

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, NM 87505

HOBBS OCD

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

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30025- 42105	² Pool Code 96603	³ Pool Name TRISTE DRAW; ADON SPRING
⁴ Property Code 39568	⁵ Property Name TRISTE DRAW 25 FEDERAL	⁶ Well Number #5
⁷ OGRID No. 215099	⁸ Operator Name CIMAREX ENERGY CO.	⁹ Elevation 3692'

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
P	25	23-S	32-E		370'	SOUTH	1270'	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
A	25	23-S	32-E		330'	NORTH	440'	EAST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
160			NSL Pending

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.

<p>CORNER DATA NAD 83 GRID - NM EAST</p> <p>A: FOUND BRASS CAP 1916 N 462087.5 - E 756802.3</p> <p>B: FOUND BRASS CAP 1916 N 464728.9 - E 756583.4</p> <p>C: ND BRASS CAP 1916 N 467373.3 - E 756564.6</p> <p>D: FOUND BRASS CAP 1916 N 467399.0 - E 759208.4</p> <p>E: FOUND BRASS CAP 1913 N 467425.4 - E 761853.0</p> <p>F: FOUND BRASS CAP 1913 N 462143.9 - E 761895.7</p> <p>G: FOUND BRASS CAP 1916 N 462114.5 - E 759250.0</p> <p>GEODETIC DATA NAD 83 GRID - NM EAST</p> <p>SURFACE LOCATION N 462499.7 - E 760623.1 LAT: 32.26949358° N LONG: 103.62385796° W</p> <p>BOTTOM LOCATION N 467091.1 - E 761415.7</p> <p>DETAIL "A"</p> <p>3696.9 600' 3701.5 600' S. L. 3692.4 3691.2</p> <p>SEE DETAIL "A"</p>	<p>B. H.</p> <p>330'</p> <p>440'</p> <p>N 9°47'41" E (GRID) 4660.31' (HORIZ.)</p> <p>1270'</p> <p>370'</p>	<p>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 released 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.</p> <p><i>Aricka Easterling</i> 2-24-14 Signature Date</p> <p>Aricka Easterling Printed Name</p> <p>aeasterling@cimarex.com Email Address</p> <p>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.</p> <p>12/18/13 Date of Survey</p> <p><i>Larry W. Busby</i> Signature and Seal of Professional Surveyor</p> <p>11398 Certificate Number</p> <p>LARRY W. BUSBY NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 11398</p>
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SEP 16 2014

Infill Drilling Plan

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District Office

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30025-	² Pool Code	³ Pool Name Bone Spring/ Wildcat
⁴ Property Code	⁵ Property Name TRISTE DRAW 25 FEDERAL	
⁷ OGRID No. 215099	⁸ Operator Name CIMAREX ENERGY CO.	
		⁶ Well Number #5
		⁹ Elevation 3692'

10 Surface Location

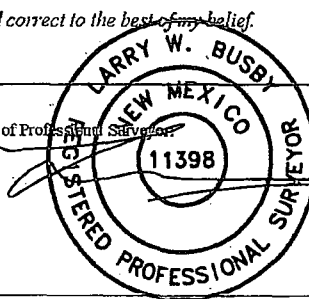
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	25	23-S	32-E		370'	SOUTH	1270'	EAST	LEA

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
A	25	23-S	32-E		330'	NORTH	440'	EAST	LEA

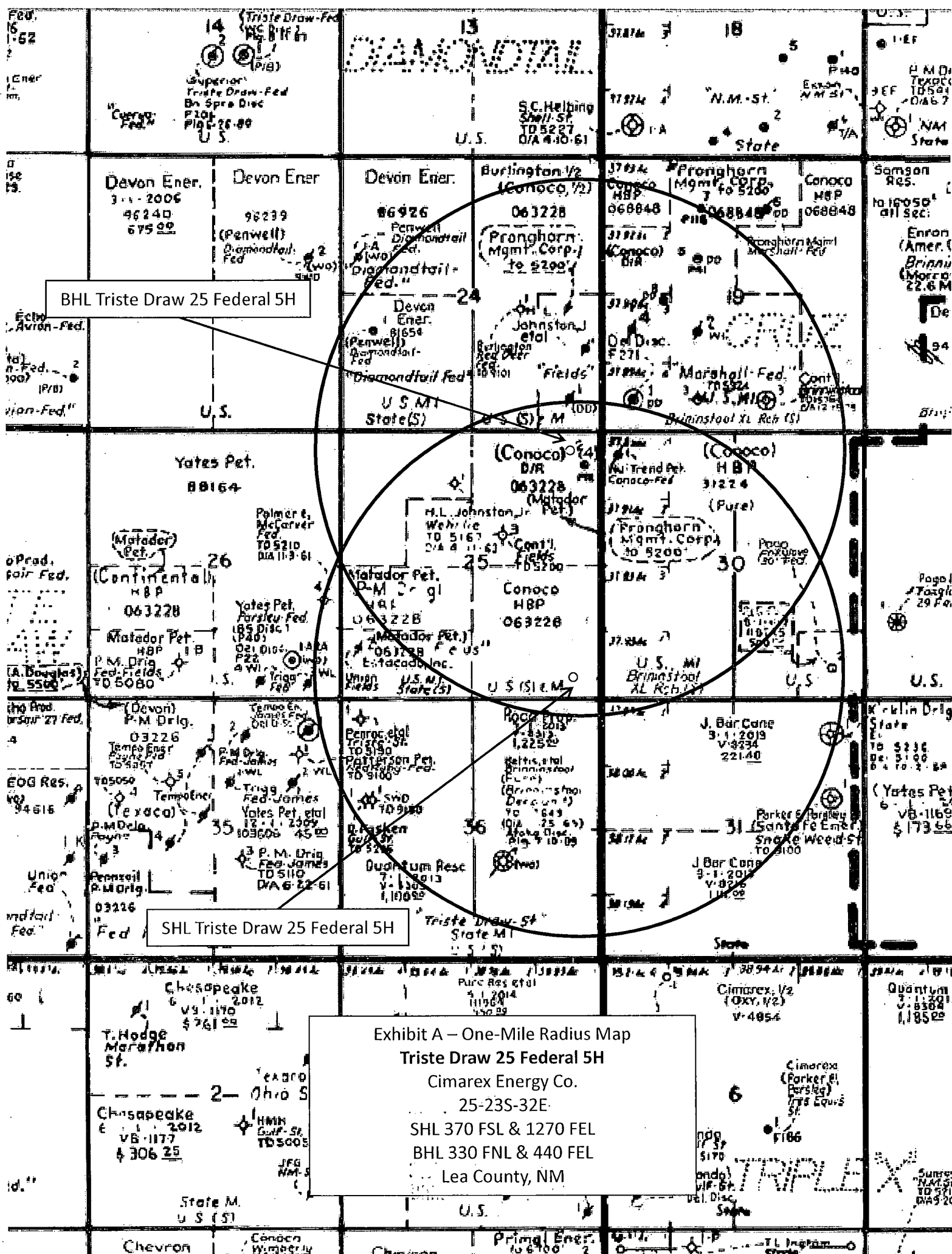
¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL Pending
--------------------------------------	-------------------------------	----------------------------------	--

