

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. 30-021-20648
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator WHITING OIL AND GAS CORPORATION		6. State Oil & Gas Lease No. 313463
3. Address of Operator 400 W ILLINOIS STE 1300 MIDLAND, TX 79701		7. Lease Name or Unit Agreement THORNTON 2027 33
4. Well Location Unit Letter G 1674 feet from the NORTH line and 1754 feet from the EAST line Section 33 Township 20N Range 27E NMPM County HARDING		8. Well Number 01
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5694' GR		9. OGRID Number 25078
		10. Pool name or Wildcat BRAVO DOME CARBON DIOXIDE 640

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>			

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:

W. D. St. IV

TITLE DST IV

DATE 12/28/15

Conditions of Approval (if any):

RECOMMENDED REMEDIAL WORK

Date December 8, 2015

Lease Thornton 2027-33 Well No #1 WOG GWI 100.00 % (87.5 % NWI)
Pool Bravo Dome, West County Harding State NM API # 30 - 021 - 20648
Legal Location: 1674' FNL, 1754' FEL, Sec 33, T - 20 - N, R - 27 - E
Completion Date 01-08-15 @ T. D. 2917' I. P. / AOF: 0 MCF, 55 BW
Water _____ Hrs 4 swabbing. Present T. D. 2866' Elevation 5694' GL KB = 5700'

DESCRIPTION OF PROSPECTIVE OR PAY ZONES

Name or Type of Zone	Top	Bottom	Remarks
<u>Santa Rosa</u>	<u>1541'</u>	<u>1799'</u>	<u>Regional CO2 Production Interval</u>
<u>San Andres / Glorieta</u>	<u>1904'</u>	<u>2296'</u>	<u>Lost Circulation Interval</u>
<u>Tubb sand</u>	<u>2686'</u>	<u>2722'</u>	<u>Proposed CO2 Production Interval</u>

CASING AND LINER RECORD

Size	Weight	Grade	Set At	SX CMT	Hole Size	Perf.	Remarks
9-5/8"	36#	J-55	770'	500	12-1/4"		Cement circulated
5-1/2"	15.5#	J-55	2917'	900	8-3/4"	2696' - 2743'	TOC @ 718' by CBL

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
11-04-14	Tubb and Abo completion			(24')	none	2696'	2743'	0 MCF		24F
11-20-14	Tubb and Abo completion			15% HCL	750 gal	2696'	2743'	0 MCF,	55 BW	4S
01-27-15	Tubb - swab tests					2696'	2743'	0 MCF,	100 BW	5S

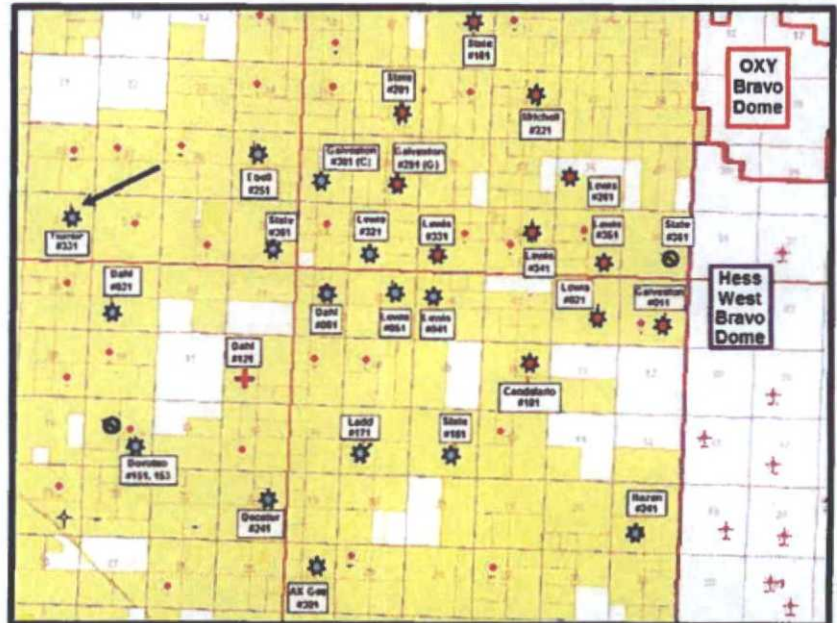
CUM. Prod. _____ MMCF, _____ MBW
Last Test: _____ MCFPD _____ BWPD

as of: _____
Date: _____

Reasons for Plug and Abandonment:

This is a wildcat well offset to Hess's West Bravo Dome CO₂ Unit and OXY's 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 poor quality and wet.

