BW - 2

PERMITS, APPLICATIONS & MODS.

2020

From:	Cory Walk
To:	Chavez, Carl J, EMNRD
Cc:	Pritchett, Gary; Hull, Jason
Subject:	[EXT] Eunice Brine - Public Notice
Date:	Monday, July 6, 2020 10:18:57 AM
Attachments:	Eunice Brine - Proof of Public Notice.pdf

Good Morning Carl,

Please see the attached pdf document showing proof of publication in the various methods required. You will find the public notice was posted in the newspaper on June 18th. The signage was posted in two separate locations on June 21st. And a certified mailing to all surface owners within a 1/3 mile radius was sent out on June 18th. Please let me know if you have any questions or need any further information.

Thank you,

--

Cory Walk
Natural Resources Specialist/Geologist
Permits West
37 Verano Loop
Santa Fe, NM 87508

Office: 505-466-8120
Mobile: 760-445-4409

Eunice Brine #001
Proof of Public Notice

1) Hobbs News-Sun Newspaper Posting
    a. Certified copy
2) Onsite Posting
    a. Pdf document
    b. Labeled photo
    c. Affidavit
3) Offsite Posting
    a. Pdf document
    b. Labeled photo
    c. Affidavit
4) Certified Mail
    a. Cover letter example
    b. Scanned cards

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
June 18, 2020
and ending with the issue dated
June 18, 2020.

Publisher

Sworn and subscribed to before me this
18th day of June 2020.

Business Manager

My commission expires
January 29, 2023
(Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-23

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

Public Notice
Basic Energy Services, L.P., 801 Cherry Street, Suite 2100, Fort Worth, TX 76102, has for a new discharge permit for the existing Eunice Brine #001 well. The class III brine su well is located at 630' FSL & 2427' FEL, Unit O, Sec. 34, T. 21 S., R. 37 E. (Lat.: N 32.4 Long.: W 103.15015°), Lea County, NM. This is just outside of Eunice, NM city limits immediately south of the Desert Oasis RV park on S 4th street. Fresh water from the City Eunice will be injected through tubing into the Salado Formation at an injection interval b 1,450' and 1,818' below ground surface (bgs). The injected fresh water is estimated to c less than 820 mg/l TDS. Normal operating injection rate is expected to be approximately gpm (750 bwpd) with a maximum rate of 65 gpm (2,200 bwpd). Normal operating injectio pressure is 200 to 250 psi with a maximum injection pressure of 290 psi. The fresh wate brine and then be pumped back to the surface through the well annulus between the tub the production casing (0' - 1,450'). The brine water will have an estimated TDS of 300,00 and a maximum discharge rate of 65 gpm (2,200 bwpd). This brine water will then be us drilling and completion operations in the oilfield. Groundwater most likely to be affected b spill, leak or accidental discharge is at a depth of 50' below ground level with a TDS concentration of approximately 610 mg/l. The permit requires that the brine well must be constructed and operated in a manner that will not adversely affect groundwater quality. NM Oil Conservation Division will accept comments and statements of interest regarding application and will create a facility-specific mailing list for persons who wish to receive fu notices. Interested parties may contact the NM Oil Conservation Division, 1220 South Sa Francis Dr., Santa Fe, NM 87505, phone: (505) 476-3441. Additional information can als obtained by contacting: Cory Walk, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 8 Phone number is (505) 466-8120.

Aviso Público
Basic Energy Services, L.P., 801 Cherry Street, Suite 2100, Fort Worth, TX 76102, ha solicitado un nuevo permiso de descarga para el pozo existente, Eunice Brine #001. La III pozo de suministro de agua salada se encuentra localizada 630 FSL y 2427 FEL, unic en sección 34, Municipio 21 Sur, Rango 37 Este, (Lat.: N 32.42983° Long.: W 103.15015 Condado de Lea, Nuevo México. Esta ubicación está afuera de los límites de la ciudad d Eunice inmediatamente al sur del Desert Oasis RV Park en S 4th street. Agua fresca de ciudad de Eunice se inyectará través de tubos en la Formación Salado en un intervalo de inyección entre 1,450' y 1,818' debajo de la superficie del suelo. Se estima q agua fresca inyectada contiene menos de 820 mg/l TDS (solidos disueltos totales). Se e que la velocidad de inyección de funcionamiento normal sea de aproximadamente 22 ga por minuto (750 barriles de agua por día) con una velocidad máxima de 65 galones por m (2200 barriles de agua por día). La presión de inyección de funcionamiento normal es d a 250 psi (libras por pulgada cuadrada) con una presión de inyección máxima de 290 ps agua fresca se convertirá a agua salada y luego se bombea de vuelta a la superficie a tr del anillo del pozo entre el tubo y la carcasa de producción (0' – 1,450'). El agua salada estima contener 300,000 mg/l de TDS y una velocidad máxima de descarga de 65 galon minuto (2,200 barriles de agua por día). Esta agua salada se utilizará para operaciones d perforación y terminación en el campo petrolero. El agua subterránea con mayor probab de verse afectada por un derrame, una fuga, o deshecho accidental está a una profundid 50' por debajo del nivel de suelo con una concentración de 610 mg/l de TDS. El permiso requiere que el pozo de agua salada deberá ser construido y operado en una manera qu afectan negativamente a la calidad del agua subterránea. La División de Conservación d petróleo del Nuevo México (OCD) aceptará comentarios y declaraciones de interés respe esta aplicación y creará una lista de instalaciones específicas para las personas que des recibir futuras comunicaciones. Las personas interesadas pueden ponerse en contacto c División de Conservación de petróleo del Nuevo México, 1220 South Saint Francis Dr., S Fe, NM 87505, teléfono: (505) 476-3441.

02108485 00243571

BRIAN WOOD
PERMITS WEST
37 VERANO LOOP
SANTA FE, NM 87508

PUBLIC NOTICE

Basic Energy Services, L.P., 801 Cherry Street, Suite 2100, Fort Worth, TX 76102, has applied for a new discharge permit for the existing Eunice Brine #001 well directly behind this sign. Basic Energy's previous permit for this well expired in early 2019. The well is presently shut-in and will begin operations again upon approval of this permit.

The class III brine supply well will inject fresh water from the City of Eunice through tubing into the Salado Formation at an injection interval between 1,450' and 1,818' below ground surface (bgs). The injected fresh water is estimated to contain less than 820 mg/l TDS. Normal operating injection rate is expected to be approximately 22 gpm (750 bwpd) with a maximum rate of 65 gpm (2,200 bwpd). Normal operating injection pressure is 200 to 250 psi with a maximum injection pressure of 290 psi. The fresh water will brine and then be pumped back to the surface through the well annulus between the tubing and the production casing (0' - 1,450'). The brine water will have an estimated TDS of 300,000 mg/l and a maximum discharge rate of 65 gpm (2,200 bwpd). This brine water will then be used for drilling and completion operations in the oilfield. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of 50' below ground level with a TDS concentration of approximately 610 mg/l. The permit requires that the brine well must be constructed and operated in a manner that will not adversely affect groundwater quality.

The NM Oil Conservation Division will accept comments and statements of interest regarding the application and will create a facility-specific mailing list for persons who wish to receive future notices. Interested parties may contact the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, phone: (505) 476-3441. Additional information can also be obtained by contacting: Cory Walk, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120.

AVISO PÚBLICO

Basic Energy Services, L.P., 801 Cherry Street, Suite 2100, Fort Worth, TX 76102, ha solicitado un nuevo permiso de descarga para el pozo existente, Eunice Brine #001, detrás de este signo. El permiso anterior de Basic Energy para este pozo expiró a principios de 2019. El pozo está actualmente cerrado y comenzará a operar nuevamente luego de la aprobación de este permiso.

La Clase III pozo de suministro de agua salada inyectará agua fresca de la ciudad de Eunice a través de tubos en la Formación Salado en un intervalo de inyección entre 1,450' y 1,818' debajo de la superficie del suelo. Se estima que el agua fresca inyectada contiene menos de 820 mg/l TDS (solidos disueltos totales). Se espera que la velocidad de inyección de funcionamiento normal sea de aproximadamente 22 galones por minuto (750 barriles de agua por día) con una velocidad máxima de 65 galones por minuto (2200 barriles de agua por día). La presión de inyección de funcionamiento normal es de 200 a 250 psi (libras por pulgada cuadrada) con una presión de inyección máxima de 290 psi. El agua fresca se convertirá a agua salada y luego se bombea de vuelta a la superficie a través del anillo del pozo entre el tubo y la carcasa de producción (0' – 1,450'). El agua salada se estima contener 300,000 mg/l de TDS y una velocidad máxima de descarga de 65 galones por minuto (2,200 barriles de agua por día). Esta agua salada se utilizará para operaciones de perforación y terminación en el campo petrolero. El agua subterránea con mayor probabilidad de verse afectada por un derrame, una fuga, o deshecho accidental está a una profundidad de 50' por debajo del nivel de suelo con una concentración de 610 mg/l de TDS. El permiso requiere que el pozo de agua salada deberá ser construido y operado en una manera que no afectan negativamente a la calidad del agua subterránea.

La División de Conservación de petróleo del Nuevo México (OCD) aceptará comentarios y declaraciones de interés respecto a esta aplicación y creará una lista de instalaciones específicas para las personas que deseen recibir futuras comunicaciones. Las personas interesadas pueden ponerse en contacto con La División de Conservación de petróleo del Nuevo México, 1220 South Saint Francis Dr., Santa Fe, NM 87505, teléfono: (505) 476-3441.


