

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

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

Form C-103  
Revised July 18, 2013

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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. 30-021-20588
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/>		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. 40190
3. Address of Operator 400 W ILLINOIS STE 1300 MIDLAND, TX 79701		7. Lease Name or Unit Agreement Name HAZEN 1928 24
4. Well Location Unit Letter K 1650 feet from the SOUTH line and 1930 feet from the WEST line Section 24 Township 19N Range 28E NMPM County HARDING		8. Well Number 01
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5344' 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 <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](mailto:kay.Maddox@Whiting.com) PHONE: 432-638-8475

For State Use Only

APPROVED BY: [Signature] TITLE DST IV DATE 12/22/14  
Conditions of Approval (if any):



\* EXP \*

30-021-20588

Hazen 1928 #24-1 P&amp;A

## RECOMMENDED REMEDIAL WORK

Date December 7, 2015

Lease Hazen 1928-24 Well No #1 WOG GW 100.00 % (85.83 % NWI)  
 Pool Bravo Dome, West County Harding State NM API # 30 - 021 - 20588  
 Legal Location: 1650' FSL, 1930' FWL, Sec 24, T - 19 - N, R - 28 - E  
 Completion Date 06-03-14 @ T. D. 3,205' I. P. / AOF: 0 mcfpd, 200 bwpd  
 Water        Hrs 24 flowing, Present T. D. 3,134' Elevation 5344' GL KB = 5350'

## DESCRIPTION OF PROSPECTIVE OR PAY ZONES

Name or Type of Zone	Top	Bottom	Remarks
<u>Santa Rosa</u>	<u>1478'</u>	<u>1917'</u>	<u>Regional CO2 Production Interval</u>
<u>San Andres / Glorieta</u>	<u>2012'</u>	<u>2429'</u>	<u>Lost Circulation Interval</u>
<u>Tubb sand</u>	<u>2879'</u>	<u>2990'</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>717'</u>	<u>340</u>	<u>12-1/4"</u>		<u>Cement circulated</u>
<u>7"</u>	<u>20#</u>	<u>J-55</u>	<u>2610'</u>	<u>455</u>	<u>8-3/4"</u>		<u>cement circulated</u>
<u>5-1/2"</u>	<u>15.5#</u>	<u>J-55</u>	<u>3173'</u>	<u>105</u>	<u>7-7/8"</u>	<u>2898'-2942'</u>	<u>TOC @ 494' by CBL</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>04-02-14</u>	<u>init.</u>	<u>Tubb completion</u>	<u>(32')</u>	<u>none</u>	<u>2898'</u>	<u>2942'</u>	<u>0 mcf</u>	<u>@ 0 psi</u>	<u>24F</u>	
<u>06-03-14</u>	<u>Tubb foam frac,</u>	<u>650 - 198 Bbls CO2</u>	<u>41K#/12Kg</u>	<u>2898'</u>	<u>2942'</u>	<u>0 mcf,</u>	<u>200 BW</u>	<u>10S</u>		
<u>02-12-15</u>	<u>swab bottom</u>	<u>Tubb sand</u>		<u>2934'</u>	<u>2942'</u>	<u>trace gas,</u>	<u>80 BW</u>	<u>10S</u>		
<u>02-13-15</u>	<u>swab middle</u>	<u>Tubb sand</u>		<u>2920'</u>	<u>2926'</u>	<u>trace gas,</u>	<u>80 BW</u>	<u>10S</u>		
<u>02-13-15</u>	<u>swab top</u>	<u>Tubb sand</u>		<u>2898'</u>	<u>2912'</u>	<u>slight gas,</u>	<u>50 BW</u>	<u>6S</u>		
										<u>F</u>