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.

<p>CORNER DATA NAD 83 GRID - NM EAST</p> <p>A: FOUND BRASS CAP 1916 N 462087.5 - E 756602.3</p> <p>B: FOUND BRASS CAP 1916 N 464728.9 - E 756583.4</p> <p>C: ND BRASS CAP 1916 N 467373.3 - E 756564.6</p> <p>D: FOUND BRASS CAP 1916 N 467399.0 - E 759208.4</p> <p>E: FOUND BRASS CAP 1913 N 467425.4 - E 761853.0</p> <p>F: FOUND BRASS CAP 1913 N 462143.9 - E 761895.7</p> <p>G: FOUND BRASS CAP 1916 N 462114.5 - E 759250.0</p> <p>GEODETIC DATA NAD 83 GRID - NM EAST</p> <p style="text-align: center;">SURFACE LOCATION</p> <p>N 462499.7 - E 760623.1</p> <p>LAT: 32.26949358° N LONG: 103.62385796° W</p> <p style="text-align: center;">BOTTOM LOCATION</p> <p>N 467091.1 - E 761415.7</p> <p style="text-align: center;">DETAIL "A"</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p>3696.9 600' 3701.5</p> <p style="text-align: center;">O S. L.</p> <p>3692.4 3691.2</p> </div>	<p>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 released 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.</p> <p style="text-align: right;">2-24-14</p> <p>Signature _____ Date _____</p> <p style="text-align: center;">Aricka Easterling</p> <p>Printed Name _____</p> <p style="text-align: center;">aeasterling@cimarex.com</p> <p>E-mail Address _____</p> <p>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.</p> <p style="text-align: center;">12/18/13</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor _____</p> <div style="text-align: center;">  </div> <p style="text-align: center;">11398</p> <p>Certificate Number _____</p>
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SHL: #6 - 370'
FSL 1290' FEL

SHL: #1 - 330'
FSL 660' FEL



CIMAREX ENERGY COMPANY

TRISTE DRAW 25 FEDERAL #5
(370' FSL & 1270' FEL)
Section 25, T-23-S, R-33-E
N. M. P. M., Lea Co., New Mexico