Robert McNaughton_____

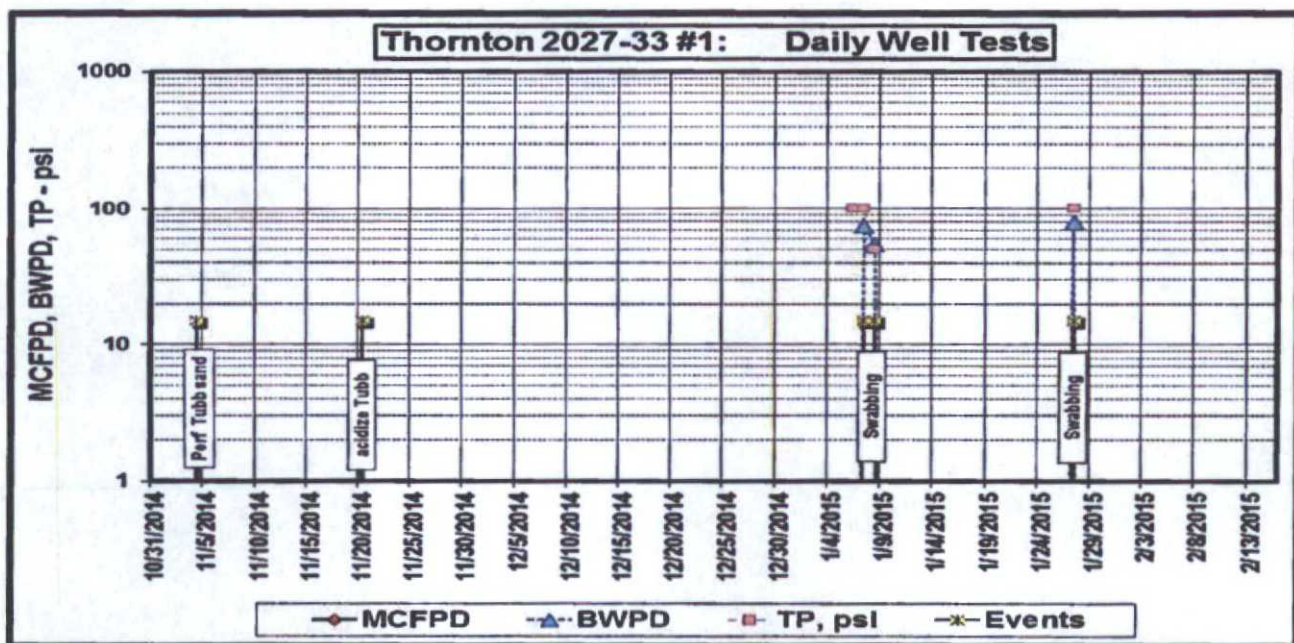


Objective: Plug and Abandon

Basic Procedure:

Renegade ran a CBL on 11-04-14: TOC @ 718', Good bond below 1760'. Last rig work was in January 2015 and anchor tests should be OK.

- Set a 5-1/2" CIBP @ 2650' 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 25 sx plug across the 9-5/8" casing shoe from 620' to 820'. If the NMOCD requires a tag, it may be faster and cheaper to just fill the casing to surface with cement.
- Shoot SQZ perfs at 500', or as directed. Pump ~120 sx and fill the annulus to the surface. Spot 25 sx inside the casing from 300' to 500' and 10 sx from 50' 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

LEASE: **Thornton 2027-33**

COUNTY: Harding

DATE: Nov. 13, 2014

BY: RTM

WELL: **#1**

STATE: New Mexico

Location: 1674' FNL & 1754' FWL Sec. 33 - T 20 N - R 27 E

SPUD: 10/01/2014 Completed: 01/08/2015

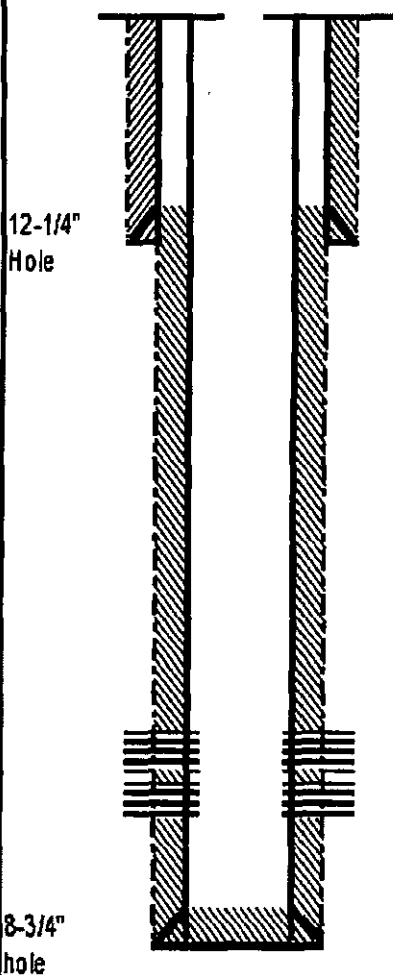
CURRENT STATUS: Drill & Complete

Formation: **Tubb (CO2)**

KB = 5,700'

GL = 5,694'

API = 30-021-20648



9-5/8", 36#, J-55 at 770'

cemented w/ 500 sx, circulated 91 Bbls (213 sx)

Tubb Perfs: 2696' - 2710' (14') @ 6 SPF

(11-04-14)

Abo/ GW Perfs: 2733' - 2743' (10') @ 6 SPF

(11-04-14)

Break perfs w/ 750 gals 15%

5-1/2", 15.5#, J-55 at 2917'

cmt'd. w/ 900 sx, DNC - Lost circulation, LOC @ 718' by CBL.