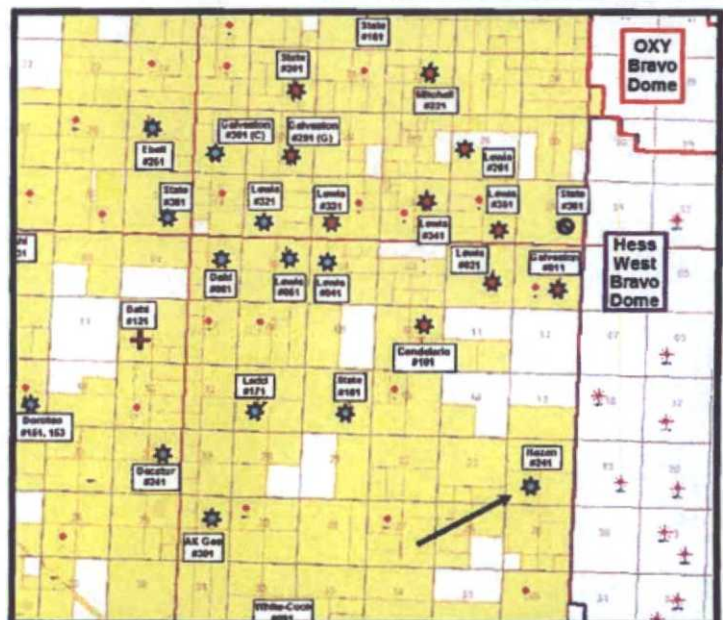
CUM. Prod.        MMCF,        MBW  
 Last Test:        MCFPD        BWPD

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. This well was substantially structurally lower than the offsets and was wet.

Robert McNaughton       





## Objective: Plug and Abandon

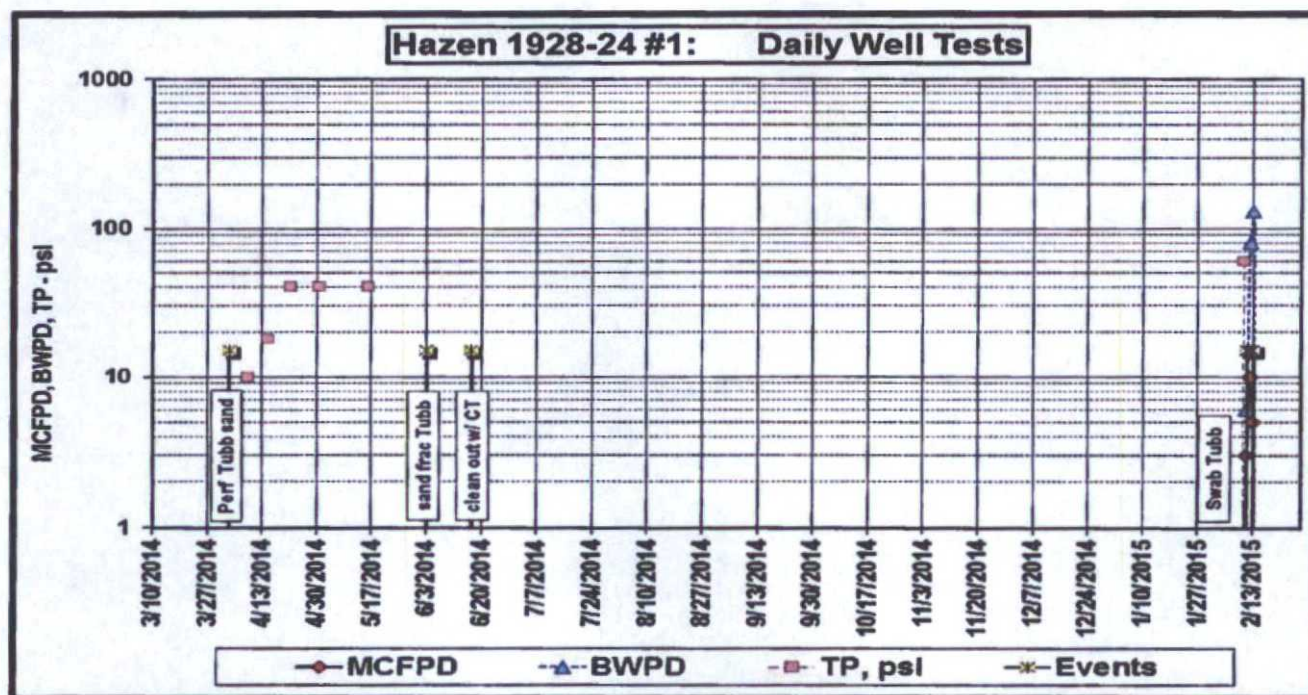
### Basic Procedure:

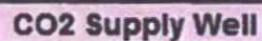
Renegade ran a CBL logs on 1-13-14. TOC is at 494' and had reasonably good bond through pay interval. Cement was circulated, but fell back some.

Last well work was February 2015 (swab) – rig anchor tests should be current.

