

DEC 03 2014

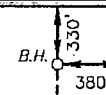
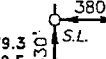
Revised August 1, 2011

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

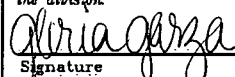
Submit one copy to appropriate
District Office

□ AMENDED REPORT

N 414520.5 E 751542.0	N 414541.9 E 754227.5	PROPOSED BOTTOM HOLE LOCATION Lat - N 32°08'12.79" Long - W 103°38'17.85" NMSPCE- N 414229.8 E 756473.7 (NAD-83)	
NMNM015912			
N 411879.0 E 751541.2	SURFACE LOCATION Lat - N 32°07'26.83" Long - W 103°38'17.80" NMSPCE- N 409584.9 E 756507.8 (NAD-83)		
NMLC0071986			
N 409241.2 E 751538.0	N 409248.5 E 754211.5		N 409279.3 E 756600.5

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 entered by the division.


 Signature

12/13/13
 Date

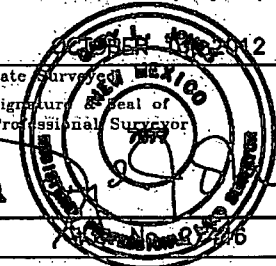
Gloria Garza
 Printed Name
 ggarza@cimarex.com
 Email Address

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.

October 12, 2012

Date Surveyed



Seal of
 Professional Surveyor

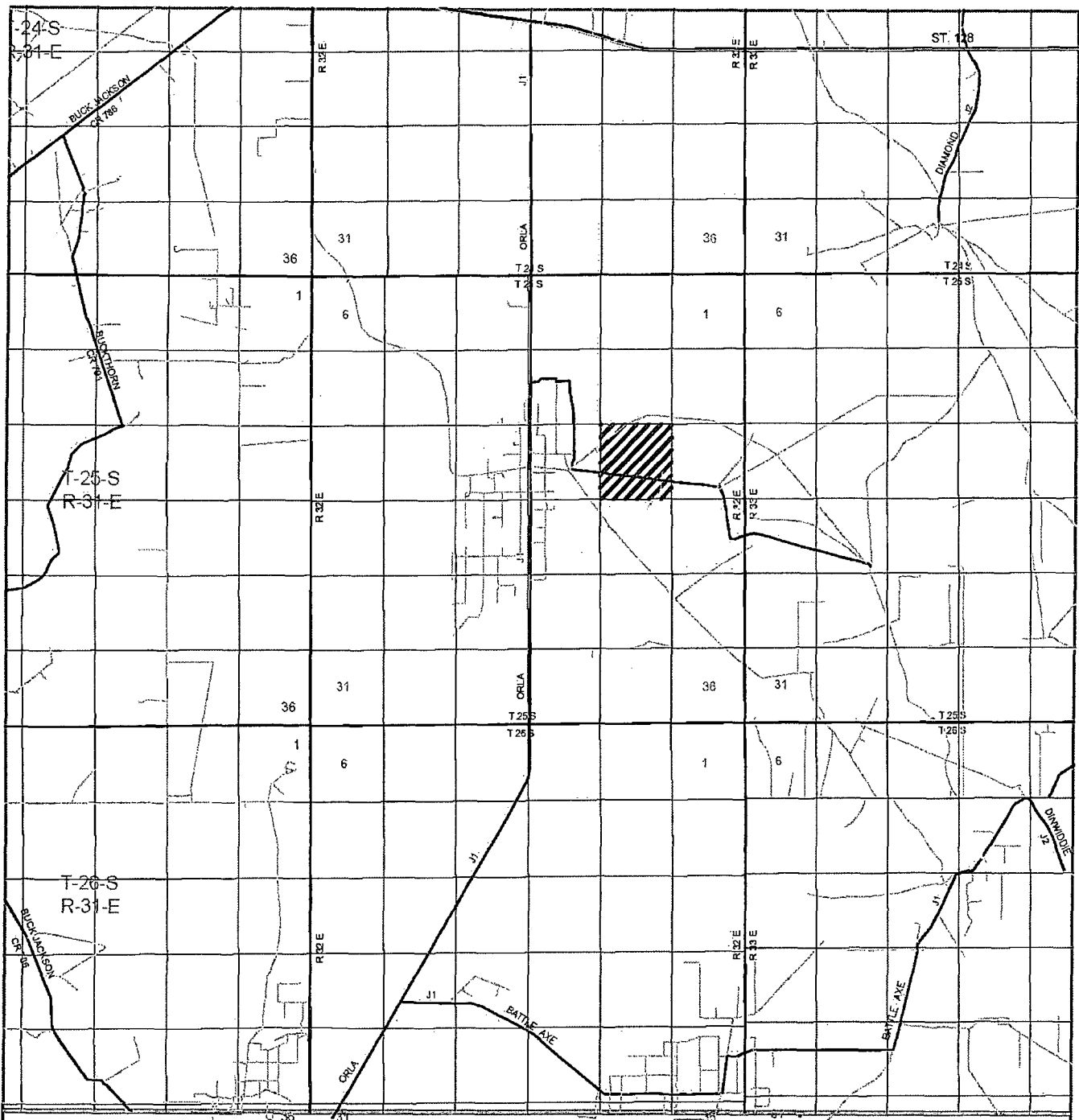
Certificate No.

