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Energy, Minerals and Natural Resources

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

Revised July 18, 2013

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. 30-015-20894
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other – UIC Injection Well		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator HF SINCLAIR NAVAJO REFINERY LLC		6. State Oil & Gas Lease No. B-2071-28
3. Address of Operator P.O. Box 159, Artesia, NM 88210		7. Lease Name or Unit Agreement Name Chukka 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>		8. Well Number: WDW-2
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,678' GL		9. OGRID Number: 15694
		10. Pool name or Wildcat PENN 9681

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: PRESSURE FALLOFF TEST / MIT ☒

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.

July 7, 2024; Day 1: Begin constant-rate injection (+/- 10%) into CHUKKA WDW-2 as well as the three (3) offset wells for at least 30 hours prior to shut-in of WDW-2 for falloff testing. Target rate for WDW-2 is approximately 160 gpm. Wellhead pressure will not exceed 1,400 psig. Plant personnel will record rate, volume and pressure during the constant-rate injection period to ensure steady flow for analysis. Samples of the injectate will be collected approximately every 10 hours and analyzed for pH and specific gravity.

July 8, 2024; Day 2: Continue constant-rate injection into all four (4) wells.

July 9, 2024; Day 3: While injection continues, run dual downhole memory gauges to test depth making flowing gradient stops every 2,000 feet. Collect pressure data at test depth for at least 1 hour while injecting at constant rate. Shut in WDW-2 and collect falloff data for a minimum of 30 hours. As operationally feasible, WDW-1, WDW-3 and WDW-4 to continue injection at constant rate until downhole memory gauges are pulled from WDW-2.

July 10, 2024; Day 4: WDW-2 will remain shut-in while collecting falloff pressure data using downhole memory gauges.

July 11, 2024; Day 5: After a minimum of 30 hours of falloff data collection, remove gauges from the well making 5-minute gradient stops every 2,000 feet. Note the top of fill will be tagged either with gauges prior to pulling from the well, or on a second run with sinker bars after gauges are removed (TBD). Conduct MIT for a minimum of 30 minutes recording data electronically. Rig down wireline and return well to service.

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 6-11-24

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):



New Mexico Oil Conservation Division
UIC Class I Well Fall-Off Test Guidance
(Revised: September 27, 2021)

Why does a fall-off test need to be performed?..... 1

Essentials of Fall-off Testing..... 1

OCD UIC FALL-OFF TEST GUIDANCE..... 2

 SECTION I. Purpose..... 2

 SECTION II. Regulatory Citation 2

 SECTION III. Developing a Test Plan..... 2

 SECTION IV. Scheduling of Test and Report 2

 SECTION V. General Test Operational Considerations..... 2

 SECTION VI. Background Information 4

 SECTION VII. Conducting the Fall-off Test 4

 SECTION VIII. Evaluation of the Test Results..... 6

 SECTION IX. Report Components..... 6

 SECTION X. Contacts 9

New Mexico Oil Conservation Division UIC Class I Well Fall-Off Test Guidance

Why does a fall-off test need to be performed?

Fall-off testing is a pressure transient test conducted on injection well formations to assess individual well conditions. The test provides the state regulatory agency with the necessary information to assess the validity of requested or existing injection well permit conditions and satisfy the permitting objective of protecting underground sources of drinking water (USDW). The test may also provide information about reservoir and completion characteristics such as transmissibility, skin factor, bottomhole injection pressure, reservoir static pressure, and geologic boundaries.

In addition to the state UIC regulatory requirements, Federal UIC regulations in 40 CFR Part 146 have monitoring requirements applying to both Class I hazardous and nonhazardous injection wells that include annual fall-off testing. Specifically, Part 146 regulations state “the Director shall require monitoring of the pressure buildup in the injection zone annually, including at a minimum, a shutdown of the well for a time sufficient to conduct a valid observation of the pressure fall-off curve” (§146.13 (Non-hazardous)/§146.68 (Hazardous)). In the case of Class II wells, the regulations may not directly require that a fall-off test be conducted, but under 40 CFR 146.8(f), EPA or the state agency delegated UIC Class II program primacy can require additional testing such as a fall-off test on individual injection wells to ensure protection of USDWs.

