

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

WELL API NO. 30-015-44677
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. NM0255527A
7. Lease Name or Unit Agreement Name WDW-4
8. Well Number: WDW-4
9. OGRID Number: 15694 / 255554
10. Pool name or Wildcat

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.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other: INJECTION WELL

2. Name of Operator
 HF SINCLAIR NAVAJO REFINING LLC

3. Address of Operator
 P.O. Box 159, Artesia, NM 88210

4. Well Location

Unit Letter: N; 1,289 feet from the South line and 2,470 feet from the West line

Section 23 Township 17S Range 27E NMPM County: EDDY

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3,563' GL

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: BULLHEAD STIMULATION ☒

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.

HF Sinclair Navajo Refinery is planning to conduct a bullhead acid stimulation on WDW-4 to increase injectivity in the permitted injection zone.

The bullhead acid stimulation will consist of pumping approximately 500 bbls of acid blend containing 15% HCl, 20% xylene, 100 gpt 50% citric acid, 12 gpt AcidLink 701A, 2 gpt PlexHib 166, 2 gpt PlexBreak 145. The acid blend will be displaced with approximately 400 bbls of injectate. The well will either soak for a period of time or immediately resume injection.

NOTE: Work is expected to be performed during the May – June 2025 timeframe.

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 [Signature] TITLE Env. Manager DATE 5-20-25

Type or print name Case Hinkins E-mail address: Case.Hinkins@hfsinclair.com PHONE: (575) 746-5262
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

OCD UIC Permit: UICI-008-4
 Well API Number: 30-015-44677
 Eddy County, New Mexico
 Sec. 23, T17S-R27E
 Lat. 32.815970° / Long. -104.250174° (NAD 83)

All depths referenced to Kelly Bushing (KB)
 elevation 20' above ground level.
 Ground Level Elevation: +3,563'

Base of USDW: +/- 500'

Conductor Casing (0' - 80'): 20", 129.33 lb/ft 0.625" wall, API 5LX-56, plain-end, beveled conductor, cemented to surface with redi-mix in a 24" hole.

17-1/2" Hole

Surface Casing (0' - 1,680'): 13-3/8", 54.5 lb/ft, K-55, ST&C, cemented to surface.

12-1/4" Hole

Protection Casing (0' - 10,327'): 9-5/8", 47 lb/ft, N-80, LT&C, cemented to surface.

Annulus Fluid: Injection tubing and protection casing annulus filled with 263 bbl of brine water containing a corrosion inhibitor, a bactericide and an oxygen scavenger.

DV Tool (5,800'): 9-5/8"

Injection Tubing (0' - 10,265'): 7", 26 lb/ft, K-55, LT&C.

Top of Confining Zone: ~9,900'

Top of Injection Zone: ~10,400'

Base of Injection Zone: ~10,900'

Tagged Depth:
10,557' (9/2024)
TD: 10,700'

Packer (10,265'): 7" x 9-5/8"

Open Hole: 8-1/2" to 10,700'

Wellbore information from: Figure 8.2,
 HollyFrontier Navajo Refining LLC, Artesia, New
 Mexico, As Built Below Ground Well Schematic
 by WSP and information found in the 2017
 WDW-4 Permit.