2b
Onsite Posting
Posted: June 21, 2020
Photo Taken by:
Andrea Schafer (Permits West staff)

2b

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2c

Eunice Brine #001

Affidavit of Onsite Public Notice Posting

AFFIDAVIT OF PUBLIC NOTICE

I, Cory Walk, authorized permitting agent of Basic Energy Services, L.P., an applicant to the NMOCD for a UIC Class III brine well permit, solemnly swear that the required public notice (2' x 3' signage in both English and Spanish) in a conspicuous place on the brine well facility site was posted by a staff member under my direct supervision on June 21, 2020. The posting will remain posted for a minimum of 30 days.

Cory Walk

Cory Walk
Permits West Inc.
Authorized Agent for Basic Energy Services, L.P.

Sworn and subscribed before me this 25 day of JUNE, 2020.

Notary

My commission expires 9 December 2023.

(Seal)

Official Seal
ANDREA MARIA SCHAFER
Notary Public
State of New Mexico
My Comm. Expires 12/9/23

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La Clase III pozo de suministro de agua salada se encuentra localizada 630 FSL y 2427 FEL, unidad O, en sección 34, Municipio 21 Sur, Rango 37 Este, (Lat.: N 32.42983° Long.: W 103.15015°), Condado de Lea, Nuevo México. Esta ubicación está afuera de los límites de la ciudad de Eunice inmediatamente al sur del Desert Oasis RV Park en S 4th street. Agua fresca de la ciudad de Eunice se inyectará a través de tubos en la Formación Salado en un intervalo de inyección entre 1,450' y 1,818' debajo de la superficie del suelo. Se estima que el agua fresca inyectada contiene menos de 820 mg/l TDS (solidos disueltos totales). Se espera que la velocidad de inyección de funcionamiento normal sea de aproximadamente 22 galones por minuto (750 barriles de agua por día) con una velocidad máxima de 65 galones por minuto (2200 barriles de agua por día). La presión de inyección de funcionamiento normal es de 200 a 250 psi (libras por pulgada cuadrada) con una presión de inyección máxima de 290 psi. El agua fresca se convertirá a agua salada y luego se bombea de vuelta a la superficie a través del anillo del pozo entre el tubo y la carcasa de producción (0' – 1,450'). El agua salada se estima contener 300,000 mg/l de TDS y una velocidad máxima de descarga de 65 galones por minuto (2,200 barriles de agua por día). Esta agua salada se utilizará para operaciones de perforación y terminación en el campo petrolero. El agua subterránea con mayor probabilidad de verse afectada por un derrame, una fuga, o deshecho accidental está a una profundidad de 50' por debajo del nivel de suelo con una concentración de 610 mg/l de TDS. El permiso requiere que el pozo de agua salada deberá ser construido y operado en una manera que no afectan negativamente a la calidad del agua subterránea.

La División de Conservación de petróleo del Nuevo México (OCD) aceptará comentarios y declaraciones de interés respecto a esta aplicación y creará una lista de instalaciones específicas para las personas que deseen recibir futuras comunicaciones. Las personas interesadas pueden ponerse en contacto con La División de Conservación de petróleo del Nuevo México, 1220 South Saint Francis Dr., Santa Fe, NM 87505, teléfono: (505) 476-3441.

3b
Offsite Posting
Posted: June 21, 2020
Photo Taken by:
Andrea Schafer (Permits West staff)

3b

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La División de Conservación de petróleo del Nuevo México (OCD) aceptará comentarios y declaraciones de interés respecto a esta aplicación y creará una lista de instalaciones específicas para las personas que deseen recibir futuras comunicaciones. Las personas interesadas pueden ponerse en contacto con La División de Conservación de petróleo del Nuevo México, 1220 South Saint Francis Dr., Santa Fe, NM 87505, teléfono: (505) 476-3441.

3c

Eunice Brine #001

Affidavit of Offsite Public Notice Posting

AFFIDAVIT OF PUBLIC NOTICE

I, Cory Walk, authorized permitting agent of Basic Energy Services, L.P., an applicant to the NMOCD for a UIC Class III brine well permit, solemnly swear that the required public notice (2' x 3' signage in both English and Spanish) in a conspicuous place away from the brine well facility site was posted by a staff member under my direct supervision on June 21, 2020. The offsite posting was posted on the corner of Texas Ave (NM-176) and S 4th Street in Eunice, NM. The posting will remain posted for a minimum of 30 days.

Cory Walk

Cory Walk
Permits West Inc.
Authorized Agent for Basic Energy Services, L.P.

Sworn and subscribed before me this 25 day of JUNE, 2020.

Notary

My commission expires 9 December 2023.

(Seal)

Official Seal
ANDREA MARIA SCHAFER
Notary Public
State of New Mexico
My Comm. Expires 12/9/23

PERMITS WEST
37 Verano Loop, Santa Fe, New Mexico 87508 505-466-8120

Public Notice

June 18, 2020

Chevron USA Inc.
PO BOX 285
Houston TX 77001

Basic Energy Services, L.P., 801 Cherry Street, Suite 2100, Fort Worth, TX 76102, has applied for a new discharge permit for the existing Eunice Brine #001 well. Basic Energy's previous permit for this well expired in early 2019. The well is presently shut-in and will begin operations again upon approval of this permit. As required by Water Quality Control Commission Regulations 20.6.2.3108.B.2 NMAC, I am notifying you of this application as you are a property owner of record within a 1/3-mile radius of the brine well location. This letter is a notice only. No action is needed unless you have questions or objections.

The class III brine supply well is located at 630' FSL & 2427' FEL, Unit O, Sec. 34, T. 21 S., R. 37 E. (Lat.: N 32.42983° Long.: W 103.15015°), Lea County, NM. A map is included within this mailing. The well is just outside of Eunice, NM city limits immediately south of the Desert Oasis RV park on S 4th street. Fresh water from the City of Eunice will be injected through tubing into the Salado Formation at an injection interval between 1,450' and 1,818' below ground surface (bgs). The injected fresh water is estimated to contain less than 820 mg/l TDS. Normal operating injection rate is expected to be approximately 22 gpm (750 bwpd) with a maximum rate of 65 gpm (2,200 bwpd). Normal operating injection pressure is 200 to 250 psi with a maximum injection pressure of 290 psi. The fresh water will brine and then be pumped back to the surface through the well annulus between the tubing and the production casing (0' - 1,450'). The brine water will have an estimated TDS of 300,000 mg/l and a maximum discharge rate of 65 gpm (2,200 bwpd). This brine water will then be used for drilling and completion operations in the oilfield. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of 50' below ground level with a TDS concentration of approximately 610 mg/l. The permit requires that the brine well must be constructed and operated in a manner that will not adversely affect groundwater quality.

The owner and operator of the existing facility is:

Basic Energy Services, L.P.
801 Cherry Street
Suite 2100
Fort Worth, TX 76102

The OCD has determined the application is administratively complete and has prepared a draft permit. The NM Oil Conservation Division will accept comments and statements of interest regarding the application and will create a facility-specific mailing list for persons who wish to receive future notices. Interested parties may contact the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, phone: (505) 476-3441. Additional information can also be obtained by visiting the OCD website (http://www.emnrd.state.nm.us/OCD/env-draftpublicetc.html) or by contacting: Cory Walk, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120.

Sincerely,

Cory Walk

Cory Walk
Permit Agent for Basic Energy Services, L.P.

Basic Energy Services L.P.

Eunice Brine Well #1
Area of Review

630' FSL & 2427' FEL
Sec. 34, Township 21S, Range 37E
Lea County, New Mexico

Eunice Brine Well #1

1:7,000

0 0.1 0.2
Miles

N

NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST

Prepared by Permits West, Inc., June 15, 2020
for Basic Energy Services L.P.

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☐ Adult Signature Restricted Delivery $
Postage $
Total Postage and Fees $
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Postage $
Total Postage and Fees $
Sent To STEVEN M BRANNAN
Street and Apt. No., or PO Box No. PO BOX 753
City, State, ZIP+4® EUNICE NM 88231
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Adult Signature Restricted Delivery
Postage
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Sent To CAROL CALHOON
Street and Apt. No., or PO Box No. 11002 RICHMOND AVE
City, State, ZIP+4® LUBBOCK TX 79424
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Sent To MARIA CARAZA
Street and Apt. No., or PO Box No. PO BOX 698
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Sent To DEBRA KAY CASEY ET AL
Street and Apt. No., or PO Box No. PO BOX 1591
City, State, ZIP+4® EUNICE NM 88231
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Sent To WILLIAM CATON
Street and Apt. No., or PO Box No. 4393 COUTNY RD 103 N
City, State, ZIP+4® ABILENE TX 79601
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Street and Apt. No., or PO Box No. 200 SOUTH 10TH ST
City, State, ZIP+4® RICHMOND TX 77469
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MISTY & CASEY BAKER
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Derby Mobile Home Park LLC
680 W 121ST AVE SUITE 110
DENVER CO 80234
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JOSEPH L LANDES
BOX 344
EUNICE NM 88231
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CORNELIO HERNANDEZ
8008 S EUNICE HWY
HOBBS NM 88240
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FRED L MONTANEZ
PO BOX 1254
EUNICE NM 88231
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ANNIE OWEN
1101 W CHRISTOPHER LN
HOBBS NM 88240
Eunice 1 2020 PN

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Heirs of EVA OWEN
F M STEPHENS, ATTORNEY-IN-FACT
BOX 115
EUNICE NM 88231
Eunice 1 2020 PN

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EUNICE NM 88231
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NERSADO GAS / KE ANDREWS + CO
1900 DALROCK
ROWLETT TX

