

**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 253383

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

1. Operator Name and Address ENERGEN RESOURCES CORPORATION 3510 N A St Midland, TX 79705		2. OGRID Number 162928
4. Property Code 322179		3. API Number 30-025-45031
5. Property Name BRAHMAN 15 10 STATE COM		6. Well No. 453H

**7. Surface Location**

UL - Lot N	Section 15	Township 24S	Range 35E	Lot Idn N	Feet From 508	N/S Line S	Feet From 2310	E/W Line W	County Lea
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**8. Proposed Bottom Hole Location**

UL - Lot C	Section 10	Township 24S	Range 35E	Lot Idn C	Feet From 100	N/S Line N	Feet From 2310	E/W Line W	County Lea
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**9. Pool Information**

WC-025 G-09 S243532M;WOLFBONE	98098
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**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3331
16. Multiple N	17. Proposed Depth 22000	18. Formation Bone Spring	19. Contractor	20. Spud Date 10/1/2018
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	61	800	1123	0
Int1	12.25	10.75	45.5	5210	948	0
Int2	9.875	7.625	29.7	11496	2905	0
Prod	6.75	5.5	23	11396	1525	8000
Prod	6.75	4.5	15.1	22185	1525	8000

**Casing/Cement Program: Additional Comments**

Plan to drill a 17-1/2" hole to 800' with fresh water. Run 13-3/8", 61# J-55 casing and cement to surface. Drill 12-1/4" hole to 5,210' with brine water, run 10-3/4" 45.5# HCL-80 casing and cement to surface. Drill 9-7/8" hole to 11,496' with cut brine, run 7-5/8" 29.7# HCP-110 casing and cement to surface. Drill 6-3/4" hole curve and lateral with 11 ppg OBM to approximately 22,185'. Run 4-1/2" x 5-1/2" tapered production string consisting of 4-1/2" 15.1# CYP-110 and 5-1/2" 23# CYP110 casing and cement to 8,000'.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	10000	8500	Cameran
Annular	10000	8500	Cameran - Single Ram
Annular	5000	2500	Cameran

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. <b>I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.</b>  Signature:	<b>OIL CONSERVATION DIVISION</b>
Printed Name: Electronically filed by Jenifer L Sorley	Approved By: Paul F Kautz
Title: Regulatory Supervisor	Title: Geologist
Email Address: jenifer.sorley@energen.com	Approved Date: 8/2/2018      Expiration Date: 8/2/2020
Date: 8/2/2018      Phone: 432-818-1732	Conditions of Approval Attached

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

Form C-102  
 August 1, 2011  
 Permit 253383

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-025-45031	2. Pool Code 98098	3. Pool Name WC-025 G-09 S243532M;WOLFBONE
4. Property Code 322179	5. Property Name BRAHMAN 15 10 STATE COM	6. Well No. 453H
7. OGRID No. 162928	8. Operator Name ENERGEN RESOURCES CORPORATION	9. Elevation 3331

**10. Surface Location**

UL - Lot N	Section 15	Township 24S	Range 35E	Lot Idn N	Feet From 508	N/S Line S	Feet From 2310	E/W Line W	County Lea
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**11. Bottom Hole Location If Different From Surface**

UL - Lot C	Section 10	Township 24S	Range 35E	Lot Idn C	Feet From 100	N/S Line N	Feet From 2310	E/W Line W	County Lea
12. Dedicated Acres 320.00	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**

	<b>OPERATOR CERTIFICATION</b> <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 unleased mineral interest in the land including the proposed bottom hole location(s) 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>  E-Signed By:           Jennifer L Sorley Title:                    Regulatory Supervisor Date:                    8/2/2018
	<b>SURVEYOR CERTIFICATION</b> <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>  Surveyed By:           Wilson D. Watson Date of Survey:        4/17/2018 Certificate Number:   3959

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Form APD Comments

Permit 253383

**PERMIT COMMENTS**

Operator Name and Address: ENERGEN RESOURCES CORPORATION [162928] 3510 N A St Midland, TX 79705		API Number: 30-025-45031
		Well: BRAHMAN 15 10 STATE COM #453H
Created By	Comment	Comment Date
ksharp	rejected at operators request	8/1/2018

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Form APD Conditions

Permit 253383

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**Oil Conservation Division**  
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**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: ENERGEN RESOURCES CORPORATION [162928] 3510 N A St Midland, TX 79705	API Number: 30-025-45031
	Well: BRAHMAN 15 10 STATE COM #453H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE1 CASING - Cement must circulate to surface -- 2) INTERMEDIATE2 CASING - Cement must tie back into intermediate1 casing -- 3) PRODUCTION CASING - Cement must tie back into intermediate2 casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCDD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD.
pkautz	Stage Tool - 1) Must notify OCD Hobbs Office prior to running Stage Tool at 575-370-3186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.