

UIC - I - 8-1, 2 & 3

WDWs-1, 2 & 3

PERMITS,

RENEWALS,

& MODS (18 of 18)

2017

UIC - I - ____8-3__

C-103s

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

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-015-26575
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. B-2071-28
7. Lease Name or Unit Agreement Name GAINES – WDW - 3
8. Well Number: WDW - 3
9. OGRID Number: 15694
10. Pool name or Wildcat: PENN 96918
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3609' GL., RKB

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:

HollyFrontier Navaio Refining LLC.

3. Address of Operator:

P.O. BOX 159, ARTESIA, NM. 88211 ; 501 E. MAIN, ARTESIA, NM. 88210

4. Well Location

Unit Letter : N : 790 feet from the SOUTH line and 2250 feet from the WEST line
Section 1 Township 18S Range 27E NMPM County: EDDY

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 ☐

X: OTHER: PERFORM PRESSURE FALLOFF TEST

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.

AUG. 25, 2017 – Install bottomhole gauge into WDW-3 by 9:30 am. Continue injection into all three wells.

AUG. 26, 2017 – Continue normal Injection into all wells.

AUG 27, 2017 – At 9:30 am, Navajo personnel will start constant injection into the offset wells Mewbourne WDW-1 and Chukka WDW-2. A constant injection rate will be established for Gaines WDW-3 at 160 GPM and continue for a 30-hour injection period. Do not exceed 1400 psig wellhead pressure.

Plant personnel will record rate, volume, and pressure during the injection period for all wells to confirm that a constant pre-falloff injection rate is maintained.

Samples of the injection fluid will be collected every 10 hours; analyze the fluid for pH and Specific Gravity.

AUG 28, 2017 – At 3:30 pm, WDW-3 will be shut in for a 30-hour falloff period. WDW-1 and WDW-2 will continue constant injection rates of 160 GPM. WSP personnel will return to site.

AUG 29, 2017 – The Gaines WDW-3 well will continue to be shut in while monitoring falloff pressure.

AUG 30, 2017 – At 8:00am, acquire downhole pressure gauge from Gaines WDW-3. Tag bottom of fill and come out of hole very slowly, making 7-minute gradient stops while coming out of WDW-3 every 1000 feet (7000 ft, 6000 ft, 5000 ft, 4000 ft, 3000 ft, 2000 ft, 1000 ft, surface). Turn the wells back to Navajo personnel

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

SIGNATURE Lewis Dade TITLE: Environmental Specialist DATE Aug 7, 2017

Type or print name: Lewis Dade E-mail address: Lewis.Dade@hollyfrontier.com PHONE: 575-746-5281

For State Use Only

APPROVED BY: [Signature] TITLE Environmental Engineer DATE 8/10/2017

Conditions of Approval (if any): Dates may change due to weather conditions and/or plant issues.

APPENDIX N

WDW-2 CASED-HOLE LOGS



APPENDIX O

DRAFT PUBLIC NOTICE

PUBLIC NOTICE

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

In accordance with 20.6.2.3108.F NMAC, Navajo Refining Company, L.L.C. hereby gives public notice of its application to renew the New Mexico Oil Conservation Division (OCD) discharge permit to inject treated non-hazardous waste water effluent from the Artesia Refinery's on-site wastewater system into a Class I (nonhazardous) injection well WDW-2 (API# 30-015-20894). The WDW-2 is located in the SW/4, NW/4 of Section 12, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico. The WDW-2 is location approximately 10 miles SE of the intersection of US-285 and Hwy 82 or approximately 3 miles South of the intersection of Hwy 82 and CR-204 (Hilltop Road). The Navajo Refinery is located at 501 E. Main Street, Artesia, New Mexico.

Waste water from the refinery is generated from the treatment of waters from the processing of crude oil, including the removal of water entrained in crude oil, the washing of crude oil to remove salts and sediment, water used for heating and cooling during refining, boiler blowdown, and stormwater collected from process portions of the refinery.

Underground injection at WDW-2 occurs within the Lower Wolfcamp, Cisco and Canyon Formations within the injection interval from 7,570 to 8,399 feet (log depth). The injection rate into WDW-2 will not exceed 500 gpm and the maximum allowable surface injection pressure is 1,514 psig. The injected refinery waste water quality is approximately 3,400 mg/L total dissolved solids (TDS). Formation fluid within the permitted injection interval exceeds 10,000 mg/L TDS. Groundwater is first encountered in the area of WDW-2 at a depth of approximately 50 to 150 feet below land surface. The groundwater quality ranges from about 1,500 to 2,200 mg/L TDS.

Persons interested in obtaining further information, submitting comments, or requesting to be on a facility-specific mailing list for future notices may contact the Environmental Bureau Chief of the New Mexico Oil Conservation Division.

Comments and inquiries on regulations should be directed to:

Director
Conservation Division
Energy Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Telephone: (505) 476-3440

When corresponding, please reference the name of the applicant and the well name.