Essentials of Fall-off Testing

A fall-off test is a pressure transient test involving shutting in an injection well and measuring the wellbore pressure decline versus time after radial flow conditions are achieved and well established in the preceding injection period. It is analyzed using the same pressure transient techniques for oil and gas well pressure buildup and drawdown tests. The fall-off period is a replay of the preceding injection period, but is typically less noisy since no injection occurs while the well's pressure change is measured, similar to the pressure buildup period in a production well.

Fall-off test data analysis can provide valuable information about both the condition of the wellbore itself and the nature of the reservoir the well injects into. For example, the skin factor parameter obtained from a fall-off test analysis can indicate whether completion damage exists and provide justification for a well stimulation or remedial treatment. The signature of the derivative may also provide insight into the well's completion, for example a negative half slope indicating spherical flow may be caused from wellbore fill or the well's completion. A properly designed fall-off may also provide information about natural fractures or geologic boundaries in the reservoir. The test analysis provides a determination of reservoir transmissibility which can be utilized to predict the relationship between reservoir pressure and injection rate, critical to designing appropriate UIC permit conditions. Recommended published technical references on fall-off testing methodology include Society of Petroleum Engineers (SPE) Monographs Volumes 1 and 5 as well as SPE Textbook Series Volumes 1 and 9.

For more detailed information about the basis, recommended calculations, and procedures for fall-off tests, the reader is referred to the US EPA internet URLs provided below:

USEPA Fall-Off Test Course

<http://www.epa.gov/safewater/dwa/electronic/presentations/uic/2003nutsbolts-notebook.pdf>

EPA Region 6 Fall-off Guidelines

<http://www.epa.gov/region6/water/swp/uic/guideline.pdf>

OCD UIC FALL-OFF TEST GUIDANCE

SECTION I. Purpose

The purpose of a fall-off test is to identify injection interval or wellbore problems and injection interval characteristics. The permittee is responsible for developing a testing procedure which will generate adequate data for a meaningful analysis.

SECTION II. Regulatory Citation

Pursuant to all applicable parts of the Water Quality Control Commission (WQCC) Regulations 20.6.2 NMAC and more specifically 20.6.2.3104 - 20.6.2.3999 discharge permit, and 20.6.2.5000-.5299 Underground Injection Control, the Oil Conservation Division (OCD), the OCD UIC Permit requires monitoring of the pressure buildup in the injection zone at least annually, including at a minimum, shut down of the well for a time sufficient to conduct a valid observation of the pressure fall-off. This test is known as the formation pressure fall-off test.

SECTION III. Developing a Test Plan

A plan for conducting the test shall be submitted to OCD for review and approval prior to conducting the test. Plan approval shall be obtained from OCD prior to commencing the test. The plan shall include a proposed schedule. The test plan must address all items listed in the Sections V through IX of this document.

SECTION IV. Scheduling of Test and Report

The schedule for the test must be mutually agreed upon between OCD and the permittee so that OCD has the opportunity to witness the test. The operator should submit a summary report to OCD within 30 days of test completion.

SECTION V. General Test Operational Considerations

A successful fall-off test involves consideration of numerous factors of which most are under the control of the permittee. These include but are not limited to the following:

1. Confirmation a constant injection rate can be maintained into the test well during the injectivity portion of the test.
2. The injection rate is sufficient to produce a measurable pressure buildup that will result in valid test data.
3. Consideration for using the normal waste liquid during the injectivity portion of the test unless the waste will be corrosive to the downhole pressure gauge.
4. Calculating the total volume of injection fluid needed for the injectivity portion of the test.

