

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-021-20639
1. Type of Well: Oil Well ☐ Gas Well ☒ Other		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator WHITING OIL AND GAS CORPORATION		6. State Oil & Gas Lease No. 313939
3. Address of Operator 400 W ILLINOIS STE 1300 MIDLAND, TX 79701		7. Lease Name or Unit Agreement Name LEIWS 2028 32
4. Well Location Unit Letter K 1659 feet from the SOUTH line and 1659 feet from the WEST line Section 32 Township 20N Range 28E NMPM County HARDING		8. Well Number 01
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5563' GR		9. OGRID Number 25078
		10. Pool name or Wildcat BRAVO DOME CARBON DIOXIDE GAS 640

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☒	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL. ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐			

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

SEE ATTACHED P&A PROCEDURE AND SCHEMATIC

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Kay Maddox

TITLE: REGULATORY ANALYST DATE: 12/08/2015

Type or print name Kay Maddox E-mail address: kay.Maddox@Whiting.com PHONE: 432-638-8475

For State Use Only

APPROVED BY:

Will

TITLE

DIST IV

DATE

12/28/15

Conditions of Approval (if any):



* EXP *

30-021-20639

Lewis 2028 #321 P&A

RECOMMENDED REMEDIAL WORK

Date December 7, 2015

Lease Lewis 2028 Well No #321 WOG GWI 100.00 % (87.5 % NWI)
 Pool Bravo Dome, West County Harding State NM API # 30 - 021 - 20639
 Legal Location: 1659' FSL, 1659' FWL, Sec 32, T - 20 - N, R - 28 - E
 Completion Date 11-19-14 @ T. D. 2,925' I. P. / AOF: 0 mcf, 0 bwpd
 Water Hrs 24 flowing, Present T. D. 2826' Elevation 5563' GL KB = 5569'

DESCRIPTION OF PROSPECTIVE OR PAY ZONES

Name or Type of Zone	Top	Bottom	Remarks
<u>Santa Rosa</u>	<u>1426'</u>	<u>1786'</u>	<u>Regional CO2 Production Interval</u>
<u>San Andres / Glorieta</u>	<u>1897'</u>	<u>2273'</u>	<u>Lost Circulation Interval</u>
<u>Tubb sand</u>	<u>2708'</u>	<u>2767'</u>	<u>Proposed CO2 Production Interval</u>

CASING AND LINER RECORD

Size	Weight	Grade	Set At	SX CMT	Hole Size	Perf.	Remarks
<u>9-5/8"</u>	<u>36#</u>	<u>J-55</u>	<u>724'</u>	<u>450</u>	<u>12-1/4"</u>		<u>Cement circulated</u>
<u>5-1/2"</u>	<u>15.5#</u>	<u>J-55</u>	<u>2872'</u>	<u>625</u>	<u>8-3/4"</u>	<u>2714' - 2744'</u>	<u>Cement circulated</u>