AVISO PUBLICO
ESTADO DE MEXICO
DEPARTAMENTO DE ENERGIA, MINERALES Y RECURSO NATURALES
DIVISION DE CONSERVACION DE PETROLEO

Por medio de la presente La Navajo Company anuncia que de conformidad con los requisitos de las regulaciones de la Comisión de Control de Calidad del Agua de Nuevo Mexico 20.6.2.3108.F NMAC, esta solicitando a la Division de Conservación del Petroleo de Nuevo Mexico (NMOCD) . Departamento del Medio Ambiente, un permiso de descarga para inyectar aguas residuales Artesia Refinery's hacia un pozo de inyección que se llama WDW-2 (API# 30-015-20894). El WDW-2 esta localizado en SW/4, NW/4 de Sección 12, Municipio 18 sur, 27 Este, Condado Eddy, Nuevo Mexico. El WDW-2 esta localizado aproximadamente 10 millas SE de la unidad de US-285 y Hwy 82 (Refineria Artesia) o aproximadamente 3 millas Sur de la unidad de Hwy. 82 y CR-204 (Hilltop Road). La Refineria Navajo se encuentra ubicada en 501 E. Main Street, Artesia, Nuevo Mexico.

La generacion de aguas residuales de la Refineria Artesia es el resultado del agua que se encuentran en el abastecimiento de crudo, el agua que se usa para el enfriamiento y calentamiento, el agua que se usa para retirar las sales del abastecimiento de crudo, y para purgar la caldera.

Las aguas residuales de WDW-2 se inyectaran hacia las formaciones de Lower Wolfcamp, Cisco Y Canyon, ubicadas entre 7,570 y 8,399 pies (profundidad de registro). La tasa de inyeccion de WDW-2 no excedera los 500 gpm a una presion de inyeccion que no excedera los 1,514 psig. Estas aguas residuales tendran un contenido de total de solidos disueltos (TDS) de 3,400 partes por millón. Formacion de fluido dentro del interval permitido exceed 10,000 miligramos per litro (mg/L) TDS. En el area en donde se encuentran el pozo (WDW-2), el agua fresco se encuentra a una profundidad de 50 a 150 pies por debajo de la superficie de la tierra con un TDS de 1,500 a 2,200 partes por millón (ppm).

Personas interesadas en obtener mayores informes, presentar sus comentarios o solicitar que se les incluya en las listas de direcciones de una planta en especial para futuros avisos pueden ponerse en contacto con el Jefe del Departamento del Medio Ambiente de la División de Conservación de Petroleo de Nuevo Mexico.

Por Favor envien los comentarios y las preguntas a:

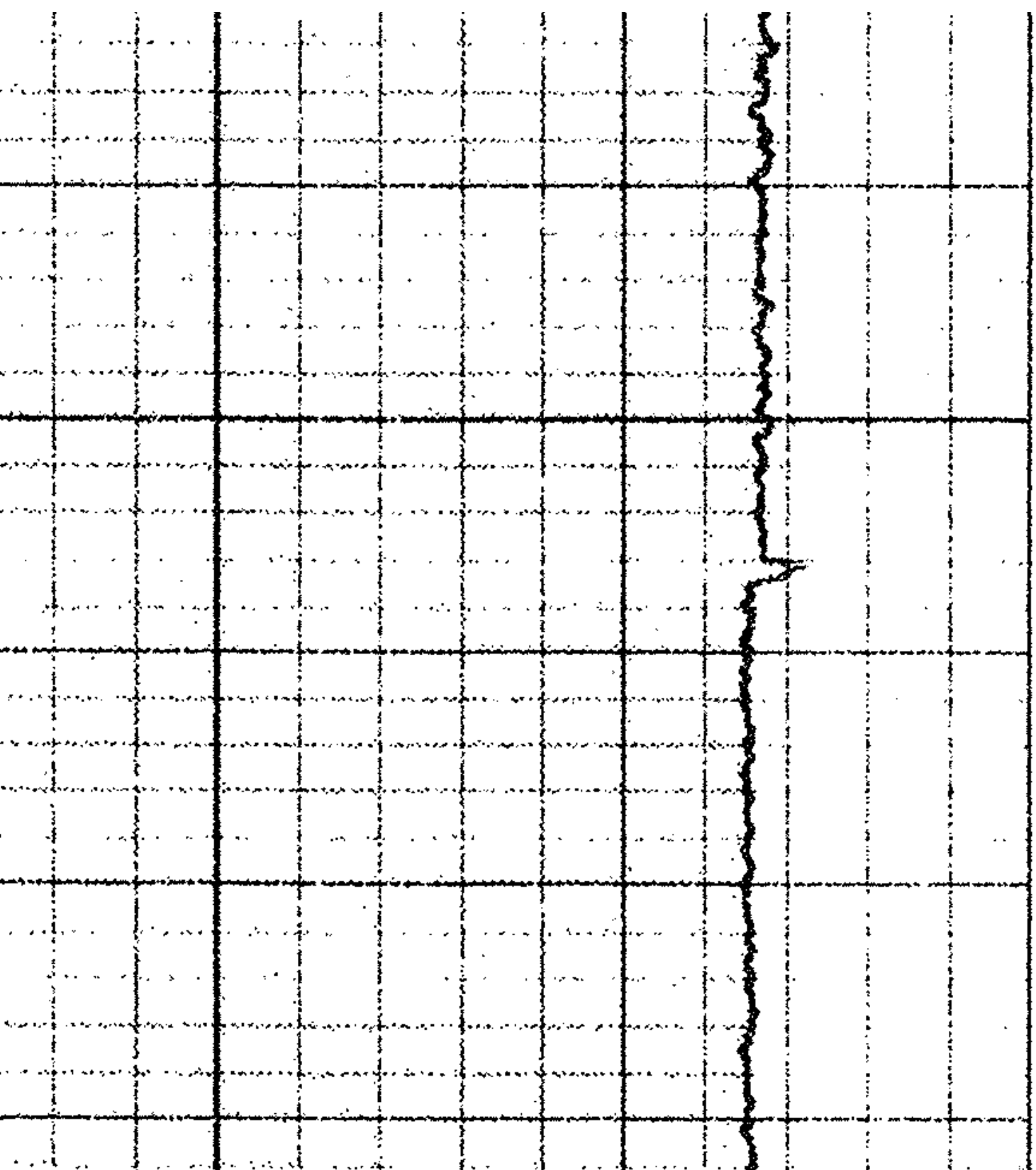
Director
Oil Conservation Division
Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Telefono: (505) 476-3440

