

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

Lease Serial No.
NMNM123535

If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on

HOBBS OCD

JUN 27 2019

RECEIVED

If Unit or CA Agreement, Name and or No.

8 Well Name and No.
BROT HELM FEDERAL COM 601H9 API Well No.
30-025-4606510 Field and Pool or Exploratory Area
RED HILLS BS EAST11 County or Parish, State
LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13 Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

COG Operating requests an amendment to our approved APD for this well to reflect a change in SHL and BHL only. Associated plats attached.

Change SHL to: 250' FNL & 407' FEL NENE 35-24S-34E
Change BHL to: 50' FSL & 330' FEL SESE 2-24S-34E

This SHL was originally permitted as Brot Helm Fed Com 701H

NO NEW SURFACE DISTURBANCE SAME COAS APPLIC MATIAS T2112S
Engineering is Good. COA is apply 2S. 6-14-19
6/14/19

14 I hereby certify that the foregoing is true and correct

Electronic Submission #468701 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Hobbs

Name (Printed Type) STAN WAGNER

Title REGULATORY ADVISOR

Signature (Electronic Submission)

Date 06/12/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Cody A. Lath

Title

AC - L & M

Date

06/14/2019

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

CFO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

LS

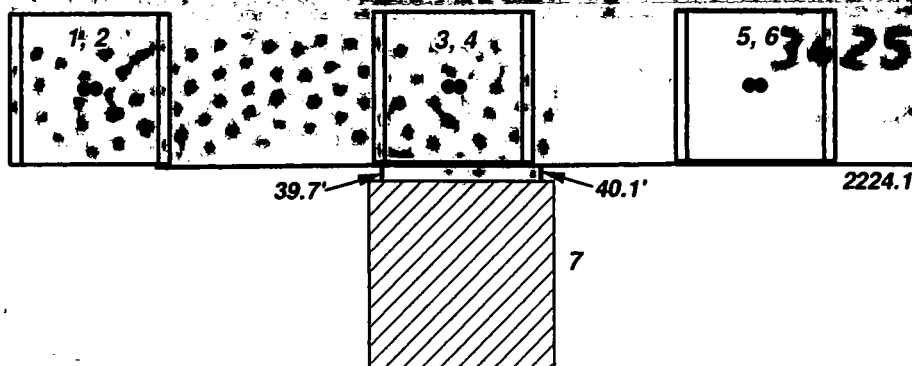
S

R
3
4
E

	WELL	FOOTAGE	ELEV.	WO
1	BROT HELM FED COM #704H	250' FNL & 2235' FEL	3418.1'	18-1838
2	BROT HELM FED COM #603H	250' FNL & 2205' FEL	3416.9'	19-1065
3	BROT HELM FED COM #703H	250' FNL & 1255' FEL	3415.9'	19-1063
4	BROT HELM FED COM #602H	250' FNL & 1225' FEL	3415.9'	19-1064
5	BROT HELM FED COM #701H	250' FNL & 437' FEL	3420.6'	19-1061
6	BROT HELM FED COM #601H	250' FNL & 407' FEL	3420.2'	19-1062
7	BROT HELM CTB	750' FNL & 1225' FEL	3412.6'	18-1809

Gravel
Pit

BATTLE AXE RD. - CR. 2



LEGEND

- WELL
- WELLPAD
- ▨ TANK BATTERY
- EXISTING ROAD
- PROPOSED ROAD
- PRIVATE
- STATE OF NM
- US BLM

BROT HELM FEDERAL COM WELLS

SECTION: 35 TOWNSHIP: 24 S. RANGE: 34 E.

STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M

W.O. # 18-1838, 1809; 19-1061-1065 LEASE: BROT HELM

0 500 1,000 1,500 FEET

0 0.03250.065 0.13 Miles 1 IN = 500 FT

LOCATION MAP

LAND STATUS

6/10/2019

A.M.

