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PARCE INCLUSION     PROVIDED IN THE DETATES     DEPARTMENT OF THE INTERIOR     RUNNED STATES     DIFFECTURENTO OF THE INTERIOR     RUNNED OF LAND MANAGEMENT     APPLICATION FOR PERMIT TO DIALL OR RELITER     APPLICATION FOR PERMIT     APPLICATION FOR PERMIT TO DIALL OR RELITER     APPLICATION FOR PERMIT TO DIAL OR RELITER     APPLICATION FOR PERMIT TO DIAL OR RELITER     APPLICATION FOR PERMIT TO DIAL OR RELITER     APPLICATION FOR PERMIT AND APPLICATION     APPLICATION FOR PERMIT AND APPLICAT		RECEIVER	OCD-H	IOBBS					
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DEPARTMENT OF TILE INTERIOR     MOBBSOUL       BUREAU OF LADD MANAGEMENT     6. If findum, Alloce or Tibe Name       APPLICATION FOR PERMIT TO DRILL OR REENTER     7. If Unit or CA Agreements New Mark 100 (Strenge of Name and New Mark 100 (Strenge of Name an	(April 2004)			JAN S	3 1 2011	OMB Ne Expires M	o. 1004-0137		
BUREAU OF LAND MANAGEMENT       0.104/3021         APPLICATION FOR PERMIT TO DRILL OR REENTER       0.1140/and.Alloces or Tribe Name         Type of Weit:       DRILL       REENTER         Type of Weit:       DRILL       REENTER         Type of Weit:       DOI Weit       Care Weit:       Note: Maddow Derk No. 6         Type of Weit:       DOI Weit       Care Weit:       Note: Maddow Derk No. 6         Type of Weit:       DOI Weit:       Care Weit:       Note: Maddow Derk No. 6         Type of Weit:       DOI Weit:       Care Weit:       Note: Maddow Derk No. 6         Type of Weit:       DOI Weit:       Strong Weit:       Note: Maddow Derk No. 6         Construction:       Strong Weit:       Note: Strong Order Deck Note: Care Note: Strong Order Deck Note: Care Note: Strong Order Deck Note: Stron					SOCD				
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Type of Welt       One Well       One Well       One Well       Single Zool       Address         Name of Operator       Image of Operator       Image of Operator       Image of Operator       Image of Operator         Cimmers K nergy Co. of Colorado       Market Mole       30-025       Hold Madure Unit       Image of Operator         600 N. Marinefield St., Ste. 600; Midland, TX 19701       32: 571-7800       Crary Horse; Delaware       Image of Operator         1: Occulture of Well (Paper Location Clary) or an incorrelations with any Sour organization.       Image of Operator       Image of Operator       Image of Operator         4: Surface       2310 FNL & 610 FWL       With + E       Image of Operator       Image of Operator       Image of Operator         4: Surface       2310 FNL & 610 FWL       With + E       Image of Operator       Image of Operator       Image of Operator       Image of Operator         4: Datame of moneproted*       10: No of acress in lense       Image of Operator       Image of Operator       Image of Operator       Image of Operator         Case None meter degrad for on this lense, I       N/A       6.000'       Image of Operator       Image of Operator         Subtance for moreor degrad       Image of Operator       Image of Ope	Ta. Type of wor		REENTER			NM .72	609X		
Nome of Operator       Image of Operator       Image of Operator       Image of Operator         CITM area K in regional of the operator of the Operator of Colorado       Image of Operator       Image of Operator       Image of Operator         Construction of Well (Report location of early and in accordance with any Star reginterments.*)       Image of Operator       Image of Operator       Image of Operator         A Surface       23.0 FNL & 610 FWL       Umage of Operator       Image of Operator       Image of Operator         A Surface       23.0 FNL & 610 FWL       Umage of Operator       Image of Operator       Image of Operator         A Surface       23.0 FNL & 610 FWL       Umage of Operator       Image of Operator       Image of Operator         A Surface       20.0 FNL & 610 FWL       Umage of Operator       Image of Operator       Image of Operator         A Surface       20.0 FNL & 610 FWL       Umage of Operator       Image of Operator       Image of Operator         Operator Common propeosed       10.0 For or strip       Image of Operator       Image of Operator       Image of Operator         Distance finn propeosed Description       10.0 For or strip       Image of Operator       Image of Operator       Image of Operator         Distance finn propeosed Description       Image of Operator       Image of Operator       Image of Operator       Image									
Clinareze Energy Co. of Colorado       Augue 3.3       30.025       40.023.9         Address       10. Field and Pool, or Exploratory       10. Field and Pool, or Exploratory         Count of Well (Report location clearly and na accordance with any State requirements.*)       11. See, T. N. M. Bills, ad Surely in Area         A Surface       2310 FNL & 610 FWL       Unit 4 E       11. See, T. N. M. Bills, ad Surely in Area         A surface       20.195-33E       20.195-33E         4. Distance from proposed       10. Field and Pool, or Exploratory       13. State         A surface       20.195-33E       20.195-33E         4. Distance from proposed       16. No of acress in lease       17. Spacing Unit dedicated to this well         Distance from proposed       610'       320 acres       SMNW       40 acres         ang)       Distance from proposed       10. N/A       6,000'       NM-2575         Construction in accordance with the requirements of Orshow OII and Gas overt with start       23. Estimated duration         a Surface B Pan (The Beak file)       N/A       6,000'       NM-2575         A Surface De Pan (The Beak file)       N/A       20. Approximate date work with start       23. Estimated duration         avgliptic file, on this lease, file       N/A       6,000'       NM-2575       0         A Di	1b. Type of Well:			Single Zone Multip	ole Zone	North Maduro Unit I	No. 6		
