

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: (505) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Erazos 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, NM 87505

HOBBS OCD
MAR 07 2016
RECEIVED

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-43109		² Pool Code 44500		³ Pool Name Maljamar; Yeso West	
⁴ Property Code 40481		⁵ Property Name FLAT HEAD FEDERAL COM			⁶ Well Number 25H
⁷ OGRID No. 229137		⁸ Operator Name COG OPERATING, LLC			⁹ Elevation 4088'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	14	17-S	32-E		1015'	NORTH	2310'	EAST	LEA

¹¹ 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	11	17-S	32-E		330'	NORTH	2310'	EAST	LEA

¹² Dedicated Acres 200	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

¹⁶

CORNER DATA
NAD 27 GRID - NM EAST

A: FND BRASS CAP 1913
N 665155.585 - E 680671.356

B: FND BRASS CAP 1913
N 667794.820 - E 680655.069

C: FND BRASS CAP 1913
N 670433.304 - E 680638.664

D: FND BRASS CAP 1913
N 673071.074 - E 680625.358

E: FND BRASS CAP 1913
N 675706.521 - E 680608.142

F: FND BRASS CAP 1913
N 675717.566 - E 683245.831

G: FND BRASS CAP 1913
N 675728.927 - E 685884.742

H: FND BRASS CAP 1913
N 673090.964 - E 685901.502

I: FND BRASS CAP 1913
N 670452.736 - E 685918.071

J: FND BRASS CAP 1913
N 667813.774 - E 685935.145

K: FND BRASS CAP
N 665173.959 - E 685951.421

L: FND BRASS CAP 1913
N 665164.657 - E 683311.554

M: FND. BC BENT "1913"
N 670431.693 - E 683273.227

GEODETIC DATA
NAD 27 GRID - NM EAST

SURFACE LOCATION
N 669419.6
E 683615.2
LAT: 32.838892° N
LONG: 103.735514 W

BOTTOM LOCATION
N 675389.1
E 683577.4

Producing Area
Project Area

Estimated Completed Interval:
990 FEET
2310 FEET

¹⁷ 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 granted by the division.

[Signature]
3-3-15
Date

Kelly J. Holly
Printed Name

kholly@concho.com
E-mail Address

¹⁸ 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.

5/14/13
Date of Survey

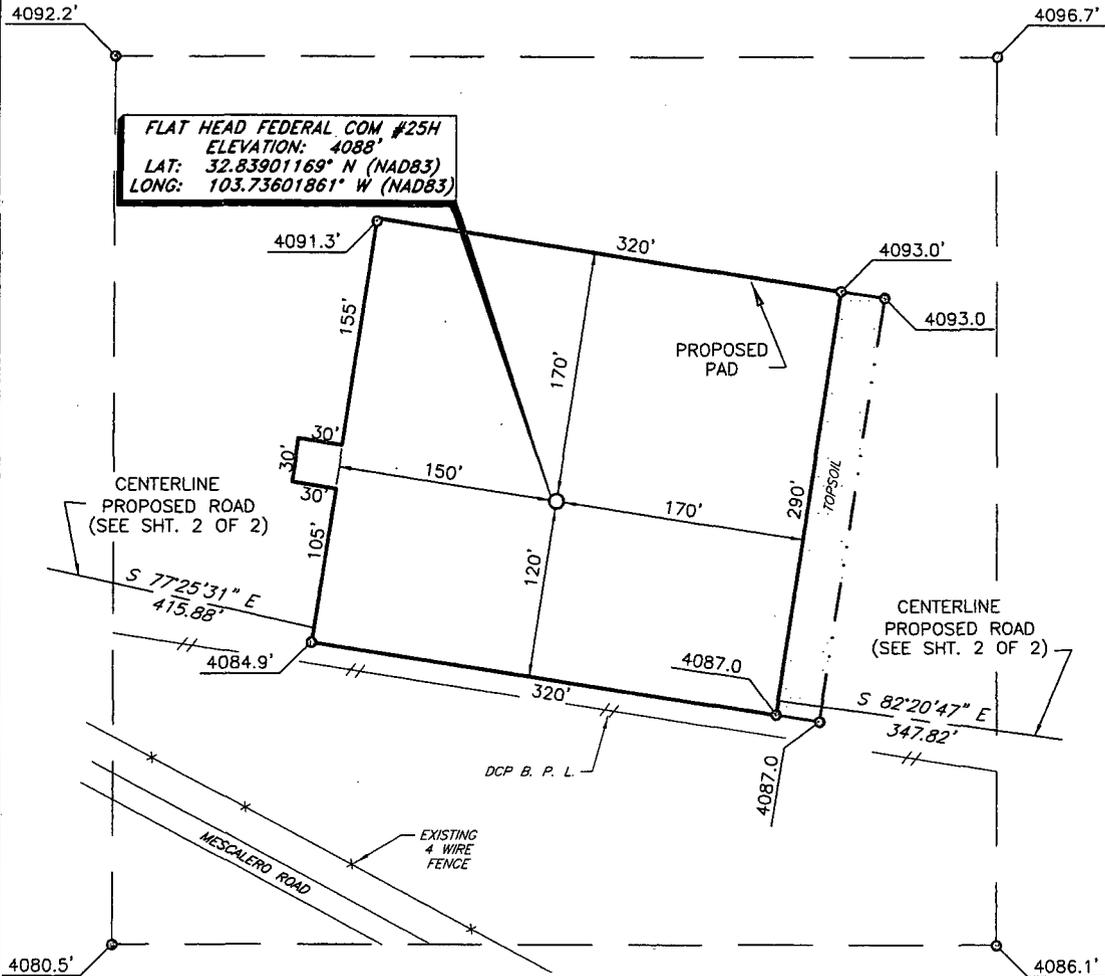
[Signature]
Signature and Seal of Professional Surveyor

19680
Certificate Number

Revised: 2/4/15

COG OPERATING, LLC

Flat Head Federal Com 25H
 (1015' FNL & 2310' FEL)
 Section 14, T-17-S, R-32-E,
 N. M. P. M., Lea Co., New Mexico



FLAT HEAD FEDERAL COM #25H
 ELEVATION: 4088'
 LAT: 32.83901169° N (NAD83)
 LONG: 103.73601861° W (NAD83)

DIRECTIONS TO LOCATION

From the intersection of L-126 (Maljamar Rd.) and L-125 (Mescalero Rd):
 Go Southeast on Mescalero Rd. approx. 1.5 mi;
 Turn Left and go North thru the gate to the proposed road;
 Follow road survey approx. 0.1 mi East to

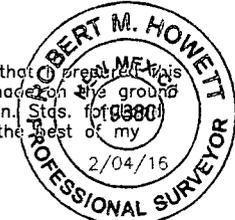


SCALE: 1" = 100'
 0 50 100

BEARINGS ARE
 NAD 83 - NM EAST
 DISTANCES ARE
 GROUND.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I present this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stas. of 1980 Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

