

State of New Mexico
Energy, Minerals and Natural Resources

Form *Page 3 of 8*
Revised July 18, 2013

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

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.) 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: INJECTION WELL		WELL API NO. 30-015-20894 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> 6. State Oil & Gas Lease No. B-2071-28
2. Name of Operator HF SINCLAIR NAVAJO REFINING LLC		7. Lease Name or Unit Agreement Name Chukka WDW-2
3. Address of Operator 501 E Main St., Artesia, NM 88210		8. Well Number: WDW-2
4. Well Location Unit Letter: <u>E</u> ; <u>1,980</u> feet from the <u>North</u> line and <u>660</u> feet from the <u>West</u> line Section <u>12</u> Township <u>18S</u> Range <u>27E</u> NMPM County: <u>EDDY</u>		9. OGRID Number: 15694 / 255554
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,533' GL		10. Pool name or Wildcat 96918 Navajo Permo-Penn

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-2 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 from the tubing with approximately 66 bbls of fresh water or injectate. The well will either soak for a period of time or immediately resume injection.

NOTE: Work is expected to be performed during September 2025, pending contractor availability.

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  TITLE Environmental Manager DATE 8-27-25

Type or print name Case Hinkins E-mail address: case.hinkins@hfsinclair.com PHONE: 575-746-5399

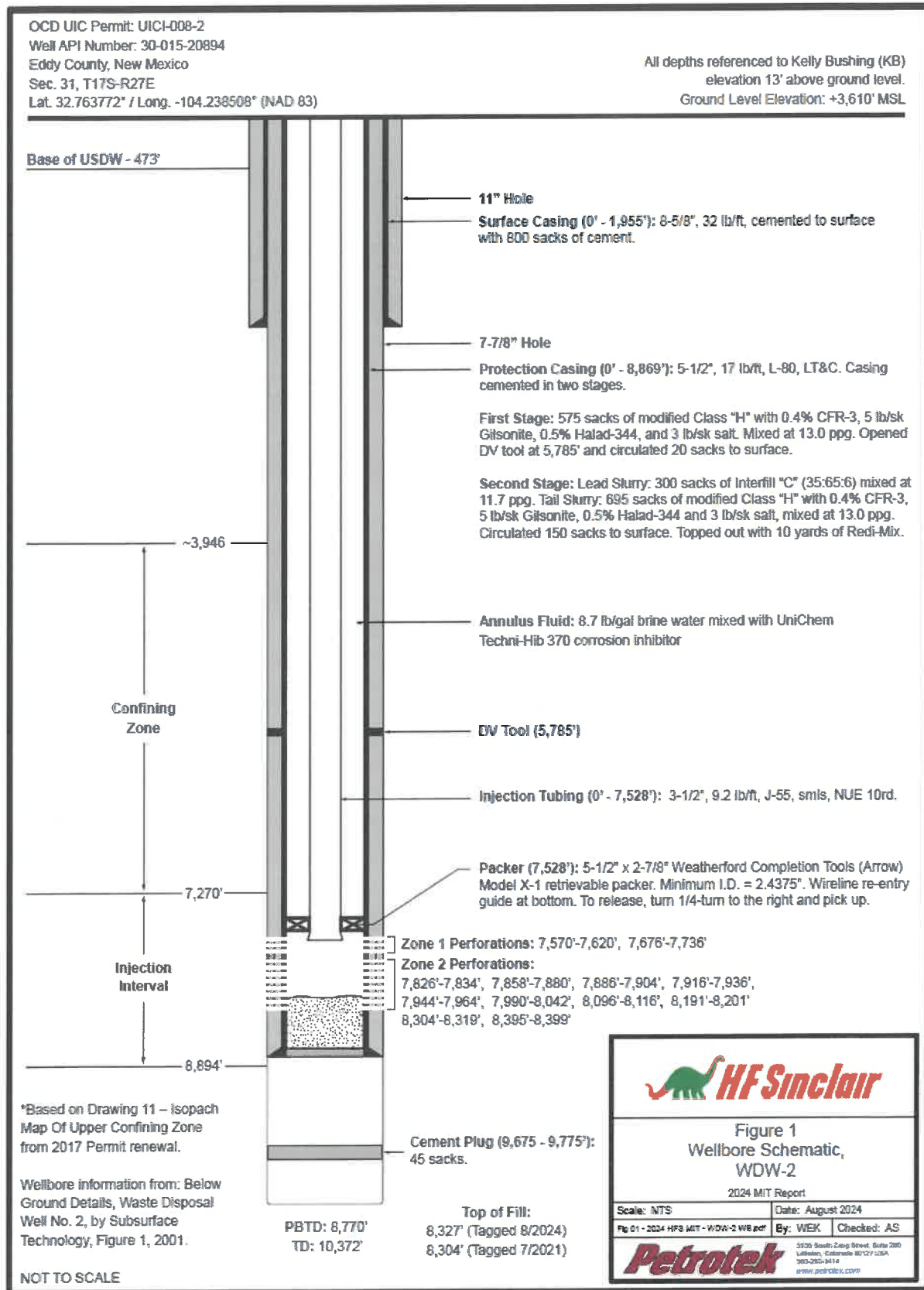
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