CONCHO

COG OPERATING, LLC



HARCROW SURVEYING, LLC.
2316 W. MAIN ST, ARTESIA, NM 88210
PH: (575) 746-2158
c.harcrow@harcrowsurveying.com

R
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4
E

	WELL	FOOTAGE	ELEV.	WO
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26

25

BATTLEAXE RD. - CR. 2

1,2

3,4

5,6

39.7'

40.1'

2224.1'

7

35

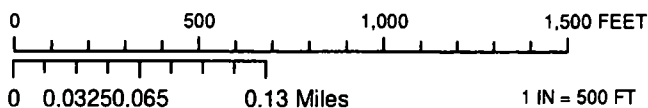
36

LEGEND

- WELL
- WELLPAD
- ▨ TANK BATTERY
- EXISTING ROAD
- PROPOSED ROAD

BROT HELM FEDERAL COM WELLS

SECTION: 35 TOWNSHIP: 24 S. RANGE: 34 E.
 STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M
 W.O. # 18-1838, 1809; 19-1061-1065 LEASE: BROT HELM



LOCATION MAP

IMAGERY

6/10/2019

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 c.harcrow@harcrowsurveying.com

T 24 S.

R
3
4
E

23

19

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25

30

24S 35E

1, 2 Oct 3, 4 5, 6

Battle Axe Rd

BATTLE AXE RD. - CR. 2

Battle Axe Rd

24S 34E

Battle Axe Rd

Madera Rd

35

36

31

LEGEND

- WELL
- WELLPAD
- ▨ TANK BATTERY
- EXISTING ROAD
- PROPOSED ROAD

BROT HELM FEDERAL COM WELLS

SECTION: 35 TOWNSHIP: 24 S. RANGE: 34 E.
 STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M
 W.O. # 18-1838, 1809; 19-1061-1065 LEASE: BROT HELM

0 1,250 2,500 3,750 FEET

0 0.075 0.15 0.3 Miles

1 IN = 1,250 FT

LOCATION MAP

VICINITY

6/10/2019

A.M.

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COG OPERATING, LLC



HARCROW SURVEYING, LLC.
 2316 W. MAIN ST, ARTESIA, NM 88210
 PH: (575) 746-2158
 c.harcrow@harcrowsurveying.com

DISTRICT I
1625 N. FRENCH DR., BORDO, NM 88240
Phone: (505) 383-6161 Fax: (505) 383-6720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1283 Fax: (505) 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) 476-3450 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 30-025-46065	Pool Code 97369	Pool Name Red Hills; Bone Spring, East
Property Code 325724	Property Name BROT HELM FEDERAL COM	Well Number 601H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3420.2'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	35	24-S	34-E		250	NORTH	407	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
P	2	25-S	34-E		50	SOUTH	330	EAST	LEA

Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No.
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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

NAD 83 NME <u>SURFACE LOCATION</u> Y=430586.6 N X=819714.7 E LAT.=32.180560° N LONG.=103.43355° W	Y=430830.5 N X=818805.6 E	250' 5" L 407'	Y=430839.4 N X=820118.5 E	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 undivided 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. Signature <u>Stan Wagner</u> Date <u>6/12/19</u> Printed Name <u>Stan Wagner</u> E-mail Address _____
NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=420331.3 N X=819885.4 E LAT.=32.152368° N LONG.=103.433282° W	Y=420275.8 N X=818892.4 E	GRID AZ - 179°28'24" - 100°06'3"	Y=420283.1 N X=820215.7 E	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. DECEMBER 17, 2018 Date of Survey _____ Signature & Seal of Professional Surveyor  Certificate No. <u>CHAD HARCROW 17777</u> W.O. # <u>19-1062</u> DRAWN BY: <u>CD</u>

Intent ☒ As Drilled ☐

API #
30-025-46065

Operator Name: COG Operating LLC	Property Name: Brot Helm Federal Com	Well Number 601H
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Kick Off Point (KOP)

UL A	Section 35	Township 24S	Range 34E	Lot	Feet	From N/S	Feet	From E/W	County Lea
Latitude					Longitude			NAD	83