7019 0140 0000 9915 4138

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Warren Petro
KE ANDREWS & COMPANY
1900 DALROCK RD
ROWLETT TX 75088
Eunice 1 2020 PN

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Postage
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Sent To
HARRY R WERNER
BOX 628
EUNICE NM 88231
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City, State, ZIP+4®

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- Adult Signature Restricted Delivery $

Postage
$
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DAVID WRIGHT
PO BOX 2101
HOBBS NM 88241
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- Adult Signature Restricted Delivery $

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Total Postage and Fees
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D&C Properties
PO BOX 1735
EUNICE NM 88231
Eunice 1 2020 PN
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- Return Receipt (electronic) $
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- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
$
Total Postage and Fees
$
Sent To
SHIRLEY M BROWN
PO BOX 449
EUNICE NM 88231
Eunice 1 2020 PN
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

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- Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Sent To
WILLIE LEE LUSTER
PO BOX 655
EUNICE NM 88231
Eunice 1 2020 PN
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

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- Certified Mail Restricted Delivery $
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- Adult Signature Restricted Delivery $

Postage
$
Total Postage and Fees
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Sent To
WILLIE L LUSTER
PO BOX 552
EUNICE NM 88231
Eunice 1 2020 PN
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

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Postage
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ALEX NAVARRO
PO BOX 37
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- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
$
Total Postage and Fees
$
Sent To
MARICELA RIVERA
PO BOX 469
EUNICE NM 88231
Eunice 1 2020 PN
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

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Lea County Board of Commissioners
100 N MAIN
LOVINGTON NM 88260
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City, State, ZIP+4®

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JUN 18 2020

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7018 3090 0001 0916 1178

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Director
Oil Conservation Division

JUNE 9, 2020

Sent via e-mail only

Mr. Gary Pritchett
C/O: Basic Energy Services, L.P.
801 Cherry, Suite #2100
Fort Worth, Texas 76102

Re: New Discharge Permit (BW-2) Basic Energy Services, L.P., UIC Class III Brine Well "Eunice Brine Well No. 1" (API No. 30-025-26884) UL: O Section 34 Township 21 South, Range 37 East, 630 FSL, 2427 FEL, Lat. 32.42983º, Long. -103.15015º, NMPM, Lea County, New Mexico

Mr. Pritchett,

The New Mexico Oil Conservation Division (OCD) has received Basic Energy Services, L.P.'s (Basic) discharge permit renewal application for the Eunice Brine Well No. l to inject fresh water into the Salado Formation to produce brine. The initial submittal officially received on May 19, 2020 provided the required information to deem the application "**administratively complete**" per New Mexico Water Quality Control Commission regulations (20.6.2.3108 NMAC).

Basic obligations to provide public notice under the Water Quality Control Commission (WQCC) regulations notice requirements of 20.6.2.3108 NMAC should commence and be demonstrated to the OCD in a timely manner. The OCD will also provide notice to various governmental groups and/or stakeholders. Depending upon the level of public interest, a hearing may be scheduled on this matter. OCD will continue to review of the application and may request additional information to satisfy various technical permitting requirements of the division.

If you have any questions, please do not hesitate to contact me by phone at (505) 660-7923, U.S. Mail at the address below, or e-mail at carlj.chavez@state.nm.us. On behalf of the OCD, I wish to thank you and your staff for your continued cooperation in this process.

Sincerely,

Carl J. Chavez
Environmental Engineer

xc: OCD Hobbs District Office

From:	Chavez, Carl J, EMNRD
To:	: "Sandoval, Alexandra J., DGF"; Wunder, Matthew, DGF; "Shije, Suzette, IAD"; ddapr@nmda.nmsu.edu; adunn@slo.state.nm.us; James_Amos@blm.gov; psisneros@nmag.gov; r@rthicksconsult.com; sric.chris@earthlink.net; nmparks@state.nm.us; Blaine, Tom, OSE; marieg@nmoga.org; Fetner, William, NMENV; lazarus@glorietageo.com; perry@glorietageo.com; cjoyner@fs.fed.us; Pierard, Kevin, NMENV; bsg@garbhall.com; Hunter, Michelle, NMENV; claudette.horn@pnm.com; ekendrick@montand.com; pam@ipanm.org; Bratcher, Mike, EMNRD; Kelly, Jonathan, EMNRD; Powell, Brandon, EMNRD; Kautz, Paul, EMNRD; Torres, Susan, EMNRD; Goetze, Phillip, EMNRD; Polak, Tiffany, EMNRD; Wade, Gabriel, EMNRD
Cc:	Tulk, Laura, EMNRD; Neville, Merlinda, EMNRD; Lujan, Elizabeth, EMNRD; Pritchett, Gary; Cory Walk
Subject:	Basic Energy Services, L.P. Eunice Brine Well No. 1 (BW-2) (API# 30-025-26884) in Lea County Brine Well Application Administratively Complete
Date:	Thursday, June 11, 2020 3:59:00 PM

Ladies and Gentlemen:

The New Mexico Oil Conservation Division (OCD) recently deemed the Water Quality Control Commission Underground Injection Control (UIC) Class III Brine Well Discharge Permit for Basic Energy Services, L.P. Eunice Brine Well No. 1 application to be "**administratively complete**" under 20.6.2.3108 NMAC.

The OCD public notice is scheduled to post in the Sunday, June 21, 2020 editions of the Hobbs-Sun News and Santa Fe New Mexican. OCD will allow at least 30-days from the date of the newspaper postings for the public comment period to be completed. The OCD draft permit will be posted on or before the post date. The final discharge permit, if issued, is subject to completion of the technical review process with additional notice to stakeholders. If there are any changes made by OCD to the original draft permit, if issued, OCD will allow for an additional 30-days for the appeal period to ellapse under 20.6.2.3112 NMAC before permit issuance.

Discharge Permit Renewal (BW-2) Basic Energy Services, L.P. (06/10/2020):
The Underground Injection Control (UIC) Class III Solution Mining Well "Eunice Brine Well No. 1" (API# 30-025-26884) is located at UL: O, Section 34, Township 21 South, Range 37 East, Latitude: N 32.42983º Longitude: W -103. 15015°, NMPM, Lea County. The brine well may be found driving approximately 3/4 mile east on Texas Street and 1/2 mile south on Fourth Street from the Town of Eunice, New Mexico.

Administratively Complete (6/9/2020)
Description (6/10/2020)
Application (5/19/2020)
Discharge Permit (Draft to be posted soon)
Public Notice (Estimated OCD date: Sunday 6/21/2020)

Please click on the OCD draft discharge permit web link at http://www.emnrd.state.nm.us/OCD/env-draftpublicetc.html to keep apprised of updates and for access to OCD Online Web based well information resources.

Please contact me at (505) 660-7923 or E-mail: CarlJ.Chavez@state.nm.us if you have questions or require further assistance.

Thank you.

Mr. Carl J. Chavez, CHMM (#13099)
New Mexico Oil Conservation Division (Albuquerque Office)
Energy Minerals and Natural Resources Department
5200 Oakland Avenue, NE

Albuquerque, New Mexico 87113
Ph. (505) 660-7923
E-mail: CarlJ.Chavez@state.nm.us
"Why not prevent pollution, minimize waste to reduce operating costs, reuse or recycle, and move forward with the rest of the Nation?" (To see how, go to:
http://www.emnrd.state.nm.us/OCD **and see "Publications")**

From:	Cory Walk
To:	Chavez, Carl J, EMNRD
Subject:	[EXT] Eunice Water Quality Search
Date:	Thursday, May 28, 2020 5:08:33 PM
Attachments:	Basic_Eunice1_WaterQuality_Map_v1.pdf 1RP-3690_MW_Map.pdf AP-56_TDS_Map.pdf

---

Hi Carl,

After looking at the records of groundwater quality in the area on OCD Online, I wanted to discuss a couple things with you. Please take a look at the attached map ("Basic_Eunice1_WaterQuality_Map_v1") I made which gives a brief overview of what I found. Also take a look at the notes below and additional maps ("AP-56_TDS_Map" & "1RP-3690_MW_Map") attached to this email as supporting documents that might help in our discussion. Once you are able to digest all this do you mind giving me a call tomorrow so we can discuss? I just had a couple of questions and wanted to get your opinion on some things.

MW-17: Closest monitoring well but no data exists online and Chevron was not willing to share any data with us.
MW-11: Closest monitoring well with water quality data from AP-56. However this data shows extremely high values and may be an outlier. The report (see attached map "AP-56") shows that MW-11 appears to be outside of the proposed contamination plume but doesn't ever discuss why this well has such high TDS/chloride.
MW-3: This well probably shows the best data of what the groundwater would look like if it wasn't affected by anything. As you can see from the supporting attachment ("AP-56") it is upgradient from the proposed contamination plume.
MW-1: Chloride data from this well was from 1RP-3690. However, this data may be abnormally high from the spill (see attached supporting map "1RP-3690"). But, this is the most recent data I was able to find (2016).

Thanks,

--
Cory Walk
Natural Resources Specialist/Geologist
Permits West
37 Verano Loop
Santa Fe, NM 87508

Office: 505-466-8120
Mobile: 760-445-4409

Basic Energy Services L.P.