Address       Ste fromes No. (Include area code)       10. Field and Pool, or Exploratory         GON I. Marienfeld St., Stee, 500; Midland, TX 79701       432-571-7800       Crazy Horses M.       13. Set Trace         Location of Well (Report location dearly and mice conducer with only State regularemats.")       11. See, T. R. M. of BL. est Surface       13. Set Trace         At perspect for the state in miles and direction from nearest town or post office*       12. See, T. R. M. of BL. est Surface       NM         Distance in miles and direction from nearest town or post office*       12. See, T. R. M. of BL. est Surface       NM         Distance from proposed for the state in miles and direction from nearest town or post office*       12. Sectify of Parish       13. State         Distance from proposed location is from proposed for the state in mile and function from nearest town or post office*       17. Spacing Unit dedicated to this well         Distance from proposed location is for any state in the if fails (abo to nearest fig. unit line if	<ol><li>Name of Ope</li></ol>	<i>•</i>				9. API Well No.	10		
600 N. Marienfeld St., Ste. 600, Midland, TX 79701       432-571-7800       Crazy Horse; Delaware 133 CPL         1. Jocation of Well (Report Jocation clearly and in accordance with any State regariements.*)       11. Sec, T. R. M. of BJ. and Survey or Area         At Surface       2310 FNL & 610 FWL       Unit + E         At Surface       20.195-33E         1. Distance from proposed*       10. No of acres in lease       11. Sec, T. R. M. of BJ. and Survey or Area         1. Distance from proposed*       10. No of acres in lease       12. County or Parish       13. State         1. Distance from proposed*       10. No of acres in lease       12. Spacing Unit dedicand to this well       NM         1. Distance from proposed*       10. No of acres in lease       12. Spacing Unit dedicand to this well       NM         1. Distance from proposed       610'       320 acres       SWNW 40 acres       40. metros         1. Distance from proposed       10. No of acres in lease       12. Spacing Unit dedicand to this well       NM         1. Distance from proposed location*       10. NA       6,000'       NM-2575       21. Estimated duration         2. Distance from proposed location*       10. NA       6.000'       NM-2575       23. Estimated duration         2. Burdet Bar from acress structure       0.000'       NM-2575       20. Estin acce duration       20. Estimat		nergy Co. of Colorado					39		
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Distance from proposed* location to nearest property or less line, ft. (Also to nearest line, ft. (Also to nearest drig, unit line if any)  Distance from proposed location* (I)  Distan	14. Distance in	n miles and direction from nearest town or po	st office*		1	12. County or Parish	13. State		
location to rearest property or loss line, fl. (Also to nearest drig, unit line if any)       610'       320 acres       SWNW       40 acres         Distance from proposed location* to nearest well, drilling, completed, applied for, on this lesse, fl.       N/A       6,000'       NM-2575         Elevations (Show whether DF, KDB, RT, GL, etc.)       22. Approximate date work will start*       23. Estimated duration         3612' GR       02.28.11       25-30 days         24. Attachments       24. Attachments         e following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:         Well plat cartified by a registered surveyor       A. Machments         A Surface USP flat (If the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).       9. Bond to cover the operations unless covered by an existing bond on file (see lem 20 above).         Signature       Signature       Name (Printed/Typed)       Date         Macdiour System Lands, the Suprove Dis (Signature)       Jammes A. Amoss       Name (Printed/Typed)       Date         Macdiour System Lands, the signature       Image (Printed/Typed)       Date       12.22.10         Macdiour approval does not warrant or certify that the applicant holds legal or equitable tit to those rights in the subject lease which would enrithe the applicant to date operations therease.       Marel (Printed/Typed)       Date <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
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3612' GR       02.28.11       25-30 days         24. Attachments       24. Attachments         e following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:						NM-2575	5		
