

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

HOBBS OCD

MAY 23 2014

RECEIVED

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.)	
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other INJECTOR	7. Lease Name or Unit Agreement Name NORTH VACUUM ABO WEST UNIT
2. Name of Operator CHEVRON U.S.A. INC.	8. Well Number 3
3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705	9. OGRID Number 4323
4. Well Location Unit Letter: L 1980 feet from SOUTH line and 660 feet from the WEST line Section 15 Township 17S Range 34E NMPM County LEA	10. Pool name or Wildcat VACUUM ABO
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
DOWNHOLE COMMINGLE ☐  
CLOSED-LOOP SYSTEM ☐  
OTHER: INTENT TO RETURN TO INJECTION

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

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.

CHEVRON INTENDS TO RETURN TO INJECTION, FROM TA STATUS ON THE SUBJECT WELL.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, AND WELLBORE DIAGRAMS.

DURING THIS PROCESS WE PLAN TO USE THE CLOSED LOOP SYSTEM WITH A STEEL TANK AND HAUL TO THE REQUIRED DISPOSAL, PER THE OCD RULE 19.15.17.

Condition of Approval: notify

Spud Date:

Rig Release Date:

OCD Hobbs office 24 hours  
prior of running MIT Test & Chart

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

SIGNATURE

*Denise Pinkerton*

TITLE REGULATORY SPECIALIST

DATE 05/21/2014

Type or print name DENISE PINKERTON

E-mail address: leakejd@chevron.com

PHONE: 432-687-7375

For State Use Only

APPROVED BY:

*Melvin Brown*

TITLE Dist. Supervisor

DATE 5/28/2014

Conditions of Approval (if any):

MAY 29 2014

**Well:** North Vacuum Abo West Unit #3H  
**Field:** Abo  
**API No.:** 30-025-24495  
**Lea County, New Mexico**

**Description of work:** Drill out cement & CIBP. Clean out wellbore. RIH with injection tubing and packer. RTI.

**Pre-Work:**

\*\*\*Check wellhead and all connections and change out anything that needs to be replaced prior to rigging up on the well\*\*\*

1. Check wellhead connections for pressure rating & condition. Change out if necessary.
2. Utilize the rig move check list. Conduct route survey through FMT.
3. Check anchors and verify that pull test has been completed in the last 24 months.
4. Ensure location of & distance to power lines is in accordance with MCA SWP. Complete and electrical variance and electrical variance RUMS if necessary.
5. Ensure that location is of adequate build and construction.
6. Ensure that elevators and other lifting equipment are inspected. Caliper all lifting equipment at the beginning of each day or when sizes change.
7. When NU anything over and open wellhead (EPA, etc.) ensure the hole is covered to avoid dropping anything downhole
8. For wells to be worked on or drilled in an H2S field/area, include the anticipated maximum amount of H2S that an individual could be exposed to along with the ROE calculations for 100 ppm and 500 ppm (attached).
9. If the possibility of trapped pressure exists, check for possible obstruction by:
  - Pumping through the fish/tubular – this is not guaranteed with an old fish as the possibility of a hole above the obstruction could yield inconclusive results
  - Dummy run – make a dummy run through the fish/tubular with sandline, slickline, eline or rods to verify no obstruction. Prior to making any dummy run contact RE and discuss.

If unable to verify that there is no obstruction above the connection to be broken, or if there is an obstruction:

- Hot Tap at the connection to check for pressure and bleed off
- Observe and watch for signs / indicators of pressure as connection is being broken. Use mud bucket (with seals removed) and clear all non-essential personnel from the floor.

**Procedure:**

0. Submit C-103 N01 to return well to injection.
1. Rig up pulling unit. Check wellhead pressure and bleed to 0 or kill well if necessary.
2. ND wellhead. NU 5000 psi BOP with 2 7/8" pipe rams over blinds with hydrill on top. RIH with 1 joint of 2-7/8" tubing and 5-1/2" packer. Set packer. Test BOP to 250 psi low/ 500 psi high. Unset packer and POOH.
3. Rig up reverse unit and power swivel. TIH with (6) 3-1/8" DCs and 4-3/4" MTB on 2-7/8" WS to 8601' (PBTD) and DO cement and CIBP (CIBP @ 8651').