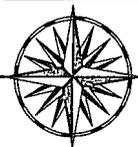
Robert M. Howett
 Robert M. Howett NM PS 19680



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1	Well Name	2/4/15
NO.	REVISION	DATE
JOB NO.: LS130117		
DWG. NO.: 130117PAD		

PROSPERITY CONSULTANTS, LLC



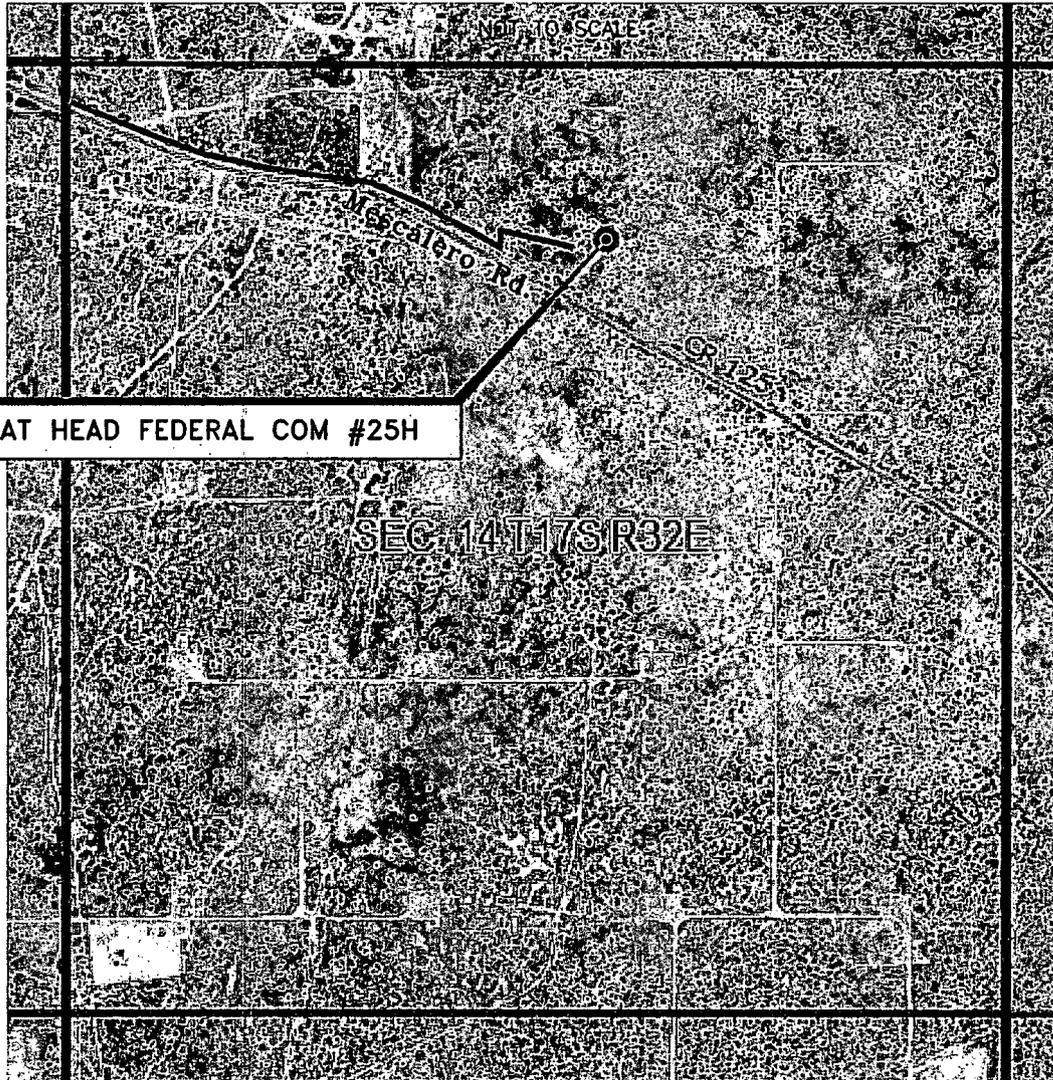
2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

o (512) 882-2037 f (512) 251-2518

SCALE: 1" = 100'
DATE: 6/14/13
SURVEYED BY: GB/SM
DRAWN BY: DR
APPROVED BY: LWB
SHEET : 1 OF 2

VICINITY MAP

NOT TO SCALE



*SECTION 14, TWP. 17 SOUTH, RGE. 32 EAST,
N. M. P. M., LEA COUNTY, NEW MEXICO*

OPERATOR: COG Operating, LLC
 LEASE: Flat Head Federal Com
 WELL NO.: 25H

LOCATION: 1015' FNL & 2310' FEL
 ELEVATION: 4088'

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1	Well Name	2/4/15
NO.	REVISION	DATE
JOB NO.: LS130117		
DWG. NO.: 130117VM		