- Set a 5-1/2" CIBP @ 2850' and cap with 35'+ cement by bailer.
- Load hole w/ 10 PPG salt gel mud.
- Dig out the 8-5/8" casing and check the annulus for any pressure.
- If required, pump 25 sx across the 7" shoe from ~2510' – 2660'.
- Pump a 25 sx plug across the 9-5/8" casing shoe from 567' to 767'. Shoot SQZ perfs at 450' and establish circulation. Pump 50+ sx in the annulus or as directed. Pump 25 sx in casing. If needed, shoot SQZ perfs at 50'. Pump ~50 sx and fill the annulus and casing to the surface.
- Fill in the annulus around the 8-5/8" with cement as needed.
- Remove the wellhead and weld on cap with standard dry - hole marker.

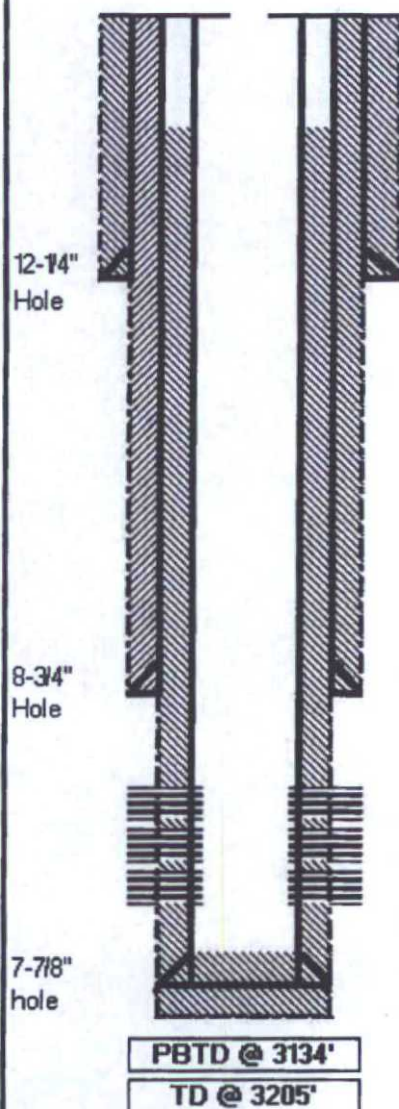
Cut off rig anchors and smooth location. Remove fences and caliche as needed





DATE: Mar. 30, 2015  
BY: RTM  
WELL: #24-1  
STATE: New Mexico

KB = 5,344'  
GL = 5,350'  
API = 30-021-20588



9-5/8", 36#, J-55 @ 717'  
cmt'd. w/ 340 sx, circulated 85 sx

7", 20#, J-55 at 2610'  
cemented w/ 455 sx, circulated 96 sx

Tubb Perfs: 2898' - 2912' @ 6 SPF (04-03-14)

**Tubb Perfs: 2920' - 2926' @ 6 SPF** (04-03-14)

Tubb Perfs: 2934' - 2942' @ 6 SPF (04-03-14)

Frac w/ 41304# 16/30 Sinterlite, 11878 gals gel & 198 Bbls CO2 (06-03-14)

5-1/2", 15.5#, J-55 at 3173'  
cml'd. w/ 105 sx, DNC, TOC @ 494' by CBL





Whiting Petroleum Corporation

## Proposed P&amp;A

Field: **Bravo Dome, West**  
 Lease/Unit: **Hazen 1928-24**  
 County: **Harding**