Figure 1
 WDW No. 4,
 Wellbore Schematic

2024 FOT/MIT Report

Scale: NTS

Date: September 2024

Fig 01 - 2024 HFS MIT - WDW-4 WB.pdf

By: WEK

Checked: AS

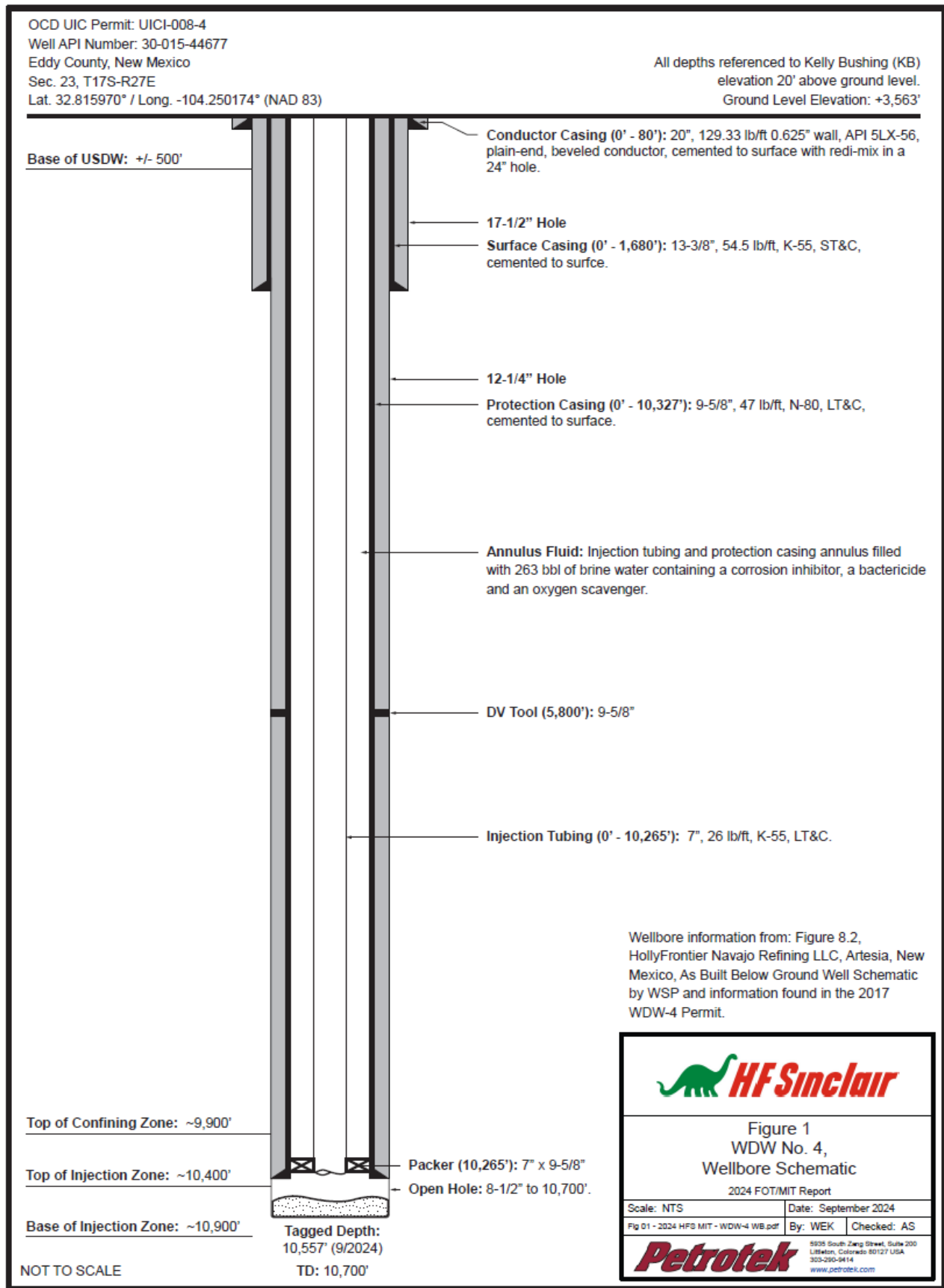
Petrotek

5935 South Zang Street, Suite 200
 Littleton, Colorado 80127 USA
 303-290-9414
www.petrotek.com

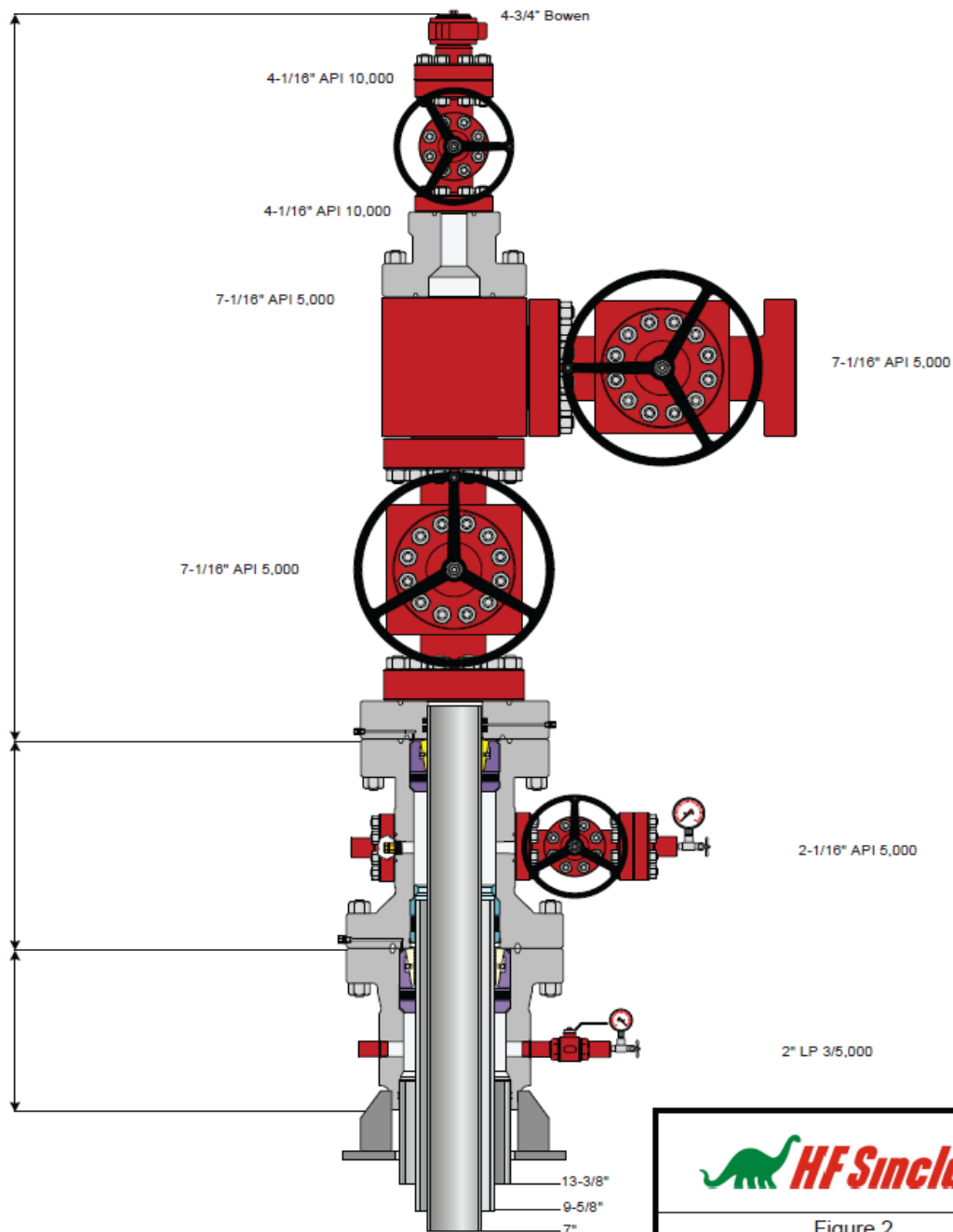
NOT TO SCALE

2025 HF Sinclair Navajo Refining WDW-4 Bullhead Acid Stimulation Job Procedures		
Step No.	~ Time	Description
1	0700	Arrive at WDW-4 location, Safe Work Permit with HFSNR
		Check with HFSNR to make sure well has been shut-in & line disconnected/locked out
		Conduct JHA with HFSNR, CUDD, Petrotek, Pressure Services LLC
2	0800	Make sure personnel operating acid equip have proper PPE (apron, rubber gloves, respirator and face shield)
	0900	Manifold 4 CUDD transports of acid blend containing 15% HCl, 20% xylene, 100 gpt 50% citric acid, 12 gpt AcidLink 701A, 2 gpt PlexHib 166, 2 gpt PlexBreak 145
3	1000	Rig up pump truck on WDW-4, pressure test 1052 iron to 1,500 psi with fresh water from Pressure Services LLC; MASIP: 2,080 psi with site waste; well is currently operating at ~ 270 gpm / 380 psi whp; anticipating max treatment rate of ~ 270 gpm (~6.4 bpm)