Eunice Brine Well #1
Water Quality Search Map

630' FSL & 2427' FEL
Sec. 34, Township 21S, Range 37E
Lea County, New Mexico

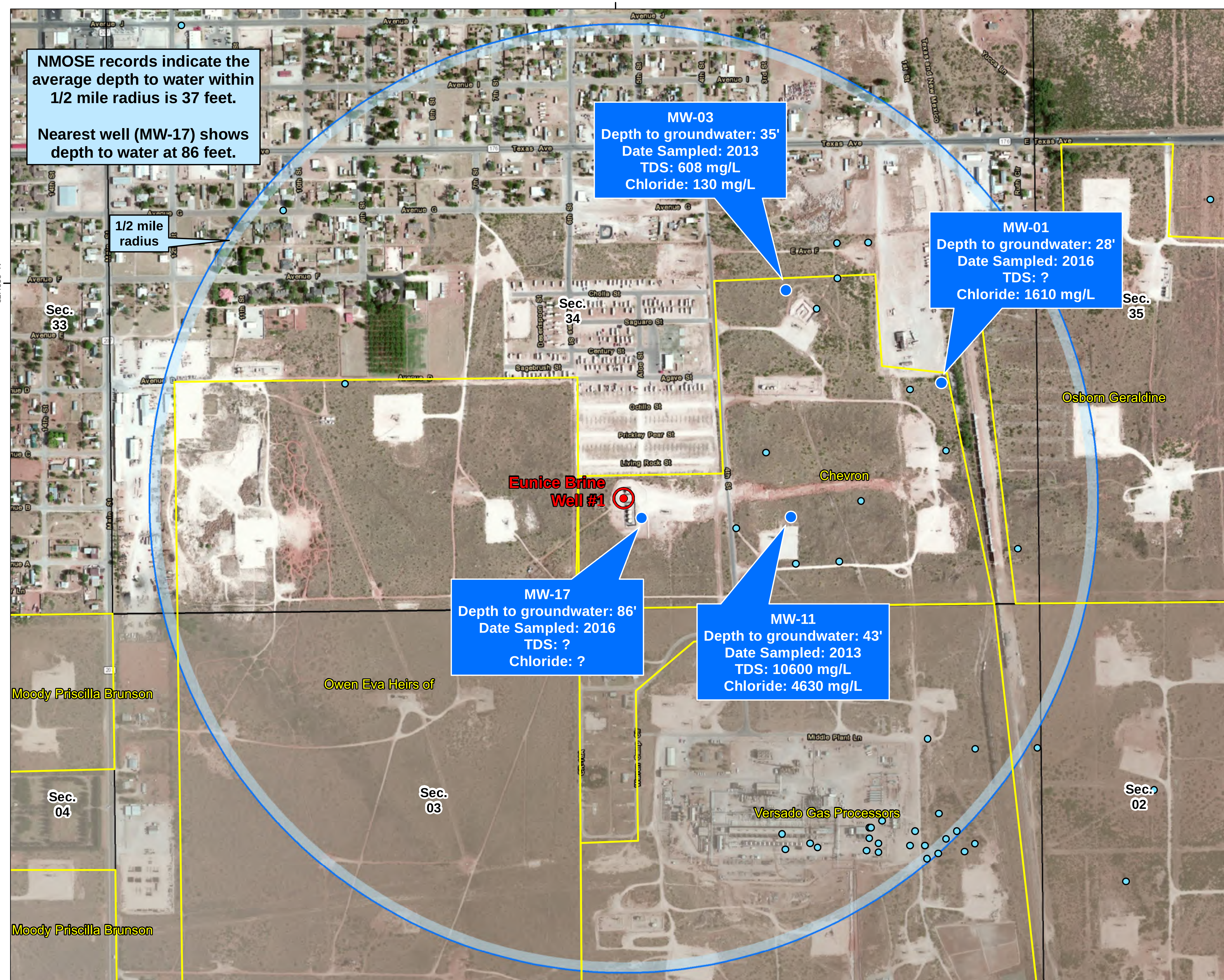
Eunice Brine Well #1
Monitoring Wells with Water Quality Data
NMOSE Water Wells
Private Surface Owners

1:6,500

0 0.1 0.2
Miles

NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

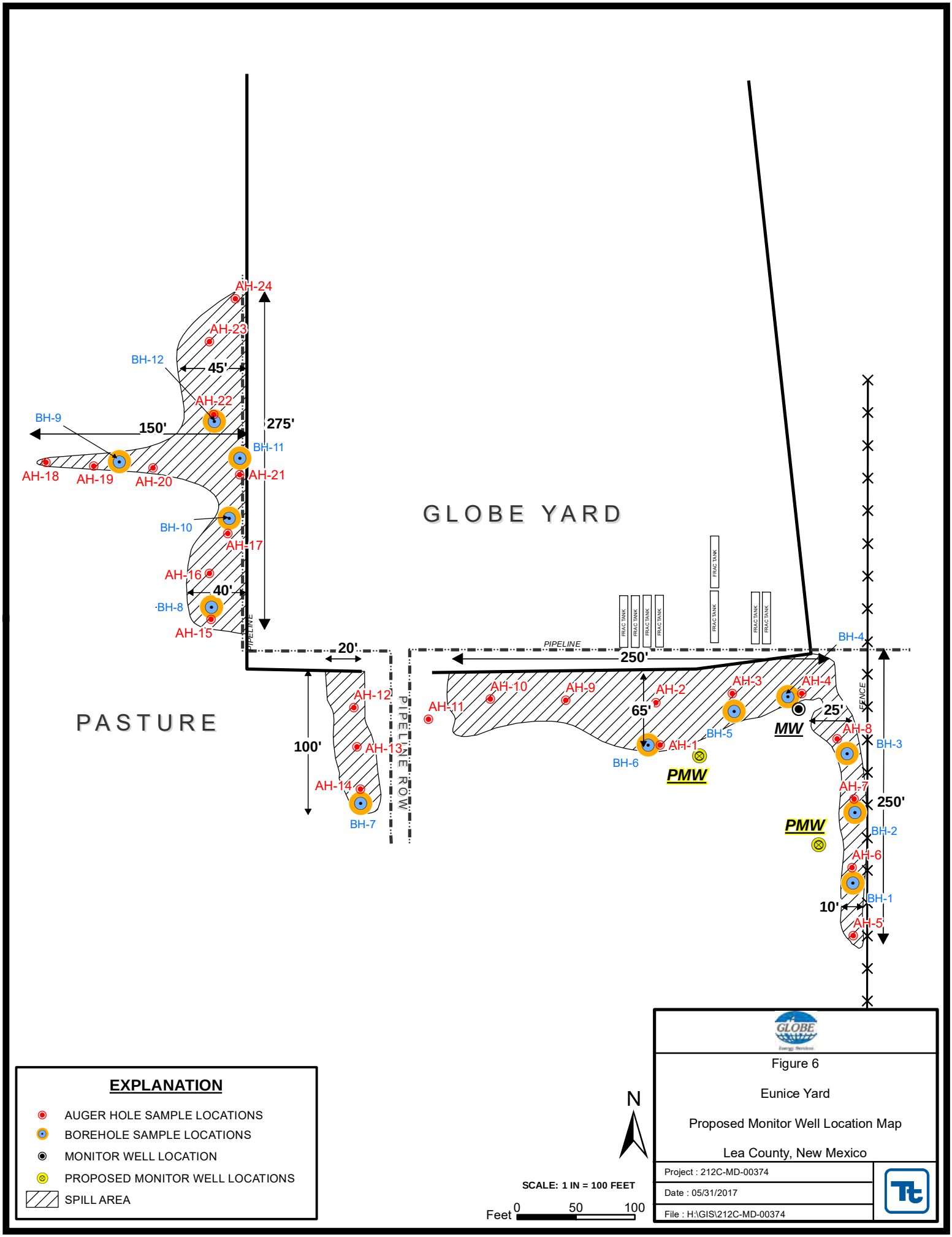
Prepared by Permits West, Inc., May 28, 2020
for Basic Energy Services L.P.



NMOSE records indicate the average depth to water within 1/2 mile radius is 37 feet.
Nearest well (MW-17) shows depth to water at 86 feet.
1/2 mile radius
MW-03
Depth to groundwater: 35'
Date Sampled: 2013
TDS: 608 mg/L
Chloride: 130 mg/L
MW-01
Depth to groundwater: 28'
Date Sampled: 2016
TDS: ?
Chloride: 1610 mg/L
MW-17
Depth to groundwater: 86'
Date Sampled: 2016
TDS: ?
Chloride: ?
MW-11
Depth to groundwater: 43'
Date Sampled: 2013
TDS: 10600 mg/L
Chloride: 4630 mg/L
Eunice Brine Well #1
Chevron
Osborn Geraldine
Owen Eva Heirs of
Moody Priscilla Brunson
Versado Gas Processors
Sec. 33
Sec. 34
Sec. 35
Sec. 04
Sec. 03
Sec. 02
103.15° W
32.4333° N

Figure 19

NOVEMBER 2013 TOTAL DISSOLVED SOLIDS CONCENTRATION MAP
MARK OWEN #9 RESERVE PIT
NW/4 OF SE/4 SECTION 34; T-21-S, R-37-E LEA CO., NM
Chevron Environmental Management Company



EXPLANATION

- AUGER HOLE SAMPLE LOCATIONS
- BOREHOLE SAMPLE LOCATIONS
- MONITOR WELL LOCATION
- PROPOSED MONITOR WELL LOCATIONS
- SPILL AREA

Figure 6

Eunice Yard

Proposed Monitor Well Location Map

Lea County, New Mexico

Project : 212C-MD-00374	
Date : 05/31/2017	
File : H:\GIS\212C-MD-00374	

Mapped By: Isabel Marmolejo

From:	Cory Walk
To:	Chavez, Carl J, EMNRD
Cc:	Hull, Jason; Pritchett, Gary; Griswold, Jim, EMNRD; Wade, Gabriel, EMNRD; Ames, Eric, EMNRD
Subject:	[EXT] Re: BW-2 Eunice Brine Well No. 1 (API# 30-025-26884: OCD Letter of December 26, 2019: Responses to Operator Questions, Comments, and Clarification on Deadline Requirements
Date:	Tuesday, February 25, 2020 3:30:57 PM
Attachments:	Eunice Brine 001 Public Notice Plan 022520.pdf Eunice Brine 001 Closure and P&A Plan.pdf Eunice Brine 001 Discharge Plan Application Pack 022520.pdf

---

Good Afternoon Carl,
Please see the following responses in red to NMOCDs previous requests as well as documents attached to this email.