24. Attachments         a following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:         Well plat certified by a registered surveyor A Drilling Plan A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).       4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).         Signature       4. Bond to cover the operations and/or plans as may be required by the authorized officer.         Signature       Name (Printed/Typed)         Matelie Krueger       12.22.10         Ie       Name (Printed/Typed)         Name (Printed/Typed)       Dit AN 2 8 2011         Ie       Office         CARLSBAD FIELD OFFICE       Dit AN 2 8 2011         Pleation approval 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 duct operations thereon.       APPROVAL FOR TWO YEARS         It to US AS. Section 101 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 matructors or page 2)       Implication Approval Subject to General Requirement & Special Stipulations Attached	21. Elevations	(Show whether DF, KDB, RT, GL, etc.)	22. Approxim	nate date work will start	* 2	3. Estimated duration			
24. Attachments         a following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:         Well plat certified by a registered surveyor A Drilling Plan A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).       4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).         Signature       4. Bond to cover the operations and/or plans as may be required by the authorized officer.         Signature       Name (Printed/Typed)         Matelie Krueger       12.22.10         Ie       Name (Printed/Typed)         Name (Printed/Typed)       Dit AN 2 8 2011         Ie       Office         CARLSBAD FIELD OFFICE       Dit AN 2 8 2011         Pleation approval 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 duct operations thereon.       APPROVAL FOR TWO YEARS         It to US AS. Section 101 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 matructors or page 2)       Implication Approval Subject to General Requirement & Special Stipulations Attached		3612' GR		02.28.11		25-30	davs		
Well plat certified by a registered surveyor       A. Bond to cover the operations unless covered by an existing bond on file (see lem 20 above).         A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).       9. Operator Certification         Suport Surve       Name (Printed/Typed)       Date         Matter Variable Visition of Signature       Name (Printed/Typed)       Date         Matter Variable Visition of Signature       Name (Printed/Typed)       Date         Natalite Krueger       12.22.10         Ide       Office       CARLSBAD FIELD OFFICE         Pleation approval 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 duct operations are or representations as to any matter within its jurisdiction.         Abilitions of approval, if any, are attached.       ApproVAL FOR TWO YEARS         Applicant Controlled Water Basin       SEE ATTACHED FOR			24.		····	23.00			
A Drilling Plan A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). Signature Name (Printed/Typed) Natalie Krueger Regulatory Analyst proved By (Signature) Ie FIELD MANAGER Plication approval 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 duct operations thereon. Additions of approval if any, are attached. Is U.S. Section 1212, make it a crime for any person knowingly and willfally to make to any department or agency of the United matter within its jurisdiction. SEE ATTACHED FOR SEE ATTACHED FOR	The following, co	ompleted in accordance with the requirements	s of Onshore Oil and	Gas Order No. 1, shall	be attached to the	nis form:			
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SUPO shall be filed with the appropriate Forest Service Office).       6. Such other site specific information and/or plans as may be required by the authorized officer.         Signature       Name (Printed/Typed)       Date         Wattallie Krueger       12.22.10         Regulatory Analyst       Name (Printed/Typed)       Date         proved By (Signature)       Jorness A. Amos       Name (Printed/Typed)       Date         le       FIELD MANAGER       Office       CARLSBAD FIELD OFFICE         plication approval 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       APPROVAL FOR TWO YEARS         additions of approval, if any, are attached.       Arme for any person knowingly and willfully to make to any department or agency of the United         tes any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.       Matter Basin         SEE ATTACHED FOR       Special Stipulations Attached	2. A Drilling Pla	an	votom Londa tha	Item 20 above	e).				
Signature       Name (Printed/Typed)       Date         Matalie Krueger       12.22.10         Natalie Krueger       12.22.10         Regulatory Analyst       proved By (Signature)       James A. Arnos         Name (Printed/Typed)       Date       12.22.10         Ie       FIELD MANAGER       Office       CARLSBAD FIELD OFFICE         plication approval 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 duct operations thereon.       APPROVAL FOR TWO YEARS         elit U.S.S. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United tes any failse, factitious, or fraudulent statements or representations as to any matter within its jurisdiction.       Mate Office         notructions on page 2)       Mate Controlled Water Basin       SEE ATTACHED FOR				6. Such other sit	infication te specific infor	nation and/or plans as ma	y be required by the		
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## Application to Drill North Maduro Unit No. 6 Cimarex Energy Co. of Colorado Unit E, Section 20 T19S-R33E, Lea County, NM

