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District IV
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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 247252

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

1. Operator Name and Address		2. OGRID Number
ENERGEN RESOURCES CORPORATION 3510 North "A" Street Midland , TX 79705		162928
		3. API Number 30-025-44376
4. Property Code 317499	5. Property Name ANGUS STATE 24 35 16	6. Well No. 451H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	16	24S	35E	D	300	N	610	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	15	24S	35E	M	330	S	330	W	Lea

9. Pool Information

WC-025 G-09 S243532M;WOLFBONE	98098

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3382
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	16414	Wolfbone		2/15/2018
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'.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	10000	8500	Cameran
Pipe	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 Jennifer L Stone	Approved By:	Paul Kautz
Title:		Title:	Geologist
Email Address:	jennifer.stone@energen.com	Approved Date:	1/18/2018 — Expiration Date: 1/18/2020
Date:	1/17/2018 — Phone: 432-818-1757	Conditions of Approval Attached	

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Form C-102
August 1, 2011

Permit 247252

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-025-44376	98098	WC-025 G-09 S243532M;WOLFBONE
4. Property Code	**5. Property Name**	**6. Well No.**
317499	ANGUS STATE 24 35 16	451H
7. OGRID No.	**8. Operator Name**	**9. Elevation**
162928	ENERGEN RESOURCES CORPORATION	3382

10. Surface Location

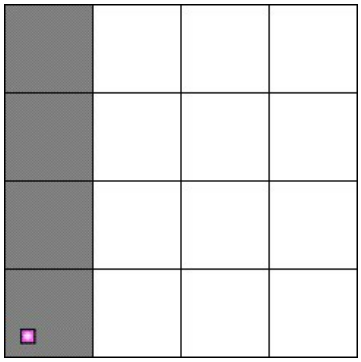
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	16	24S	35E	D	300	N	610	W	Lea

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	15	24S	35E	M	330	S	330	W	Lea

12. Dedicated Acres	13. Joint or Infill	14. Consolidation Code	15. Order No.
160.00			

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



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 Stone
Title:
Date: 1/17/2018

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 D. Watson
Date of Survey: 1/4/2018
Certificate Number: 3959

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Form APD Comments

Permit 247252

PERMIT COMMENTS

Operator Name and Address:	API Number:
ENERGEN RESOURCES CORPORATION [162928] 3510 North "A" Street Midland , TX 79705	30-025-44376
	Well: ANGUS STATE 24 35 16 #451H

Created By	Comment	Comment Date
ksharp	Gas Capture Plan must be submitted to Paul Kautz for completion of approval process	1/17/2018
pkautz	GCP Received 01/17/2018	1/18/2018

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PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
ENERGEN RESOURCES CORPORATION [162928] 3510 North "A" Street Midland , TX 79705	30-025-44376
	Well: ANGUS STATE 24 35 16 #451H

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	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	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	1)- The Operator is to notify NMOCD 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.