- a. Arrange for additional fluids and storage of such fluid
 - b. Reduce the injection rate to reduce the total fluid requirement
5. Sustaining a constant injection rate after installing the pressure gauges to allow stabilization of the gauges prior to initiating the fall-off test. A three day period is recommended, but adjustments may be made because rates have previously been stabilized or historical test results indicate a lesser time is adequate.
6. Ensuring adequate waste storage is available for the duration of the fall-off test.
7. Shutting in offset wells completed in the same formation as the test well prior to the test. If impractical, then maintaining stable measured injection rates into the offset injection wells prior to and during the fall-off test.
8. Installing a crown valve on the well prior to starting the injectivity portion of the test so the well does not have to be shut-in to install the pressure gauges. Running both memory gauges in the hole through a lubricator installed into the crown valve for safety.
9. Locating the shut-in valve ceasing flow to the well at or near the wellhead to minimize the wellbore storage in the well. Shut-in must be accomplished as instantaneously as possible to prevent erratic pressure behavior during the shut-in caused by the rate fluctuations.
10. Evaluating the condition of the well, including wellbore fill, junk in the hole or wellbore damage, which may increase the length of shut-in time needed for the well to obtain a valid fall-off test and therefore also necessitate a longer injectivity period.
11. Using a surface readout downhole pressure gauge. Utilizing tandem downhole memory electronic pressure gauges, one of which is surface readout capable, with a pressure resolution level of 0.0002% of the gauge's full pressure range. Gauge pressure range should exceed the maximum pressure expected during the testing with the larger the percentage of the gauge pressure range utilized, the better.
12. Maintaining a test operations log throughout the fall-off test and submitting the log as part of the test report. The log should list all key test events, dates, and times. For example, the time the gauges were activated, run in the well and placed on bottom as well their setting depths. Synchronization of times and events is especially important in tests involving multiple wells.
13. If available, monitoring test progress with appropriate plots at the wellsite to insure valid test data is obtained and problematic tests can be identified and aborted.
14. Configuring the test gauges to obtain pressure data more frequently in the early portion of the test when the rate of pressure decline is greater if the memory capacity of the gauge is limited. Memory capacity of the gauge should allow for a 10-day total recording time interval unless a shorter test time is sufficient based on prior testing or appropriate test design calculations. Larger time increments may be used to obtain data later in the test when the rate of pressure decline is less. The recording frequency of the gauges and overall length of test should be set based on results of previous tests or test design calculations.
15. Using the injection facility pump if capable of maintaining a constant injection rate at the desired pre-fall-off test rate. If an alternate pump is needed, design the pump to operate as smoothly as possible at the desired constant rate. If feasible, design the test for a constant injection rate to cause a minimum of 100 psi differential pressure between the final injection and shut-in pressures.

SECTION VI. Background Information

Acquisition of the following information is recommended for the planning, design, and analysis of the fall-off test.

1. Current wellbore schematic
 - a. Size and type of injection tubing (include type of internal coating, if applicable)
 - b. Packer depth
 - c. Tubing length including the depth of any seating or profile nipples, and the last date tubing was run
 - d. Size, type, and depth of casings
 - e. Cement tops with method of determining the top of cement
 - f. Top and bottom perforation/completion depths including the size of perforation holes and date perforated
 - g. Total depth, plug back depth, and the most recent depth to wellbore fill and date measured
 - h. Location of the pressure measuring tool during the test
2. Copy of an electric log encompassing the completed interval
3. Copy of relevant portions of any porosity log used to estimate formation porosity
4. PVT data
 - a. Estimation of formation fluid and reservoir rock compressibilities
 - b. Formation fluid viscosity with reference temperature
 - c. Formation fluid specific gravity/density with reference temperature
5. Injection fluids
 - a. Description of fluids injected
 - b. Injection fluid specific gravity/density with reference temperature
 - c. Injection fluid compressibility
 - d. Injection fluid viscosity with reference temperature
6. Daily rate history data for a minimum of one month preceding the fall-off test
7. Cumulative injection into the formation from test well and offset wells
8. Pressure gauges
 - a. Description of the downhole surface pressure readout or memory gauge
 - b. List the full range, accuracy and resolution of the gauges
 - c. A calibration certificate showing date the gauges were last calibrated
9. One mile Area of Review (AOR)
 - a. Identification of wells located within the one mile AOR
 - b. Ascertaining the status of wells within the one mile AOR
 - c. Providing details on any offset producers and injectors completed in the same injection interval
10. Geology
 - a. Description of the geologic environment of the injection interval
 - b. Discussion on the presence of pinchouts, channels, and faults, if applicable
 - c. Providing a portion of a relevant structure map, if necessary