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JAN 31200 HOBBSUCD

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

1 Location: 2310 FNL & 610 FWL

2 <u>Elevation above sea level:</u> 3612' GR

3 Geologic name of surface formation:

Quaternery Alluvium Deposits

0

4 Drilling tools and associated equipment:

Conventional rotary drilling rig using fluid as a circulating medium for solids removal.

5 <u>Proposed drilling depth:</u> 6,000'

6	Estimated tops of geological markers:							
	<u>Rustler</u>	<u>1255'</u>						
	T Salt	1350'						
	B Salt	2665'						
	Yates	3138'						
	Queen	4147'						
	Delaware SS	5300'						

### 7 <u>Possible mineral bearing formation:</u> Delaware Oil

#### 8 Proposed Mud Circulating System:

Depth			Mud Wt	Visc	Fluid Loss	Type Mud		
0'	to	1380'	8.4 - 8.6	28	NC	FW		
1380'	to	3000'	10.0	30-32	NC	Brine water		
3000'	to	6000'	8.4 - 9.5	30-32	NC	FW, brine		

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.

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Page 1

#### Application to Drill North Maduro Unit No. 6 Cimarex Energy Co. of Colorado Unit E, Section 20 T19S-R33E, Lea County, NM

9 Casing & Cementing Program:

String	Hole Size		Depth	See COA	Casir	ng OD	Weight	Collar	Grade
See COA Surface	17½"	0'		13 1380'	New	13%"	48#	STC	H-40
Intermediate	12¼"	0'	to	3000'	New	9%"	40#	LTC	J/K-55
Production	8¾"	0'	to	6000'	New	5½"	17#	LTC	P-110
10 <u>Cementing:</u> Surface メモレ COT Intermediate Production	Lead: 440S Tail: 30SKS TOC Surfa Lead: 980S Tail: 200SK TOC Surfa Lead: 960S	Halcem C ce KS Econo S HalCem ce KS Econo KS Versac 25% Exces	C + 2% Ca Cem + 5 n + 1% Ca Cem - H	aCl 14.2ppg 5% salt + 5 lt aCl 14.8ppg + 0.2 % HR-6	1.34 yield 5 om gilsonite 1.34 yield 2 501 2.44 11	90% Excess 14.6ppg 1 25% Excess .9ppg 2.44	5yield 100% 54yield 709 yield 50% Ex + 1 lbm/sk	6 Excess cess	HR-601 14.5pr

Office of the State Engineer indicates average depth to groundwater at 177'. Fresh water zones will be protected by setting 13%" casing at 550 and cementing to surface. Hydrocarbon zones will be protected by setting 9%" casing at 3000 and cementing to surface, and by setting 5 1/2" casing at 6000 and cementing to 2800.

Collapse Factor	<u>Burst Factor</u>	Tension Factor
1.125	1.125	1.6

#### 11 Pressure control Equipment:

Exhibit "E". A 13%" 5000 PSI working pressure B.O.P. tested to 3000 PSI consisting of one set of blind rams and one set of pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 6000.' A kelly cock will be installed and maintained in operable condition and a drill string safety value in the open position will be available on the rig floor.

BOP unit will be hydraulically operated. BOP will be nippled up and 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 5000 psi BOP system tested to 3000 psi.

BOPS will be tested by an independent service company to 250 psi low and 3000 psi high. Hydril will be tested to 250 psi low and 1500 psi high.

See COA

## Application to Drill **North Maduro Unit No. 6** Cimarex Energy Co. of Colorado Unit E, Section 20 T19S-R33E, Lea County, NM

## 12 Testing, Logging and Coring Program: See COA

- A. Mud logging program: 2 man unit from 3000 to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / CAL / GR
- C. No DSTs or cores are planned at this time.

### 13 Potential Hazards:

No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Cimarex does not anticipate that there will be enough H<sub>2</sub>S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H<sub>2</sub>S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H<sub>2</sub>S Safety package on all wells, attached is an "H<sub>2</sub>S Drilling Operations Plan." Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Estimated BHP 2400 psi Estimated BHT 139°

14 Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 30-35 days

If production casing is run an additional 30 days will be required to complete and construct surface facilities.

#### 15 Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals.Delawarepay will be perforated and stimulated.

The proposed well will be tested and potentialed as **an oil well**.

## Silver Oak 3



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Exhibit D – Rig Diagram North Maduro Unit No. 6 Cimarex Energy Co. of Colorado 20-19S-33E 2310 FNL & 610 FWL Lea County, NM

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Exhibit D-1 North Maduro Unit No. 6 Cimarex Energy Co. of Colorado 20-19S-33E 2310 FNL & 610 FWL Lea County, NM



1″=50'

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