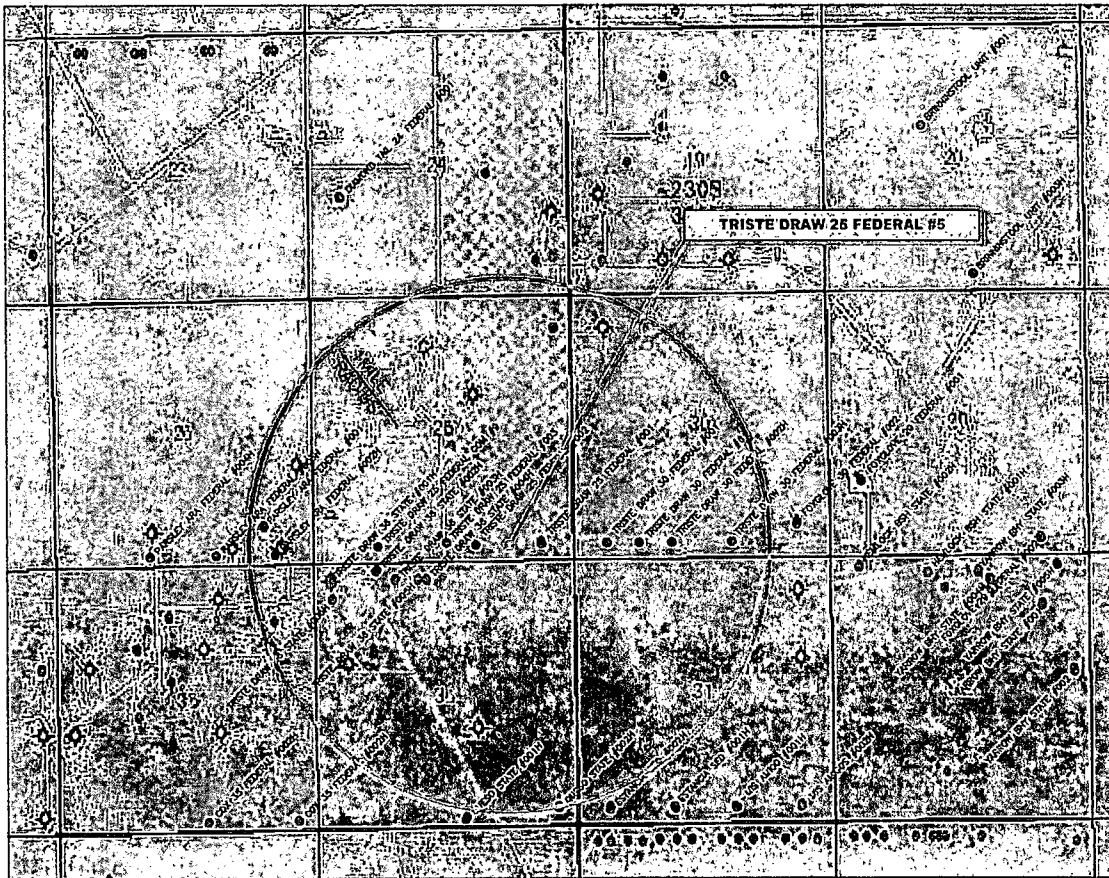


Exhibit A

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NO.	REVISION	DATE
JOB NO.: LS130531		
DWG. NO.: 130531(#5)		

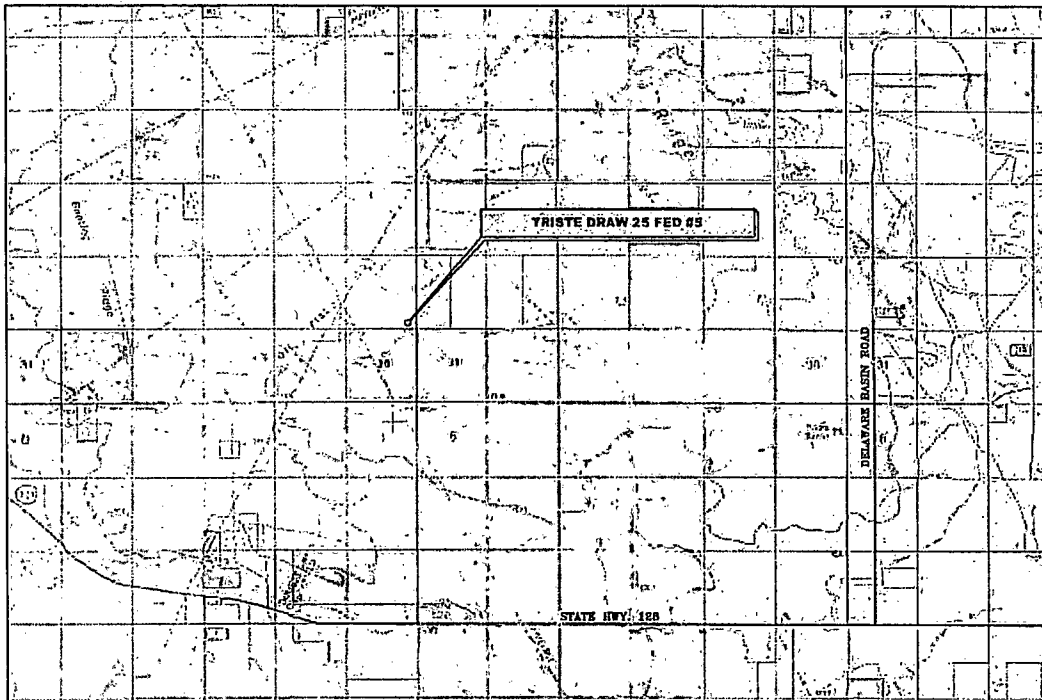
PROSPERITY CONSULTANTS, LLC



3801 Doris Lane, Round Rock, Texas 78664 | Firm No.: TX 10193838 NM 4655451 | (512) 992-2087

SCALE: NOT TO SCALE
DATE: 12-18-13
SURVEYED BY: LWB
DRAWN BY: JF
APPROVED BY: LWB
SHEET : 1 OF 1

CIMAREX ENERGY COMPANY
 General Highway Map
 TRISTE DRAW 25 FEDERAL #5
 (370' FSL & 1270' FEL)
 Section 25, T-23-S, R-32-E
 N. M. P. M., Lea Co., New Mexico



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NO.	REVISION	DATE
JOB NO.: LS130531		
DWG. NO.: 130531GHM5		

