

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address CELERO ENERGY II, LP 400 W. Illinois, Ste. 1601 Midland, TX 79701		² OGR Number 247128
³ Property Code 20416 303735		⁴ API Number 30-005-00940
⁵ Property Name Rock Queen Unit		⁶ Well No 503
⁹ Proposed Pool 1 Caprock Queen		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no J	Section 36	Township 13S	Range 31E	Lot Idn	Feet from the 1980	North/South line South	Feet from the 1980	East/Westline East	County Chaves
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⁸ Proposed 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/Westline	County
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Additional Well Information

¹¹ Work Type Code E	¹² Well Type Code I	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 4384' GL
¹⁶ Multiple No	¹⁷ Proposed Depth 3080'	¹⁸ Formation Queen	¹⁹ Contractor	²⁰ Spud Date When approved
Depth to Groundwater 100+		Distance from nearest fresh water well 1+ mile		Distance from nearest surface water 1800'
Pit: Liner, Synthetic <input type="checkbox"/> milstuck Clay <input type="checkbox"/> Pit Volume, bbls Drilling Method: Closed-Loop System <input checked="" type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
	8 5/8"	24#	See attached sheet		
	5 1/2"	14#	See attached sheet		

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Old name and # was: Rock Queen Unit 36 #10
New name and # is: Rock Queen Unit #503

See attached sheet.

Permit Expires 2 Years From Approval
Date Unless Drilling Underway

Re-Entry

WFX-168

R-1541

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name: Lisa Hunt

Title: Regulatory Analyst

E-mail Address: LHunt@celeroenergy.com

Date: 10/30/2008

Phone: (432)686-1883

OIL CONSERVATION DIVISION

Approved by:

Title: PETROLEUM ENGINEER

Approval Date: NOV 14 2008

Expiration Date:

Conditions of Approval Attached ☐

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State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-005-00940	² Pool Code 08559	³ Pool Name Caprock Queen
⁴ Property Code 20410 303735	⁵ Property Name Rock Queen Unit	⁶ Well Number 503
⁷ OGRID No. 247128	⁸ Operator Name CELERO ENERGY II, LP	⁹ Elevation 4384'

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
J	36	13S	31E		1980	South	1980	East	Chaves

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
¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

16					17 OPERATOR CERTIFICATION <i>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</i> <div><div></div><div>10/16/2008</div><div>Signature</div><div>Date</div></div> <div><div>Lisa Hunt</div><div>Printed Name</div></div>
				18 SURVEYOR CERTIFICATION <i>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</i> <div><div></div><div></div><div>Date of Survey</div><div>Signature and Seal of Professional Surveyor</div></div> <div><div></div><div>Certificate Number</div></div>	

CELERO ENERGY

Workover Procedure

DATE: 09-22-08

FIELD: Caprock

AREA: Chaves County, New Mexico

LSE/UNIT: Rock Queen Unit

WELL NO.: 503

Workover Objective: Re-enter P&A'd RQU #36J (State "U" #11). Run and cement new casing string as needed. Clean out/ drill out well to new TD @ 3080' +/- . Verify casing integrity. Acidize Queen interval. Return well to water injection.

Wellbore Sketch: Attached

Well History: Attached

Background Information: This 1956 drill well was converted to water injection 01/1964. Last reported injection was 04/1978, injecting 30 BWPD. This well injected 357 MBW at an IWR of 2.0 to 0.2. This well is an open hole completion that penetrated the top 5' of the Queen sand interval in an area of the field that should have 11' of net pay. The well was P&A'd 01-83.

PROCEDURE:

1. MIRU PU. Install wellhead and nipple up BOP's.
2. Drill out the surface 10 sx cement plug in the 8 5/8" surface casing and DO the 50 sx cement plug across the 8 5/8" casing shoe from 196' +/- to 347' +/- . DO/CO the wellbore to the top of the cut off 5 1/2"/14# casing at 1,201' +/- . Circulate well clean. Report any signs of pressure or gas to engineering. TOOH w/ workstring and bit.
3. TIH w/ rock bit for 5 1/2" casing on workstring. Re-enter cut off 5 1/2" casing. Dress off top of cut 5 1/2" casing as best as possible to allow for the running of tools and in preparation for tying into 5 1/2" casing with new casing to surface. DO/CO well to top of cement plug @ 2910' +/- . Circulate well clean. TOOH w/ workstring and bit.
4. MIRU wireline unit Log the 5 1/2" casing from the top of the cement plug to the top of the cut off 5 1/2" casing with a CBL/casing inspection log. There are no logs to correlate to on this well. RDMO wireline unit. **Consult with engineering the results of the logging.**
5. MIRU casing crew. RIH w/ 5 1/2"/14# casing and tie into top of cut off 5 1/2" casing @ 1,201' +/- . RDMO casing crew.
6. TIH w/ rock bit for 5 1/2" casing on workstring. Drill out 25 sx cement plug from 2910' +/- to TD @ 3071'. Circulate well clean. Report any signs of pressure or gas to engineering.

7. DO well to new TD of 3080' +/- . Circulate well clean. TOOH w/ workstring and bit.
 8. TIH with 5 ½" RBP and packer on workstring to check casing integrity of the wellbore. Repair casing as needed.
 9. TIH with injection packer and BHA on 2 3/8" injection tubing. Set packer @ 3000' +/- . Circulate packer fluid up tubing-casing annulus. Pressure test tubing-casing annulus to 600 psi.
 10. Acidize the Queen sand interval (3066' – 3077') w/ 1500 gal 7.5% NEFE HCl acid in two stages with 500# rock salt in saturated 10 PPG brine as the diverting agent between each stage. Pump acid treatment @ 4 – 6 BPM not to exceed 3000 psi STP.
 11. Flow/swab load back.
 12. Nipple down BOP. RDMO PU.
 13. Return well to water injection.
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CELERO ENERGY

FIELD: Caprock
LEASE/UNIT: Rock Queen
COUNTY: Chaves

DATE: Dec. 28, 2007
BY: GSA
WELL: ~~36J~~ 503
STATE: New Mexico

Location: 1980' FSL & 1980' FEL, Sec 36J, T13S, R31ECM
SPUD: 12/55 COMP: 1/56
CURRENT STATUS: P&A Injector (01-83)
Original Well Name: State "U" #11

KB = 4,393'
GL = 4,384'
API = 30-005-00940