	1230	Pump ~20,000 gal 15% HCl plus additives; displace suction lines back to transports and 1502 iron with freshwater; rig down 1502 iron, displace tubing with 400 bbls of HFSNR injectate, shut in and soak for 1 hour
	1330	Resume injection of HFSNR injectate
		Maintain steady injection for at least 24 hours, HFSNR to provide Petrotek hourly injection data 1 week before and 1 week after stimulation.

Note: All vendors/contractors will have completed necessary HFSNR Contractor Onboarding Requirements prior to arriving on location



OCD UIC Permit: UICI-008-4
Well API Number: 30-015-44677
Eddy County, New Mexico
Sec. 31, T17S-R27E
Lat. 32.81581° / Long. -104.25003° (NAD 83)



Wellhead information from:
Figure 8.3, Navajo Refining - HollyFrontier
by Weatherford.
NOT TO SCALE



Figure 2
WDW No. 4,
Wellhead Schematic

2024 FOT/MIT Report

Scale: NTS	September 2024
Fig 02 - 2024 HFS MIT - WDW-4 WH.pdf	By: WEK Checked: AS

Petrotek

5525 South Zang Street, Suite 200
Littleton, Colorado 80127 USA
303-290-9414
www.petrotek.com

HF Sinclair Navajo Refinery
Tubular Table WDW-4
MASIP: 2,080

Casing Information														
Depth	Size	Weight	Material	Grade	Connection	Burst	70% Burst	Collapse	ID	Drift	BBL/ft	cu ft/ft	Coupling OD	Casing Vol [bbls]