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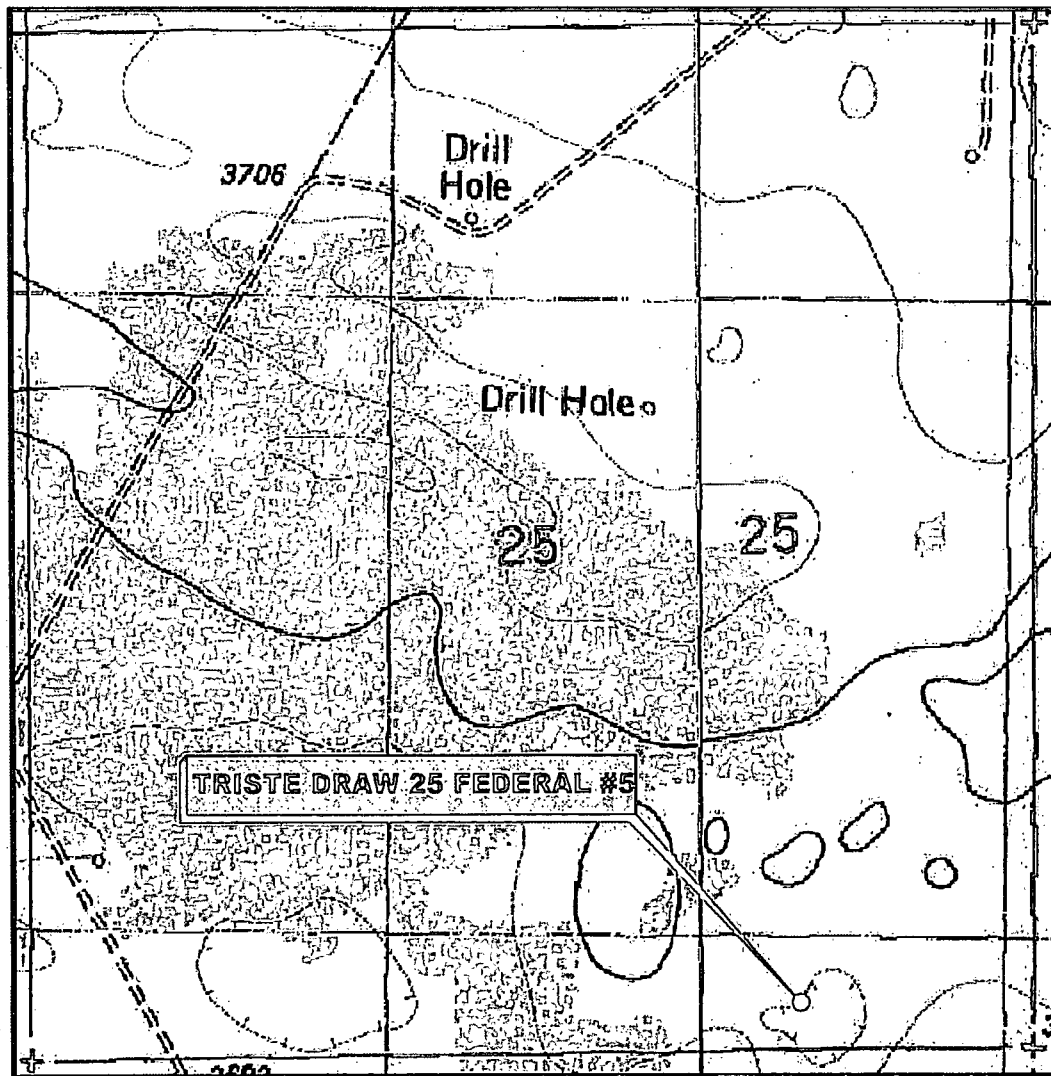


3801 Doris Lane, Round Rock, Texas 78664 | Firm No.: TX 10193838 NM 4655451 | (512) 992-2087

SCALE: NOT TO SCALE
DATE: 12-18-13
SURVEYED BY: LWB
DRAWN BY: JF
APPROVED BY: LWB
SHEET : 1 OF 1

Exhibit B

LOCATION VERIFICATION MAP



*SECTION 25, TWP. 23 SOUTH, RGE. 32 EAST,
N. M. P. M., LEA COUNTY, NEW MEXICO*

OPERATOR: CIMAREX ENERGY CO.
LEASE: TRISTE DRAW 25 FEDERAL
WELL NO.: 5
ELEVATION: 3692'

LOCATION: 370' FSL & 1270' FEL
CONTOUR INTERVAL: 10'
USGS TOPO. SOURCE MAP:
Tip Top Wells, NM (1984)

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NO.	REVISION	DATE
JOB NO.:	LS130531	
DWG. NO.:	130531LVM	

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

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

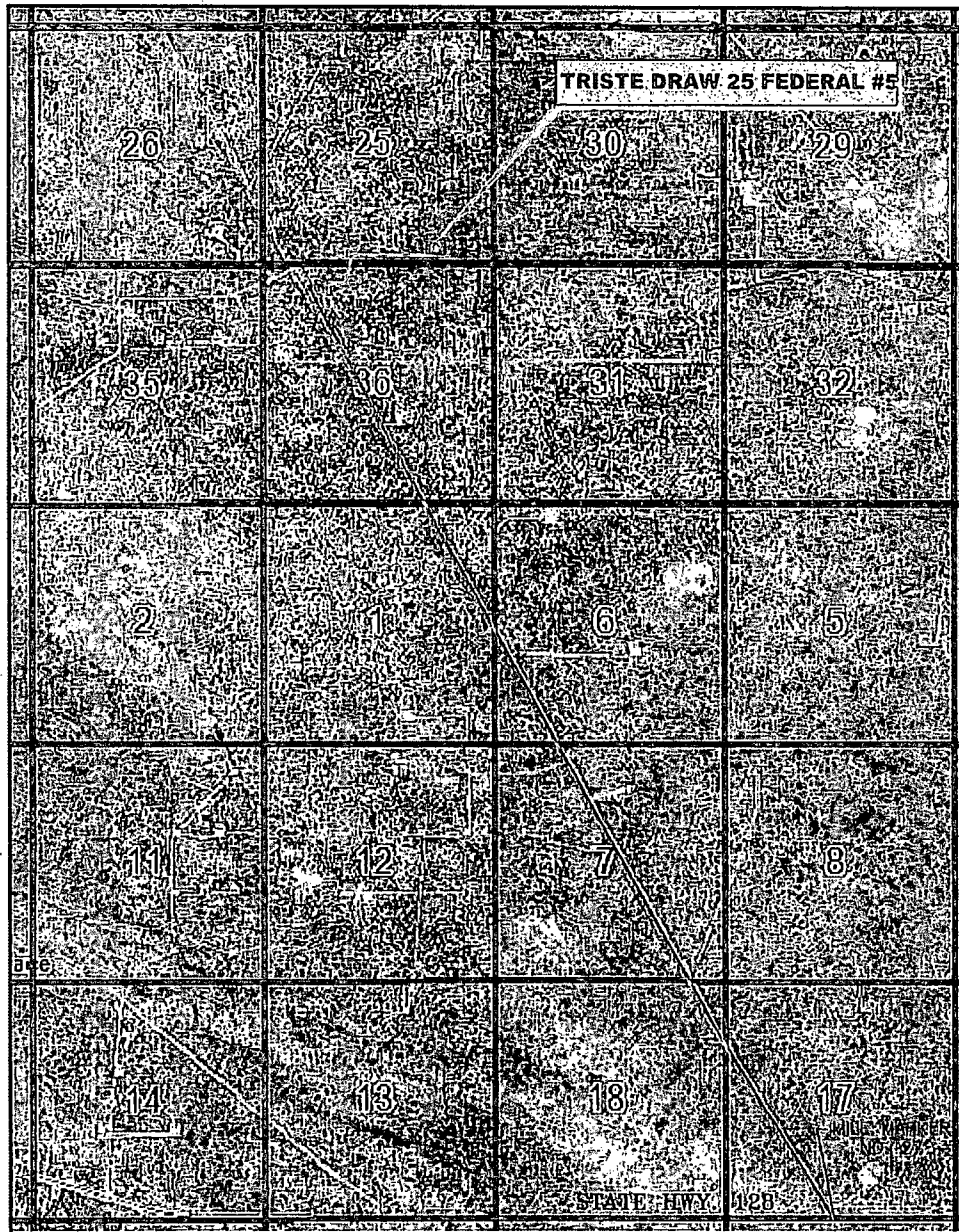
SCALE: 1" = 1000'
DATE: 12/18/13
SURVEYED BY: GB/IE
DRAWN BY: JC
APPROVED BY: LWB
SHEET : 1 OF 1