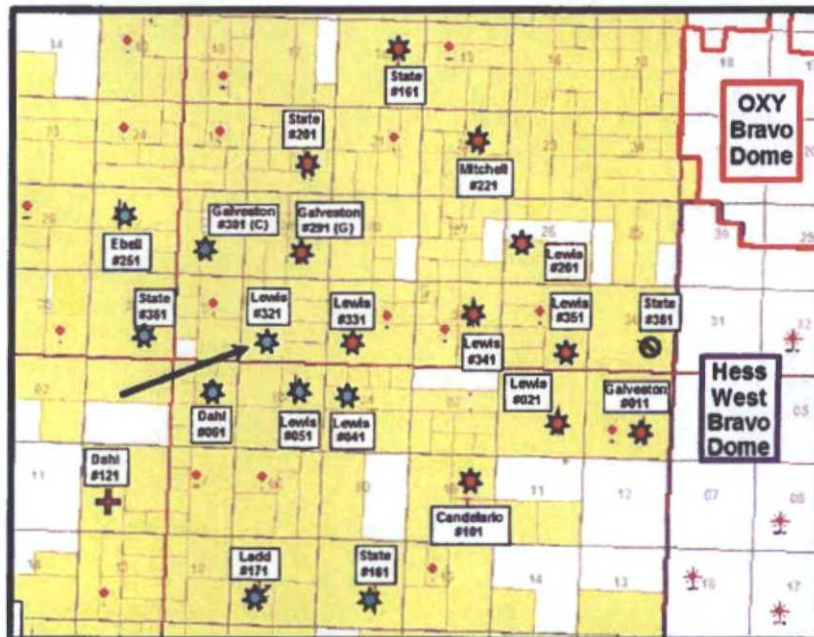
COMPLETION AND REMEDIAL WORK RECORD

Production Test Before					Treatment		Production Test After			
Date	Gas	@ psi	water Hrs	Type	Amount	From To	Gas	@ psi	water Hrs	
<u>08-06-14</u>	<u>init. Tubb completion</u>			<u>(21')</u>	<u>none</u>	<u>2714' 2744'</u>	<u>0 mcf @ 0 psi, 0w</u>		<u>24F</u>	
<u>09-19-14</u>	<u>Tubb frac, 135 Bbls CO2</u>			<u>650 CO2</u>	<u>3K# / 6Kg</u>	<u>2714' 2744'</u>	<u>0 mcf, 0 bw, 120#</u>		<u>24F</u>	
<u>11-19-14</u>	<u>Tubb acid to break perfs, 15% HCl</u>				<u>750 gals</u>	<u>2714' 2744'</u>	<u>0 mcf, 0 bw, 0#</u>		<u>24F</u>	

CUM. Prod. MMCF, MBWas of: Last Test: MCFPD BWPDDate:

Reasons for Plug and Abandonment:

This is a wildcat well offset to Hess's West Bravo Dome CO2 Unit and OXYs Bravo Dome CO2 Unit. The pay sands are insufficiently developed and often structurally too low to be economical. The Tubb sand in this well was exceptionally poor quality and had very low reservoir pressure.