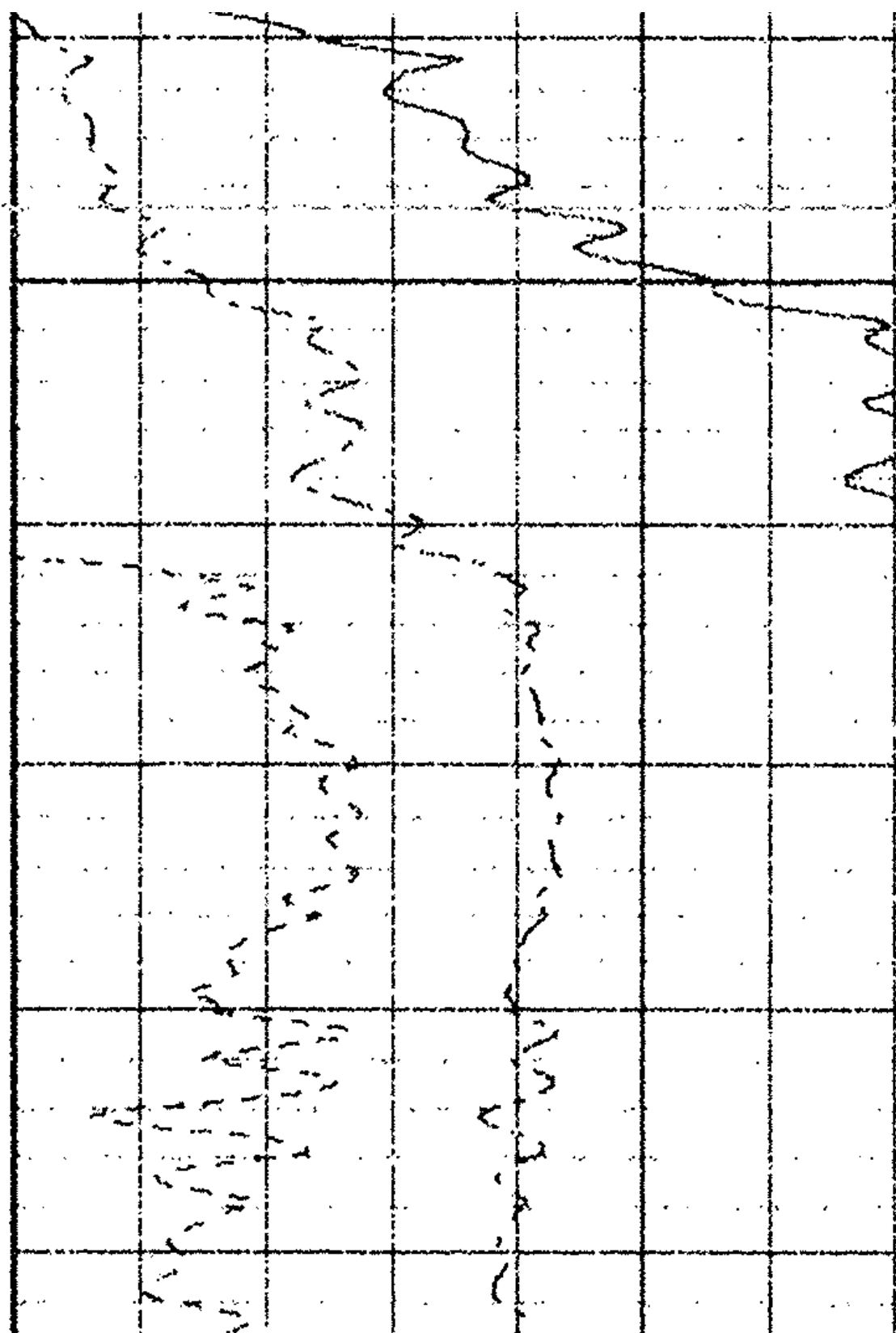
Cuando escriban, por favor pongan de referencia el nombre del aplicante y del pozo.