Gary L. Jones

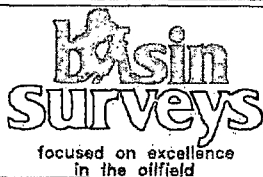
7977

BASIN SURVEYS

DEC 04 2014



FUGGLES 14 FEDERAL #1H
 Located 330' FSL and 380' FEL
 Section 14, Township 25 South, Range 32 East,
 N.M.P.M., Lea County, New Mexico.



P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
 basinsurveys.com

W.O. Number: DAJ 27446

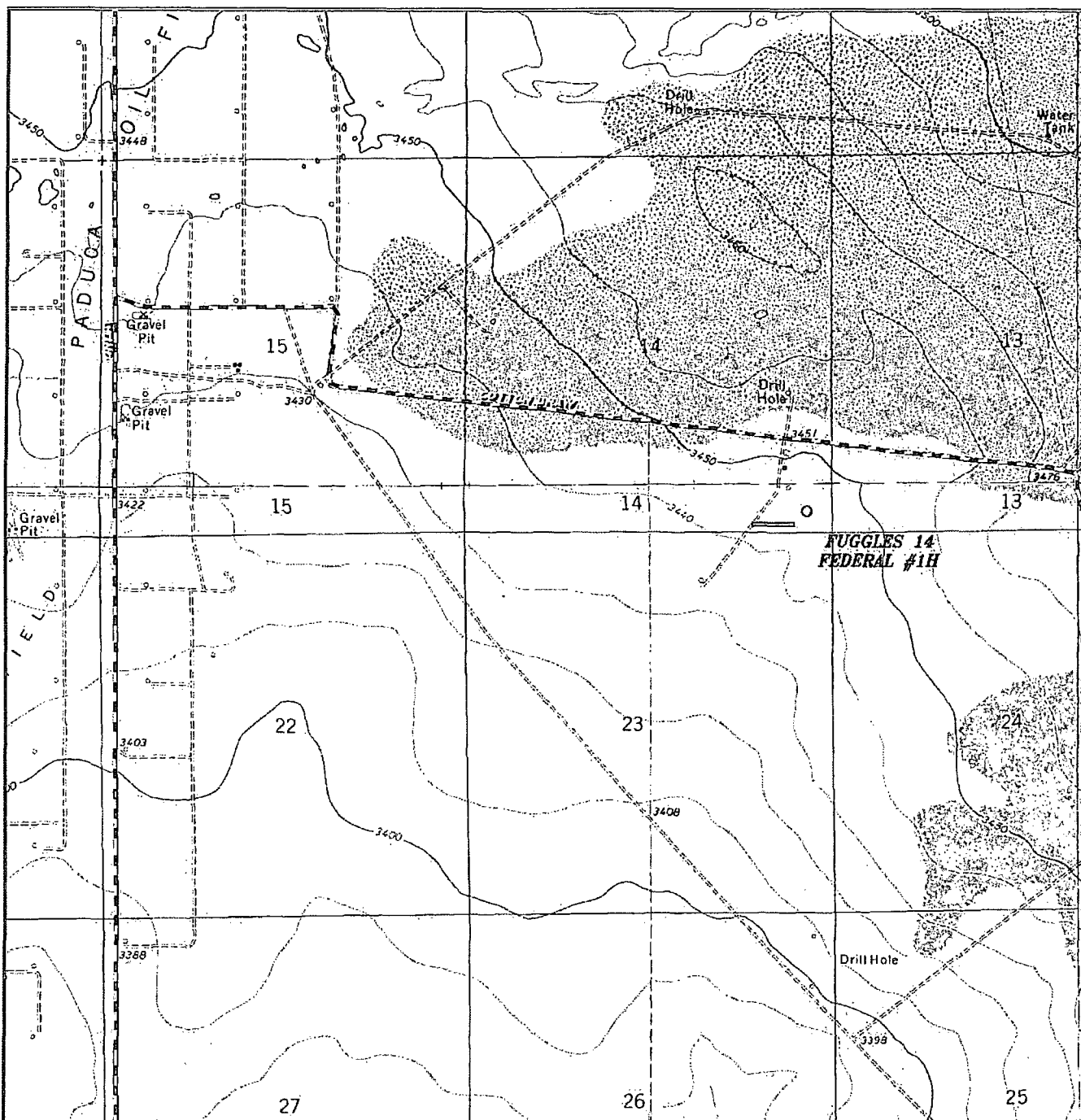
Survey Date: 10-05-2012