Robert McNaughton 

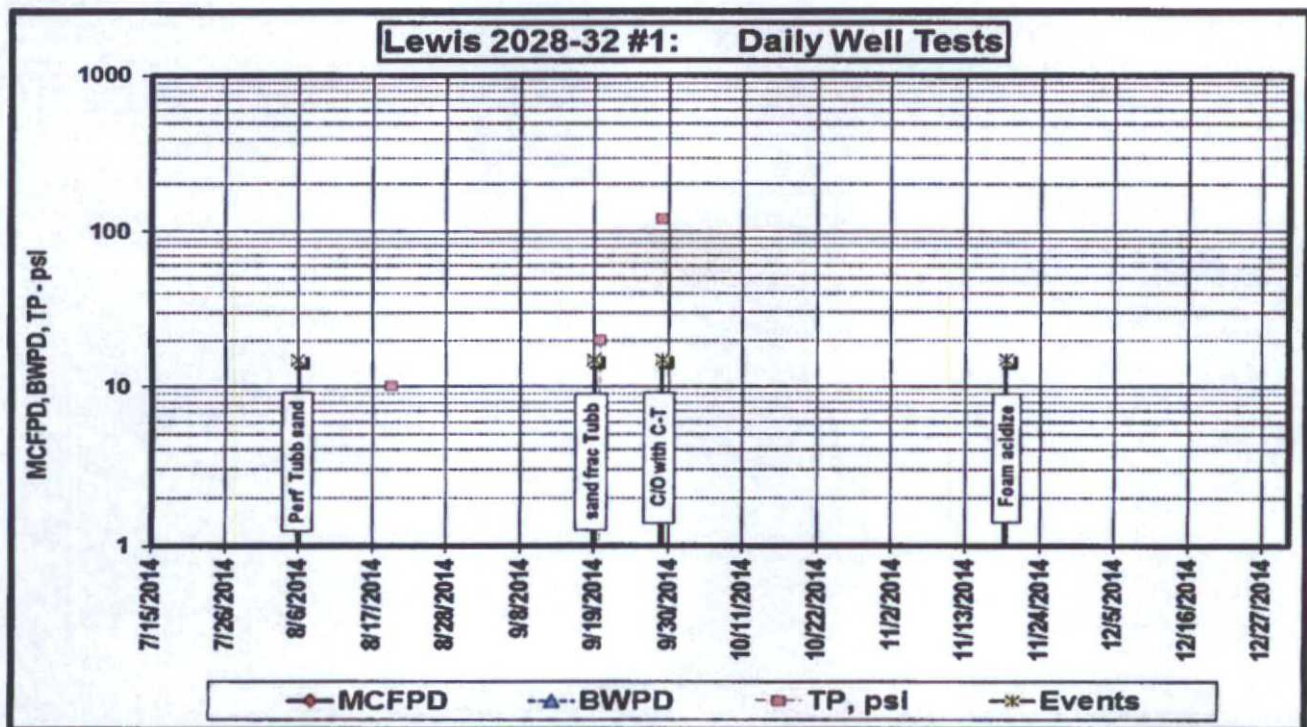
Objective: Plug and Abandon

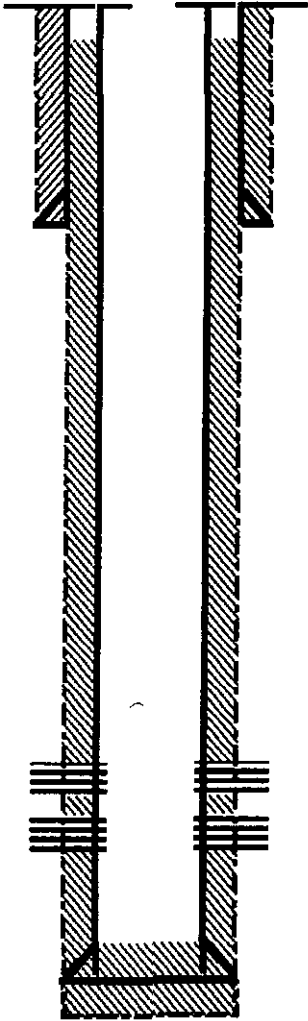
Basic Procedure:

Renegade ran a CBL on 7-30-14, TOC at 122' and had a good bond. (Cement circulated, but fell back).

All completion work was done with coil tubing and wireline. Rig anchors were set and tested on 10-6-14 and should be current.

- Set a 5-1/2" CIBP @ 2665' and cap with 35'+ cement by bailer.
- Load hole w/ 10 PPG salt gel mud.
- Dig out the 9-5/8" casing and check the annulus for any pressure.
- Pump a 35 sx plug across the 9-5/8" casing shoe from 625' to 775'. Pump a 25 sx FW plug from 300' to 500'. If the NMOCD requires a tag, it may be faster and cheaper to just fill the casing to surface with cement.
- If requested, shoot SQZ perms at 100'. Pump ~35 sx and fill the annulus and casing to the surface.
- Fill in the annulus around the surface casing with cement as needed.
- Remove the wellhead and weld on cap with standard dry - hole marker.
- Cut off rig anchors and smooth location. Remove fences and caliche as needed



 Whiting Petroleum Corporation		CO2 Supply Well	
FIELD: Bravo Dome, 640 Tubb		DATE: Jul. 28, 2014	
LEASE: <u>Lewis 2028</u>		BY: RTM	
COUNTY: Harding		WELL: <u>#321</u>	
		STATE: New Mexico	
Location: 1659' FSL & 1659' FWL Sec. 32 - T 20 N - R 28 E		KB = 5,569'	
SPUD: 07/18/2014 Completed: 11/19/2014		GL = 5,563'	
CURRENT STATUS: Drill & Complete		API = 30-021-20639	
Formation: <u>Tubb (CO2)</u>			
			
12-1/4" Hole		9-5/8", 36#, J-55 at 724' cemented w/ 450 sx, circulated 32 Bbls (133 sx)	
8-3/4" hole		Tubb Perfs: 2714' - 2720' (6') @ 6 SPF (08-06-14) Tubb Perfs: 2729' - 2744' (15') @ 6 SPF (08-06-14) Frac w/ 6703# 16/30 Sinterlite, 6188 gals, 135 Bbls CO2 (09-19-14) 5-1/2", 15.5#, J-55 at 2872' cm't'd. w/ 625 sx, circulated 46 sx (TOC @ 122' by CBL)	
PBTD @ 2826'			
TD @ 2925'			