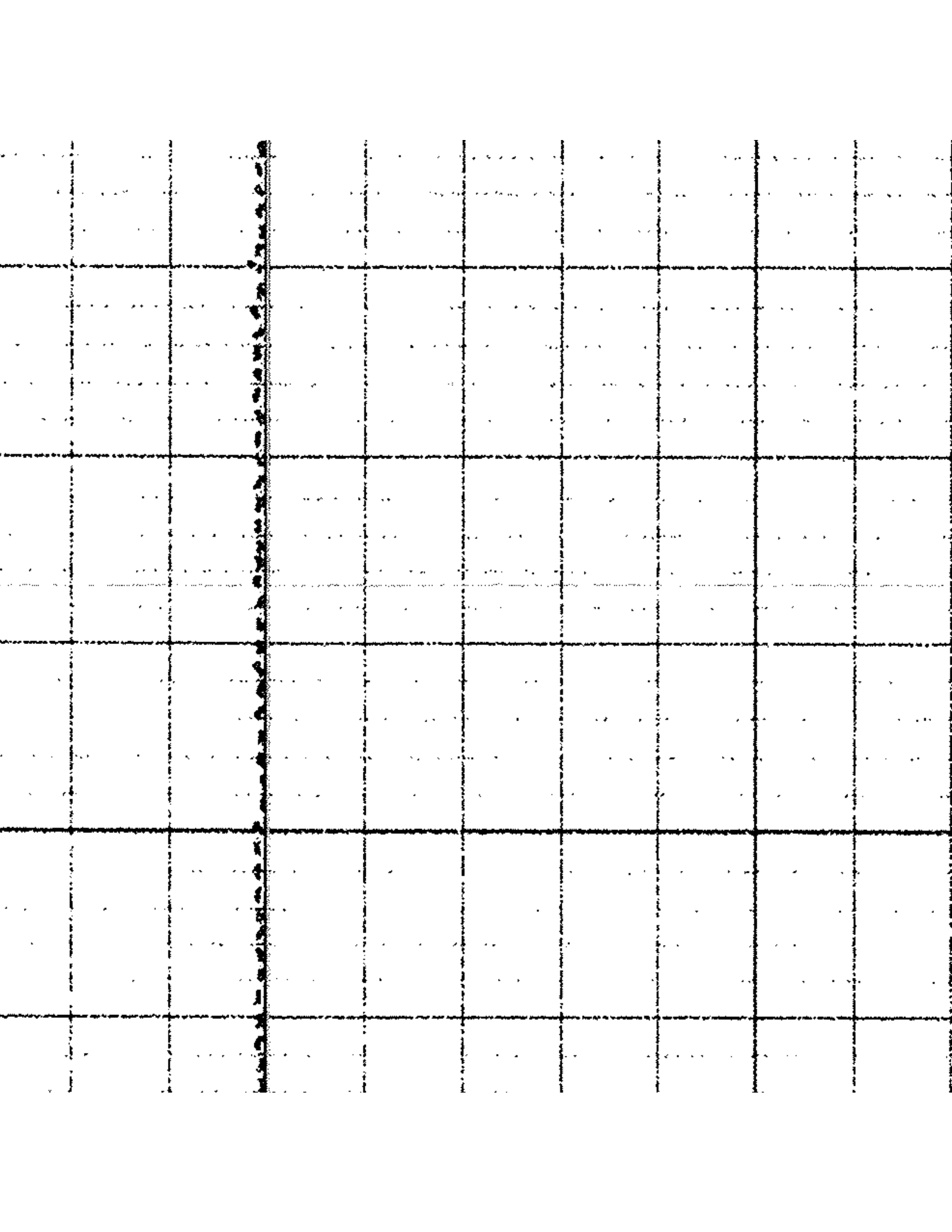








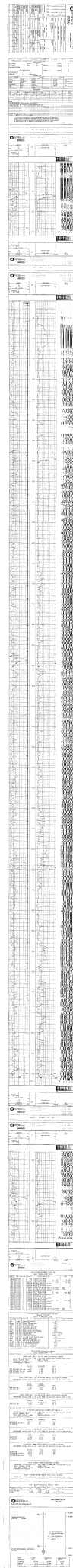




APPENDIX N

WDW-2 CASED-HOLE LOGS

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APPENDIX O

DRAFT PUBLIC NOTICE

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Conservation Division
Energy Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Telephone: (505) 476-3440

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**AVISO PUBLICO
ESTADO DE MEXICO
DEPARTAMENTO DE ENERGIA, MINERALES Y RECURSO NATURALES
DIVISION DE CONSERVACION DE PETROLEO**

Por medio de la presente La Navajo Company anuncia que de conformidad con los requisitos de las regulaciones de la Comisión de Control de Calidad del Agua de Nuevo Mexico 20.6.2.3108.F NMAC, esta solicitando a la Division de Conservación del Petroleo de Nuevo Mexico (NMOCD) . Departamento del Medio Ambiente, un permiso de descarga para inyectar aguas residuales Artesia Refinery's hacia un pozo de inyección que se llama WDW-2 (API# 30-015-20894). El WDW-2 esta localizado en SW/4, NW/4 de Sección 12, Municipio 18 sur, 27 Este, Condado Eddy, Nuevo Mexico. El WDW-2 esta localizado aproximadamente 10 millas SE de la unidad de US-285 y Hwy 82 (Refineria Artesia) o aproximadamente 3 millas Sur de la unidad de Hwy. 82 y CR-204 (Hilltop Road). La Refineria Navajo se encuentra ubicada en 501 E. Main Street, Artesia, Nuevo Mexico.

La generacion de aguas residuales de la Refineria Artesia es el resultado del agua que se encuentran en el abastecimiento de crudo, el agua que se usa para el enfriamiento y calentamiento, el agua que se usa para retirar las sales del abastecimiento de crudo, y para purgar la caldera.