Exhibit C

VICINITY MAP

NOT TO SCALE

Public Access Route



SECTION 25, TWP. 23 SOUTH, RGE. 32 EAST,
N. M. P. M., LEA COUNTY, NEW MEXICO

OPERATOR: CIMAREX ENERGY CO.
LEASE: TRISTE DRAW 25 FEDERAL
WELL NO.: 5

LOCATION: 370' FSL & 1270' FEL
ELEVATION: 3692'

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NO.	REVISION	DATE
JOB NO.:	LS130531	
DWG. NO.:	130531VM	

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3801 Doris Lane, Round Rock, Texas 78664 | Firm No.: TX 10193838 NM 4655451 | (512) 992-2087

SCALE: 1' = 1000'

DATE: 12/18/13

SURVEYED BY: GB/IE

DRAWN BY: JC

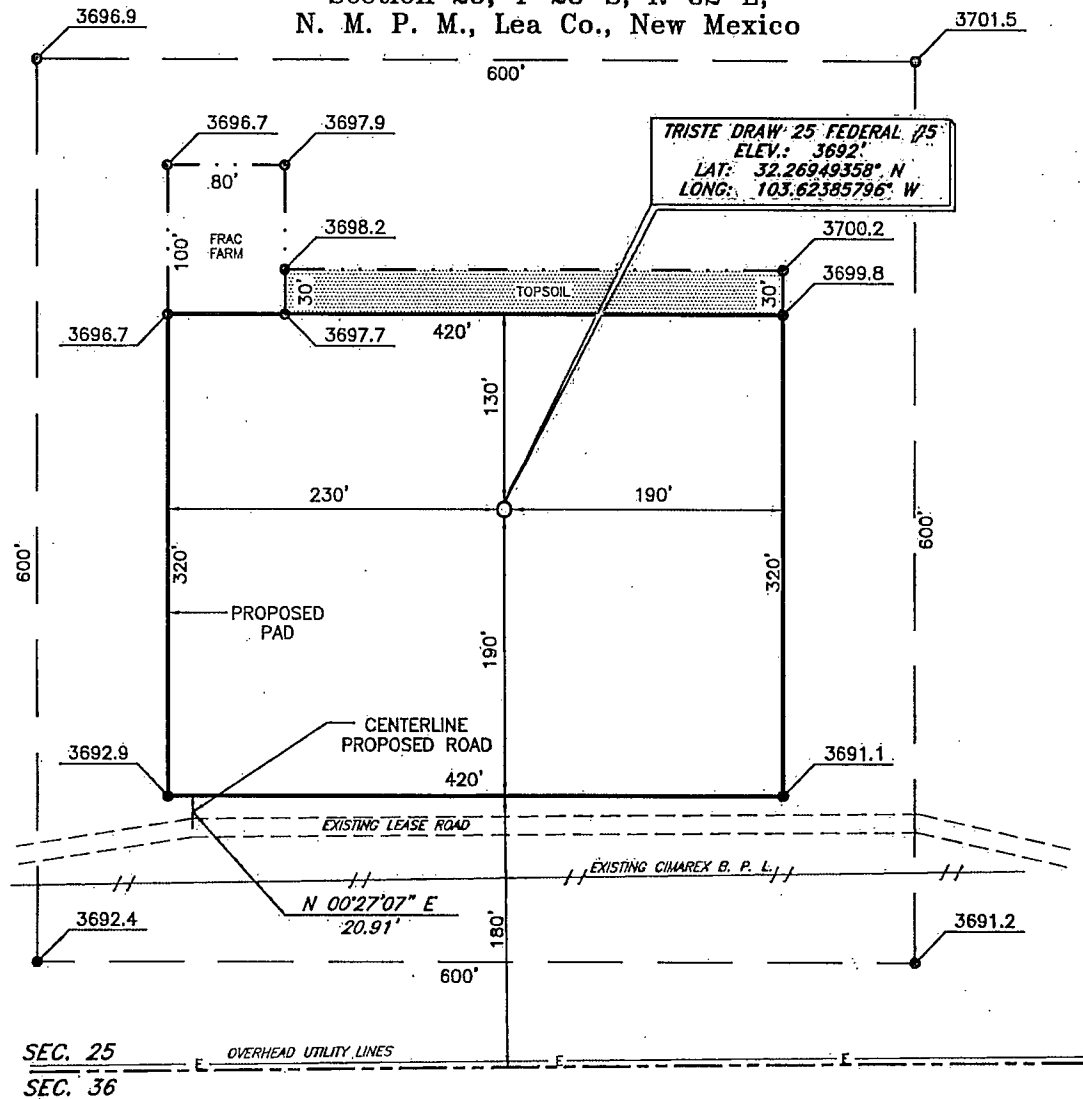
APPROVED BY: LWB

SHEET : 1 OF 1

Exhibit C-1

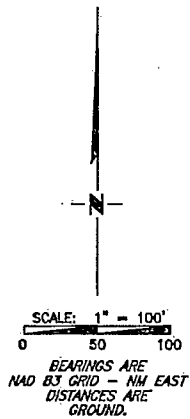
CIMAREX ENERGY COMPANY

Triste Draw 25 Federal #5
(370' FSL & 1270' FEL)
Section 25, T-23-S, R-32-E,
N. M. P. M., Lea Co., New Mexico