SECTION VII. Conducting the Fall-off Test

The following are recommended procedures for conducting the fall-off test. Alternative procedures that will produce valid test results and satisfy the requirements of OCD and the regulations will be considered by the OCD.

1. Install a digital surface recorder, connected to a rate meter and a digital surface transducer, capable of adequately measuring surface injection rates and wellhead injection pressures during the test.
2. Confirm the constant pre-fall-off test injection rate is maintained prior to the fall-off.
3. Confirm pressure gauges have stabilized prior to shutting in the well for the fall-off test.
4. Following installation of the bottom hole pressure gauges and surface recorders, regulate injection to the stabilized designated pre-fall-off test injection rate that will result in a sufficiently sized pressure increase (above shut-in pressure) on the wellhead. If the injection rate was stabilized prior to running the downhole gauges and the gauge installation did not disrupt the injection rate, monitoring the gauge for a minimum of one hour may be sufficient for verifying that the bottom hole pressure is stabilized prior to initiating the fall-off test.
5. The injection rate shall be high enough and continuous for a period of time sufficient to produce a pressure buildup that will result in valid test data. The injection rate shall result in a pressure buildup such that a semi-log straight line can be determined from the Horner plot or other appropriate semi-log plot. The injection rate shall be the maximum injection rate that can be feasibly maintained constant in order to maximize pressure changes in the formation and provide valid test results, but not exceeding the daily injection pressure and volume limit of the UIC Permit.
6. Confirm the liquid injection density is held relatively constant during the injectivity portion of the test by periodically measuring one or more of the following:
 - a. Density
 - b. Chloride concentration
 - c. Total dissolved solids concentration
 - d. Conductivity
 - e. pH
7. The surface readout downhole pressure gauge must be located at or near the top of the injection interval unless previous testing indicates a more appropriate location.
8. ***If the stabilization injection period is interrupted, for any reason and for any length of time, the stabilization injection period must be restarted unless superposition analysis can be applied and valid test results obtained.***
9. The well must be shut-in at the wellhead or as near as feasible to the wellhead to minimize wellbore storage and after flow.
10. The well shut-in must be accomplished as instantaneously as possible to prevent erratic pressure behavior during the test.
11. Following shut-in at the well, shut-in relevant tubing valves to ensure complete shut-in of the well. Bottom-hole shut-in is preferred to surface shut-in, but not required. Shut-in the well with no disturbances for at least seven days or other approved time period as determined from previous tests results or the test design.
12. Upon completion of the test, tag fill depth with gauges, pull out bottom hole gauges making stops every 1000 feet for 5 minutes to obtain gradient data, rig down, and resume normal injection into the well as needed.
13. The fall-off portion of the test must be conducted for a length of time sufficient to reach radial flow, i.e., the pressure is no longer influenced by wellbore storage or skin effects and enough data points lie within the infinite acting period that the semi-log straight line

is well developed. A log-log with derivative plot should be prepared during the fall-off to verify that radial flow is occurring.

