

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 263036

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

1. Operator Name and Address MANZANO LLC P.O. Box 2107 Roswell, NM 88202		2. OGRID Number 231429
4. Property Code 324922		3. API Number 30-041-20985
5. Property Name MORRISON SAN ANDRES UNIT		6. Well No. 942H

7. Surface Location

UL - Lot C	Section 16	Township 06S	Range 34E	Lot Idn C	Feet From 1050	N/S Line N	Feet From 1655	E/W Line W	County Roosevelt
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8. Proposed Bottom Hole Location

UL - Lot N	Section 4	Township 06S	Range 34E	Lot Idn 3	Feet From 25	N/S Line N	Feet From 1590	E/W Line W	County Roosevelt
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9. Pool Information

CHAVEROO;SAN ANDRES, NORTHEAST	12080
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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 4354
16. Multiple N	17. Proposed Depth 11350	18. Formation San Andres	19. Contractor	20. Spud Date 2/25/2019
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	9.625	36	2300	1025	0
Prod	8.75	5.5	20	11350	2500	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	SCHAEFER

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: 1/30/2019	<div style="text-align: center;">OIL CONSERVATION DIVISION</div> Approved By: Paul F Kautz Title: Geologist Approved Date: 2/1/2019 Expiration Date: 2/1/2021 Conditions of Approval Attached
Phone: 505-623-1996	

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Form C-102
 August 1, 2011
 Permit 263036

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-041-20985	2. Pool Code 12080	3. Pool Name CHAVEROO;SAN ANDRES, NORTHEAST
4. Property Code 324922	5. Property Name MORRISON SAN ANDRES UNIT	6. Well No. 942H
7. OGRID No. 231429	8. Operator Name MANZANO LLC	9. Elevation 4354

10. Surface Location

UL - Lot C	Section 16	Township 06S	Range 34E	Lot Idn C	Feet From 1050	N/S Line N	Feet From 1655	E/W Line W	County Roosevelt
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11. Bottom Hole Location If Different From Surface

UL - Lot N	Section 4	Township 06S	Range 34E	Lot Idn 3	Feet From 25	N/S Line N	Feet From 1590	E/W Line W	County Roosevelt
12. Dedicated Acres 203.60			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

	OPERATOR CERTIFICATION <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: Michael Hanagan Title: Manager Date: 1/30/2019
	SURVEYOR CERTIFICATION <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: GARY JONES Date of Survey: 1/23/2019 Certificate Number: 7977

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Form APD Comments

Permit 263036

PERMIT COMMENTS

Operator Name and Address: MANZANO LLC [231429] P.O. Box 2107 Roswell, NM 88202	API Number: 30-041-20985
	Well: MORRISON SAN ANDRES UNIT #942H

Created By	Comment	Comment Date
lpack	DRILL 12.25" SURFACE HOLE TO 2300', SET 9.625" CASING TO TD & CEMENT TO SURFACE WITH 1025sx CEMENT. WAIT 4 HOURS BEFORE STARTING NU BOPE & MINIMUM OF 12 HOURS BEFORE DRILLING NEW FORMATION. DRILL 8.75" HOLE TO KOP @ 3240', BUILD CURVE FROM 3240-4555'MD. DRILL LATERAL FROM 4555'-11350'MD. RUN 5.5" PRODUCTION CASING TO TD & CEMENT TO SURFACE WITH 2500sx CEMENT. NU WELLHEAD. WAIT TO FRAC	1/30/2019
ksharp	Gas Capture Plan, form C-102, and required additional HZ well information submitted separately	1/31/2019

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Form APD Conditions

Permit 263036

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MANZANO LLC [231429] P.O. Box 2107 Roswell, NM 88202	API Number: 30-041-20985
	Well: MORRISON SAN ANDRES UNIT #942H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	Will require a administrative order for non-standard location prior to placing the well on production.
pkautz	SURFACE & PRODUCTION CASING Cement must circulate to surface
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
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 C103) within ten (10) days of the well being spud 2) Drilling Sundries Form C103 (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 C104
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 C103 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 5753703186 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