TRISTE DRAW 25 FEDERAL #5
ELEV.: 3692'
LAT: 32.26949358° N
LONG: 103.62385796° W

SEC. 25
SEC. 36



DIRECTIONS TO LOCATION

From Mile Marker 27 on St. Hwy. No. 128
Go Northwest on a lease road approx. 4.5 miles;
Turn right and go East approx. 0.2 mile;
Turn left and go North approx. 0.1 mile;
Turn right and go East approx. 0.4 mile;
Location is approx. 212' North of the lease road.

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NO.	REVISION	DATE
JOB NO.:	LS130531	
DWG. NO.:	130531PAD5	

PROSPERITY CONSULTANTS, LLC



3801 Doris Lane, Round Rock, Texas 78664 | Firm No.: TX 10193838 NM 4655451 | (512) 992-2087

SCALE: 1" = 100'

DATE: 12/18/13

SURVEYED BY: GB/IE

DRAWN BY: LWB

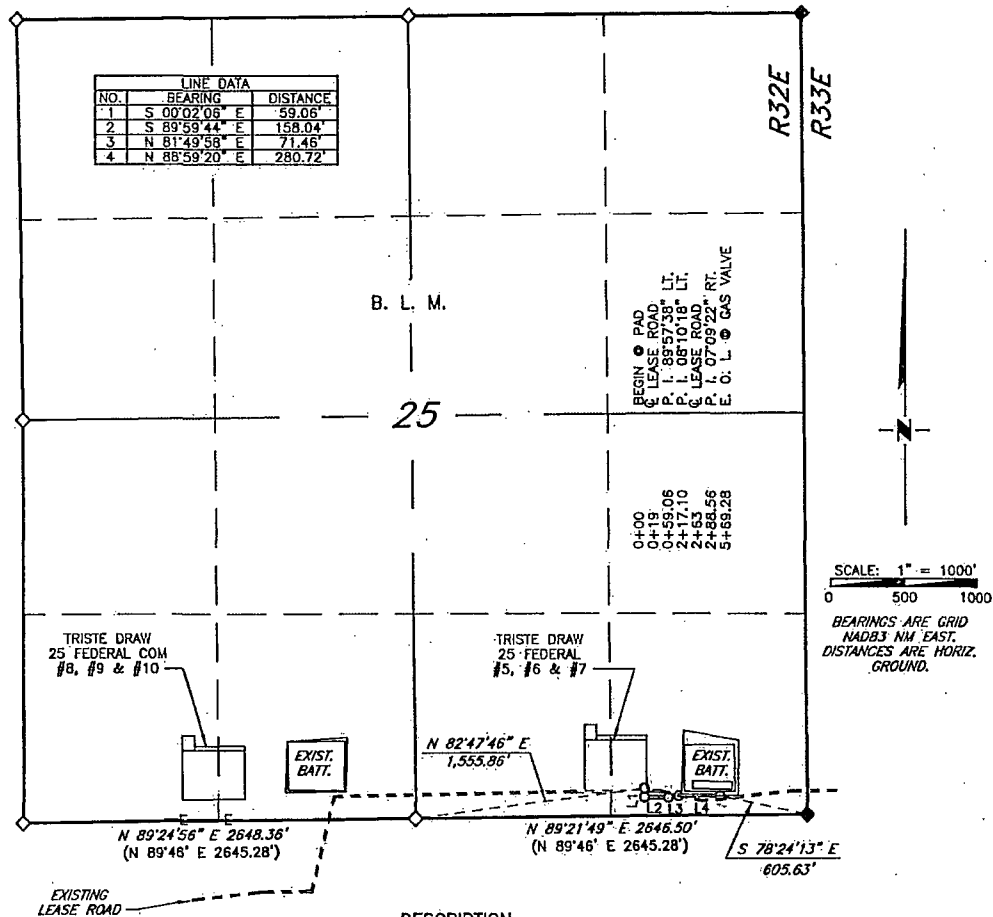
APPROVED BY: LWB

SHEET : 1 OF 1

Exhibit D-2

CIMAREX ENERGY COMPANY

4" FLOW LINE EASEMENT TO TRISTE DRAW FEDERAL #5, #6 & #7 SEC. 25, T23S, R32E, N.M.P.M., LEA CO., N.M.



DESCRIPTION

A strip of land, 30 feet in width, being 569.28 feet or 34.502 rods in length situated in Section 25, Township 23 South, Range 32 East, N. M. P. M., Lea County, New Mexico, being 15 feet left and 15 feet right of the following described survey of centerline across the land of the B. L. M.:

Beginning at Engr. Sta. 0+00, a point which lies N 82°47'46" E, 1555.86 feet from a brass cap stamped "1916" found for the South quarter corner of the aforementioned Section 25;

Thence S 00°02'06" E, 59.06 feet to Engr. Sta. 0+59.06, a P. I. of 89°57'38" left;

Thence S 89°59'44" E, 158.04 feet to Engr. Sta. 2+17.10, a P. I. of 08°10'18" left;

Thence N 81°49'58" E, 71.46 feet to Engr. Sta. 2+88.56, a P. I. of 07°09'22" right;

Thence N 88°59'20" E, 280.72 feet to Engr. Sta. 5+69.28, the end of the survey, from which a brass cap stamped "1913" found for the Southeast corner of the above-mentioned Section 25 bears S 78°24'13" E, 605.63 feet;

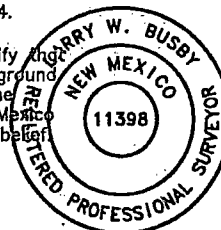
Said strip of land containing 0.392 acre, more or less all within the SE 1/4 SE 1/4.