Scale: 1" = 2 Miles

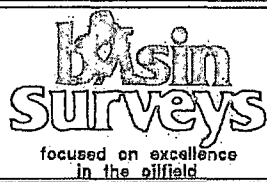
Date: 10-19-2012

**CIMAREX
 ENERGY CO.**

Exhibit B



FUGGLES 14 FEDERAL #1H
 Located 330' FSL and 380' FEL
 Section 14, Township 25 South, Range 32 East,
 N.M.P.M., Lea County, New Mexico.



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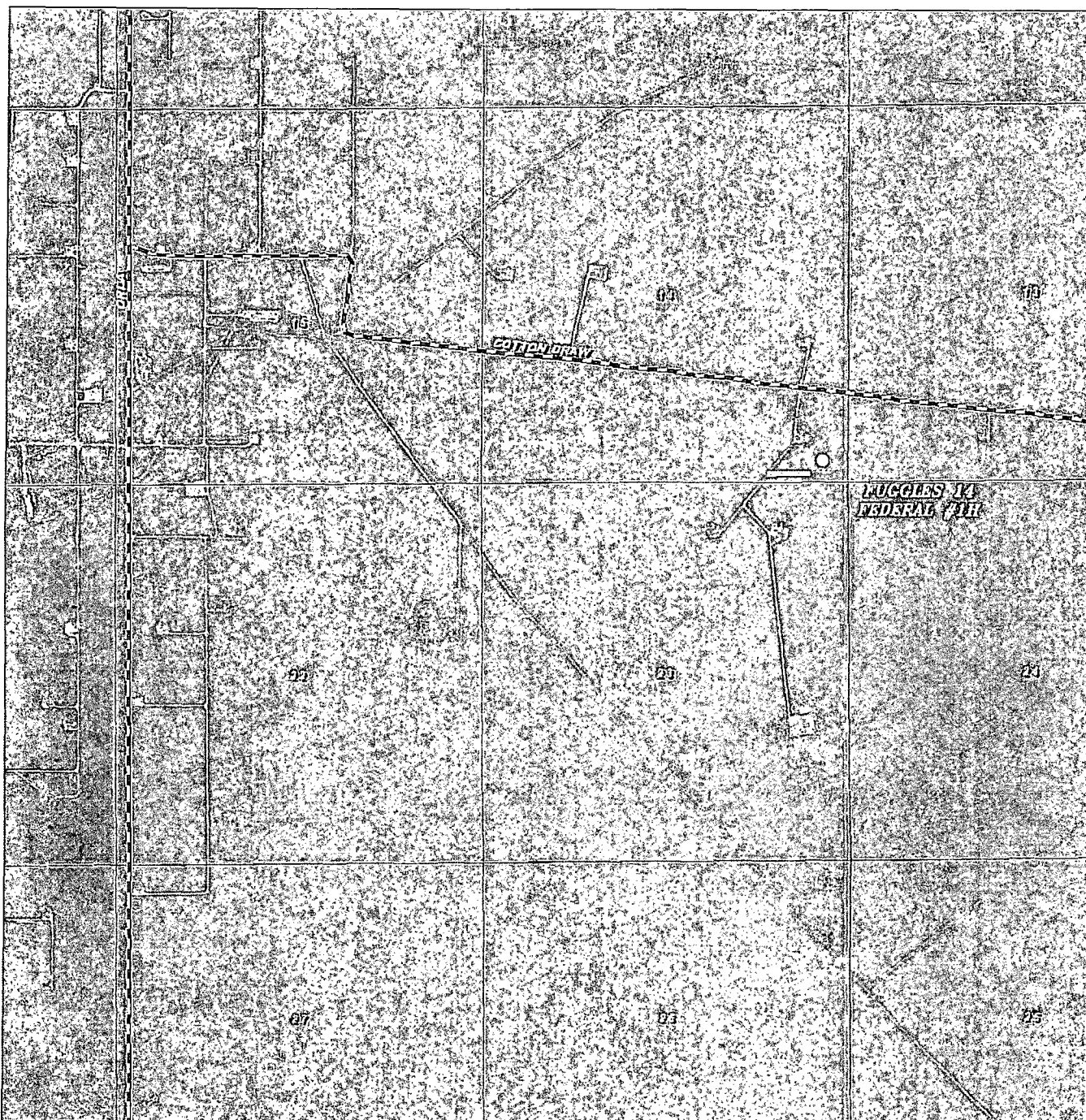
Survey Date: 10-05-2012