Whiting Petroleum Corporation

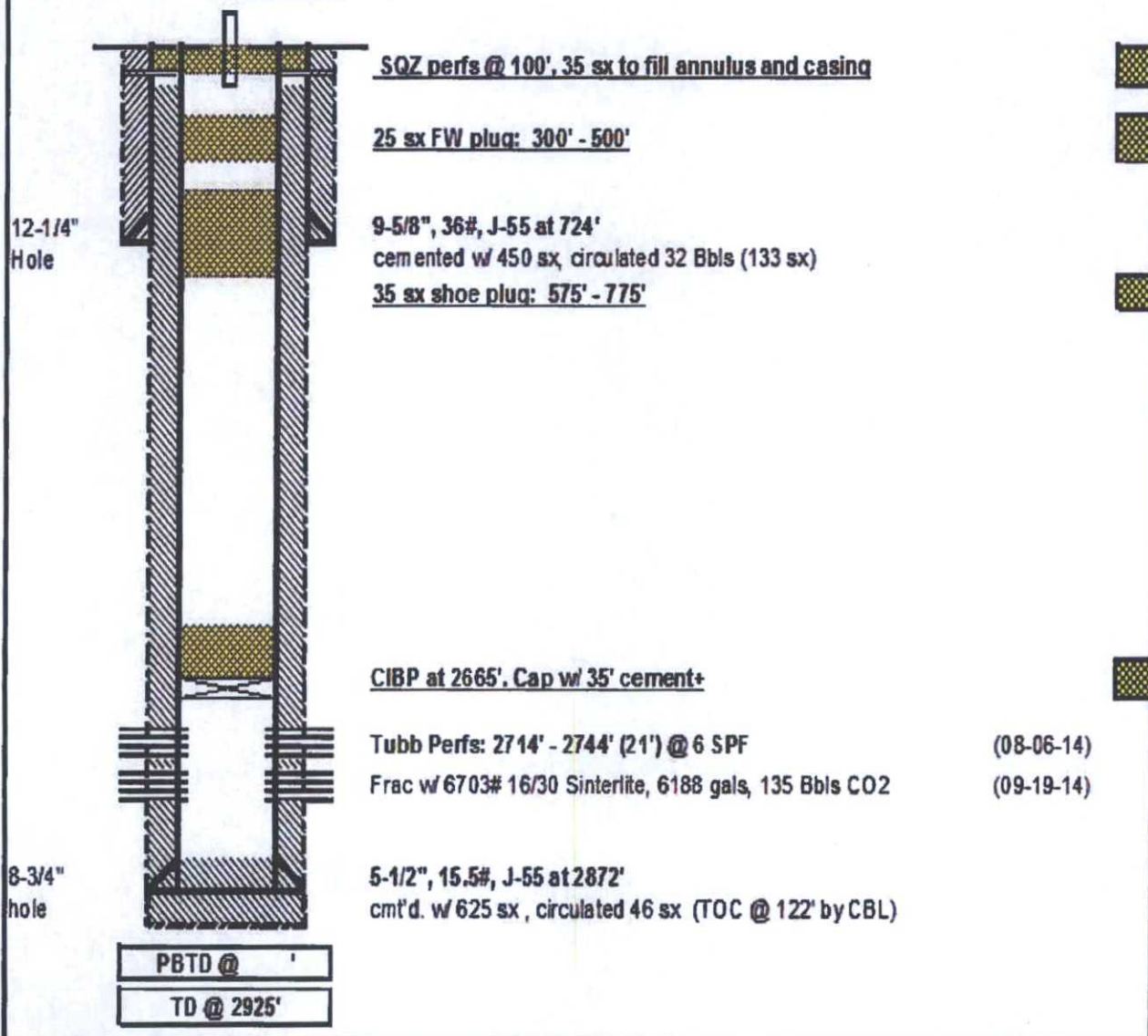
Proposed P&A

FIELD: Bravo Dome, 640 Tubb
 LEASE: **Lewis 2028**
 COUNTY: Harding

DATE: Jul. 28, 2014
 BY: RTM
 WELL: **#321**
 STATE: New Mexico

Location: 1659' FSL & 1659' FWL Sec. 32 - T 20 N - R 28 E
 SPUD: 07/18/2014 Completed: 11/19/2014
 CURRENT STATUS: SI - uneconomical
 Formation: **Tubb (CO2)**

KB = 5,569'
 GL = 5,563'
 API = 30-021-20639



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 District IV
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 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-181
 August 1, 2011
 Permit 187886

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

1 Operator Name and Address WHITING OIL AND GAS CORPORATION 400 W. Illinois Midland, TX 79701		2 CORIO Number 25078
		3 API Number 30-021-20839
4 Property Code 313939	5 Property Name LEWIS 2026 32	6 Well No 1

7. Surface Location									
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
K	32	20N	28E		1659	S	1659	W	Harding

8. Proposed Bottom Hole Location									
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
K	32	20N	28E	K	1659	S	1659	W	Harding

9. Pool Information	
BRAVO DOME CARBON DIOXIDE GAS 840	86010

Additional Well Information				
11. Well Type New Well	12. Well Type CO2	13. Cable/Retary	14. Lease Type Private	15. Ground Level Elevation 5563
16. Multiple N	17. Proposed Depth 3800	18. Formation Tubb	19. Contractor	20. Spud Date 7/8/2014
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

1. We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program						
Type	Motor Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	38	750	500	0
Prod	8.75	5.5	15.5	3800	450	0

Casing/Cement Program: Additional Comments	

22. Proposed Blowout Prevention Program			
Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	REGAN TAURUS

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.		OIL CONSERVATION DIVISION	
Signature Printed Name: Electronically filed by Kay Maddox		Approved By: Charlie Perrin	
Title: Regulatory Agent		Title: District Supervisor	
Email Address: kay.maddox@whiting.com		Approved Date: 6/27/2014 Expiration Date: 6/27/2016	
Date: 6/17/2014 Phone: 432-686-6709		Conditions of Approval Attached	