PROSPERITY CONSULTANTS, LLC



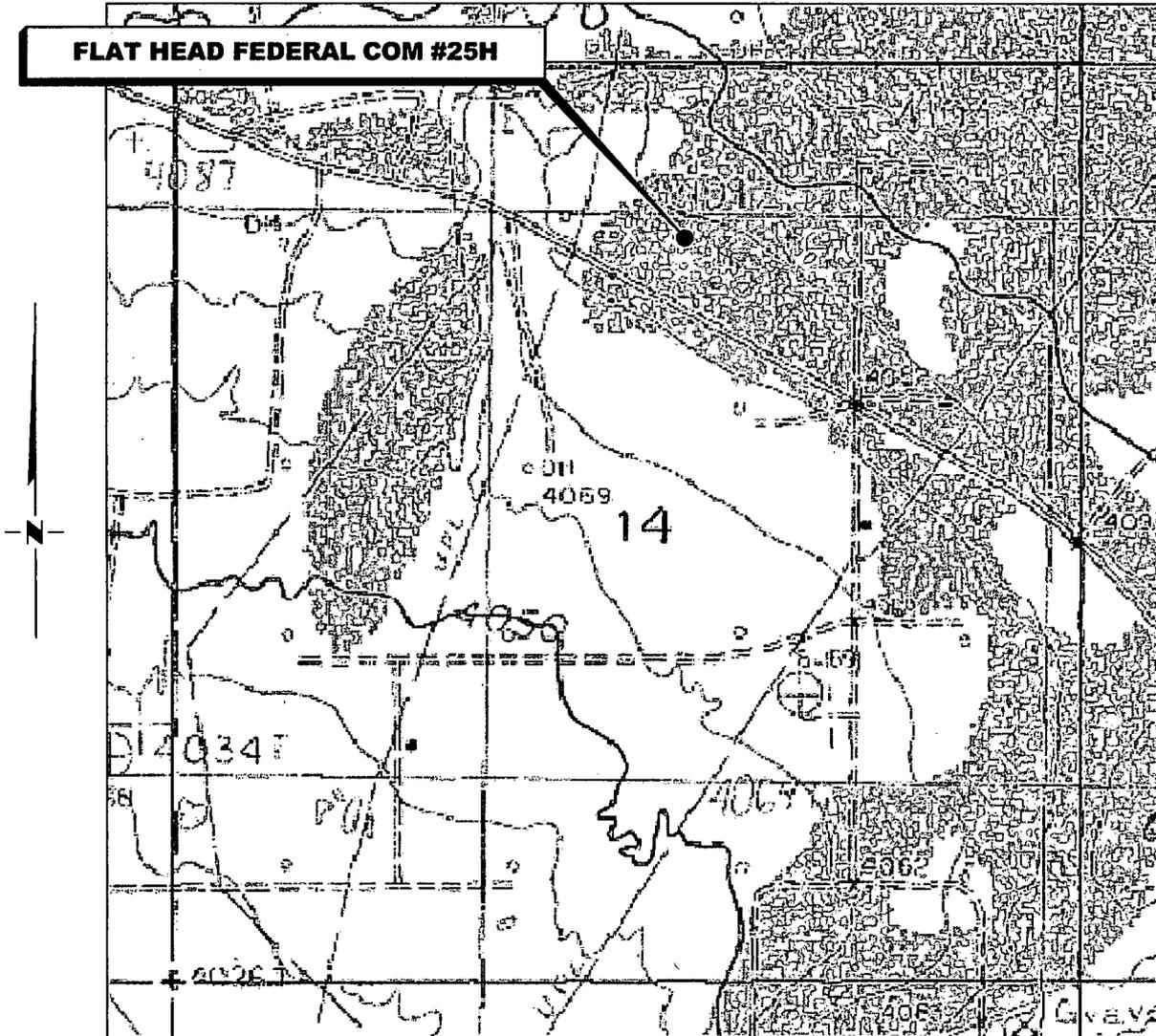
2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

o (512) 992-2087 f (512) 251-2518

SCALE: N. T. S.
DATE: 6/14/13
SURVEYED BY: GB/SM
DRAWN BY: DR
APPROVED BY: LWB
SHEET : 1 OF 1

LOCATION VERIFICATION MAP

FLAT HEAD FEDERAL COM #25H



*SECTION 14, TWP. 17 SOUTH, RGE. 32 EAST,
N. M. P. M., LEA COUNTY, NEW MEXICO*

OPERATOR: COG Operating, LLC
 LEASE: Flat Head Federal Com
 WELL NO.: 25H
 ELEVATION: 4088'

LOCATION: 1015' FNL & 2310' FEL
 CONTOUR INTERVAL: 10'
 USGS TOPO. SOURCE MAP:
Maljamar, NM (Prov. Ed. 1985)

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1	Well Name	2/4/15
NO.	REVISION	DATE
JOB NO.: LS130117		
DWG. NO.: 130117LVM		

PROSPERITY CONSULTANTS, LLC



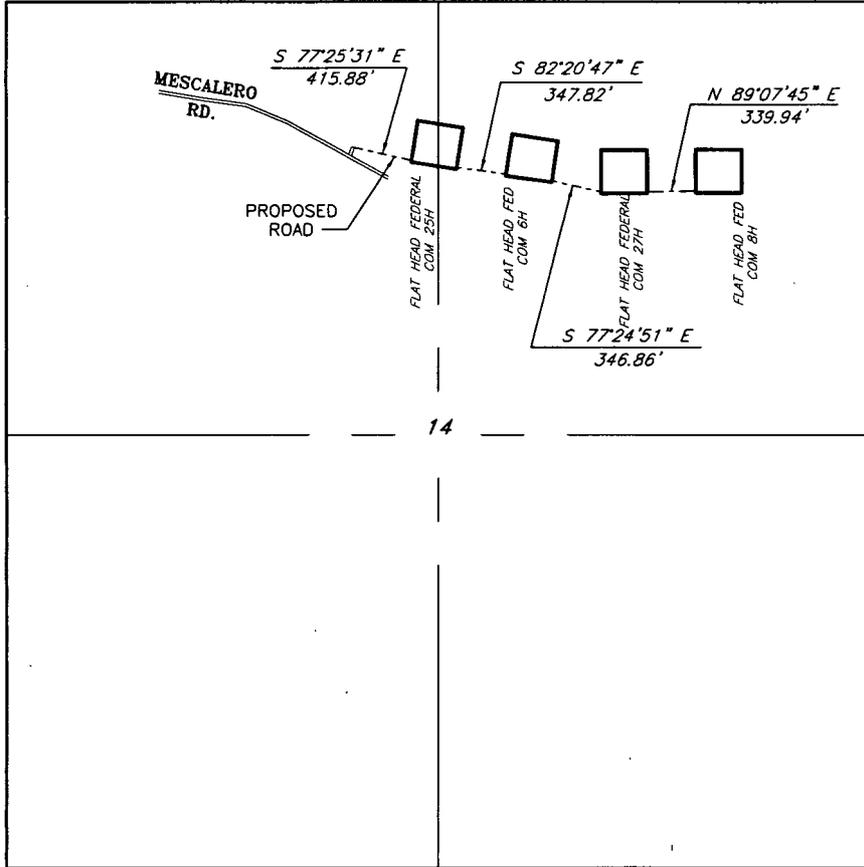
2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

o (512) 992-2087 f (512) 251-2518

SCALE: 1" = 1000'
DATE: 6/14/13
SURVEYED BY: GB/SM
DRAWN BY: DR
APPROVED BY: LWB
SHEET : 1 OF 1

COG OPERATING, LLC

Flat Head Federal Com 25H
 (1015' FNL & 2310' FEL)
 Section 14, T-17-S, R-32-E,
 N. M. P. M., Lea Co., New Mexico



SCALE: 1" = 100'
 0 50 100
 BEARINGS ARE
 NAD 27 - NM EAST
 DISTANCES ARE
 GROUND.