**Well:** North Vacuum Abo West Unit #3H  
**Field:** Abo  
**API No.:** 30-025-24495  
**Lea County, New Mexico**

4. Lower WS and to tag for fill all the way to bottom at +/- 8939'. Clean out hole by reverse circulating hole with clean fluid. TOH with MTB, DCs, and WS. RDMO reverse unit.
5. Close blind rams and change pipe rams from 2-7/8" to 2-3/8". Test rams to 250 psi low/ 1000 psi high.
6. Hydrotest and RIH with 2-3/8" 4.7# L80 EUE TK-15 internal plastic coated injection tubing with on-off tool and 1.50" ID 'F' profile nipple and 5-1/2" Arrow Set 1X (external nickel plated, internal plastic coated) injection packer with pump out plug on bottom.
7. Set packer at 8650' (+/- 50 feet above casing window).
8. Load tubing & equalize pressure @ on/off tool. Unlatch from on/off tool, circulate packer fluid to surface, and latch onto on/off tool.
9. Run preliminary MIT – apply 550 psi to the casing for 32 minutes. Isolate reverse pump during the pre-MIT & use chart recorder to record the pressure response. Notify remedial engineer if pressure losses are greater than or equal to 10 % of applied pressure.
10. Notify OCD w/ 24 hrs of intent to run official MIT.
11. If pre-MIT test is good, bleed off backside pressure & ND BOP.
12. NU wellhead, blow pump off plug.
13. RDMO pulling unit.
14. Perform and chart final MIT to 550 psi for 32 min. Submit C103 report with original MIT chart attached.
15. Write work order to re-connect the injection line.
16. Hand over to production for return to injection. Target injection at 3800 psi per NMOCD pressure limit order and rate at 100 BWPD.
17. Monitor injection volumes to see if a nano-surfactant fluid acidizing job can be done to increase injectivity.

EFUK 03/10/2014

**CURRENT  
WELLBORE DIAGRAM**

**NVAWU #3**

**LOCATION**

State	New Mexico
County	Lea
Surface Location	1980 FSL & 660 FWL
	Sec 15, T-17S, R-34E

**WELL ID INFORMATION**

Lease Name	North Vacuum Abo West Unit
Field	Vacuum North
Reservoir	Abo
Ref #	EN5957
API #	30-025-24495

**CASING DETAIL**

<b>Surface Csg.</b>	
Size:	11 3/4"
Wt:	42# H-40
Set @:	309'
Sxs cmt:	250' sx, circulated
TOC:	Surface
Hole Size:	15"
<b>Intermediate Csg.</b>	
Size:	8 5/8"
Wt:	32# K-55
Set @:	3120'
Sxs cmt:	400' sx
TOC:	2200'
Hole Size:	11"
<b>Production Csg.</b>	
Size:	5 1/2"
Wt. (top to bottom):	17# N-80
Set @:	9003'
Sxs Cmt:	1250' sx
TOC:	3100'
Hole Size:	7 7/8"

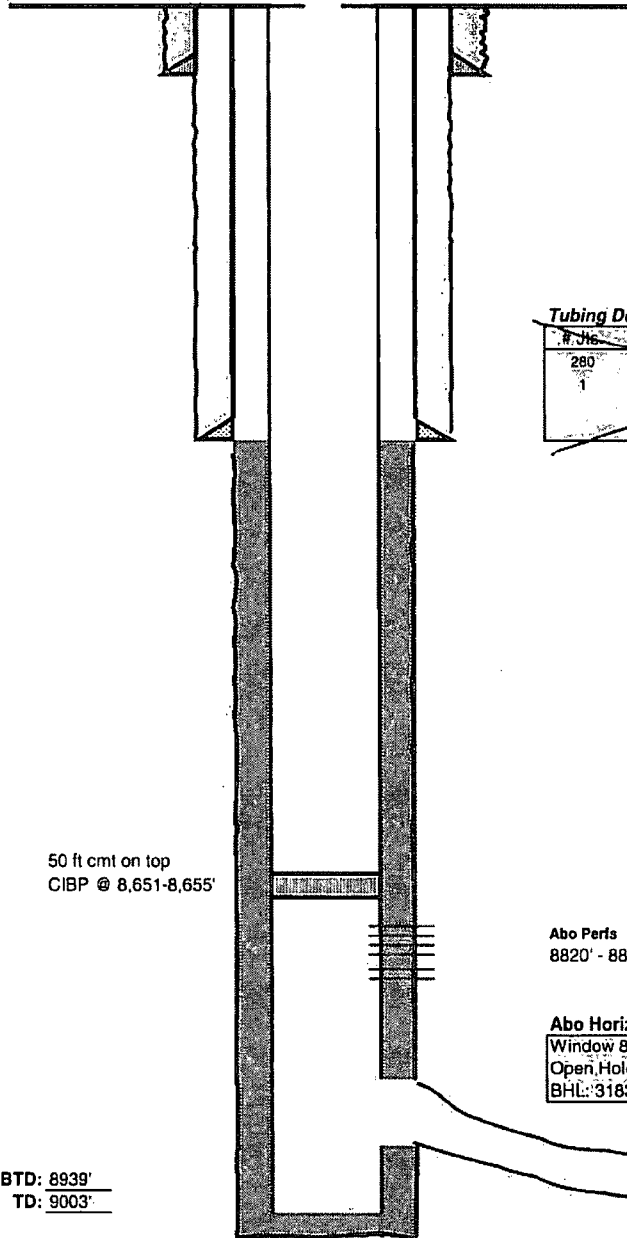
KB: 4071'