1. Basic shall submit the Closure Plan to OCD by February 25, 2020; See attached closure plan and P&A plan.
2. Basic shall submit the "New" WQCC UIC Class III Brine Well Application to OCD by February 25, 2020; A new application was submitted online along with the application fee. Please see a copy of the application attached here along with Basic's proposed public notice plan (also included in section XIII of the submitted C108).
3. Basic shall no later than February 25, 2020, unless stated otherwise, submit the following:
    a. Condition 2.A.1 and 2.H.3: Submit schedule to install Monitor Well or an Agreement with Chevron to allow Basic to sample the Chevron Groundwater Monitoring Well (OSE: CP-01358-POD7) installed a 95ft deep on the pad approximately 150ft southeast of the brine well; Basic still has not been able to receive permission from Chevron to sample their monitoring well nor has Chevron given permission for Basic to install their own monitoring well. Basic Energy has hired an attorney and are still in the process of receiving some sort of permission or agreement from Chevron. But without this, there is nothing Basic can do unless NMOCD has any other suggestions. Once Basic receives permission, an application will be submitted to NMOSE. Immediately upon approval from NMOSE, Basic will install the monitor well, collect/analyze samples, and submit them to NMOCD.
    b. Condition 2.B.1: Plan was submitted to OCD on January 31, 2020 and OCD is currently reviewing it separately; Basic Energy received NMOCDs comments and will submit their response to NMOCD by the April 13th deadline.
    c. Condition 2.B.2 and 5.D: Program was submitted to OCD on January 31, 2020 and OCD is currently reviewing it separately; Basic Energy received NMOCDs comments and will submit their response to NMOCD by the March 14th deadline.

Thank you,

On Mon, Feb 10, 2020 at 12:43 PM Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us> wrote:

> Mr. Walk, et al.:
>
> The New Mexico Oil Conservation Division (OCD) is in receipt of Basic Energy Services,

LLC's (Basic) e-mail communications of January 13th and 31st below (see comments below) pertaining to the OCD letter of December 26, 2019. In addition, OCD expands with required deadline dates for deliverables based on the OCD letter.

A. OCD's current requirements based on questions and submittals by Basic to the OCD letter of December 26, 2019 are:

1. Basic shall submit the Closure Plan to OCD by February 25, 2020;
2. Basic shall submit the "New" WQCC UIC Class III Brine Well Application to OCD by February 25, 2020;
3. Basic shall no later than February 25, 2020, unless stated otherwise, submit the following:
    a. Condition 2.A.1 and 2.H.3: Submit schedule to install Monitor Well or an Agreement with Chevron to allow Basic to sample the Chevron Groundwater Monitoring Well (OSE: CP-01358-POD7) installed a 95ft deep on the pad approximately 150ft southeast of the brine well;
    b. Condition 2.B.1: Plan was submitted to OCD on January 31, 2020 and OCD is currently reviewing it separately;
    c. Condition 2.B.2 and 5.D: Program was submitted to OCD on January 31, 2020 and OCD is currently reviewing it separately;

B. OCD response comments on the January 13, 2020 e-mail from Basic (see communication provided below) are:

1. OCD requires the Closure Plan as stated above.
2. OCD requires a "New" WQCC UIC Class III Brine Well Application for an OCD Discharge Permit as stated above.

C. OCD response comments on the January 31, 2020 e-mail with attached "Annual Class III Well Report dated January 23, 2020" from Basic (see communication provided below) are:

1. See A.3.b and A.3.c above.
2. Basic is liable for not reporting on Conditions 2.A; 2.B.3; 3.F; 2.J and 5.A. Furthermore, it appears Basic can't comply as this point in time.

OCD Conclusions:

1. If Basic can comply with A.2 and A.3.a above, OCD may extend the deadline for A.1 if Basic feels it needs more time to comply.
2. OCD is currently reviewing the “Annual Class III Well Report dated January 23, 2020” for compliance with the OCD letter of December 26, 2019 and/or responses based on the submittal.
3. Basic shall not operate the well without a valid permit issued by the OCD.

Please contact me to discuss the OCD December 26, 2019 letter with requirements and deadline clarifications for operator responses.

Thank you.

****

From: Cory Walk

To: Chavez, Carl J, EMNRD; Hull, Jason; Pritchett, Gary

Subject: [EXT] BW-002 Eunice Brine Well Compliance

Date: Friday, January 31, 2020 5:20:18 PM

Attachments: ANNUAL BRINE WELL REPORT JAN 2020.pdf

Good Afternoon Carl,

Attached you will find an annual report for 2018-2019. This report addresses all sections and subsections in which Basic Energy has failed to comply in regards to the Eunice Brine Well (BW-002). Please accept this report for record and let me know if you have any questions.

Thank you,

--

Cory Walk

Natural Resources Specialist/Geologist

Permits West 37
Verano Loop

Santa Fe, NM

87508 Office: 505-

466-8120

Mobile: 760-445-4409

****

From: Cory Walk <cory@permitswest.com>

Sent: Monday, January 13, 2020 9:33 AM

To: Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us>; Hull, Jason

<jason.hull@basicenergyservices.com>

Subject: [EXT] BW-002 Eunice Brine

Good Morning Carl,

I understand that NMOCD has requested Basic Energy Services to submit a closure plan and a plugging and abandonment plan for their Eunice Brine well (BW-002). Basic is still intending on permitting this well and have been making the necessary steps to comply with previous orders. Subsidence surveys have been completed, they have been gathering documents and working on annual reports, etc. They are currently hung up on getting a monitoring well installed. As this is land owned by Chevron, Basic has been struggling to get an agreement from Chevron to allow them to drill a monitoring well.

As Basic does not desire to presently plug and abandon this well, does the OCD still require the submittal of these plans? Or can Basic proceed in gathering the necessary documents for compliance and submit them ASAP, along with a renewal application? Please advise.

Thank you,

--

Cory Walk

Mr. Carl J. Chavez, CHMM (#13099)

New Mexico Oil Conservation Division

Energy Minerals and Natural Resources Department

1220 South St Francis Drive

Santa Fe, New Mexico 87505

Ph. (505) 476-3490

E-mail: CarlJ.Chavez@state.nm.us

“Why not prevent pollution, minimize waste to reduce operating costs, reuse or recycle, and move forward with the rest of the Nation?” (To see how, go to:

> http://www.emnrd.state.nm.us/OCD **and see "Publications")**

--
Cory Walk
Natural Resources Specialist/Geologist
Permits West
37 Verano Loop
Santa Fe, NM 87508

Office: 505-466-8120
Mobile: 760-445-4409

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Geological & Engineering Bureau –
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: Basic Energy Services, L.P. **OGRID Number:** 246368
Well Name: Eunice Brine #001 **API:** 30-025-26884
Pool: BSW; Salado **Pool Code:** 96173

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) **TYPE OF APPLICATION:** Check those which apply for [A]
A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]
[I] Commingling – Storage – Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
Other: Brine Well

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
A. ☐ Offset operators or lease holders
B. ☐ Royalty, overriding royalty owners, revenue owners
C. ☒ Application requires published notice
D. ☐ Notification and/or concurrent approval by SLO
E. ☐ Notification and/or concurrent approval by BLM
F. ☒ Surface owner
G. ☐ For all of the above, proof of notification or publication is attached, and/or,
H. ☐ No notice required

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Cory Walk
Print or Type Name

Cory Walk
Signature

2/25/2020
Date

505-466-8120
Phone Number

cory@permitswest.com
e-mail Address

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised August 1, 2011

Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITES

(Refer to the OCD Guidelines for assistance in completing the application)

☒ New ☐ Renewal

I. Facility Name: Eunice Brine #001

II. Operator: Basic Energy Services L.P.

Address: 801 Cherry, Suite 2100, Fort Worth Texas 76102

Contact Person: Gary Pritchett Phone: (432) 571-8159
Cory Walk (agent w/ Permits West Inc.) Phone: (505) 466-8120

III. Location: SW /4 SE /4 Section 34 Township 21S Range 37E
Submit large scale topographic map showing exact location.
Please see exhibit III

IV. Attach the name and address of the landowner of the facility site.

Chevron USA Inc.
PO Box 285
Houston Texas 77001
See Exhibit IV for Lea County Tax Assessor Records

V. Attach a description of the types and quantities of fluids at the facility.

Fresh water and 10# brine is used and stored at the facility.

Please see Exhibit V for 2018-present amounts of fresh interring, brine extraction amounts, PSI, and ratio of fresh to brine.

VI. Attach a description of all fluid transfer and storage and fluid and solid disposal facilities.

The Eunice Brine facility transfers fresh water from the City of Eunice water line into a fiberglass 1000 bbl tank where it is stored. A lateral pump takes the water from the storage tank and transfers the fresh water down the tubing allowing it to brine with the Salado formation in Marker bed 9. 10# Brine water comes up the casing where it is metered and stored in the facility battery. The total capacity at the facility for brine is 4000 bbls. Four (4) 1000 bbl tanks are used for storage. Please see Exhibit VI for a schematic of the facility.