Scale: 1" = 2000'

Date: 10-19-2012

**CIMAREX
 ENERGY CO.**

Exhibit C



FUGGLES 14 FEDERAL #1H
 Located 330' FSL and 380' FEL
 Section 14, Township 25 South, Range 32 East,
 N.M.P.M., Lea County, New Mexico.

basin
surveys
 focused on excellence
 in the oilfield

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 1120 N. West County Rd.
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W.O. Number: DAJ 27446

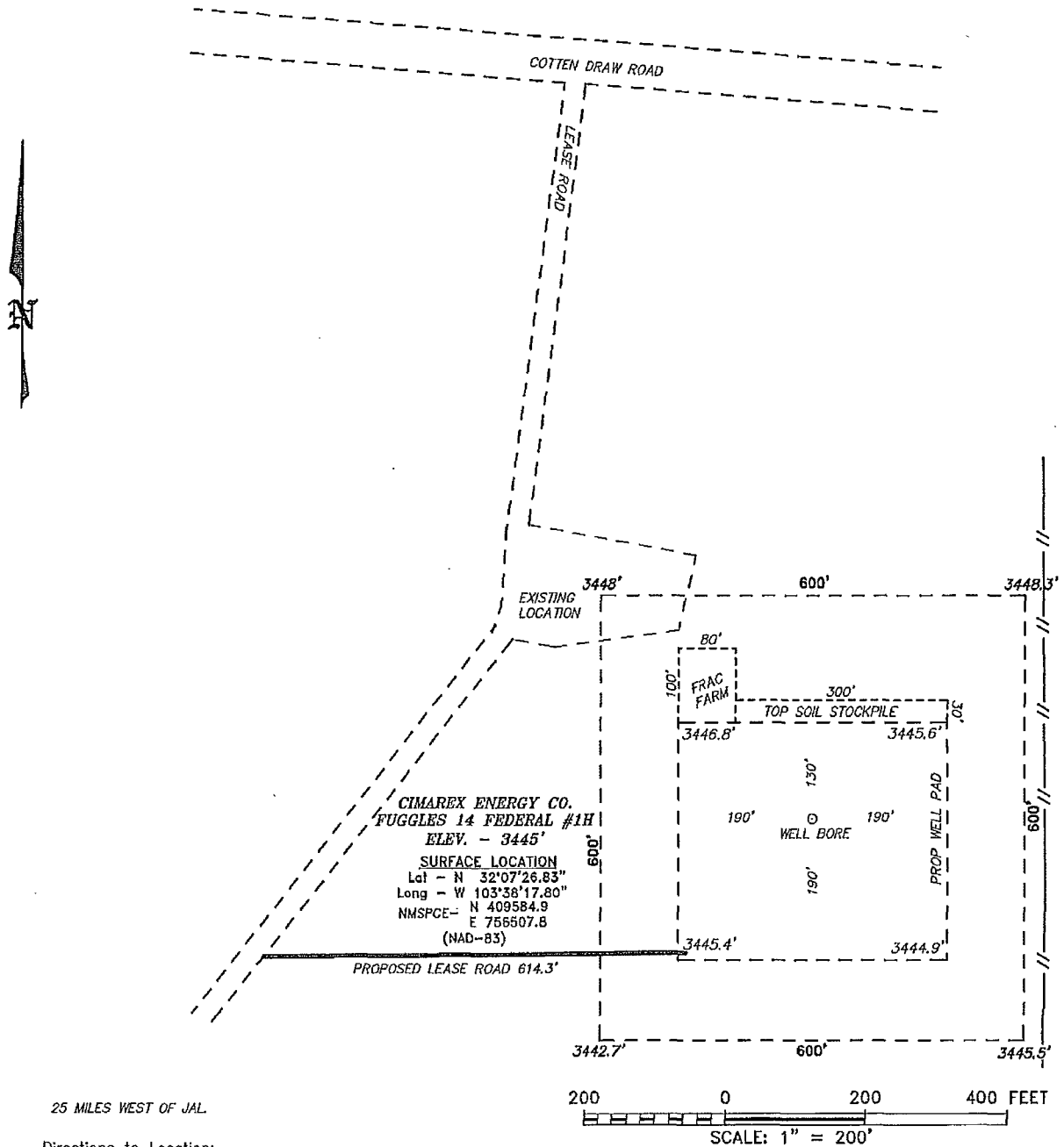
Scale: 1" = 2000'