Las aguas residuales de WDW-2 se inyectaran hacia las formaciones de Lower Wolfcamp, Cisco Y Canyon, ubicadas entre 7,570 y 8,399 pies (profundidad de registro). La tasa de inyeccion de WDW-2 no excedera los 500 gpm a una presion de inyeccion que no excedera los 1,514 psig. Estas aguas residuales tendran un contenido de total de solidos disueltos (TDS) de 3,400 partes por millón. Formacion de fluido dentro del interval permitido exceed 10,000 miligramos per litro (mg/L) TDS. En el area en donde se encuentran el pozo (WDW-2), el agua fresco se encuentra a una profundidad de 50 a 150 pies por debajo de la superficie de la tierra con un TDS de 1,500 a 2,200 partes por millón (ppm).

Personas interesadas en obtener mayores informes, presentar sus comentarios o solicitar que se les incluya en las listas de direcciones de una planta en especial para futuros avisos pueden ponerse en contacto con el Jefe del Departamento del Medio Ambiente de la División de Conservación de Petroleo de Nuevo Mexico.

Por Favor envien los comentarios y las preguntas a:

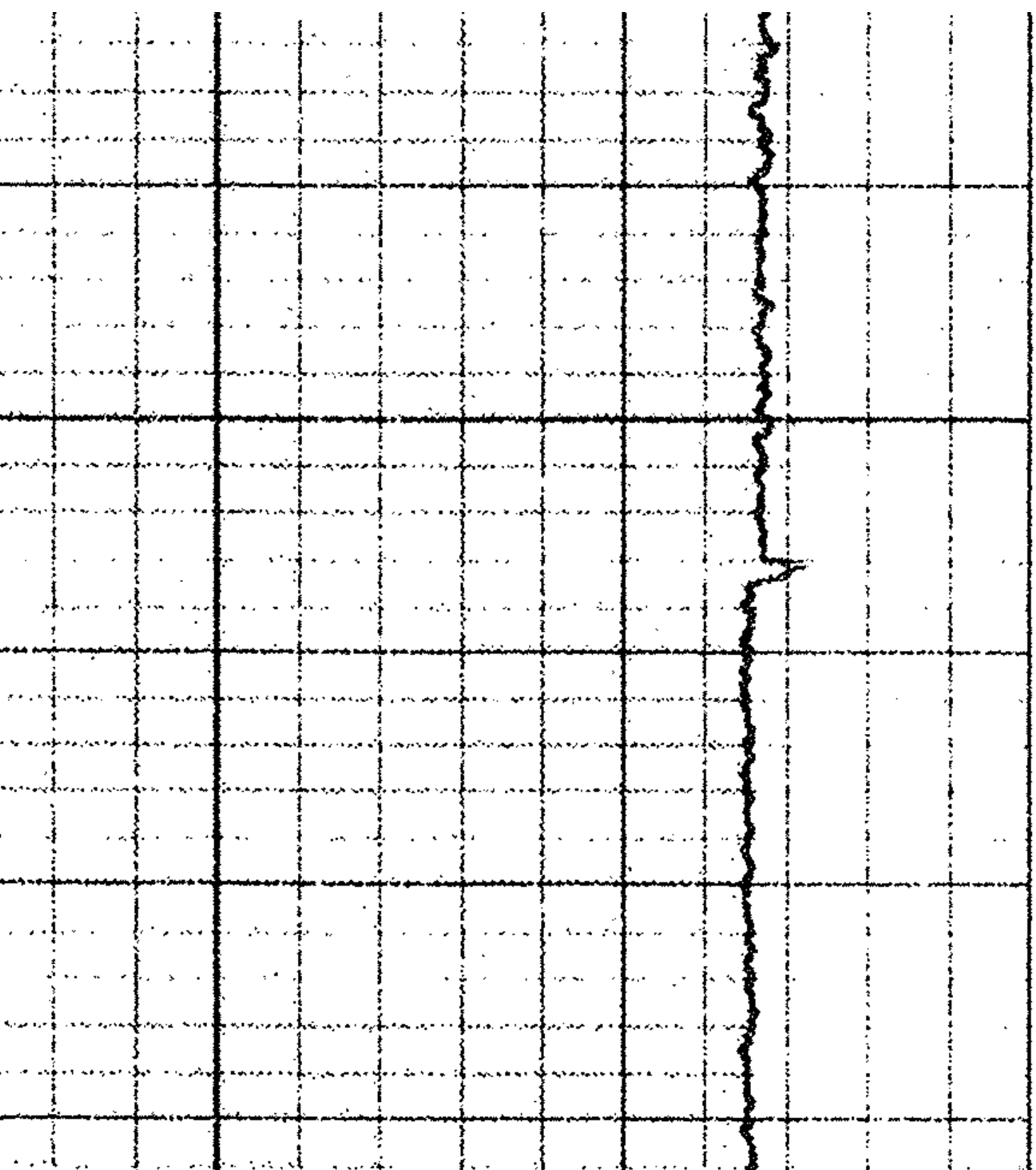
Director
Oil Conservation Division
Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Telefono: (505) 476-3440