DF:

GL: 4058'

Original Spud Date: 8/25/1973

Original Compl. Date: 10/29/1973



**Tubing Detail**

Date: 12/26/2001

# Jls	Size	Footage
280	Ductile 2 3/8" 4.7# N-80	8637.50
1	2 3/8" x 5 1/2" packer	3.55
	KB	.10
		8651.05

50 ft cmt on top  
CIBP @ 8,651-8,655'

Abo Perfs  
8820' - 8860'

**Abo Horizontal**

Window 8698' - 8707'
Open Hole 8704' - 10511'
BHL: 3183 FSL & 1863 FWL, Sec 15

PBTD: 8939'  
TD: 9003'

UPDATED BY: Cassie Viets  
DATE: 5/5/2004

**PROPOSED  
WELLBORE DIAGRAM**

**NVAWU #3**

**LOCATION**

State	New Mexico
County	Lea
Surface Location	1980 FSL & 660 FWL
	Sec 15, T:17S, R:34E

**WELL ID INFORMATION**

Lease Name	North Vacuum Abo West Unit
Field	Vacuum North
Reservoir	Abo
Ref #	EN5957
API #	30-025-24495

**CASING DETAIL**

<b>Surface Csg.</b>	
Size:	11 3/4"
Wt.	42# H-40
Set @:	309'
Sxs cmt:	250 sx, circulated
TOC:	Surface
Hole Size:	15"
<b>Intermediate Csg.</b>	
Size:	8 5/8"
Wt.	32# K-55
Set @:	3120'
Sxs cmt:	400sx
TOC:	2200'
Hole Size:	11"
<b>Production Csg.</b>	
Size:	5 1/2"
Wt. (top to bottom):	17# N-80
Set @:	9003'
Sxs Cmt:	1250sx
TOC:	3100'
Hole Size:	7 7/8"

KB: 4071'

DF:

GL: 4058'

Original Spud Date: 8/25/1973

Original Compl. Date: 10/29/1973

**Tubing Detail**

Date: 12/26/2001

# Jts.	Size	Footage
280'	Duoline 2-3/8" 4.7# N-80	8637.50
1	2-3/8" x 5-1/2" packer	3.55
KB		10
		8651.05

2-3/8" 4.7# L-80 IPC

5.5" Inj. Packer @ 8,650'

Abo Perfs  
8820' - 8860'

