

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-8161 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) 334-8178 Fax:(505) 334-8170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3482

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 233593

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

1. Operator Name and Address MANZANO LLC PO BOX 2107 ROSWELL, NM 882022107		2. OGRID Number 231429
		3. API Number 30-025-43704
4. Property Code 317547	5. Property Name SODBUSTER 21 FEE	6. Well No. 004H

7. Surface Location

UL - Lot N	Section 21	Township 09S	Range 35E	Lot Idn N	Feet From 200	N/S Line S	Feet From 1650	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot C	Section 21	Township 09S	Range 35E	Lot Idn C	Feet From 330	N/S Line N	Feet From 1650	E/W Line W	County Lea
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9. Pool Information

JENKINS;SAN ANDRES	33950
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 4152
16. Multiple N	17. Proposed Depth 9365	18. Formation San Andres Formation	19. Contractor	20. Spud Date 3/31/2017
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	12.25	8.625	32	2225	1200	0
Prod	7.875	5.5	20	9365	1875	0

Casing/Cement Program: Additional Comments

After Surface casing is set, we plan on drilling a pilot hole to +/- 5,000'. Log from 5,000' to 2,225'. After logs are ran, set a cement plug for kick off at ~4,287'

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	

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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature: Printed Name: Electronically filed by Michael Hanagan Title: Manager Email Address: debbi@manzanoenergy.com Date: 3/20/2017	OIL CONSERVATION DIVISION Approved By: Paul Kautz Title: Geologist Approved Date: 3/26/2017 Expiration Date: 3/26/2019 Conditions of Approval Attached
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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

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name SODBUSTER 21 FEE	Well Number 4H
OGRD No.	Operator Name MANZANO LLC	Elevation 4152'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	21	9 S	35 E		200	SOUTH	1650	WEST	LEA

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
C	21	9 S	35 E		330	NORTH	1650	WEST	LEA
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

N: 920618.6 E: 833599.3 NAD 83	1650'	N: 920645.2 E: 836242.2 NAD 83	PROPOSED BOTTOM HOLE LOCATION Lat - N 33°31'33.82" Long - W 103°22'07.99" NMSPCE- N 920305.3 E 835252.9 (NAD-83)	N: 920676.7 E: 838886.9 NAD 83
PENETRATION POINT Lat - N 33°30'51.74" Long - W 103°22'07.84" NMSPCE- N 916052.5 E 835304.7 (NAD-83)				
SURFACE LOCATION Lat - N 33°30'46.82" Long - W 103°22'07.88" NMSPCE- N 915554.9 E 835306.3 (NAD-83)				
N: 915335.9 E: 833663.3 NAD 83	1650'	P.P. 700 FSL 1650 FHL		N: 915389.4 E: 838945.4 NAD 83

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 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.

3-2017

Signature _____ Date _____

Printed Name _____

Email Address Kalc@manzanoenergy.com

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.

FEBRUARY 10, 2017

Date Surveyed _____

Signature Professional Surveyor

Certified by GARY L. JONES 7977

Scale: 1" = 2000'

WO Num.: 32697

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Form APD Comments

 Permit 233593

PERMIT COMMENTS

Operator Name and Address: MANZANO LLC [231429] PO BOX 2107 ROSWELL , NM 882022107		API Number: 30-025-43704
		Well: SODBUSTER 21 FEE #004H
Created By	Comment	Comment Date
lpack	After Surface casing is set, we plan on drilling a pilot hole to +/- 5,000'. Log from 5,000' to 2,225'. After logs are ran, set a cement plug for kick off at ~4,287"	3/20/2017

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Form APD Conditions

Permit 233593

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MANZANO LLC [231429] PO BOX 2107 ROSWELL , NM 882022107	API Number: 30-025-43704
	Well: SODBUSTER 21 FEE #004H

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	1) SURFACE & PRODUCTION CASING - Cement must circulate to surface –
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 NMOC 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 spud