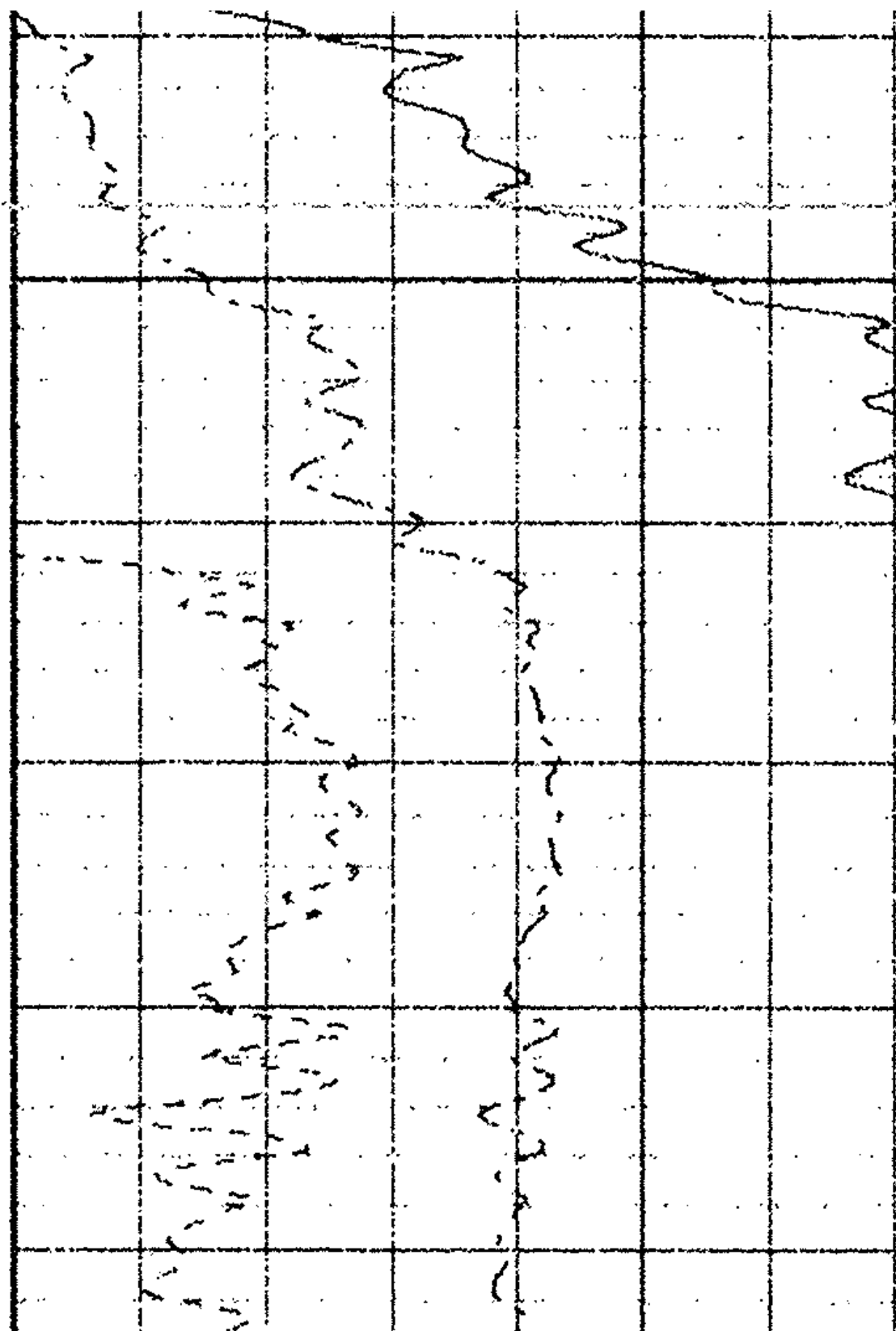
Cuando escriban, por favor pongan de referencia el nombre del aplicante y del pozo.

