

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 249858

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

1. Operator Name and Address ENERGEN RESOURCES CORPORATION 2198 Bloomfield Highway Farmington , NM 87401		2. OGRID Number 162928
4. Property Code 317499		3. API Number 30-025-44607
5. Property Name ANGUS STATE 24 35 16		6. Well No. 456H

7. Surface Location

UL - Lot A	Section 16	Township 24S	Range 35E	Lot Idn A	Feet From 510	N/S Line N	Feet From 449	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot P	Section 16	Township 24S	Range 35E	Lot Idn P	Feet From 330	N/S Line S	Feet From 525	E/W Line E	County Lea
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9. Pool Information

WC-025 G-09 S243516D;BONE SPRING	98275
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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 3366
16. Multiple N	17. Proposed Depth 16414	18. Formation Wolfcamp	19. Contractor	20. Spud Date 5/1/2018
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	800	0
Int1	12.25	9.625	40	5210	1750	0
Int2	8.75	7	29	11480	1400	0
Prod	6.125	4.5	15.1	16414	500	11200

Casing/Cement Program: Additional Comments

Description of Operation 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 9-5/8" 40# HCL-80 casing and cement to surface. Drill 8-3/4" hole to 11,480' with cut brine. Run 7" 29# HCP-110 casing and cement to surface. Drill 6-1/8" hole curve and lateral with OBM to approximately 16,414'. Run 4-1/2" 15.1# CYP-110 liner and cement to 11,200'. Well Control Type 13-5/8" Double Ram 10M 13-5/8" Single Ram 10M 13-5/8" Annular 5M Test 8,500 Manufacture Cameran

22. Proposed Blowout Prevention Program

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

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Jenifer L Sorley	Approved By: Paul Kautz
Title: Regulatory Supervisor	Title: Geologist
Email Address: jenifer.sorley@energen.com	Approved Date: 3/15/2018 Expiration Date: 3/15/2020
Date: 3/14/2018 Phone: 432-818-1732	Conditions of Approval Attached

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Permit 249858

1. API Number 30-025-44607	2. Pool Code 98275	3. Pool Name WC-025 G-09 S243516D;BONE SPRING
4. Property Code 317499	5. Property Name ANGUS STATE 24 35 16	6. Well No. 456H
7. OGRID No. 162928	8. Operator Name ENERGEN RESOURCES CORPORATION	9. Elevation 3366

UL - Lot A	Section 16	Township 24S	Range 35E	Lot Idn A	Feet From 510	N/S Line N	Feet From 449	E/W Line E	County Lea
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UL - Lot P	Section 16	Township 24S	Range 35E	Lot Idn P	Feet From 330	N/S Line S	Feet From 525	E/W Line E	County Lea
12. Dedicated Acres 160.00			13. Joint or Infill		14. Consolidation Code			15. Order No.	

			
			

OPERATOR CERTIFICATION

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.

E-Signed By: Jennifer L Sorley

Title: Regulatory Supervisor

Date: 3/14/2018

SURVEYOR CERTIFICATION

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.

Surveyed By: Wilson Watson

Date of Survey: 2/20/2018

Certificate Number: 3959

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Form APD Comments

Permit 249858

PERMIT COMMENTS

Operator Name and Address: ENERGEN RESOURCES CORPORATION [162928] 2198 Bloomfield Highway Farmington , NM 87401		API Number: 30-025-44607
		Well: ANGUS STATE 24 35 16 #456H
Created By	Comment	Comment Date
pkautz	Received GCP 03/14/2018	3/14/2018

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Form APD Conditions

Permit 249858

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Santa Fe, NM 87505

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: ENERGEN RESOURCES CORPORATION [162928] 2198 Bloomfield Highway Farmington , NM 87401	API Number: 30-025-44607
	Well: ANGUS STATE 24 35 16 #456H

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.