VII. Attach a description of underground facilities (i.e. brine extraction well).

The only underground facility is the brine extraction well and its associated piping construction. Please see Exhibit VII for a well bore schematic of the brine extraction well and the following C108 application for a detailed description of the well construction.

VIII. Attach a contingency plan for reporting and clean-up of spills or releases.

Contingency Plan:
Basic Energy Services L.P. has implemented an integrated system that monitors levels within the storage vessels by using GWR (guided wire radar) system and Sonar guided within the freshwater tanks. This system will shut down the pump if levels that are set hit critical. They send an alarm via satellite and received by telephone. The operation will then be looked at and once all systems are clear operations will reset computer back in operation. Unloading pads were placed where Brine is sold with actuation valves that are opened once a security number is activated at the systems PLC. Flow meters were not installed on the sales line. All brine water sold is recorded by the driver at the PLC with an access code number and a ticket is filled out. This allows the party buying the Brine to enter the exact amount of barrels to be bought. This will minimize human failure from occurring while loading. The facility has a berm around the tanks and is lined with a 20 mil liner which will contain 110% of total fluid stored at the facility. Also, the location has a berm to secure any failure.

Release Reporting:
Basic Energy Services L.P. will report unauthorized releases of water contaminants in accordance with any additional commitments made in its approved Contingency Plan that may exceed the standard specified at 20.6.2.3103 NMAC. The OCD's Environmental Bureau will then be notified with a report.

Oral Notifications:
Basic Energy Services L.P. will notify the OCD's Environmental Bureau and provide them with the name, address, and telephone number of the person in charge of the facility, and the owner of the facility including the name and location, date, time, and the duration of the discharge. The source and cause of the discharge, description of the discharge, including its chemical composition, with the estimated volume of the discharge and any corrective or abatement action taken to mitigate immediate damage from the discharge will be provided to the OCD Environmental Bureau.

Written Notification:
Basic Energy Services will send written notice on form C-141 with all attachments within one week of a discharge to OCD's Environmental Bureau verifying prior oral notification.

SPCC/Guidelines for Remediation:
Basic Energy Services L.P. will use the SPCC plan & oil/saltwater contingency plan and the guidelines for remediation of leaks, spills and releases. Basic Energy will hand a copy on request.

IX. Attach geological/hydrological evidence demonstrating that brine extraction operations will not adversely impact fresh water.

Three principal unconfined aquifers are used for potable groundwater in Lea County; these geologic units include the Triassic Santa Rosa formation, Tertiary Ogallala formation, and Quaternary alluvium. Nicholson and Clebsch (1961) state, "Potable ground water is not available below the Permian and Triassic unconformity but, because this boundary is not easily defined, the top of the Rustler anhydrite formation is regarded as the effective lower limit of 'potable' ground water." In the Eunice area, the Dewey Lake red beds lie atop the Permian Rustler Formation (See Exhibit IXa and IXb). These red beds are relatively impermeable and prevent the vertical movement of groundwater between the freshwater aquifer above and the Salado Formation below. NMOSE records of water wells within a 1-mile radius of the Eunice Brine #001 well indicate an average depth to water of 43 feet with a minimum depth of 27 feet and a maximum depth of 100 feet.

The Quaternary Alluvium and Tertiary Ogallala Formation, in which fresh water is present, are primarily unconsolidated sand, silt, clay and gravel. The underlying Dewey Lake Formation consists of red siltstone, clay and shale and has a thickness of approximately 200' in this area. Below the Dewey Lake Formation is the Permian Rustler Formation which is primarily evaporites (anhydrite/gypsum) with some thin beds of dolomite, sandstone, shale, and siltstone. Based on the 2014 well completion report the top anhydrite was reported at 668' and the top salt was reported at 1235' giving a Rustler Formation thickness of approximately 567'. The Salado Formation is primarily halite (salt) and is approximately 1200' thick in this area. The Salado Formation is the primary injection zone in which fresh water will be injected and brine water will be produced and extracted.

The combined Rustler Formation (567') and Dewey Lake Formation (200') gives over 750' of relatively impermeable strata acting as a barrier and preventing the introduction of brine water from the Salado Formation into the near surface freshwater aquifer system. Enough casing and cementing through all strata and 200+ feet into the Salado Formation gives

further evidence that the brine extraction operations will not adversely impact fresh water. Please see the attached exhibits IXc and IXd for a cement bond log and mechanical integrity test performed within the Eunice Brine #001 well (both of which are already on NMOCD online records).

X. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

Basic Energy Services L.P. has made efforts to comply with all compliance reviews issued by NMOCD. Please refer to the Annual Report submitted to NMOCD on 1/31/2020 for discussions of compliance. Basic Energy is also currently working on a response to NMOCD comments issued 2/13/2020.

XI. CERTIFICATION:

I hereby certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Name: Cory Walk Title: Consultant

Signature: Cory Walk Date: February 24, 2020

E-mail Address: cory@permitswest.com

Basic Energy Services L.P.

Eunice Brine Well #1
Topographic Map

630' FSL & 2427' FEL
Sec. 34, Township 21S, Range 37E
Lea County, New Mexico

Eunice Brine Well #1

1:12,000

0 0.2 0.4
Miles

N

NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS

Prepared by Permits West, Inc., December 4, 2018
for Basic Energy Services L.P.

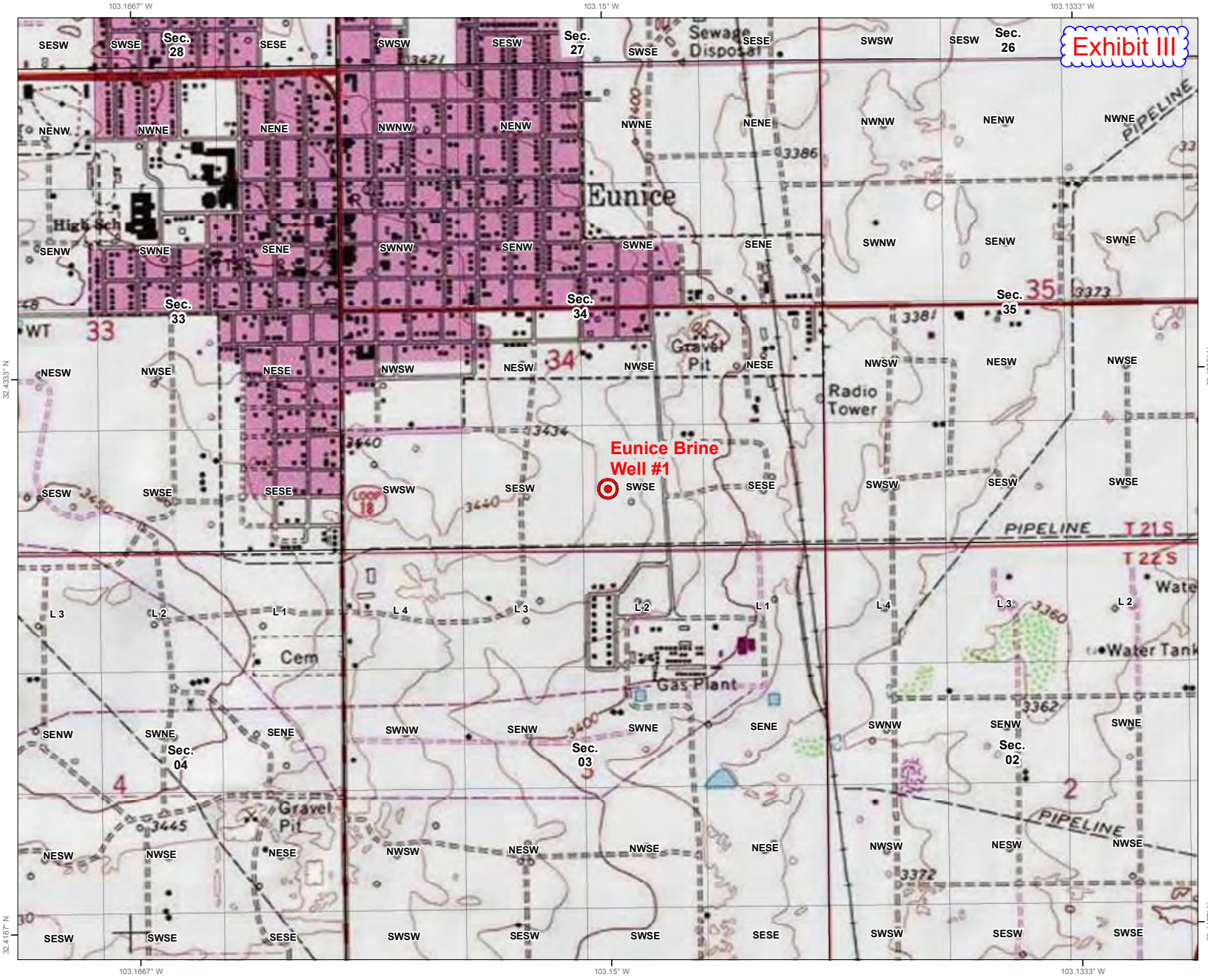


Exhibit IV

Lea County

GIS INTERNET REPORT

Assessment Information

OWNER NUMBER: 50207

PARCEL NUMBER: 4000502160001

UPC CODE: 4000502160001

Owner Information	
Owner:	CHEVRON U S A INC
Mailing Address:	PO BOX 285 HOUSTON TX 77001
Property Address:	

Subdivision Information	
Name:	
Unit:	
Block	
Lot:	

Legal Information
66.09 AC LOC SE4

Lea County

GIS INTERNET REPORT

Other Information			
Taxable Value:	$117,439.00	**Deed Book:**	1654
Exempt Value:	$0.00	**Deed Page:**	187
Net Value	$117,439.00	**District:**	080
Livestock Value:	$0.00	**Section:**	34
Manufactured Home Value:	$0.00	**Township:**	21
Personal Property:	$0.00	**Range:**	37
Land Value:	$352,317.00	**Date Filed:**	
Improvement Value:	$0.00	**Most Current Tax:**	$3,807.45
Full Value:	$352,317.00	**Year Recorded:**	2009

Square Foot and Year Built listed only to be used for comparative purposes, NOT to be used for commerce.