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND

CIMAREX
ENERGY CO.

Exhibit C-3

SECTION 14, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 27446 Drawn By: D. JONES

Date: 10-19-2012 Disk: DAJ 27446

CIMAREX ENERGY CO.

REF: FUGGLES 14 FEDERAL #1H / WELL PAD TOPO

THE FUGGLES 14 FEDERAL #3 LOCATED 330'

FROM THE SOUTH LINE AND 380' FROM THE EAST LINE OF

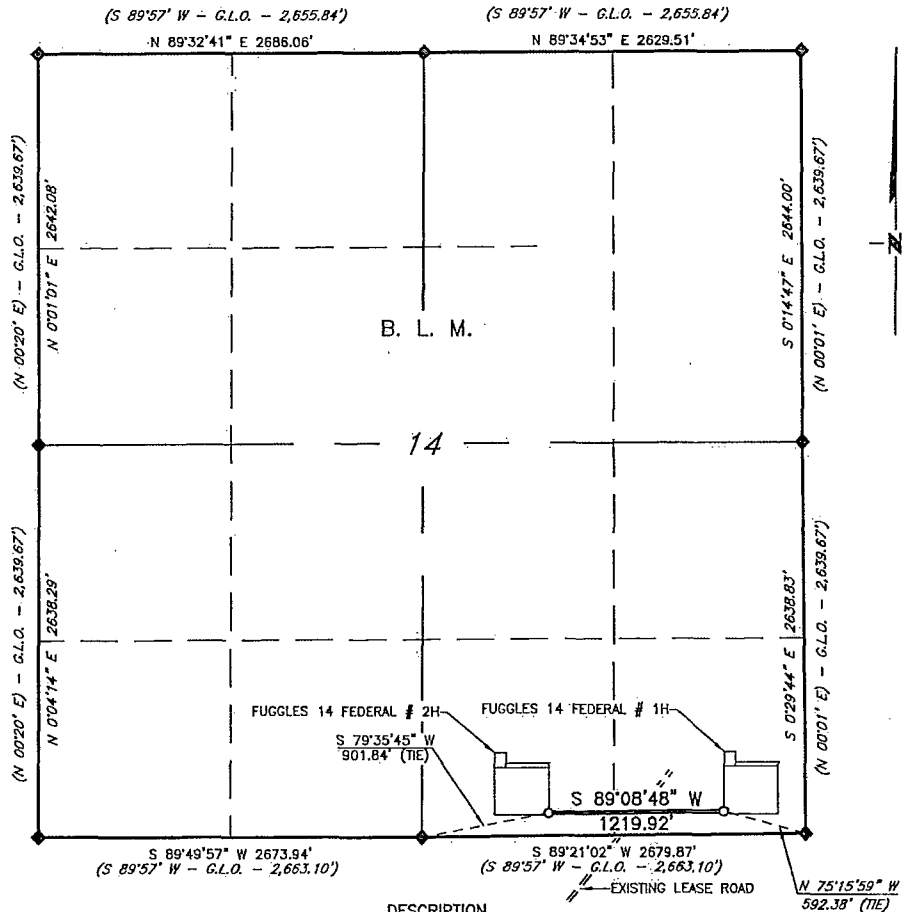
SECTION 14, TOWNSHIP 25 SOUTH, RANGE 32 EAST,

N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date: 10-05-2012 Sheet 1 of 1 Sheets

CIMAREX ENERGY CO.

PROPOSED ROAD FROM FUGGLES 14 FEDERAL # 1H TO FUGGLES 14 FEDERAL # 2H SEC. 14, T25S, R32E, N.M.P.M., LEA CO., N.M.



