

## 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

RECEIVED

Form C-101

May 27, 2004

## Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

FEB 12 2008

Submitted to appropriate District Office

AMENDED REPORT  
Permit renewal request

HOBBS OGD

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

Operator Name and Address: <b>CROWNQUEST OPERATING, LLC</b>		OGRID Number: 213190 ✓
		API Number 30 - 025 38598
Property Code <b>304585</b>	Property Name <b>HAHN STATE</b>	Well No. 1 ✓
Proposed Pool 1: <b>Upper SAUNDERS PERMO PENN</b>		Proposed Pool 2

## 7 Surface Location

UL or lot no P	Section 15	Township 4S	Range 33E	Lot Idn	Feet from the 900	North/South line South	Feet from the 330	East/West line East	County Lea ✓
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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/West line	County
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## Additional Well Information

Work Type Code PB	Well Type Code O	Cable/Rotary R	Lease Type Code State ✓	Ground Level Elevation 4200'
Multiple No	Proposed Depth 11,000'	Formation Penn	Contractor TBA	Spud Date RC: 2-13-08
Depth to Groundwater: 250' <b>110'</b>		Distance from nearest fresh water well: none		Distance from nearest surface water: none
Pit: Liner: Synthetic: X 12 mils thick Clay <input type="checkbox"/> Pit Volume: 2000 bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine 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
17 1/2"	13 3/8"	48#	445'	600 sx	Surface
12 1/4"	9 5/8"	40 & 36#	5948'	2400 sx	Surface
8 3/4"	5 1/2"	17#	11000'	720 sx	8000'

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.

Energen Resources Corporation drilled this well to total depth of 13,649', planned to P & A. Wellbore has been transferred to CrownQuest Operating, LLC by form C-145. CrownQuest plans to set a cement plug from 11,500' to 12,000' +/- to prep to run 5 1/2" casing. CrownQuest plans to run 5 1/2" casing, as above, to 11,000', as per wellbore diagram attached. Cementing with lead cement 170 sx 65/35 pox H, 6% gel, 3% salt, tail with 550 sx 50/50 poz H, 2% gel, 3% salt. CrownQuest plans to complete in the Penn @ approx 9200', production test. CrownQuest will remediate location and existing pit upon completion of plug back procedures.

**Permit Expires 2 Years From Approval  
Date Unless Drilling Underway  
Plugback**

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 X, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name: Ann E. Ritchie

Title: Regulatory Agent

E-mail Address: ann.ritchie@wtor.net

Date: 2-7-08

Phone: 432 684-6381/685-3116

## OIL CONSERVATION DIVISION

Approved by:

*Chris Williams*

Title: DISTRICT SUPERVISOR / REGIONAL MANAGER

Approval Date:

FEB 15 2008

Expiration Date:

Conditions of Approval Attached ☐

District I  
1625 N. French Dr., Hobbs, NM 88240  
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1220 S. St. Francis Dr., Santa Fe, NM 87505

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**

<sup>1</sup> API Number <b>30-025 38598</b>	<sup>2</sup> Pool Code <b>55120</b>	<sup>3</sup> Pool Name <b>Upper Saunders Perno Penn</b>
<sup>4</sup> Property Code <b>304585</b>	<sup>5</sup> Property Name <b>Hahn State</b>	
<sup>7</sup> OGRID No. <b>213190</b>	<sup>8</sup> Operator Name <b>CROWNQUEST OPERATING, LLC</b>	
		<sup>6</sup> Well Number <b>001</b>
		<sup>9</sup> Elevation <b>4200'</b>

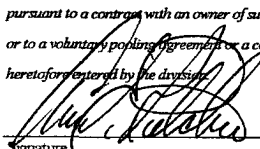
**<sup>10</sup> Surface Location**

UL or lot no. <b>P</b>	Section <b>15</b>	Township <b>14S</b>	Range <b>33E</b>	Lot Idn	Feet from the <b>900</b>	North/South line <b>South</b>	Feet from the <b>330</b>	East/West line <b>East</b>	County <b>Lea</b>
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**<sup>11</sup> 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
<sup>12</sup> Dedicated Acres <b>40</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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					<b><sup>17</sup> OPERATOR CERTIFICATION</b> 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 _____ Date <b>02/07/2008</b> Ann E. Ritchie, Regulatory Agent Printed Name <b>Recompletion/drill out to Delaware</b>
					<b><sup>18</sup> SURVEYOR CERTIFICATION</b> 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. Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____

### DIRECTIONS TO LOCATION:

From intersection of US 82 & SH 457 (10 miles west of Lovington, NM), go North on SH 457 for 11.8 miles, East on lease road 0.9 miles, then north 0.9 miles to location

Date Spudded: 11/21/2007  
KB: 4219' KB, 4200' GL

### CrownQuest Operating, LLC

#### Hahn State #1

990' FSL, 330' FEL, Sec. 15, T-14-S, R-33-E,  
Lea County, NM, API #30-025-38598

### WELL HISTORY

11/21/07 Spud well. Drld to 445'. Set and cmt 13 3/8" csg @ 445'. Cmt circ.

12/13/07 Drld to 5948'. Set and cmt 9 5/8" csg @ 5948'. Cmt circ.

02/06/07 Drld to 13,950'. Testing. Circulating. Prepare to turn well over to CrownQuest Operating.

- Energen -

17 1/2" Hole →

13-3/8", 48#, H-40 csg @ 445'  
Cmt'd w/600 sx Class "C"  
Circ 288 sx to reserve

12 1/4" Hole →

9-5/8", 40# & 36#, HCK-55 & J-55 casing @ 5948'

Cmt'd w/2400 sx 35/65 Poz "C"  
Tail w/200 sx Class "C"  
Circ 529 sx to reserve

8 3/4" Hole →

### PROPOSED CASING & CEMENT PROGRAM

5 1/2", 17#, N-80 casing @ 11,000'

Lead Cmt w/170 sx 65/35 Poz "H", 6% gel, 3% salt

Tail Cmt w/550 sx 50/50 Poz "H", 2% gel, 3% salt

Estimated TOC ± 8000'

### PROPOSED CEMENT PLUG

Cmt plug (150 sx 50/50 Poz "H")

From ±11,500' to ±12,000'

Open  
Hole

State of New Mexico  
Energy, Minerals and Natural Resources

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

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

1. Operator Name and Address ENERGEN RESOURCES CORPORATION 605 21ST STREET NORTH BIRMINGHAM, AL 352032707		2. OGRID Number 162928
		3. API Number 30-025-38598
4. Property Code 36812	5. Property Name HAHN STATE	6. Well No. 001

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	15	14S	33E	P	900	S	330	E	LEA

8. Pool Information

Wildcat Devonian	0
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Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 4200
14. Multiple N	15. Proposed Depth 14000	16. Formation Devonian	17. Contractor	18. Spud Date
Depth to Ground water 90		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 _____ mils thick Clay <input type="checkbox"/> Pit Volume: 12000 bbls Drilling Method: Closed Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	400	400	0
Int1	12.25	9.625	40	6000	2000	0
Prod	8.75	5.5	17	14000	1500	5500

Casing/Cement Program: Additional Comments

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Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Shaffer

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 <input checked="" type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> . Printed Name: Electronically filed by Vicki Donaghey Title: Regulatory Analyst Email Address: vdonaghe@energen.com Date: 10/30/2007 Phone: 505-325-6800	OIL CONSERVATION DIVISION	
	Approved By: Paul Kautz	
	Title: Geologist	
	Approved Date: 10/31/2007 Expiration Date: 10/31/2008	
	Conditions of Approval Attached	