First Take Point (FTP)

UL A	Section 35	Township 24S	Range 34E	Lot	Feet 100	From N/S North	Feet 330	From E/W East	County Lea
Latitude 32.180972					Longitude -103.433309			NAD	83

Last Take Point (LTP)

UL P	Section 2	Township 25S	Range 34E	Lot	Feet 100	From N/S South	Feet 330	From E/W East	County Lea
Latitude 32.152506					Longitude -103.433282			NAD	83

Is this well the defining well for the Horizontal Spacing Unit? ☐ No

Is this well an infill well? ☐ Yes

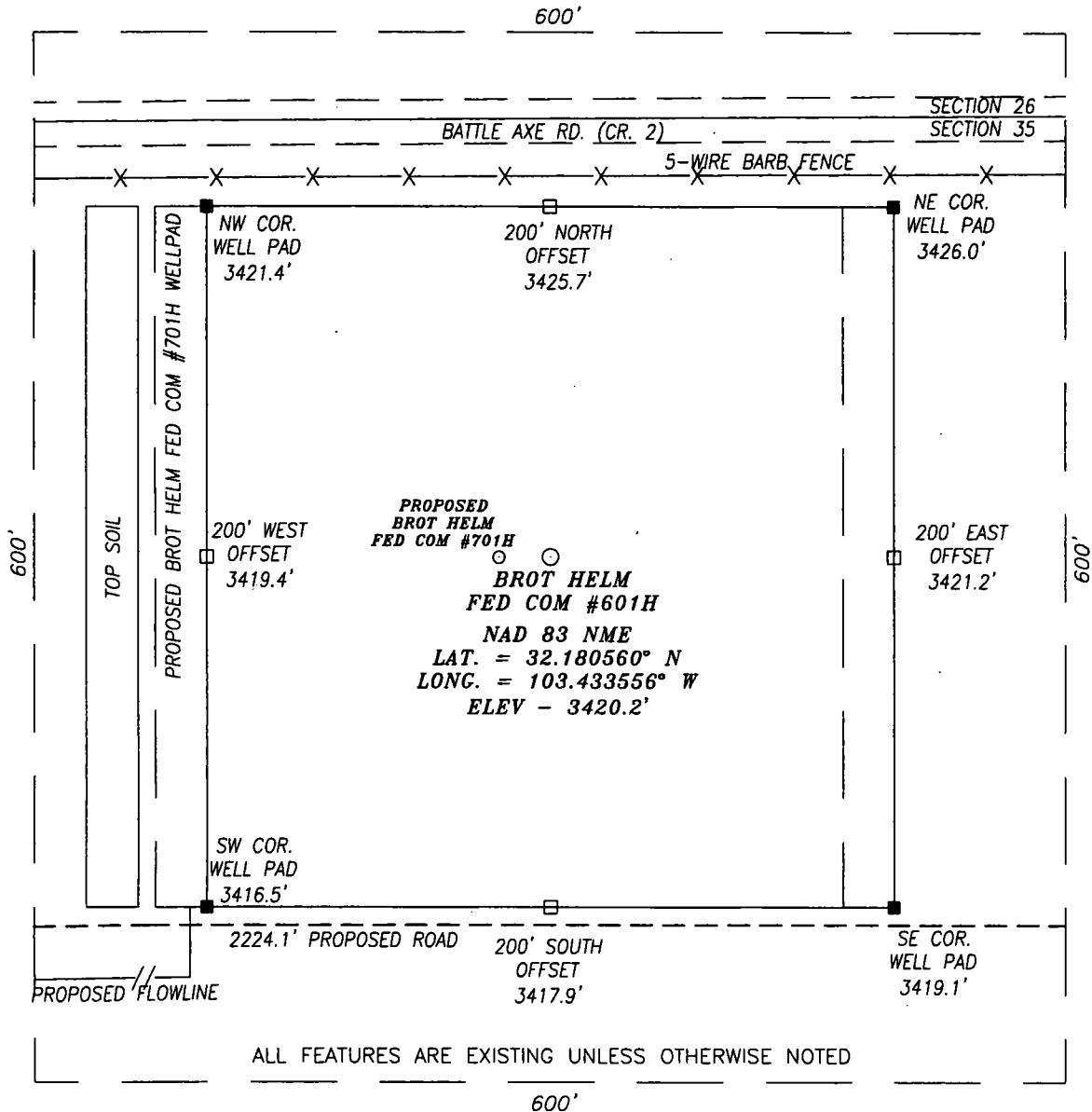
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #
30-025-46066

