District | 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 231248

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

1. Operato	ENE	e and Address RGEN RESOUR North "A" Street		ATION							2. OGR	ID Number 162928		
		and , TX 79705									3. ALT	30-025-43722		
4. Property	Code 3174			5. Property Name ANGUS	STATE	24 35 16					6. Well	No. 454H		
						7	. Surf	ace Location						
UL - Lot	В	Section 16	Township 2	Range 4S	35E	Lot Idn	В	Feet From 260	N/S Line N	Feet From	2250	E/W Line E	County	Lea
						8. Propo	sed B	ottom Hole Locatio	on					
UL - Lot	0	Section 16	Township 2	Range 24S	35E	Lot Idn	0	Feet From 330	N/S Line	Feet From	2250	E/W Line	County	Lea
						9	Pool	Information						
WC-025	G-09	S243532M;WOL	FBONE									98098		
						Addi	tional	Well Information						
11. Work T	ype New	Well	12. Well Typ	oe OIL	13. Ca	able/Rotary		14	4. Lease Type State	15.		evel Elevation 387		
16. Multiple 17. Proposed Depth N 16700			18. Formation Bone Spring		19	19. Contractor 20. Spuce			Spud Date 7/15/2017					
Depth to G	round	water	- 1		Distar	nce from near	est fresi	water well		Dis	stance to n	earest surface water		

21. Proposed Casing and Cement Program

			Ziii i opooda dadiiig	and comont regiani		
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	11500	1400	0
Prod	6.125	4.5	15.1	16621	500	11200

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 9-5/8" 40# HCL-80 casing and cement to surface. Drill 8-3/4" hole to 11,500' 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 16,621'. 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	2500	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 CONS	SERVATION DIVISION
Printed Name:	Electronically filed by	Dana R Atwater	Approved By:	Paul Kautz	
Title:		16 8 1 8 1 1 2 5 1	Title:	Geologist	1000000
Email Address:	dana.atwater@energ	en.com	Approved Date:	3/26/2017	Expiration Date: 3/26/2019
Date:	3/6/2017	Phone: 432-686-3592	Conditions of Approval Attached		

District I

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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-102 August 1, 2011

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-025-43722	98098	WC-025 G-09 S243532M;WOLFBONE
4. Property Code	5. Property Name	6. Well No.
317499	ANGUS STATE 24 35 16	454H
7. OGRID No.	8. Operator Name	9. Elevation
162928	ENERGEN RESOURCES CORPORATION	3387

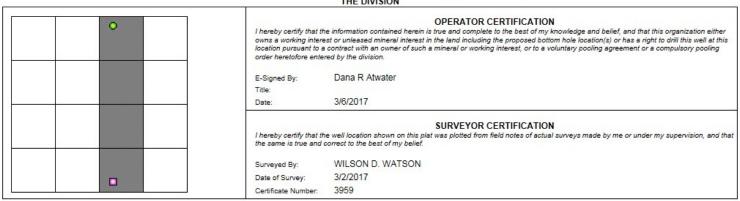
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
В	16	24S	35E	В	260	N	2250	E	Lea

11. Bottom Hole Location If Different From Surface

UL - Lot O	Section 16	Township 24S	Range 35E	Lot Idn O	Feet From 330	N/S Line S	Feet From 2250	E/W Line	County Lea
12. Dedicated Acre 160.00			13. Joint or Infill		14. Consolidation Cod	e		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



Form APD Comments

Permit 231248

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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

PERMIT COMMENTS

ENERGEN RESOURCES CORPORATION [162928]	API Number: 30-025-43722
3510 North "A" Street Midland , TX 79705	Well: ANGUS STATE 24 35 16 #454H

Created By Comment Comment Date District I
1625 N. French Dr., Hobbs, NM 88240
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Permit 231248

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
ENERGEN RESOURCES CORPORATION [162928]	30-025-43722
	Well:
Midland , TX 79705	ANGUS STATE 24 35 16 #454H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	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
pkautz	If using a pit for drilling and completion operations, must have an approved pit from prior to spudding the well.
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	Only Fresh Water and Air are Valid Drilling Fluids for Surface Casing
pkautz	Operator shall notify appropriate District office when setting conductor pipe.
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of spudding a well.
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	If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Must notify OCD Hobbs Office if lost circulation is encountered at 575-370-3186
pkautz	Must notify OCD Hobbs Office of any water flows in the Castile Formation at 575-370-3186. Report depth and flow rate
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.
pkautz	Submit Gas Capture Plan form prior to spudding or initiating recompletion operations