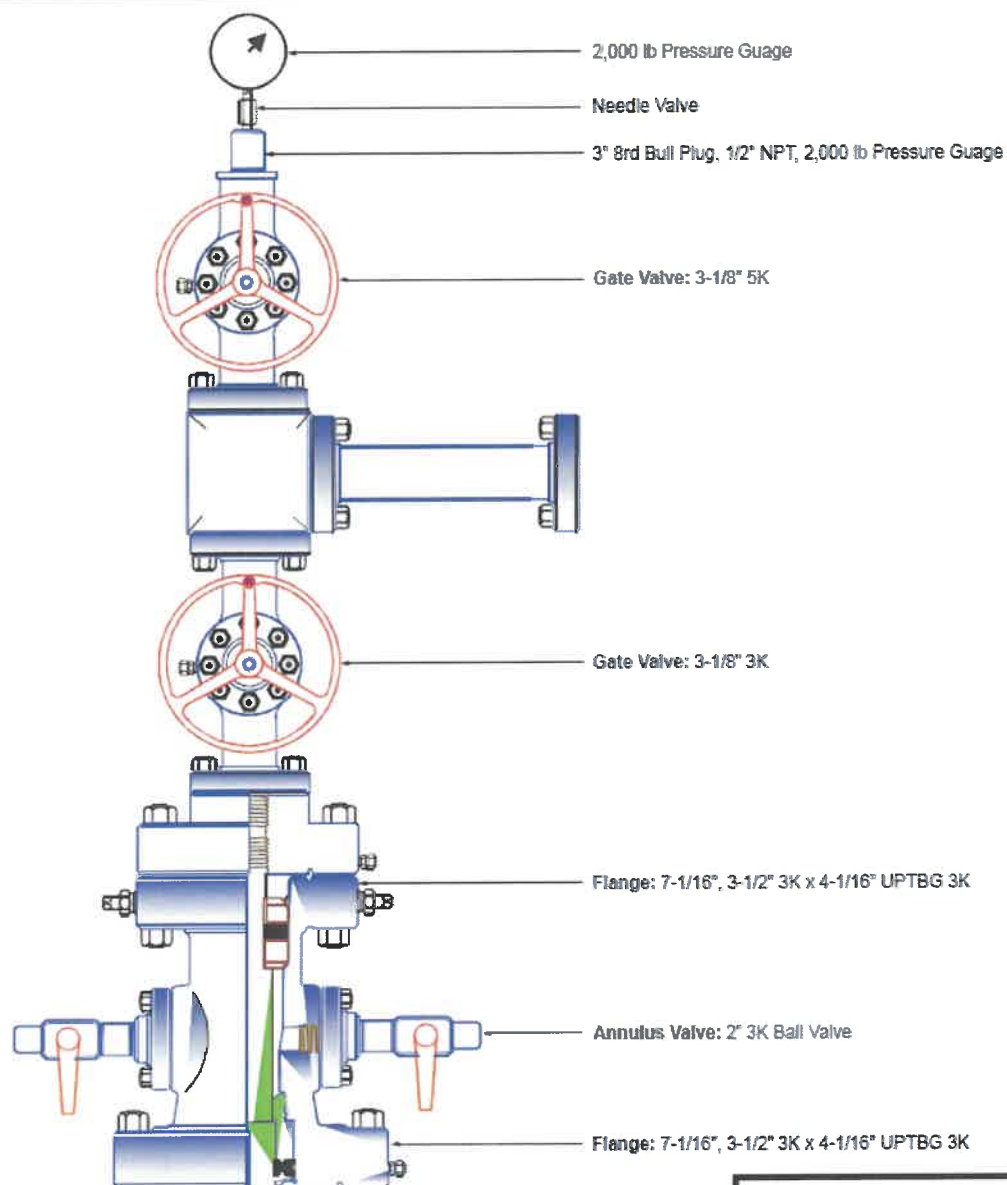
Conditions of Approval (if any): _____

2025 HF Sinclair Navajo Refining WDW-2 Bullhead Acid Stimulation Job Procedures		
Step No.	~ Time	Description
1	0700	Arrive at WDW-2 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-2, pressure test 1502 iron to 2,000 psi with fresh water from Pressure Services LLC; MASIP: 1,514 psi with site waste; well is currently operating at ~ 32 gpm / 1,350 psi whp; anticipating max treatment rate of ~ 80 - 120 gpm (~2.0 - 3.0 bpm)
	1400	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 66 bbls of fresh water or HFSNR injectate, shut in and soak for 1 hour
	1500	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-008-2
 Well API Number: 30-015-20894
 Eddy County, New Mexico
 Sec. 31, T17S-R27E
 Lat. 32.763772° / Long. -104.238508° (NAD 83)



Well Head information partially
 from: Well: Navajo Refining