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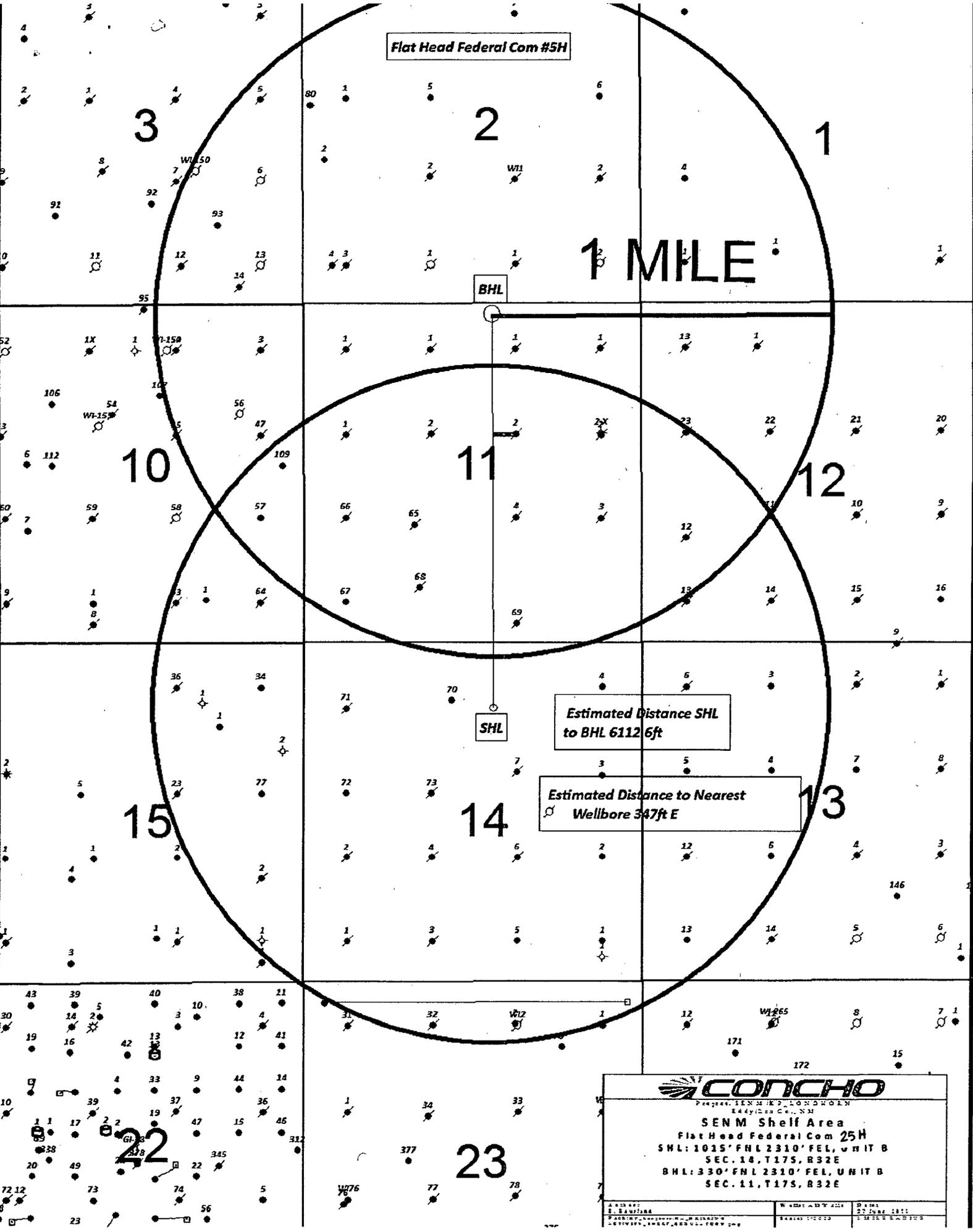
1	Well Name	2/4/15
NO.	REVISION	DATE
JOB NO.: LS130117		
DWG. NO.: 130117PAD2		

PROSPERITY CONSULTANTS, LLC



SCALE: 1" = 1000'
DATE: 6/14/13
SURVEYED BY: GB/SM
DRAWN BY: LWB
APPROVED BY: LWB
SHEET : 2 OF 2

Flat Head Federal Com #5H



1 MILE

BHL

SHL

Estimated Distance SHL to BHL 6112 6ft

Estimated Distance to Nearest Wellbore 347ft E

CONCHO
 Progress, SENM, IKD, LONDON
 4444th St, NM

SENM Shelf Area
 Flat Head Federal Com 25H
 SHL: 1015' FHL 2310' FEL, UNIT B
 SEC. 14, T17S, R32E
 BHL: 330' FHL 2310' FEL, UNIT B
 SEC. 11, T17S, R32E

4444th St	W 4444th St	D 4444th St
S. BAUFMAN	BAUFMAN	27 June 1971
4444th St	4444th St	4444th St