Exhibit V

Basic Energy Services L.P.
Eunice Brine 001
Totals of Brine and Fresh Water
2018-2019

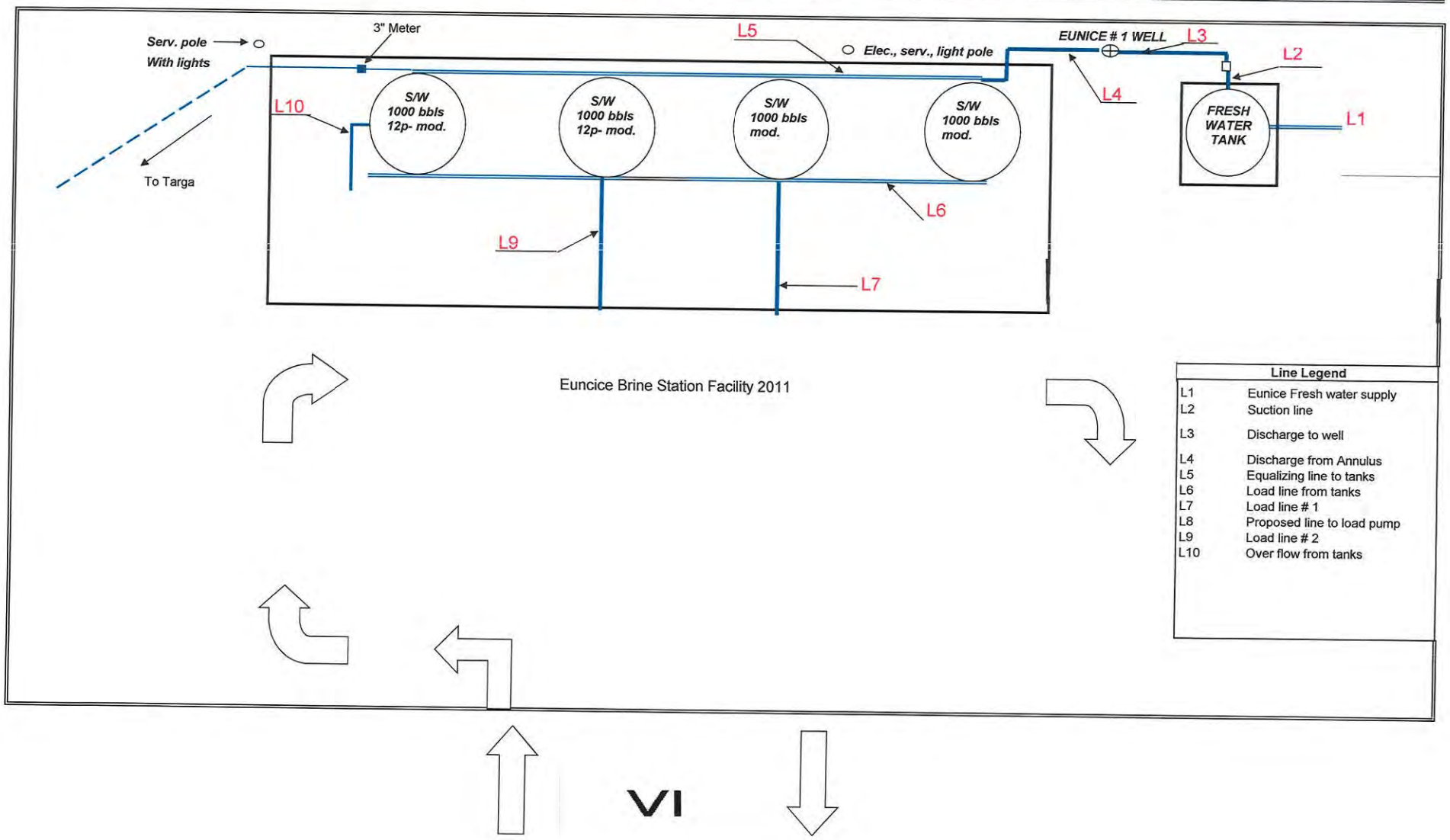
Lease		BES Asset #	API		FOOTAGE		UNIT	SEC	TOWNSHIP	RANGE		County
Eunice Brine #1		18476	30-025-26884		630 FSL	2427 FEL	O	34	21S	37E		LEA
BES			Brine	400	Max PSI		Fresh		Well Monthly capability 81,840 bbl.			
Month	Start	End	Total	PSI	F/W Start	F/W End	Total	% F/w to Brine	Year throughput capability 982,080 Bbl.			
Jan	0	13,917	**13,917**	250	0	21,072	**21,072**	66.0				
Feb	13,917	22,180	**8,263**	250	21,072	33,585	**12,513**	66.0				
Mar	0	6,319	**6,319**	250	0	9,451	**9,451**	66.9	Reset meters to 0 3.1.18			
Apr	6,319	28,216	**21,897**	250	9,451	32,886	**23,435**	93.4	Reset meters to 0 4.30.18			
May	0	20,777	**20,777**	250	0	26,844	**26,844**	77.4				
Jun	20,777	28,755	**7,978**	250	26,844	40,141	**13,297**	60.0				
July	28,755	40,817	**12,062**	250	40,141	55,627	**15,486**	77.9				
August	40,817	50,664	**9,847**		55,677	67,734	**12,057**	81.7				
Sep	0	17,366	**17,366**		0	18,780	**18,780**	92.5	New Meter 9.1.18			
Oct	17,366	34,263	**16,897**		18,780	36,872	**18,092**	93.4				
Nov	34,263	56,488	**22,225**		36,872	59,534	**22,662**	98.1				
Dec	0	12,472	**12,472**		0	12,712	**12,712**	98.1	Reset meters to 0			
Year total			**170,020**				**206,401**	82.4				
					ENDING TOTAL FOR 2018							

Lease		BES Asset #	API		FOOTAGE		UNIT	SEC	TOWNSHIP	RANGE		County
Eunice Brine #1		18476	30-025-26884		630 FSL	2427 FEL	O	34	21S	37E		LEA
BES			Brine	400	Max PSI		Fresh		Well Monthly capability 81,840 bbl.			
Month	Start	End	Total	PSI	F/W Start	F/W End	Total	% F/w to Brine	Year throughput capability 982,080 Bbl.			
Jan	12,472	12,472	**0**	250	12,712	12,712	**0**	N/A	Shut in well 1.11.19			
Feb			**0**				**0**					
Mar			**0**				**0**					
Apr			**0**				**0**					
May			**0**				**0**					
Jun			**0**				**0**					
July			**0**				**0**					
August			**0**				**0**					
Sep			**0**				**0**					
Oct			**0**				**0**					
Nov			**0**				**0**					
Dec			**0**				0					
Year total			**0**				**0**					
					RUNNING TOTALS FOR 2019							

Exhibit VI

BASIC ENERGY SERVICES

EUNICE # 1 SWBS

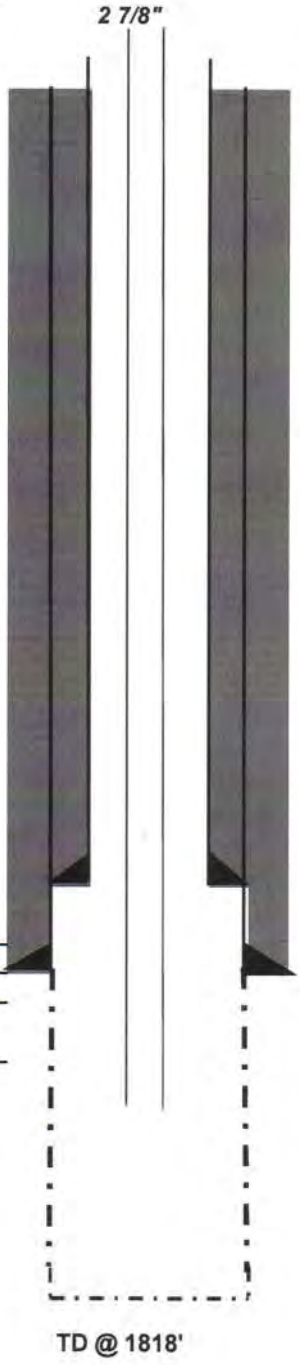


VI

Exhibit VII

CURRENT
1/22/2014

Basic Energy Services LP
Eunice Brine # 001 Bw-002
630' FSL, 2427' FEL, Unit (O), Sec 34, T21S, R37E
API # 30-025-26884



Tree Conection: 2 7/8 J-55 PC TBG.
Production: 2 7/8" J-55 PC TBG
Setting Depth: 1544'

Surface Casing: NONE
Setting Depth @: N/A

Surface Hole
Bit Size: N/A

Interm. Casing: NONE
Setting Depth: NONE

Inter. Hole
Bit Size: N/A

Liner Casing: 5.5 15.5# FJ
102sx "C" 20sx excess cir surf.
Setting Depth: 1375'

Cement Data:

Lead -

Tail -

Note -

Production Csg.: 7" 24# / 20#
700SX CIR. SURF
Setting Depth @: 1450'