Operator Name: COG Operating LLC	Property Name: Brot Helm Federal Com	Well Number 602H
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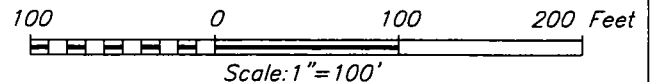
KZ 06/29/2018

SECTION 35, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY NEW MEXICO

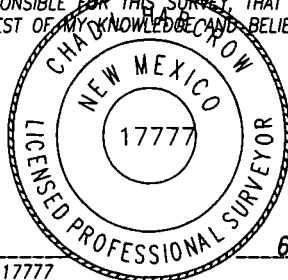


DIRECTIONS TO LOCATION
FROM THE INTERSECTION OF STATE HWY. 128 & BATTLE AXE RD.
(CR. 2), GO SOUTHWEST ON BATTLE AXE RD. FOR APPROX. 0.4
MI.; THEN TURN RIGHT (WEST) AND GO APPROX. 1.2 MILES TO A
CALICHE ROAD; THEN TURN LEFT (SOUTH) AND GO APPROX. 450
FEET TO A PROPOSED ROAD. PROPOSED WELL LIES APPROX. 625
FEET WESTNORTHWEST.

HARCROW SURVEYING, LLC
2314 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 746-2158
c.harcrow@harcrowsurveying.com



CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY
THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Chad Harcrow
CHAD HARCROW N.M.P.S. NO. 17777