Water Well Map

Legend

RA11684

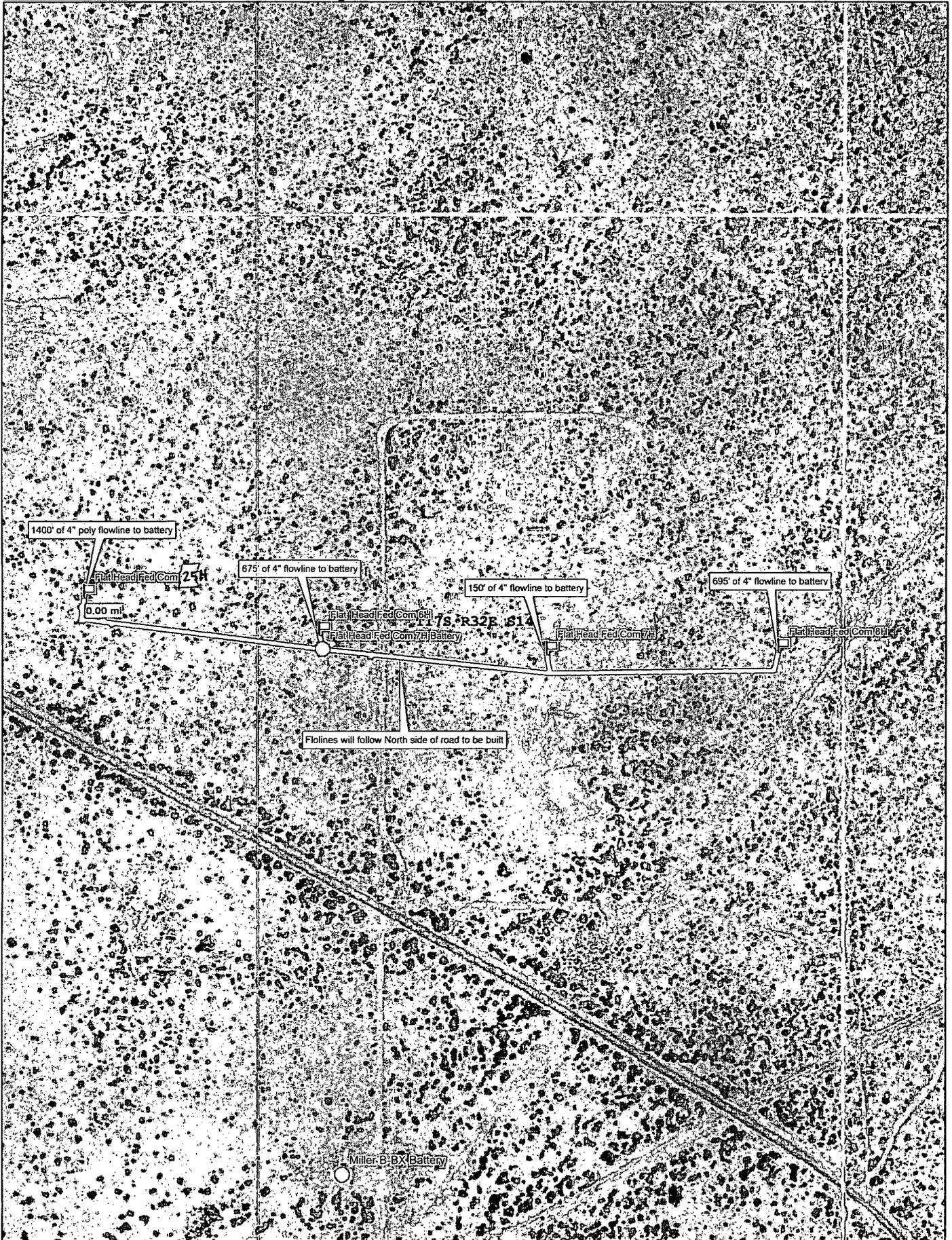
32.843961, -103.735745

RA11684 pod2

RA11684 pod3

011
17S32E





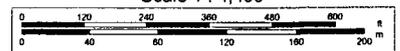
Data use subject to license.

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www.delorme.com



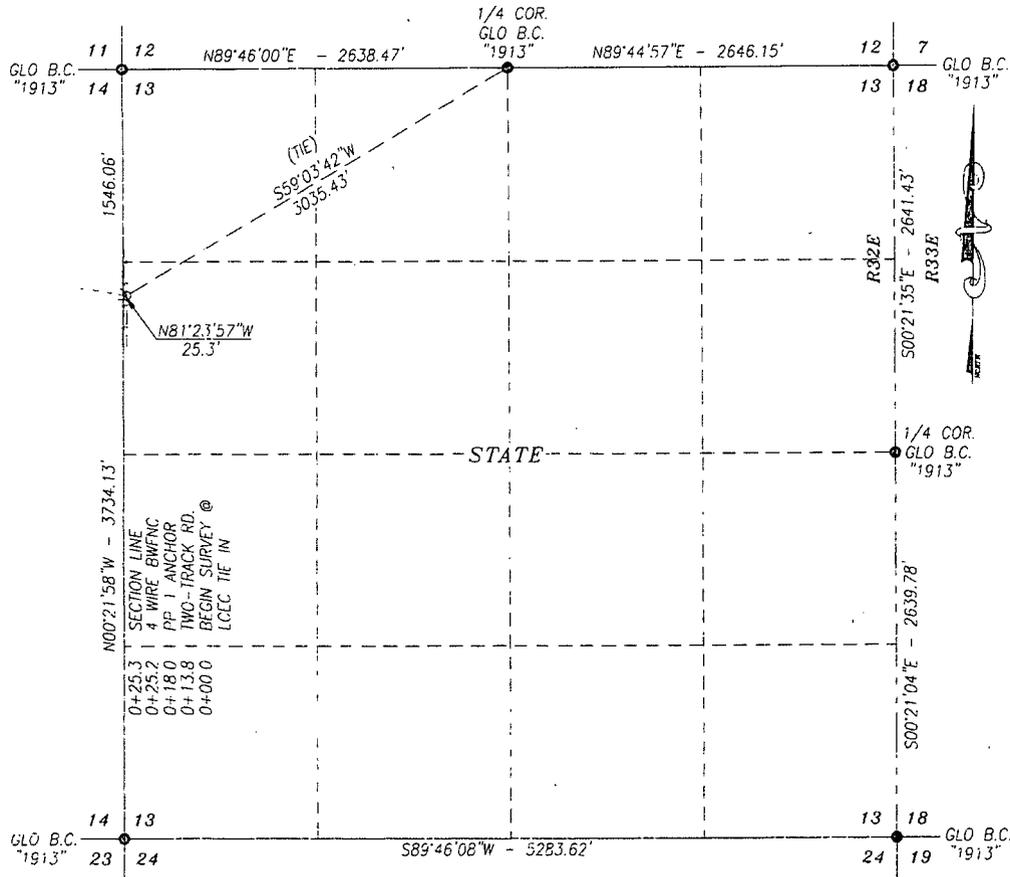
Scale 1 : 4,400



1" = 366.7 ft

Data Zoom 15-5

SECTION 13, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 13, TOWNSHIP 17 SOUTH, RANGE 32 EAST, NMPM, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT IN THE SW/4 NW/4 OF SAID SECTION, WHICH LIES S59°03'42\"/>

SAID STRIP OF LAND BEING 25.3 FEET OR 1.53 RODS IN LENGTH, CONTAINING 0.017 ACRES MORE OR LESS AND BEING ENTIRELY LOCATED IN THE SW/4 NW/4 OF SAID SECTION.

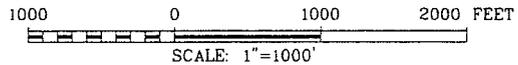
BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES

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, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



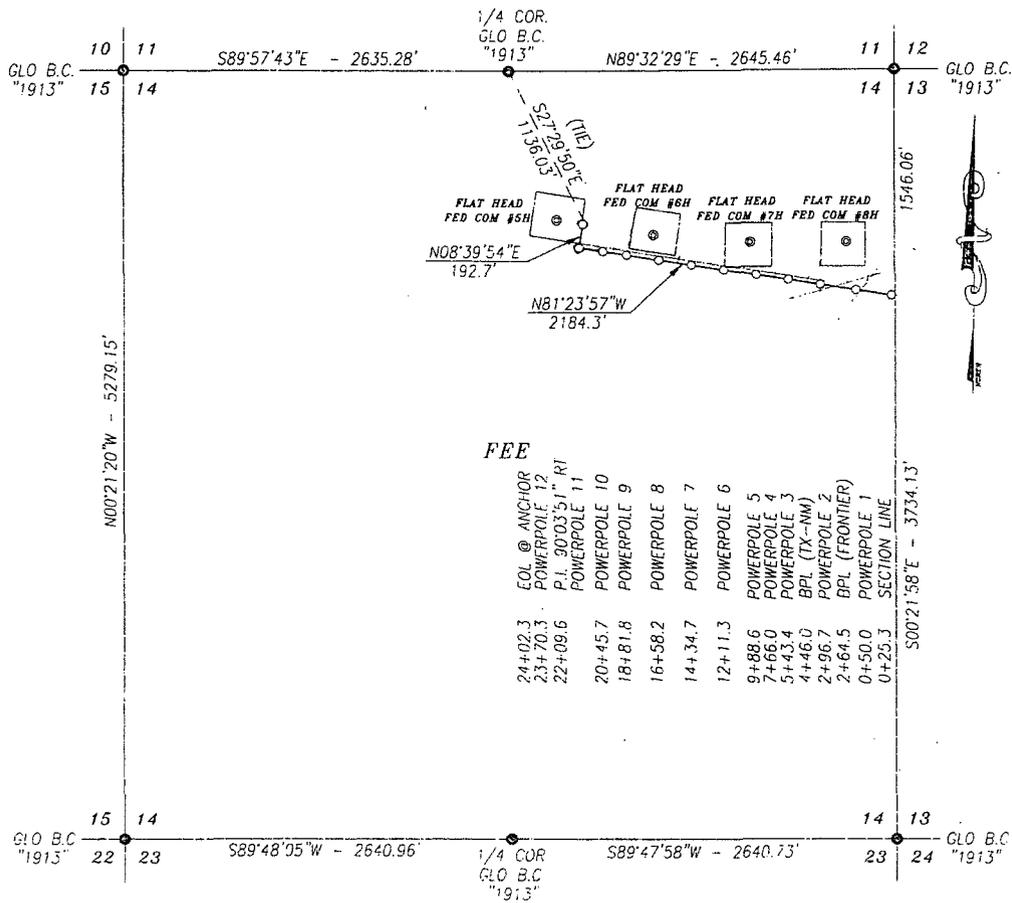
Chad Harcrow
CHAD HARCROW N.M.P.S. NO. 17777
8/12/14
DATE