I, Larry W. Busby, a N. M. Professional Surveyor, hereby certify that this plat was prepared from an actual survey made on the ground under my direct supervision and the survey and plat meet the Minimum Standards for Land Surveying in the State of New Mexico and are true and correct to the best of my knowledge and belief.

LEGEND

- () RECORD DATA - GLO
- ◇ FOUND BRASS CAP STAMPED "1916"
- ◆ FOUND BRASS CAP STAMPED "1913"

Larry W. Busby
NM PS 11398



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NO.	REVISION	DATE
JOB NO.:	LS130531	
DWG. NO.:	130531FL1	

PROSPERITY CONSULTANTS, LLC

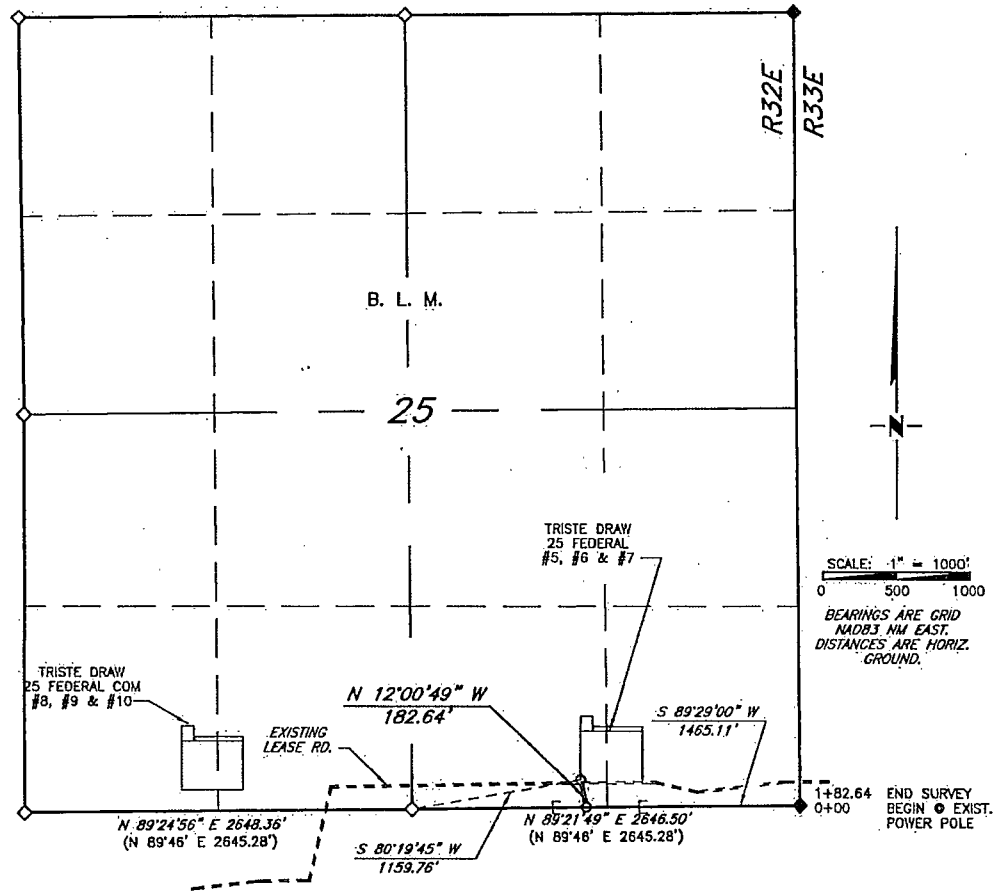


3801 Doris Lane, Round Rock, Texas 78664 | Firm No.: TX 10193838 NM 4655451 | (512) 992-2087

SCALE:	1" = 1000'
DATE:	12/18/13
SURVEYED BY:	GB/IE
DRAWN BY:	LWB
APPROVED BY:	LWB
SHEET :	1 OF 1

Exhibit G

CIMAREX ENERGY COMPANY
ELECTRIC LINE EASEMENT TO TRISTE DRAW 25 FEDERAL #5, #6 & #7
SEC. 25, T23S, R32E, N.M.P.M., LEA CO., N.M.



DESCRIPTION

A strip of land, 30 feet in width, being 182.64 feet or 11.069 rods in length situated in Section 25, Township 23 South, Range 32 East, N. M. P. M., Lea County, New Mexico being 15 feet left and 15 feet right of the following described survey of centerline across the land of the B. L. M.:

Beginning at a point, an existing power pole, which lies S 89°29'00" W, 1465.11 feet from a brass cap stamped "1913" found for the Southeast of the aforementioned Section 25;

Thence N 12°00'49" W, 182.64 feet to the end of the survey from which a brass cap stamped "1916" found for the South quarter corner of the above-mentioned Section 25 bears S 80°19'45" W, 1159.76 feet.

Said tract of land containing 0.126 acre, more or less, all within the SW 1/4 SE 1/4 of said Section 25.

I, Larry W. Busby, a N. M. Professional Surveyor, hereby certify that this plat was prepared from an actual survey made on the ground under my direct supervision and the survey and plat meet the Minimum Standards for Land Surveying in the State of New Mexico and are true and correct to the best of my knowledge and belief.