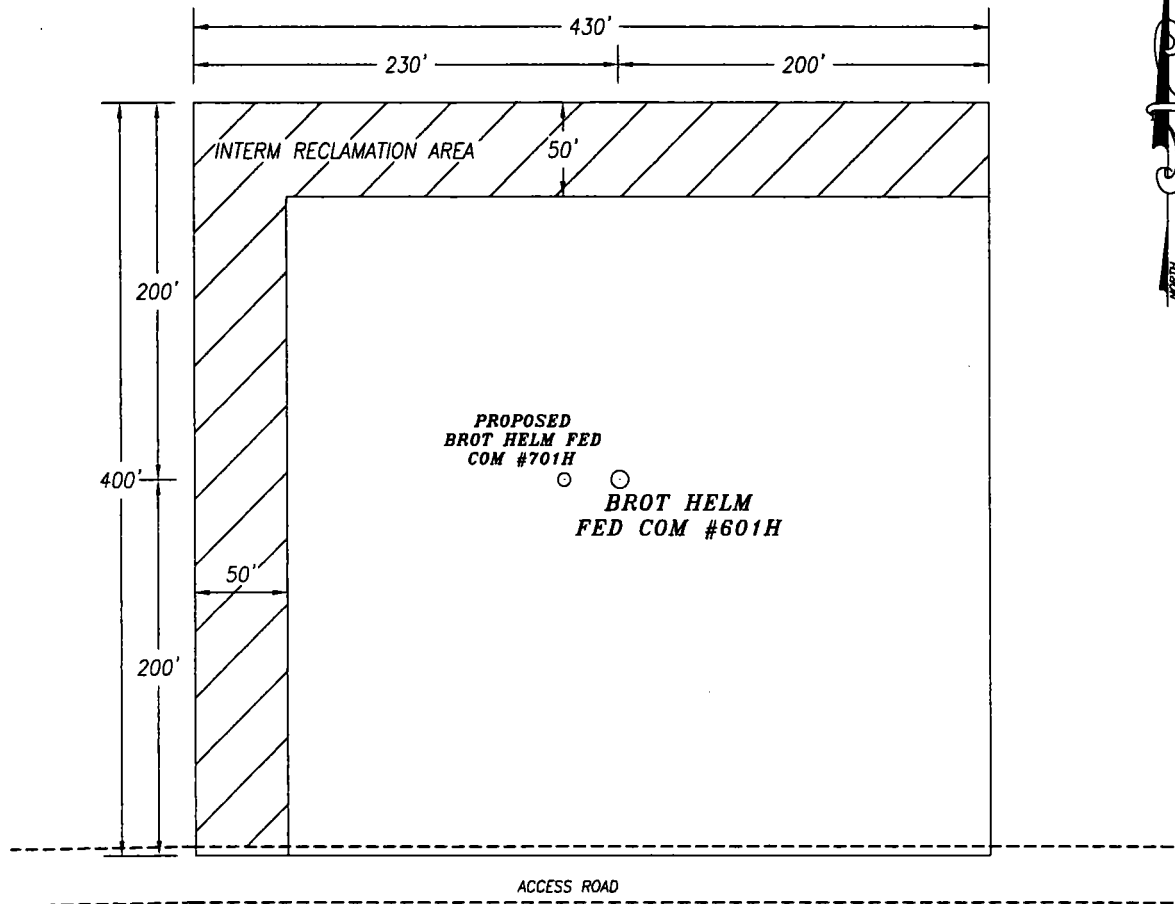
6/10/19
DATE

COG OPERATING, LLC

BROT HELM FEDERAL COM #601H WELL
LOCATED 250 FEET FROM THE NORTH LINE
AND 407 FEET FROM THE EAST LINE OF SECTION 35,
TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

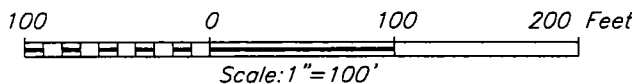
SURVEY DATE: DECEMBER 17, 2018	600
DRAFTING DATE: JUNE 10, 2019	PAGE: 1 OF 1
APPROVED BY: CH	DRAWN BY: CD
FILE: 19-1062	

RECLAMATION AND FACILITY DIAGRAM – PRODUCTION FACILITIES DIAGRAM
COG OPERATING, LLC
SECTION 35, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