DESCRIPTION

A strip of land 30 feet in width and 1,219.92 feet or 73.934 rods in length, lying in Section 14, Township 25 South, Range 32 East, N. M. P. M., Lea County, New Mexico, and being 15 feet left and 15 feet right of the following described survey of a centerline across B. L. M. land:

Beginning at Engr. Sta. 0+00 a point which lies N 75°15'59" W, 592.38' feet from a brass cap, stamped "1939", found for the Southeast corner of aforementioned Section 14;

Thence S 89°08'48" W, 1219.92 feet to Engr. Sta. 12+19.92, the End of the Survey and a point from which a brass cap, stamped "1939", found for the South quarter corner of the aforementioned Section 14 bears S 79°35'45" W, 901.84 feet.

Said strip of land contains 0.840 acres, more or less, and is allocated by forties as follows:

SE 1/4 SE 1/4	0.528 Ac.
SW 1/4 SE 1/4	0.312 Ac.

SCALE: 1" = 1000'
0 500 1000

BEARINGS: NAD 83 GRID-NM EAST
DISTANCES: HORIZONTAL GROUND

LEGEND

- () RECORD DATA - GLO
- ◆ FOUND BRASS CAP STAMPED "1939" OTHER WISE NOTED

I, Robert Howett, a N. M. Professional Surveyor, hereby certify that this plat was prepared from an actual ground survey made under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert Howett NM PS 19680



Firm No.: TX 10193838 NM 4655451

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NO.	REVISION	DATE
JOB NO.:	LS140045	
DWG. NO.:	140045RD	

Exhibit C-2

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1"=1000'
DATE: 1/24/14
SURVEYED BY: BK/SM
DRAWN BY: JC
APPROVED BY: LWB
SHEET : 1 OF 1

Application to Drill
Fuggles 14 Federal 1H
 Cimarex Energy Co.
 UL: P, Sec. 14, 25S, 32E
 Lea Co., NM

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

1. **Location:** SHL 330 FSL 380 FEL
 BHL 330 FNL 380 FEL
2. **Elevation Above Sea Level:** 3,445' GR
3. **Geologic Name of Surface Formation:** Quaternary Alluvium Deposits
4. **Drilling Tools and Associated Equipment:** Conventional rotary drilling rig using fluid as a circulating medium for solids removal
5. **Proposed Drilling Depth:** 13,897 MD 9,457 TVD Pilot Hole TD: 10,000
6. **Estimated Tops of Geological Markers:**

Formation	Est Top	Bearing
Rustler	744'	N/A
Top Salt	3130'	N/A
Lamar	4522'	N/A
Delaware	4672'	Hydrocarbons
Cherry Canyon	5822'	N/A
Brushy Canyon Lower	8462'	N/A
Bone Spring	8707'	Hydrocarbons
Bone Spring "A" Shale	8794'	Hydrocarbons
Bone Spring "B" Carb.	9174'	Hydrocarbons
Bone Spring "C" Shale	9287'	Hydrocarbons
HZ Target	9457'	N/A
1st Bone Spring Ss	9718'	Hydrocarbons

7. **Possible Mineral Bearing Formation:** Shown above

7A. **OSE Ground Water Estimated Depth:** 235'

8. **Casing Program:**

Name	Casing Depth From (ft)	Casing Setting Depth (ft) MD	Casing Setting Depth (ft) TVD	Open Hole Size (inches)	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Condition	BHP (psig)	Anticipated Mud Weight (ppg)	Collapse SF at Full Evacuation(1.125)	Collapse SF at 1/3 Evacuation(1.125)	Burst SF (1.125)	Cumulative Air Weight	Cumulative Bouyed Weight (lbs)	Bouyant Tension SF (1.8)
Surface	0	800	800	17 1/2	13-3/8"	48.00	H-40	ST&C	New	345	8.3	2.14		5.01	38,400	33,534	9.60
Intermediate	0	4650	4650	12 1/4	9-5/8"	36.00	J-55	LT&C	New	2418	10.0		1.17	1.46	167,400	141,843	3.19
Production	0	8980	8980	8 3/4	5-1/2"	17.00	L-80	LT&C	New	4202	9.0	1.50		1.84	160,769	138,679	2.44
Production	8980	13897	9457	8 3/4	5-1/2"	17.00	L-80	BT&C	New	4425	9.0	1.42		1.75	8,109	6,995	56.76

Note: Operator may drill a 8-1/2" OH from end of curve to TD of the well. This is to reduce the need to ream the conventionally drilled curve to run a RSS assembly into the lateral.