DATE: **Mar. 30, 2015**  
 BY: **RTM**  
 WELL: **#1**  
 STATE: **New Mexico**

Location: 1650' FSL &amp; 1930' FWL Sec. 24 - T19N - R28E

Spud: 12/02/2013 Completed: 06/03/2014

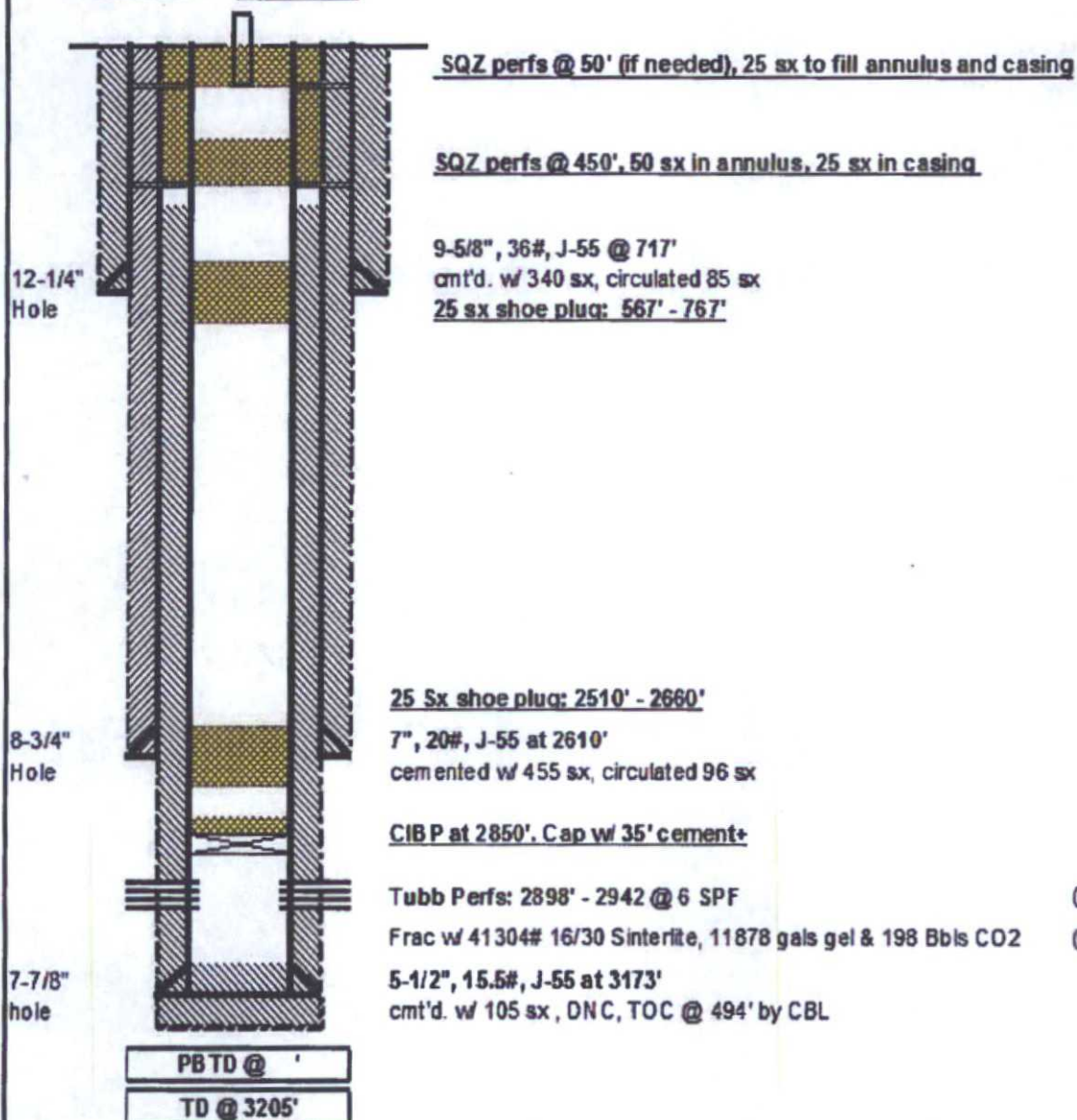
Current Status: SI - Tubb is wet.

Formation: **Tubb (CO2)**

KB = 5,344'

GL = 5,350'

API = 30-021-20588



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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-101  
August 1, 2011

Permit 175563

**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 30-021-20588
4. Property Code ✓ 40190	5. Property Name HAZEN 1928 24	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	24	19N	28E	K	1650	S	1930	W	

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
K	24	19N	28E	K	1650	S	1930	W	

**9. Pool Information**

BRAVO DOME CARBON DIOXIDE GAS 640	96010
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**Additional Well Information**

11. Work Type New Well	12. Well Type CO2	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 5344
16. Multiple N	17. Proposed Depth 3500	18. Formation Tubb	19. Contractor	20. Spud Date 11/1/2013
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/lb	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	24	1800	650	0
Prod	7.875	5.5	15.5	3500	550	0

**Casing/Cement Program: Additional Comments**

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**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: Ed Martin

Title: Regulatory Agent

Title: District Supervisor

Email Address: kay.maddox@whiting.com

Approved Date: 10/28/2013 Expiration Date: 10/28/2015

Date: 10/17/2013

Phone: 432-686-6709

Conditions of Approval Attached