 WDW #2, by Subsurface Technology

NOT TO SCALE



Figure 2
 Wellhead Schematic,
 WDW-2

2024 MIT Report

Scale: NTS	Date: August 2024
Fig 02 - 2024 HPS MIT - WDW-2 WH.pdf	By: WEK Checked: AS

Petrotek

5476 South Zang Street, Suite 200
 Littleton, Colorado 80121 USA
 303-265-8414
 www.petrotek.com

HF Sinclair Navajo Refinery
Tubular Table WDW-2
MASIP: 1,514

Casing Information														
Depth	Size	Weight	Material	Grade	Connection	Burst	70% Burst	Collapse	ID	Drift	BBL/ft	cu ft/ft	Coupling OD	Casing Vol [bbls]
8,869	5 1/2	17	CS	L-80	LTC	7,740	5,418	6,290	4.892	4.767	0.0232	0.1305	6.05	206
Injection Tubing														
Depth	Size	Weight	Material	Grade	Connection	Burst	70% Burst	Collapse	ID	Drift	BBL/ft	cu ft/ft	Coupling OD	Tubing Vol [bbls]
7,528	3 1/2	9.2	CS	J-55	NUE 10"rd	6,980	4,886	7,400	2.992	2.867	0.0087	0.0488	4.25	65
													Volume to top perf: 66.4	