**Abo Horizontal**

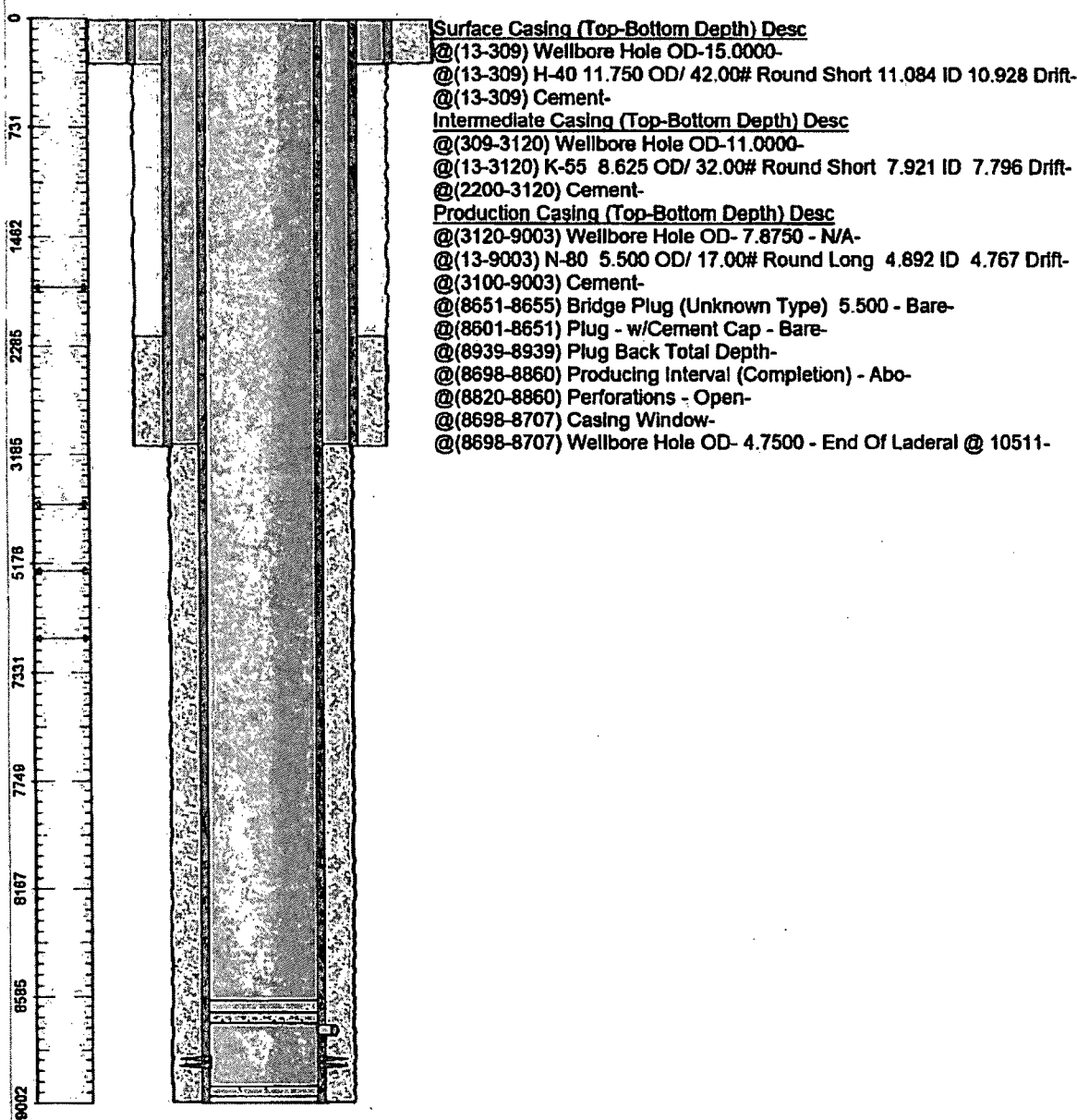
Window 8698' - 8707'
Open Hole 8704' - 10511'
BHL: 3183 FSL & 1863 FWL, Sec 15

PBTD: 8939'  
TD: 9003'

UPDATED BY: Cassie Viets  
DATE: 5/5/2004

## Chevron U.S.A. Inc. Wellbore Diagram : NVAWU 03 H

Lease: OVC VACUUM FMT		Well No.: NVAWU 3H VAN 3H		Field: FLD-VACUUM NORTH	
Location: 1980FSL660FWL		Sec.: N/A		Blk:	Survey: N/A
County: Lea	St.: New Mexico	Refno: EN5957		API: 3002524495	Cost Center: UCDY70600
Section: 15		Township: 017 S			Range: 034 E
Current Status: ACTIVE				Dead Man Anchors Test Date: NONE	
Directions:					



Ground Elevation (MSL): 4058.00	Spud Date: 08/25/1973	Compl. Date: 10/29/1973
Well Depth Datum: Kelly Bushing	Elevation (MSL): 4071.00	Correction Factor: 13.00
Last Updated by: acostde	Date: 09/11/2012	