10,327	9 5/8	47	CS	N-80	LTC	6,870	4,809	4,750	8.681	8.525	0.0732	0.4111	10.625	756
Injection Tubing														
Depth	Size	Weight	Material	Grade	Connection	Burst	70% Burst	Collapse	ID	Drift	BBL/ft	cu ft/ft	Coupling OD	Tubing Vol [bbls]
10,265	7	26	CS	K-55	LTC	4,980	3,486	4,320	6.276	6.151	0.0383	0.2148	7.875	393
Open Hole														
Depth	Size	Weight	Material	Grade	Connection	Burst	70% Burst	Collapse	ID	Drift	BBL/ft	cu ft/ft	Coupling OD	OH Vol [bbls]
Openhole Bottom	10,700	Original TD		----	----	----	----	----	8.5	----	0.0702	0.3941	----	26
Openhole Bottom	10,557	09/2024 fill tag		----	----	----	----	----	8.5	----	0.0702	0.3941	----	16

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

COMMENTS

Action 465228

COMMENTS

Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201	OGRID: 15694
	Action Number: 465228
	Action Type: [C-103] Sub. Workover (C-103R)

COMMENTS

Created By	Comment	Comment Date
cchavez	C-103R Sundry Well Stimulation	6/2/2025

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Phone: (505) 476-3441

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CONDITIONS

Created By	Condition	Condition Date
cchavez	None	6/2/2025