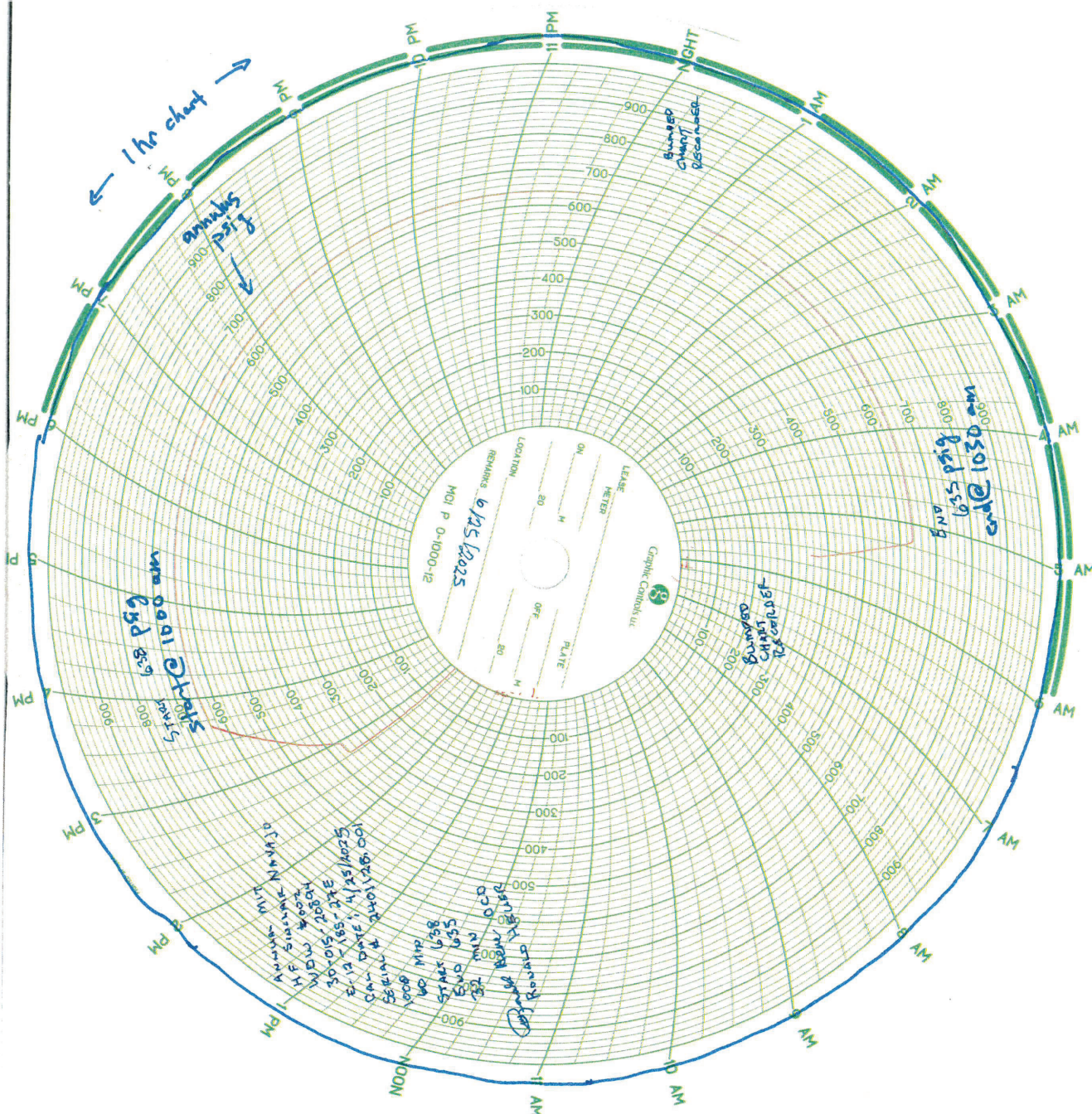
Zone 1 Perforations:

7,570' - 7,620' | 7,676' - 7,736'

Zone 2 Perforations:

7,826' - 7,834' | 7,858' - 7,880' | 7,886' - 7,904' | 7,916' - 7,936'
7,944' - 7,964' | 7,990' - 8,042' | 8,096' - 8,116' | 8,191' - 8,201',
8,304' - 8,319' | 8,395' - 8,399'

WDW-2



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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/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 499724

COMMENTS

Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201	OGRID: 15694
	Action Number: 499724
	Action Type: [C-103] Sub. Workover (C-103R)

COMMENTS

Created By	Comment	Comment Date
cchavez	WDW-2 C-103R Bulkhead Well Stimulation	8/27/2025

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cchavez	None	8/27/2025