

**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 Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
August 1, 2011  
Permit 141133

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

1. Operator Name and Address NADEL AND GUSSMAN HEYCO, LLC PO BOX 193 ROSWELL, NM 88202		2. OGRID Number 258462
		3. API Number 30-015-39761
4. Property Code 38960	5. Property Name IRON DUKE	6. Well No. 002H

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	9	18S	26E	I	2310	S	330	E	EDDY

**8. Pool Information**

ATOKA;GLORIETA-YESO	3250
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**Additional Well Information**

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type Private	13. Ground Level Elevation 3349
14. Multiple N	15. Proposed Depth 7000	16. Formation Yeso Formation	17. Contractor	18. Spud Date 6/1/2011
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

**19. Proposed Casing and Cement Program**

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	1000	400	0
Int1	8.75	7	26	3000	550	0
Prod	6.125	4.5	13.5	7000	0	

**Casing/Cement Program: Additional Comments**

Will 1" cement to surface if necessary on surface casing. Will circulate cement on 7" casing. Complete open hole with packers plus completion in 6.125" hole set liner hanger at 2650.

**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	1500	Hydril
DoubleRam	3000	3000	Cameron

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 type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> . Printed Name: Electronically filed by WENDY NORTHCUTT Title: Email Address: wnorthcutt@heycoenergy.com Date: 12/15/2011	<b>OIL CONSERVATION DIVISION</b>	
	Approved By: Randy Dade	
	Title: District Supervisor	
	Approved Date: 2/1/2012	Expiration Date: 2/1/2014
	Phone: 575-623-6601	

Conditions of Approval Attached

DISTRICT I  
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DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone (505) 334-6176 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 and Natural Resources Department

Form C-102  
Revised August 1, 2011

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		Pool Code	Pool Name	
Property Code	Property Name IRON DUKE		Well Number 2H	
GRID No.	Operator Name NADEL & GUSSMAN HEYCO		Elevation 3349'	

**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	9	18 S	26 E		2310	SOUTH	330	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
L	9	18 S	26 E		1980	SOUTH	330	WEST	EDDY
Dedicated Acres		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

<p><b>PROPOSED BOTTOM HOLE LOCATION</b> Lat - N 32°45'38.41" Long - W 104°23'39.75" NMSPCE- N 640468.53 E 522573.33 (NAD-83)</p> <p><b>SURFACE LOCATION</b> Lot - N 32°45'22.84" Long - W 104°22'45.83" NMSPCE- N 638893.368 E 527126.538 (NAD-83)</p>	<p><b>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.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>Email Address _____</p>
	<p><b>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.</p>
	<p>Date Surveyed _____</p> <p>Signature &amp; Seal of Professional Surveyor _____</p> <p>Professional Land Surveyor W.O. No. 25671</p>
	<p>Certificate No. Gary L. Jones 7977</p> <p><b>Basin Surveys 25671</b></p>

## Permit Comments

**Operator:** NADEL AND GUSSMAN HEYCO, LLC , 258462

**Well:** IRON DUKE #002H

**API:** 30-015-39761

Created By	Comment	Comment Date
CSHAPARD	Re-ject APD, land plat SHL and BHL are different from submitted attached land plat.	12/9/2011
jgoss	ORIGINAL SUBMISSION, C-102 HAD INCORRECT RANGE (31-E) RESUBMITTED WITH CORRECT RANGE (26-E). THANKS	12/15/2011
CSHAPARD	Land p/P	2/1/2012

# Permit Conditions of Approval

**Operator:** NADEL AND GUSSMAN HEYCO, LLC , 258462

**Well:** IRON DUKE #002H

**API:** 30-015-39761

OCD Reviewer	Condition
CSHAPARD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string