PBTD @ 2866'

TD @ 2917'



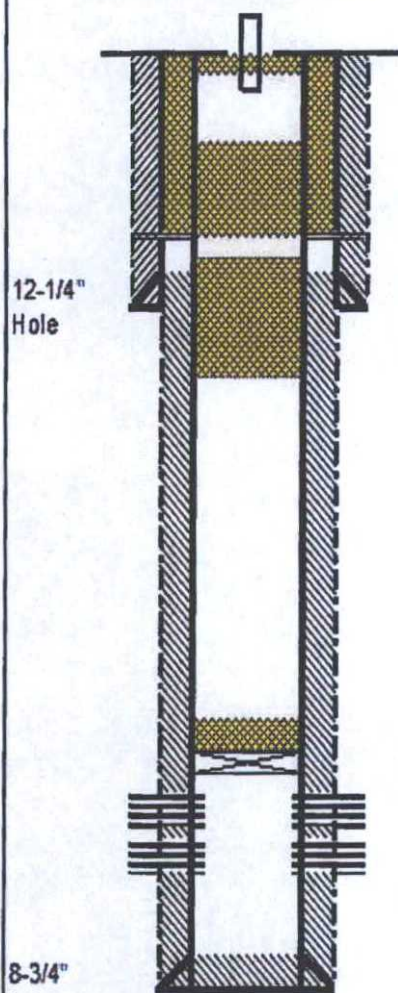
Proposed P&A

FIELD: Bravo Dome, 640 Tubb
LEASE: **Thornton 2027-33**
COUNTY: Harding

DATE: Nov. 13, 2015
BY: RTM
WELL: #1
STATE: New Mexico

Location: 1674' FNL & 1754' FWL Sec. 33 - T 20 N - R 27 E
SPUD: 10/01/2014 Completed: 01/08/2015
CURRENT STATUS: SI - uneconomical
Formation: Tubb (CO2)

KB = 5,700'
GL = 5,694'
API = 30-021-20648



10 sx at surface down to 50'

25 sx FW plug: 300' - 500'

SQZ perf @ 500'. Circulate 120 sx to the surface

9-5/8", 36#, J-55 at 770'

cemented w/ 500 sx, circulated 91 Bbls (213 sx)

25 sx shoe plug: 620' - 820'

CIBP at 2650'. Cap w/ 35' cement+

Tubb Perfs: 2696' - 2710' (14') @ 6 SPF

(11-04-14)

Abo/ GW Perfs: 2733' - 2743' (10') @ 6 SPF

(11-04-14)

Break perfs w/ 750 gals 15%

5-1/2", 15.5#, J-55 at 2917'

cmt'd. w/ 900 sx, DNC - Lost circulation, TOC @ 718' by CBL.

PBTD @

TD @ 2917'

District I
1626 N. French Dr., Hobbs, NM 88240
Phone (505) 383-0101 Fax (505) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1283 Fax (505) 748-9720
District III
1000 Rio Grande Rd., Aztec, NM 87410
Phone (505) 334-0178 Fax (505) 334-0170
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 100015

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. OGRID Number 25078
		3. API Number 30-021-20848
4. Property Code 313483	5. Property Name THORNTON 2027 33	6. Well *** /

7. Surface Location									
UL - Lot G	Section 33	Township 20N	Range 27E	Lot Idn	Feet From 1674	N/S Line N	Feet From 1754	E/W Line E	County Harding

8. Proposed Bottom Hole Location									
UL - Lot G	Section 33	Township 20N	Range 27E	Lot Idn G	Feet From 1674	N/S Line N	Feet From 1754	E/W Line E	County Harding

9. Pool Information	
BRavo DOME CARBON DIOXIDE GAS 840	98010

Additional Well Information				
11. Well Type New Well	12. Well Type CO2	13. Casing/ Rotary	14. Lease Type Private	15. Ground Level Elevation 5694
16. Multi pla N	17. Proposed Depth 3800	18. Formation Tubb	19. Connector	20. Spud Date 7/31/2014
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

.. We will be using a closed-loop system to deal of lined pits

21. Proposed Casing and Cement Program						
Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Seals of Cement	Estimated TOC
Surf	12.25	9.625	36	750	500	0
Prod	8.75	8.5	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 and, if applicable. Signature Printed Name Title Email Address Date	OIL CONSERVATION DIVISION Approved By Title Approved Date Conditions of Approval Attached	
	Electronically filed by Kay Maddox Regulatory Agent kay.maddox@whiting.com 7/8/2014	Charlie Partin District Supervisor 7/10/2014 7/10/2018
	Phone: 432-888-8709	