HARCROW SURVEYING, LLC
2314 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 513-2570 FAX: (575) 746-2158
chad_harcrow77@yahoo.com



COG OPERATING, LLC	
SURVEY OF A PROPOSED POWERLINE LOCATED IN SECTION 13, TOWNSHIP 17 SOUTH, RANGE 32 EAST, LEA COUNTY, NMPM, NEW MEXICO	
SURVEY DATE: JULY 28, 2014	MAIN LINE
DRAFTING DATE: AUGUST 3, 2014	PAGE 1 OF 2
APPROVED BY: CH	DRAWN BY: SP FILE: 14-684

SECTION 14, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 2441.0 FEET OR 147.94 RODS OR 0.462 MILES IN LENGTH CROSSING FEE LAND IN SECTION 14, TOWNSHIP 17 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY; WITH ANCHORS EXTENDING 32 FEET FURTHER AND LEFT AT POWERPOLE 11; WHICH HAVE BEEN ACCOUNTED FOR IN FOOTAGES, RODS, AND ACREAGES.

BASIS OF BEARING:

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

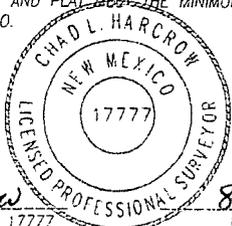
HARCROW SURVEYING, LLC

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PH: (575) 513-2570 FAX: (575) 746-2158
chad_harcrow77@yahoo.com



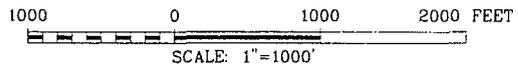
CERTIFICATION

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, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



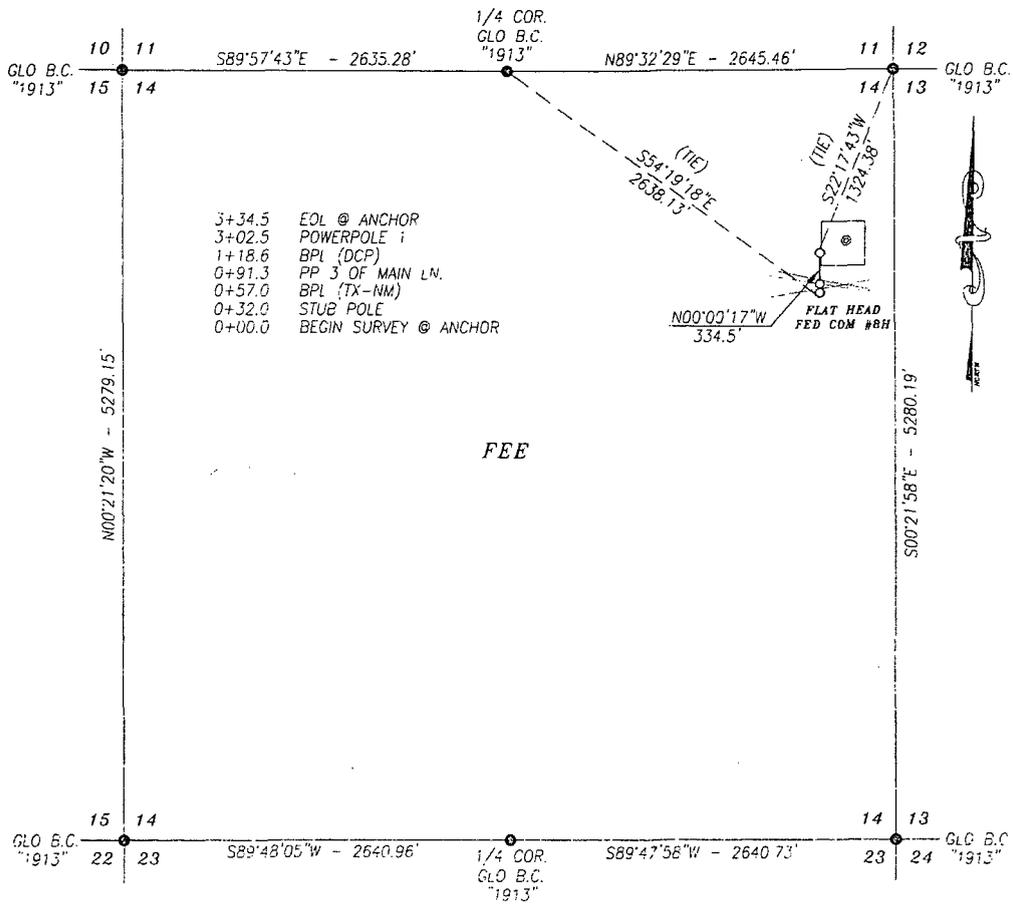
Chad Harcrow
CHAD HARCROW N.M.P.S. NO. 17777

8/12/14
DATE



COG OPERATING, LLC	
SURVEY OF A PROPOSED POWERLINE LOCATED IN SECTION 14, TOWNSHIP 17 SOUTH, RANGE 32 EAST, LEA COUNTY, NMPM, NEW MEXICO	
SURVEY DATE: JULY 28, 2014	MAIN LINE
DRAFTING DATE: AUGUST 3, 2014	PAGE 2 OF 2
APPROVED BY: CH	DRAWN BY: SP FILE: 14-684

SECTION 14, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

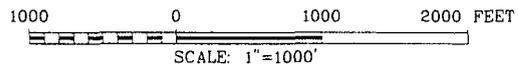
A STRIP OF LAND 30.0 FEET WIDE AND 334.5 FEET OR 20.27 RODS OR 0.063 MILES IN LENGTH CROSSING FEE LAND IN SECTION 14, TOWNSHIP 17 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES

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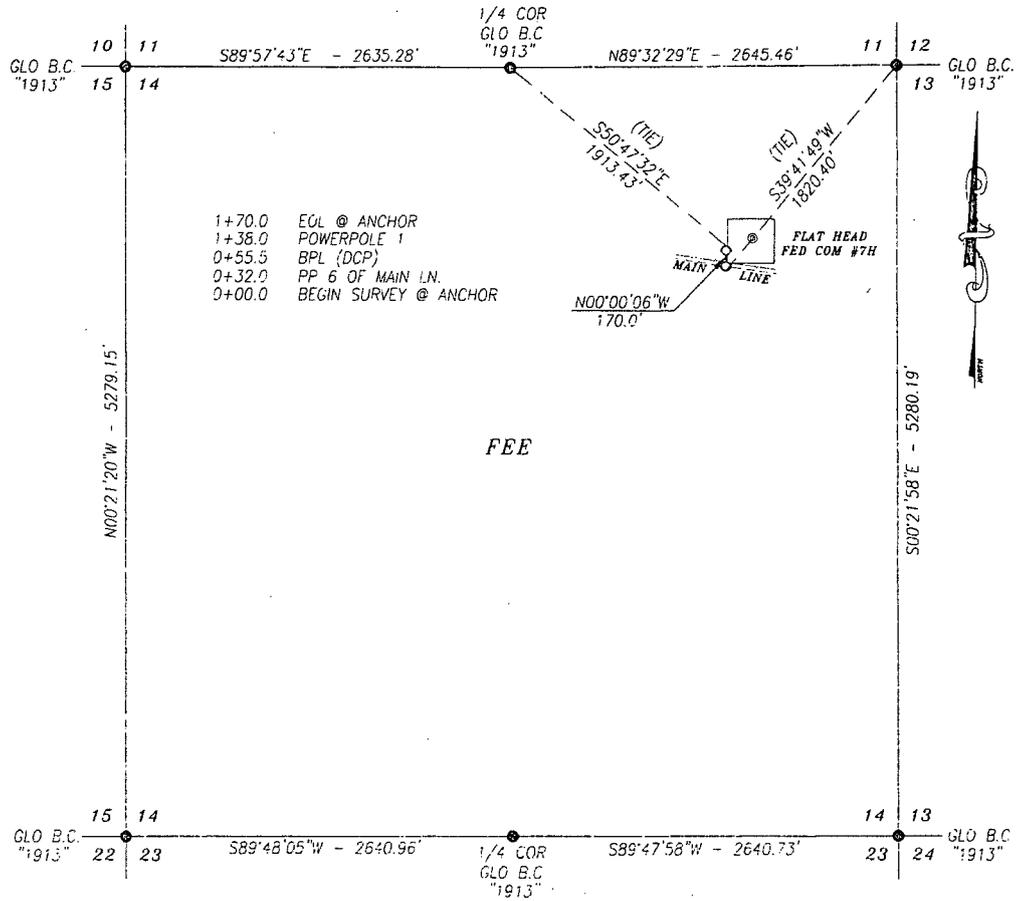
CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



Chad Harcrow
CHAD HARCROW N.M.P.S. NO. 17777 DATE 8/12/14

COG OPERATING, LLC	
SURVEY OF A PROPOSED POWERLINE LOCATED IN SECTION 14, TOWNSHIP 17 SOUTH, RANGE 32 EAST, LEA COUNTY, NMPM, NEW MEXICO	
SURVEY DATE: JULY 28, 2014	LATERAL 1
DRAFTING DATE: AUGUST 3, 2014	PAGE 1 OF 1
APPROVED BY: CH	DRAWN BY: SP
	FILE: 14-684

SECTION 14, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

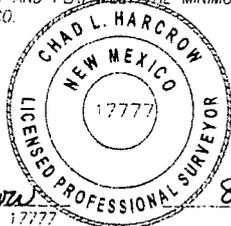
A STRIP OF LAND 30.0 FEET WIDE AND 170.0 FEET OR 10.30 RODS OR 0.032 MILES IN LENGTH CROSSING FEE LAND IN SECTION 14, TOWNSHIP 17 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES

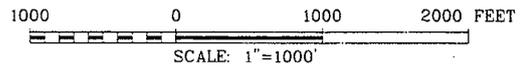
HARCROW SURVEYING, LLC
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chad_harcrow77@yahoo.com



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, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