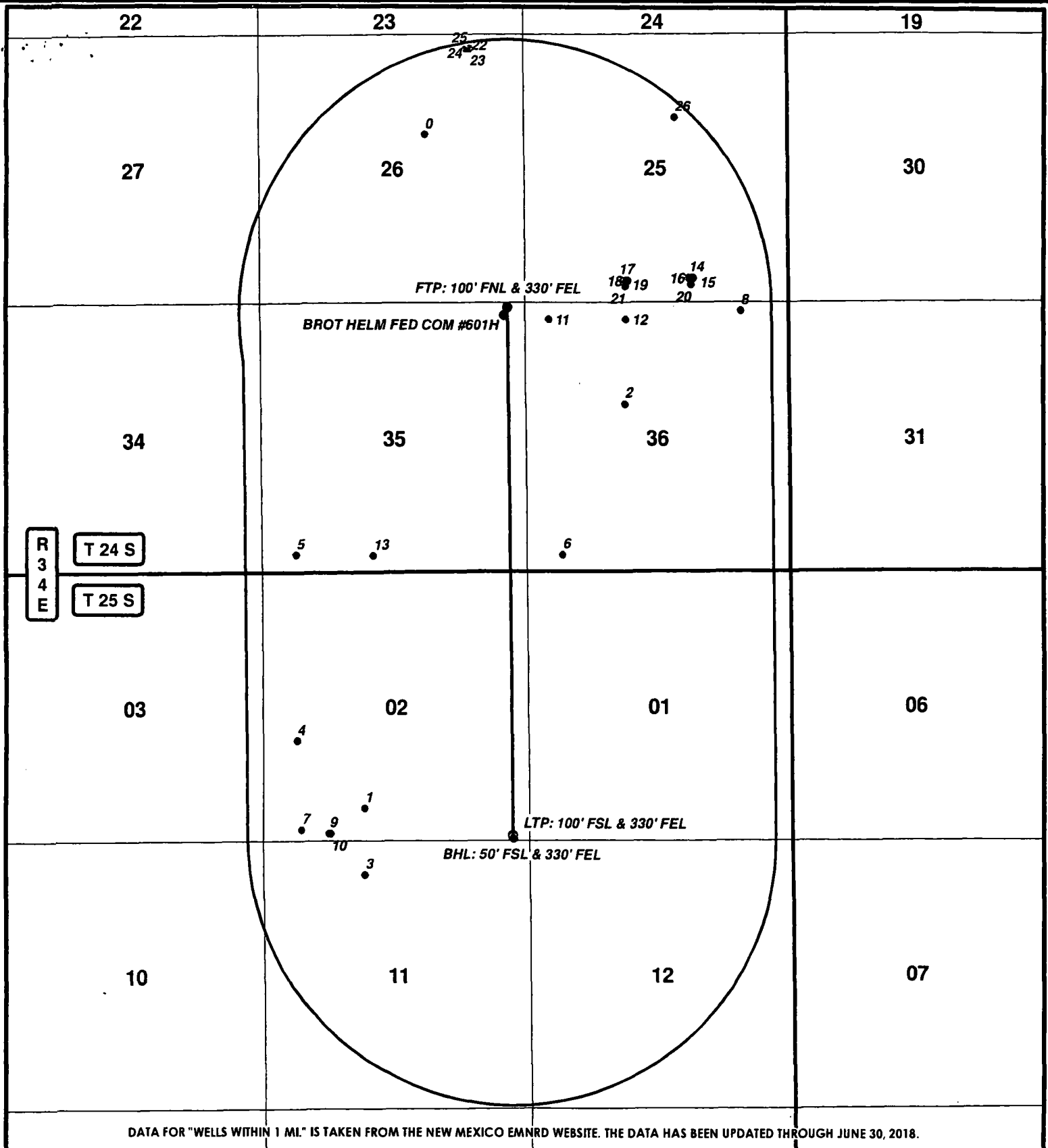


LEASE NAME WELL & WELL NUMBER: BROTH HELM FEDERAL COM #601H
NAD 83 NME
LATITUDE: 32.180560° N
LONGITUDE: 103.433556° W

HARCROW SURVEYING, LLC
2314 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 746-2158
c.harcrow@harcrowsurveying.com



COG OPERATING, LLC	
SURVEY DATE: DECEMBER 17, 2018	RECLAMATION
DRAFTING DATE: JUNE 10, 2019	PAGE: 1 OF 1
APPROVED BY: CH	DRAWN BY: CD
FILE: 19-1062	



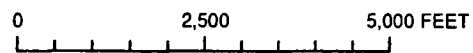
DATA FOR "WELLS WITHIN 1 MI." IS TAKEN FROM THE NEW MEXICO EMNRD WEBSITE. THE DATA HAS BEEN UPDATED THROUGH JUNE 30, 2018.

LEGEND

- WELL
- BOTTOMHOLE
- WELLS WITHIN 1 MI.
- 1 MI. BUFFER

BROT HELM FEDERAL COM #601H

SEC: 35	TWP: 24 S.	RGE: 34 E.	ELEVATION: 3420.2'
STATE: NEW MEXICO		COUNTY: LEA	250' FSL & 407' FEL
W.O. # 19-1062		LEASE: BROT HELM	SURVEY: N.M.P.M



0 0.175 0.35 0.7 Miles

1 IN = 2,500 FT

1 MILE MAP

6/10/2019

A.M.

CONCHO

COG OPERATING, LLC



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