SECTION VIII. Evaluation of the Test Results

A licensed professional who is knowledgeable in the methods of pressure transient test analysis, must evaluate and summarize the test results. The following information and evaluations shall be provided in the test report:

1. A log-log plot with a derivative diagnostic plot shall be used to identify flow regimes.
2. The wellbore storage portion and infinite acting portion of the test shall be identified on the plot. Type curves shall be used to verify results.
3. A Horner plot or other appropriate semi-log plot must be used to calculate the kh/μ product and to determine P^* . The wellbore storage and infinite acting portions of the test should be identified on the plot. An expanded semi-log plot containing the entire infinite acting portion must be reproduced to permit a closer inspection of the semi-log slope and any data fluctuations. The slope used to calculate the transmissibility (kh/μ) and to determine P^* must be drawn on both semi-log plots.
4. The "h" value (injection interval thickness) used in the analysis must be agreed upon between OCD and the permittee. For formations with characteristics such as fracture-controlled karst reservoirs with porosity and permeability influenced by basement structural patterns and subaerial exposure, the entire thickness of the injection interval should be considered. A reliable literature value can be used if site specific data is not available.
5. The viscosity used in analyzing the test shall be that of the liquid through which the pressure transient was propagating during the infinite acting portion of the test. The information used to determine the viscosity shall be provided. Distance estimates to the waste front may also be needed.
6. Any test that was not shut-in long enough to develop an infinite acting period, or cannot be properly analyzed for transmissibility (kh/μ) from the semi-log plot, should be rerun using a procedure that will result in valid test results, unless other arrangements have been made with OCD.
7. All equations and assumptions used in the analysis shall be provided with the appropriate parameters substituted into the equations.
8. A plot of the temperature data shall be provided for review. Any temperature anomalies shall be noted to determine if they correspond to pressure anomalies since the temperature compensation mechanism of the pressure gauge may be influenced by temperature fluctuations.
9. Explain any anomalous pressure data responses. Investigate any potential physical causes for the anomaly in addition to potential reservoir response characteristics.

SECTION IX. Report Components

Include the following information in the report to the OCD in Santa Fe - Attention Engineering Bureau of the Division (see address under OCD contacts listed in the Contacts Section). The information in the report includes general information, an overview of the test, analysis of the test data, summary of the results and a comparison of the results with previous test results and UIC permit parameters. Submit the report to OCD within 30 days of test completion.

1. Facility information
 - a. Name
 - b. Location
 - c. Operator's OGRD number
2. Well information:
 - a. OCD UIC Permit number authorizing injection
 - b. Well classification
 - c. Well name and number
 - d. API number
 - e. Legal location
3. Current wellbore schematic as described in Section VI
4. Copy of an electric log encompassing the completed interval
5. Copy of relevant portions of any porosity log used to estimate formation porosity
6. PVT data of the formation and injection fluid as described in Section VI
7. Daily rate history data for a minimum of one month preceding the fall-off test
8. Cumulative injection into the formation from test well and offset wells
9. Pressure gauges
 - a. Describe the type of downhole surface pressure readout gauge used including manufacturer and type
 - b. List the full range, accuracy and resolution of the gauge
 - c. Provide the manufacturer's recommended frequency of calibration and a calibration certificate showing date the gauge was last calibrated
10. One mile Area of Review (AOR)
 - a. Identify wells located within the one mile AOR
 - b. Ascertain the status of wells within the one-mile AOR
 - c. Provide details on any offset producers and injectors completed in the same injection interval
11. Geology
 - a. Describe geologic environment of the injection interval
 - b. Discuss the presence of geologic features, i.e., pinchouts, channels, and faults, if applicable
 - c. Provide a portion of a relevant structure map, if necessary
12. Offset wells
 - a. Identify the distance between the test well and any offset wells completed in the same injection interval
 - b. Report the status of the offset wells during both the injection and shut-in portions of the test
 - c. Describe the impact, if any, the offset wells had on the test
13. Chronological listing of the daily testing activities (operations log)
 - a. Date of the test
 - b. Time of the injection period
 - c. Type of injection fluid
 - d. Final injection pressure and temperature prior to shutting in the well
 - e. Total shut-in time
 - f. Final static pressure and temperature at the end of the fall-off portion of the test

