology(ies):

Elevation: -1849 **True Vertical Depth:** 5325 **Measured Depth:** 5325

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 6 **Name:** CHERRY CANYON

Lithology(ies):

Elevation: -2549 **True Vertical Depth:** 6025 **Measured Depth:** 6025

Mineral Resource(s):

NATURAL GAS

OIL

Operator Name: BTA OIL PRODUCERS LLC

Well Name: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 4H

Is this a producing formation? N

ID: Formation 7 **Name:** BRUSHY CANYON

Lithology(ies):

Elevation: -3524 **True Vertical Depth:** 7000 **Measured Depth:** 7000

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 8 **Name:** BONE SPRING LOWER

Lithology(ies):

Elevation: -5039 **True Vertical Depth:** 8515 **Measured Depth:** 8515

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 9 **Name:** BONE SPRING 2ND

Lithology(ies):

Elevation: -6979 **True Vertical Depth:** 10455 **Measured Depth:** 10782

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

Section 2 - Blowout Prevention

Operator Name: BTA OIL PRODUCERS LLC

Well Name: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 4H

Stage Tool Depth:

Lead

Top MD of Segment: 0 **Bottom MD Segment:** 1265 **Cement Type:** Class C

Additives: 4% Gel **Quantity (sks):** 1035 **Yield (cu.ff./sk):** 1.75

Density: 13.5 **Volume (cu.ft.):** 1811 **Percent Excess:** 81

Tail

Top MD of Segment: 1265 **Bottom MD Segment:** 1621 **Cement Type:** Class C

Additives: 2% CaCl2 **Quantity (sks):** 200 **Yield (cu.ff./sk):** 1.34

Density: 14.8 **Volume (cu.ft.):** 268 **Percent Excess:** 81

Casing String Type: INTERMEDIATE

Stage Tool Depth:

Lead

Top MD of Segment: 0 **Bottom MD Segment:** 4240 **Cement Type:** Class C

Additives: 6% Gel **Quantity (sks):** 1085 **Yield (cu.ff./sk):** 2.18

Density: 12.9 **Volume (cu.ft.):** 2365 **Percent Excess:** 61

Tail

Top MD of Segment: 4240 **Bottom MD Segment:** 5320 **Cement Type:** Class C

Additives: 0.004 GPS cf-41L **Quantity (sks):** 250 **Yield (cu.ff./sk):** 1.33

Density: 14.8 **Volume (cu.ft.):** 332 **Percent Excess:** 61

Casing String Type: PRODUCTION

Stage Tool Depth:

Lead

Top MD of Segment: 3800 **Bottom MD Segment:** 8896 **Cement Type:** 50:50 H

Additives: 0.004 GPS cf-41L **Quantity (sks):** 415 **Yield (cu.ff./sk):** 4.43

Density: 10.5 **Volume (cu.ft.):** 1838 **Percent Excess:** 42

Tail

Top MD of Segment: 8896 **Bottom MD Segment:** 20337 **Cement Type:** 50:50 H

Additives: 2% Gel **Quantity (sks):** 1200 **Yield (cu.ff./sk):** 1.22

Density: 14.4 **Volume (cu.ft.):** 1464 **Percent Excess:** 15

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 (lbs./gal.): 8.3 **Max Weight (lbs./gal.):** 8.4

Density (lbs/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 (lbs./gal.): 9.8 **Max Weight (lbs./gal.):** 10

Density (lbs/cu.ft.): **Gel Strength (lbs/100 sq.ft.):**

PH: **Viscosity (CP):**

Filtration (cc): **Salinity (ppm):**

Additional Characteristics:

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 (lbs./gal.): 8.6 **Max Weight (lbs./gal.):** 8.9

Density (lbs/cu.ft.): **Gel Strength (lbs/100 sq.ft.):**

PH: **Viscosity (CP):**

Filtration (cc): **Salinity (ppm):**

Additional Characteristics:

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