

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised July 16, 2010
Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-39078	Pool Code 8250 50270	Pool Name Penasco Draw; Atoka; Glorieta-Yeso- SA-Yeso
Property Code 381042	Property Name OKLAHOMA "32" FEE	Well Number 2
OCRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3395'

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	32	18 S	26 E		330	NORTH	380	EAST	EDDY

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
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

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

<div>RECEIVED JUN 01 2011 NMOCD ARTESIA</div> <div>Fee</div> <div>SURFACE LOCATION Lat - N 32°42'38.31" Long - W 104°23'48.80" NMSPCE- N 622268.4 E 521789.3 (NAD-83)</div>	<div>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. <div><div><div><div>Signature</div><div>Date</div></div><div><div>Natalie Krueger</div><div>5/31/2011</div></div></div><div><div>Printed Name</div><div>Email Address</div></div><div><div>nkrueger@cimarex.com</div></div></div></div>
	<div>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. <div><div><div><div>Date</div><div>Signature & Seal of Professional Surveyor</div></div><div><div>GARY L. JONES</div><div>2515</div></div></div><div>Certificate No. Gary L. Jones 7977</div><div>BASIN SURVEYS 24515</div></div></div>

Mud, Casing, Cementing, and BOP Attachment
Oklahoma 32 Fee No. 2
 Cimarex Energy Co. of Colorado
 Unit A, Section 32
 T18S-R26E, Eddy County, NM

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

Location: 330 FNL & 380 FEL

Elevation above sea level: 3395' GR

Proposed drilling depth: 3,000'

Proposed Mud Circulating System:

Depth		Mud Wt	Visc	Fluid Loss	Type Mud
0'	to 950'	8.4 - 8.8	28	NC	FW
0'	to 3000'	9.9 - 10.1	30-32	NC	Brine water

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

Casing & Cementing Plan:

String	Hole Size	Depth		Casing OD		Weight	Collar	Grade
Surface	14¾"	0'	to 950'	New	9⅝"	36#	STC	J55
Production	8¾"	0'	to 3000'	New	5½"	17#	LTC	N80

Cementing Plan:

Surface Lead Slurry: 870 sx Class "C" + 10% W-60 + 1% CaCl₂ + 0.25% R-38 + 5# Gilsontite per sx ,14.4 ppg, 1.56 cuft/sx, 7.04 gal/sx fw.

Tail Slurry: 330 sx Class C + 2% CaCl₂ + 0.25% R-38, 14.8 ppg, 1.35 cuft/sx, 6.34 gal/sx fw

TOC Surface

Production Lead Slurry: 380 sacks Class C 50/50 Poz + 10% Bentonite + 0.3% FL-10 + 0.25% R-38 + 5% Salt, Mixed at 11.92 ppg. Yeild 2.37 cuft/sx, 13.52 gal/sx Fresh Water

Tail Slurry: 260 sacks C Star Bond + 0.3% FL-10 + 0.1% C-20 + 0.25% R-38. Mixed at 13.2 ppg, Yeild 1.55 cuft/sx, 7.86 gal/sx Fresh Water

TOC Surface

Collapse Factor
1.125

Burst Factor
1.125

Tension Factor
1.6

Mud, Casing, Cementing, and BOP Attachment
Oklahoma 32 Fee No. 2
Cimarex Energy Co. of Colorado
Unit O, Section 15
T19S-R29E, Eddy County, NM

Pressure control Equipment:

Exhibit "E-1" - A 13 $\frac{3}{8}$ " 3000 PSI working pressure B.O.P. consisting of a one set of blind rams and one set of pipe rams and a 3000 psi annular-type preventor. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. 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. Mud gas separator will be available if drilling in H2S areas.

BOP unit will be hydraulically operated. Below intermediate casing shoe, BOP will be operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling. From the base of the surface pipe through the running of production casing, the well will be equipped with a 3000 psi BOP system.

Test BOP equipment and choke manifold to 250 psi low and 3000 psi high and annular BOP to 250 psi low and 1500 psi high by an independent service company.