14. Describe the location of the shut-in valve used to cease flow to the well for the shut-in portion of the test.
15. Provide each of the following; including the equations used to calculate each, the equations with the appropriate parameters substituted in them, description of parameters used in calculations with references as to how the values were derived:
 - a. Radius of test investigation
 - b. Time to beginning of the infinite acting portion of the test
 - c. Slope or slopes determined from the semi-log plot
 - d. The value for transmissibility (kh/μ)
 - e. Permeability (k)
 - f. Skin factor (s)
 - g. Pressure drop due to skin (ΔP_{skin})
 - h. Flow efficiency ($(P_{\text{wf}} - \Delta P_{\text{skin}} - P_{\text{static}}) / (P_{\text{wf}} - P_{\text{static}})$)
 - i. Flow capacity (kh)
 - j. $P_{1\text{hr}}$ (extrapolated pressure at one hour)
16. Explain any pressure or temperature anomaly
17. Describe the test results
 - a. Discuss if the test reached radial flow or if it was dominated by wellbore storage or another type of flow regime.
 - b. Describe the reservoir results as homogeneous or heterogeneous explaining how this was determined.
18. Provide the following graphs:
 - a. Cartesian plot of pressure and temperature versus time
 - b. Cartesian plot of injection rate versus time
 - c. Log-log and derivative plots with the flow regions identified
 - i. Identify the wellbore storage period
 - ii. Identify the radial flow period
 - iii. Identify any other relevant flow regimes
 - d. Semi-log plot and expanded semi-log plot (typically Horner plots)
 - i. Identify the flow regions on each
 - ii. Draw the semi-log straight line
 - iii. Identify the P^* (false extrapolated pressure)
 - iv. Calculate $P_{1\text{hr}}$ (extrapolated pressure at one hour)
 - e. Plot of the digital surface rates and pressures from the surface pressure gauge
 - f. Plot of digital pressures and times from the bottom hole gauges
 - g. Complete injection rate history plot (injection rate and wellhead pressure vs. calendar time)
 - h. Current Hall plot with explanation for any changes to the slope of this plot
19. Comparison of permeability (k), transmissibility (kh/μ), skin (s), false extrapolated pressure (P^*), and depth to fill with the same values determined from fall-off tests previously conducted in the well.
20. A statement that the raw test data generated by the test will be kept on file by the permittee for a period of not less than 3 years and will be made available to OCD upon request during this time period. The raw test data need not be submitted to OCD unless requested.

SECTION X. Contacts

OCD Contacts:

Mr. Carl Chavez
Oil Conservation Division, Engineering Bureau
5200 Oakland Avenue, NE Suite 100
Albuquerque, NM 87113
Phone: 505-660-7923
E-mail: carlj.chavez@state.nm.us

Mr. Phillip Goetze
Oil Conservation Division, Engineering Bureau
5200 Oakland Avenue, NE Suite 100
Albuquerque, NM 87113
Phone: 505-660-8274
E-mail: phillip.goetze@state.nm.us

USEPA Contact:

Mr. Ken Johnson, PE
Ground Water / UIC Section Chief,
US EPA Region 6 Office
Ground Water/UIC Section
Mail Code: 6WDDG
1201 Elm Street, Suite 500
Dallas, TX 75270
Email: johnson.ken-e@epa.gov
Phone: 214-665-8473
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 353292

CONDITIONS

Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201	OGRID: 15694
	Action Number: 353292
	Action Type: [C-103] NOI General Sundry (C-103X)

CONDITIONS

Created By	Condition	Condition Date
cchavez	Conditions of Approval are: 1. Follow OCD UIC FOT Guidance Doc. (i.e., Test Plan, Report, etc.). 2. Notify OCD for witnessing FOT BOH gauge install/removal dates/times; and for injection shut-off. 3. Notify OCD of MIT date and time.	6/24/2024