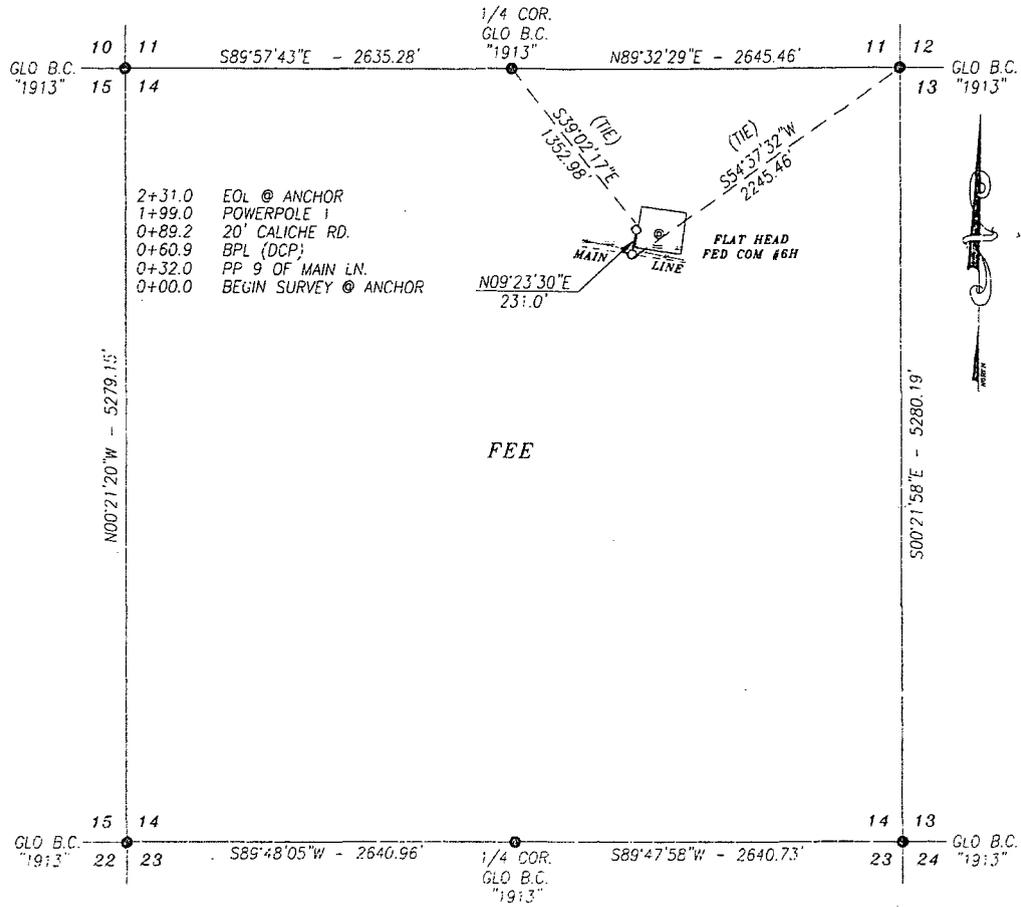


Chad Harcrow
CHAD HARCROW N.M.P.S. NO 17777 DATE 8/12/14



COG OPERATING, LLC	
SURVEY OF A PROPOSED POWERLINE LOCATED IN SECTION 14, TOWNSHIP 17 SOUTH, RANGE 32 EAST, LEA COUNTY, NMPM, NEW MEXICO	
SURVEY DATE: JULY 28, 2014	LATERAL 2
DRAFTING DATE: AUGUST 3, 2014	PAGE 1 OF 1
APPROVED BY: CH	DRAWN BY: SP FILE: 14-684

SECTION 14, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

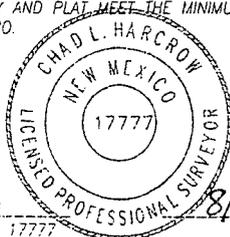
A STRIP OF LAND 30.0 FEET WIDE AND 231.0 FEET OR 14.00 RODS OR 0.044 MILES IN LENGTH CROSSING FEE LAND IN SECTION 14, TOWNSHIP 17 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

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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, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

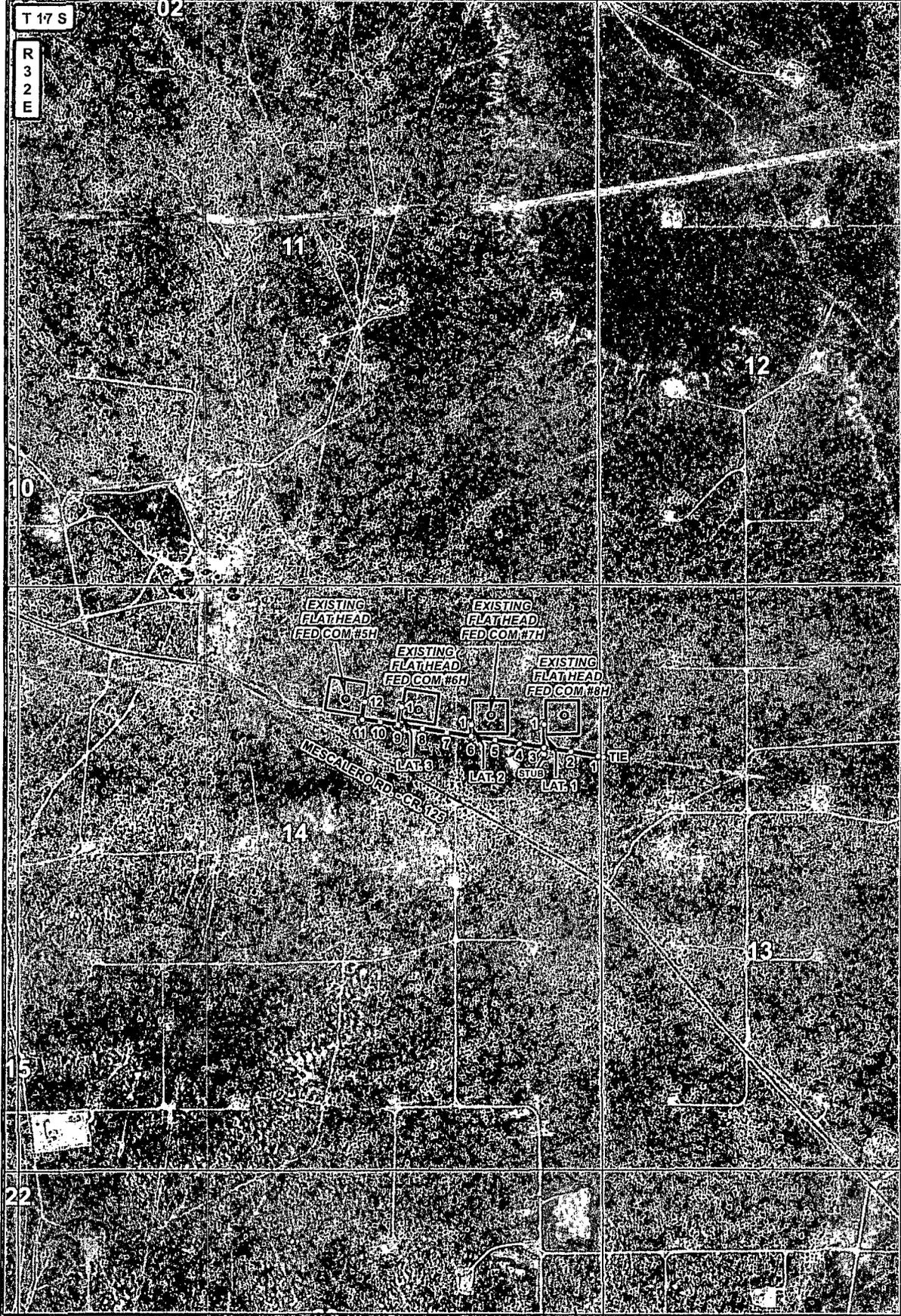


Chad Harcrow
CHAD HARCROW N.M.P.S. NO. 17777

8/12/14
DATE

1000 0 1000 2000 FEET
SCALE: 1"=1000'

COG OPERATING, LLC	
SURVEY OF A PROPOSED POWERLINE LOCATED IN SECTION 14, TOWNSHIP 17 SOUTH, RANGE 32 EAST, LEA COUNTY, NMPM, NEW MEXICO	
SURVEY DATE: JULY 28, 2014	LATERAL 3
DRAFTING DATE: AUGUST 3, 2014	PAGE 1 OF 1
APPROVED BY: CH	DRAWN BY: SP FILE: 14-684



T 17 S

02

R 32 E

11

12

14

13

22

LEGEND

- ANCHOR
- POWERPOLE
- LCEC LINE
- LATERAL LINE
- MAIN POWERLINE
- WELL
- WELLPAD

FLAT HEAD POWERLINE

SECTIONS: 13 & 14 TOWNSHIP: 17 S. RANGE: 32 E.
 STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M
 W.O. # 14-684 LEASE: FLAT HEAD FED COM



POWERLINE OVERVIEW IMAGERY 08/03/2014 SIP