Larry W. Busby
 NM PS 11398



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- LEGEND**
- () RECORD DATA - GLO
 - ◇ FOUND BRASS CAP STAMPED "1916"
 - ◆ FOUND BRASS CAP STAMPED "1913"

NO.	REVISION	DATE
JOB NO.:	LS130530	
DWG. NO.:	130530PR1	

PROSPERITY CONSULTANTS, LLC



3801 Doris Lane, Round Rock, Texas 78664 | Firm No.: TX 10193838 NM 4655451 | (512) 992-2087

SCALE: 1" = 1000'

DATE: 12/18/13

SURVEYED BY: GB/IE

DRAWN BY: LWB

APPROVED BY: LWB

SHEET : 1 OF 1

Exhibit H

Application to Drill
Triste Draw 25 Federal #5H
 Cimarex Energy Co.
 UL: P, Sec. 25, 23S, 32E
 Lea Co., NM

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

1. Location: SHL 370 FSL & 1270 FEL
 BHL 330 FNL & 440 FEL

2. Elevation Above Sea Level: 3,692' 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: 14,255 MD 9,800 TVD Pilot Hole TD: N/A

6. Estimated Tops of Geological Markers:

Formation	Est Top	Bearing
Rustler	1220	N/A
Salt	2450	N/A
Castille	3600	N/A
Base Last Salt	4780	N/A
Lamar	4990	N/A
Bell Canyon	5040	Hydrocarbons
Cherry Canyon	6150	N/A
Brushy Canyon	7200	N/A
Bone Spring	8850	Hydrocarbons
Avalon Shale	9450	Hydrocarbons

7. Possible Mineral Bearing Formation: Shown above

7A. OSE Ground Water Estimated Depth: 475'

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	1270	1270	17 1/2	13-3/8"	48.00	H-40	ST&C	New	581	8.8	1.27		2.98	60,960	52,770	6.10
Intermediate	0	5000	5000	12 1/4	9-5/8"	36.00	J-55	LT&C	New	2626	10.1		1.18	1.34	180,000	152,244	2.98
Production	0	9322	9322	8 3/4	5-1/2"	17.00	L-80	LT&C	New	4459	9.2	1.41		1.74	166,600	143,200	2.36
Production	9322	14255	9800	8 3/4	5-1/2"	17.00	L-80	BT&C	New	4688	9.2	1.34		1.65	8,126	6,985	56.84

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.

Application to Drill
Triste Draw 25 Federal #5H
 Cimarex Energy Co.
 UL: P, Sec. 25, 23S, 32E
 Lea Co., NM

8A. Casing Design and Casing Loading Assumptions:

Surface	Tension	A 1.8 design factor with effects of buoyancy: 8.30 ppg.
	Collapse	A 1.125 design factor with full internal evacuation and a collapse force equal to a 8.30 ppg mud gradient.
	Burst	A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.
Intermediate	Tension	A 1.8 design factor with effects of buoyancy: 10.00 ppg.
	Collapse	A 1.125 design factor evacuated 1/3 TVD of next casing string with a collapse force equal to a 10.00 ppg mud gradient.
	Burst	A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.
Production and/or Production Completion System	Tension	A 1.8 design factor with effects of buoyancy: 9.00 ppg.
	Collapse	A 1.125 design factor with full internal evacuation of next casing string with a collapse force equal to a 9.00 ppg mud gradient.
	Burst	A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.

9. Cementing Program:

Casing Type	Type	Sacks	Yield	Weight	Cubic Feet	Cement Blend
Surface	Lead	605	1.75	13.50	1058	Class C + Bentonite + Calcium Chloride + LCM, 8.829 gpg water
	Tail	165	1.34	14.80	220	Class C + LCM, 6.32 gpg water
	TOC: 0		45% Excess			Centralizers per Onshore Order 2.III.B.1f
Intermediate	Lead	895	1.88	12.90	1681	35:65 (poz/C) + Salt + Bentonite + LCM + retarder, 9.65 gpg water
	Tail	292	1.34	14.80	391	Class C + retarder + LCM, 6.32 gpg water
	TOC: 0		44% Excess			
Production	Lead	525	2.40	11.90	1258	35:65 (poz/H) + salt + Sodium Metasilicate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder, 13.80 gpg water
	Tail	1218	1.24	14.50	1510	50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder, 5.55 gpg water
	TOC: 4800		16% Excess			No centralizers planned in the lateral section. 1 every jt from EOC to KOP. 1 every 4th joint from KOP to 500' inside previous casing.

Cement volumes will be adjusted depending on hole size

9a. Proposed Drilling Plan:

Pilot Hole TD: No Pilot KOP: 9,322' EOC: 10,073'

Set Surface and Intermediate casing strings. Drill production hole to KOP. Continue drilling lateral through the curve to TD. Run prod casing & cement.

10. Pressure Control Equipment:

Exhibit "E-1". A BOP consisting of two rams with blind rams and pipe rams, and one annular preventer. Below the surface casing, a 2M system will be used. Below the intermediate casing, a 3M system will be used. See attachments for BOP and choke manifold diagrams. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A Rotating head may be installed as needed. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP and associated equipment will be installed, used, maintained, and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe. The Annular Preventer shall be functioned at least weekly. The pipe and blind rams will be operated each trip. No abnormal pressure or temperature is expected while drilling.

BOPS will be tested by an independent service company. The ram preventers, choke manifold, and safety valves will be tested as follows: On the surface casing, pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate casing, pressure tests will be made to 250 psi low and 3000 psi high.

The Annular Preventer will be tested to 250 psi low and 1000 psi high on the surface casing, and 250 low and 1500 high on the intermediate casing.

Cimarex Energy Co. of Colorado requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached (please see Exhibit F, F-1, F-2, F-3). The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.