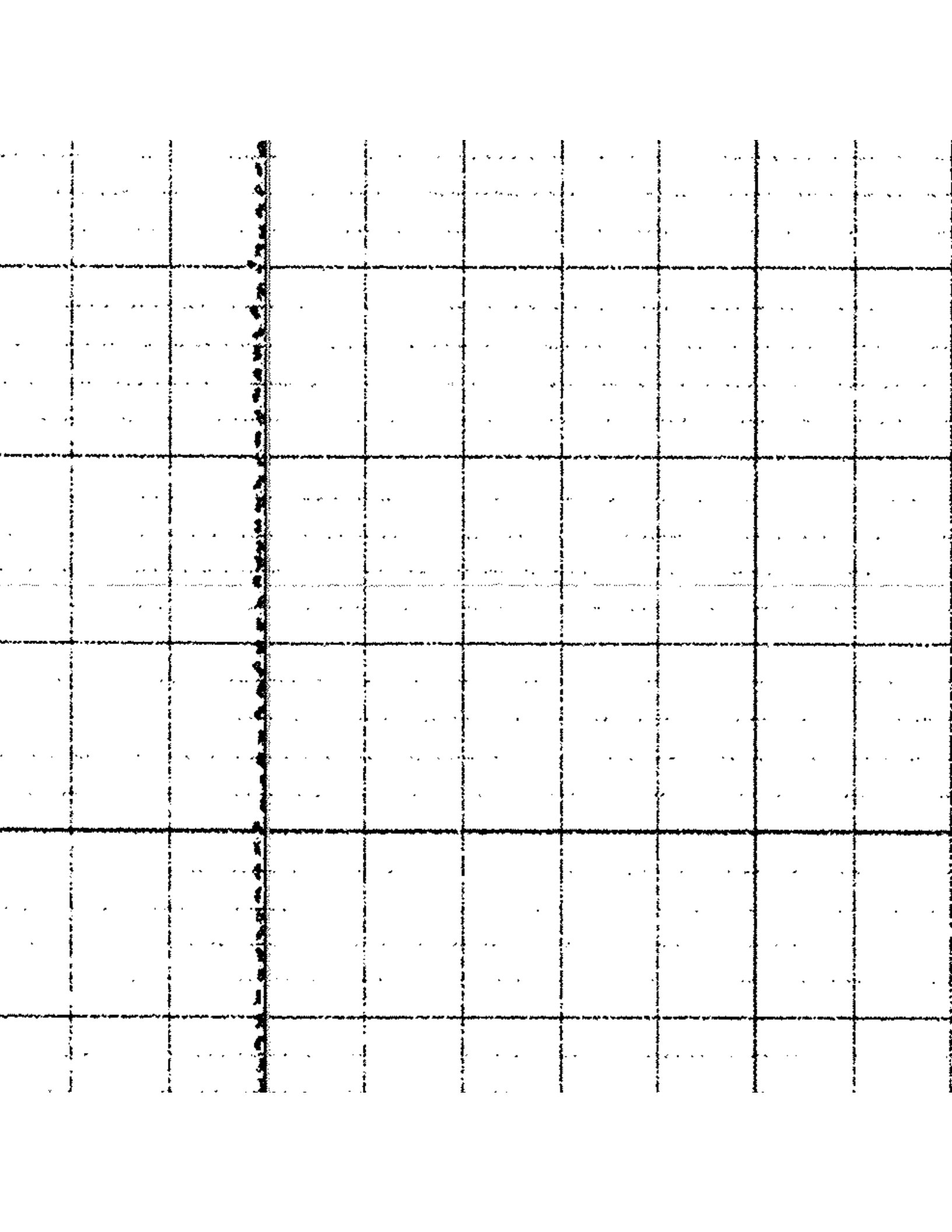




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UIC - I - ____8-2__

**GENERAL
CORRESPONDENCE
(WDW-2)**

2013 - Present



September 25, 2013

Scott Dawson
Deputy Director
Oil Conservation Division
Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Certified Mail/Return Receipt

7011 3500 0001 4786 1558

RE: Navajo Refining Company Class I Injection Well Permit Renewals

Dear Mr. Dawson:

Navajo Refining Company LLC (Navajo) was issued a Final Discharge Permit for its Class I Non-Hazardous Injection Well, WDW-3 (API No. 30-015-26575), on December 18, 2012; expiring June 1, 2017. Navajo subsequently submitted Renewal Applications for Class I Non-Hazardous Wells WDW-1 (API No. 30-015-27592) and WDW-2 (API No. 30-015-20894) on March 14, 2013 and July 24, 2013, respectively. Navajo hereby respectfully requests that the New Mexico Oil Conservation Division (NM OCD) process the two pending applications for WDW-1 and WDW-2 as soon as possible. In addition, Navajo requests that the two pending applications be issued with the same expiration date as WDW-3, June 1, 2017.

If you have any questions, please do not hesitate to contact me at (575) 746-5487. We appreciate your assistance in this matter.

Sincerely,

Michael W. Holder
Environmental Manager
Navajo Refining Co. LLC

Elec. Cc: Glenn VonGonten, NM OCD
Carl Chavez, NM OCD

Env. Files: Injection Wells, Permit Renewal Request, WDW Class I, Subm'
2013-09-25 Permits. WDW-3.Gaines.Subm.UIC Permit Issuance

PUBLIC NOTICE

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

In accordance with 20.6.2.3108.F NMAC, Navajo Refining Company, L.L.C., located at 501 E. Main Street, Artesia, New Mexico, hereby gives public notice of its application to renew the New Mexico Oil Conservation Division (OCD) discharge permit to inject treated non-hazardous waste water effluent from the refinery's on-site wastewater treatment plant into three Class I (nonhazardous) injection wells listed below:

- WDW-1 (API# 30-015-27592). The WDW-1 is located in the SW/4, SE/4 of Section 31, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico. The WDW-1 is located approximately 11 miles SE of the intersection of I-285 and Hwy 82 or approximately 1 mile SW of the intersection of Hwy 82 and CR-206.
- WDW-2 (API# 30-015-20894). The WDW-2 is located in the SW/4, NW/4 of Section 12, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico. The WDW- 2 is located approximately 10 miles SE of the intersection of US-285 and Hwy 82 or approximately 3 miles South of the intersection of Hwy 82 and CR-204 (Hilltop Road).
- WDW-3 (API# 30-015-26575). The WDW-3 is located in the SE/4, SW/4 of Section 1, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico. The WDW-3 is located approximately 14 miles E-SE of the intersection of I-285 and Hwy 82 (Navajo Refinery) or approximately 2.75 miles S of Hwy 82 and CR-225.

Waste water from the refinery is generated from the treatment of waters from the processing of crude oil, including the removal of water entrained in crude oil, the washing of crude oil to remove salts and sediment, water used for heating and cooling during refining, boiler blowdown, and stormwater collected from process portions of the refinery. Underground injection for each of the wells occurs within the Lower Wolfcamp, Cisco and Canyon Formations.

- Underground injection at WDW-1 occurs within the injection interval from 7,924 to 8,476 feet (log depth). The injection rate into WDW-1 will not exceed 500 gpm and the maximum allowable surface injection pressure is 1,585 psig. The injected refinery waste water quality is approximately 3,400 mg/L total dissolved solids (TDS).
- Underground injection at WDW-2 occurs within the injection interval from 7,570 to 8,399 feet (log depth). The injection rate into WDW-2 will not exceed 500 gpm and

the maximum allowable surface injection pressure is 1,514 psig. The injected refinery waste water quality is approximately 3,400 mg/L TDS.

- Underground injection at WDW-3 occurs within the injection interval from 7,660 to 8,620 feet (log depth). The injection rate into WDW-3 will not exceed 500 gpm and the maximum allowable surface injection pressure of 1530 psig.

The injected refinery waste water quality is approximately 3,400 mg/L TDS. Formation fluids within the permitted injection interval exceeds 10,000 mg/L TDS. Groundwater is first encountered in the area of the wells is at a depth range of approximately 50 to 150 feet below land surface. The groundwater quality ranges from about 1,500 to 2,200 mg/L TDS.

Persons interested in obtaining further information, submitting comments, or requesting to be on a facility-specific mailing list for future notices may contact the Environmental Bureau Chief of the New Mexico Oil Conservation Division.

Comments and inquiries on regulations should be directed to:

Director
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Telephone: (505) 476-3440

When corresponding, please reference the name of the applicant and the well name.

AVISO PUBLICO
ESTADO DE MEXICO
DEPARTAMENTO DE ENERGIA, MINERALES Y RECURSO NATURALES
DIVISION DE CONSERVACION DE PETROLEO

Por medio de la presente, la compania Navajo Refining Company, L.L.C., en 501 E. Main Street, Artesia, Nuevo Mexico, en conformidad con los requisitos de las regulaciones de la Comisión de Control de Calidad del Agua de Nuevo Mexico 20.6.2.3108.F NMAC, esta solicitando a la Division de Conservación del Petroleo de Nuevo Mexico (NMOCD), anuncia al publico el permiso de descarga para inyectar aguas residuals, sin arriesgado, de la Refinería de Navajo:

- WDW-1 (API# 30-015-27592). El pozo WDW-1 esta localizado en SO/4, SE/4 de Sección 31, Municipio 17 Sur, Rango 28 Este, Condado Eddy, Nuevo Mexico. El WDW-1 2 esta localizado aproximadamente 11 millas SE de la unidad de I-285 y Hwy 82 o aproximadamente 1 milla SO de la unidad de Hwy 82 y CR-206.
- WDW-2 (API# 30-015-20894). El pozo WDW-2 esta localizado en SO/4, NO/4 de Sección 12, Municipio 18 Sur, Rango 27 Este, Condado Eddy, Nuevo Mexico. El WDW-2 esta localizado aproximadamente 10 millas SE de la unidad de US-285 y Hwy 82 (Refineria Artesia) o aproximadamente 3 millas Sur de la unidad de Hwy. 82 y CR-204 (Hilltop Road).
- WDW-3 (API# 30-015-26575). El pozo WDW-3 esta localizado en SE/4, SO/4 of Sección 1, Municipio 18 Sur, Rango 27 Este, Condado Eddy, Nuevo Mexico. El WDW-3 esta localizado aproximadamente 14 millas este-sur-este de la unidad de I-285 y Hwy 82 (Refinería de Navajo) or aproximadamente 2.75 millas Sur de Hwy 82 y CR-225.

La generacion de aguas residuals de la Refineria de Navajo es el resultado del agua que se encuentran en al abastecimiento de crudo, el agua que se usa para el enfriamiento y calentamiento, el agua que se usa para retirar las sales del abastecimiento de crudo, y para purgar la caldera. Las aguas residuals para se inyectaran en cada pozo hacia las formaciones de Wolfcamp (bajo), Cisco, y Canyon,

- Inyectaran en WDW-1 ubicada entre 7,924 y 8,496 pies (produndidad de registro). La tasa de inyeccion de WDW-1 no excedera los 500 gpm a una presion de inyeccion que no excedera los 1,585 psig. Estas aguas residuals tendran un contenido de total de solidos disueltos (TDS) de 3,400 partes por millón (ppm).
- Inyectaran en WDW-2 ubicada entre 7,570 y 8,399 pies (produndidad de registro). La tasa de inyeccion de WDW-2 no excedera los 500 gpm a una presion de inyeccion que no excedera los 1,514 psig. Estas aguas residuals tendran un contenido de TDS de 3,400 ppm.

- Inyectaran en WDW-3 ubicada entre 7,660 y 8,620 pies (profundidad de registro). La tasa de inyección de WDW-1 no exceda los 500 gpm a una presión de inyección que no exceda los 1,530 psig. Estas aguas residuales tendrán un contenido total de sólidos disueltos (TDS) de 3,400 ppm.

Formación de fluido dentro del intervalo permitido exceda 10,000 miligramos por litro (mg/L) TDS. En el área en donde se encuentran el pozo, el agua fresca se encuentra a una profundidad de 50 a 150 pies por debajo de la superficie de la tierra con un TDS de 1,500 a 2,200 partes por millón (ppm).

Personas interesadas en obtener mayores informes, presentar sus comentarios o solicitar que se les incluya en las listas de direcciones de una planta en especial para futuros avisos pueden ponerse en contacto con el Jefe del Departamento del Medio Ambiente de la División de Conservación de Petróleo de Nuevo México.

Por Favor envíen los comentarios y las preguntas a:

Director
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Teléfono: (505) 476-3440

Cuando escriban, por favor pongan de referencia el nombre del aplicante y del pozo.