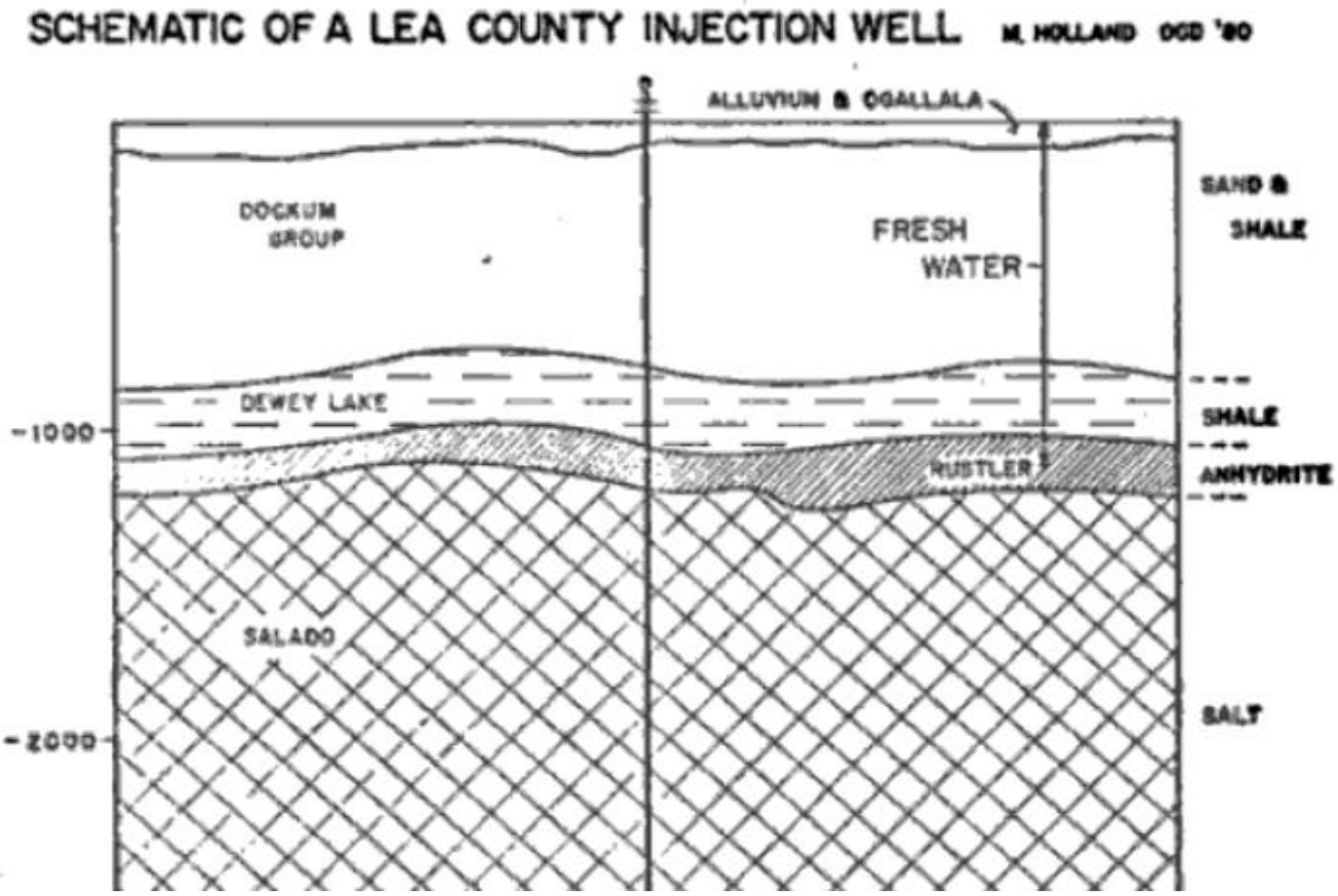
PBTD: NO PBTD

OPEN HOLE: yes

Bit size: 8 3/4"

DEPTH OH: 1800'

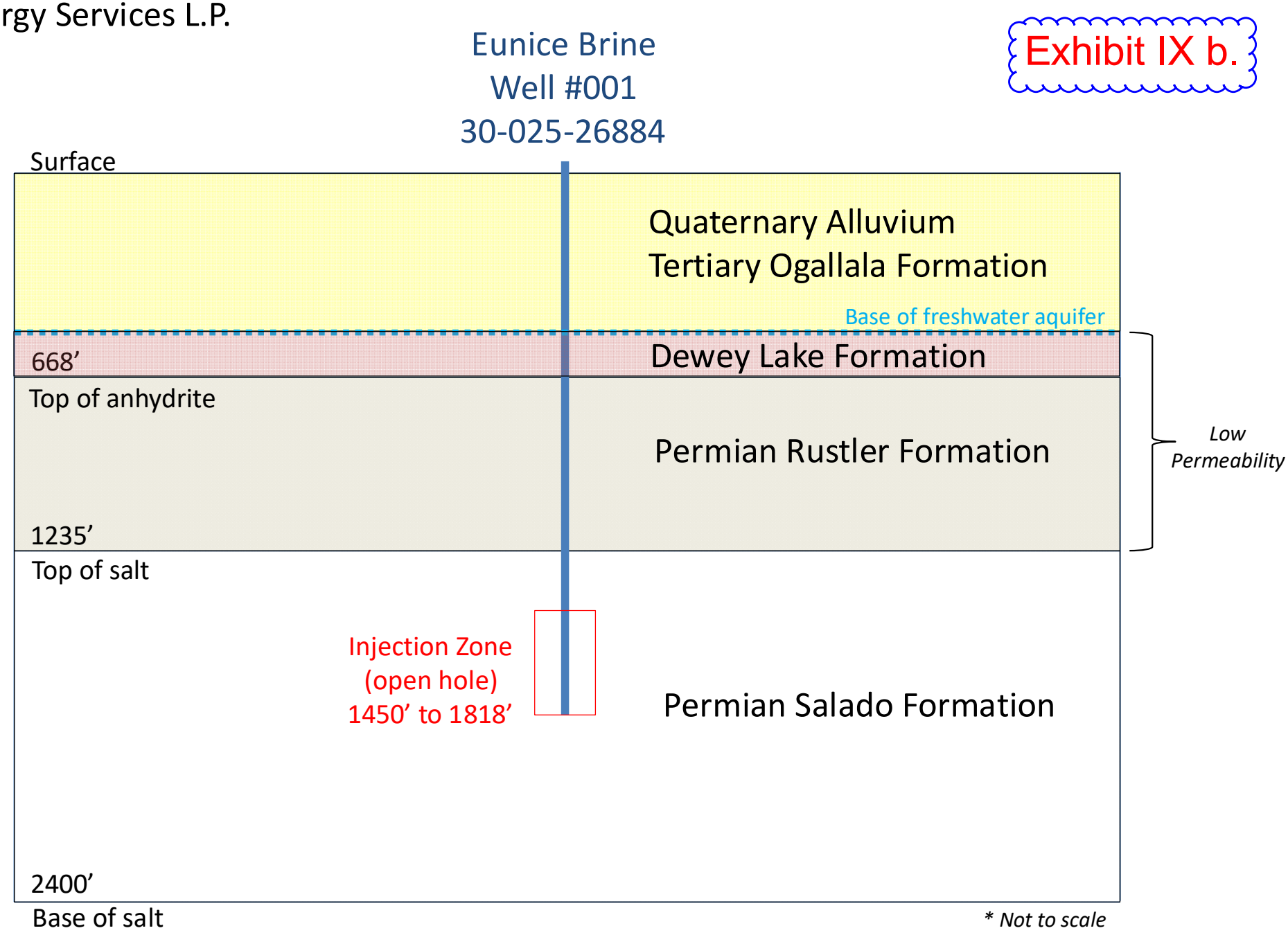
Exhibit IX a.



Quality of Drinking Water--1980, Hearings Before the Subcommittee on Health and the Environment of the Committee on Interstate and Foreign Commerce, House of Representatives, Ninety-sixth Congress, Second Session, on Gathering Information to Help the Subcommittee Get a Better Grasp of Our Drinking Water Problems Across the Nation, June 6, 9, and August 18, 1980 – United States. Congress. House. Committee on Interstate and Foreign Commerce. Subcommittee on Health and the Environment

Basic Energy Services L.P.

Exhibit IX b.



Generalized cross-section based on formation tops from 2014 well completion report.

Exhibit IX c.

GRAY WIRELINE

CEMENT BOND GAMMA RAY CCL/LOG

Company BASIC ENERGY SERVICES,LP
Well EUNICE NO.001
Field
County LEA
State N.MEX

Location: API # : 3002526884
630'FSL&2427FEL
SEC TWP RGE
Permanent Datum G.L. Elevation G.L.
Log Measured From G.L.
Drilling Measured From K.B.

Other Services

Elevation K.B. N/A D.F. G.L.

Date	12-28-2010
Run Number	ONE
Depth Driller	
Depth Logger	1450
Bottom Logged Interval	1447
Top Log Interval	SURF.
Open Hole Size	N/A
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	SURF.
Time Well Ready	0730
Time Logger on Bottom	0800
Equipment Number	12
Location	HOBBS,NM
Recorded By	PAUL ZARAGOZA
Witnessed By	DAVID ALVARADO

Borehole Record

Run Number	Bit	From	To

Tubing Record

	Size	Weight	From	To

	Size	Wgt/Ft	Top	Bottom
Casing Record				
Surface String				
Prot. String				
Production String	7"		SURF.	1464
Liner				

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctn of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations ar also subject to our general terms and conditions set out in our current Price Schedule.

Comments

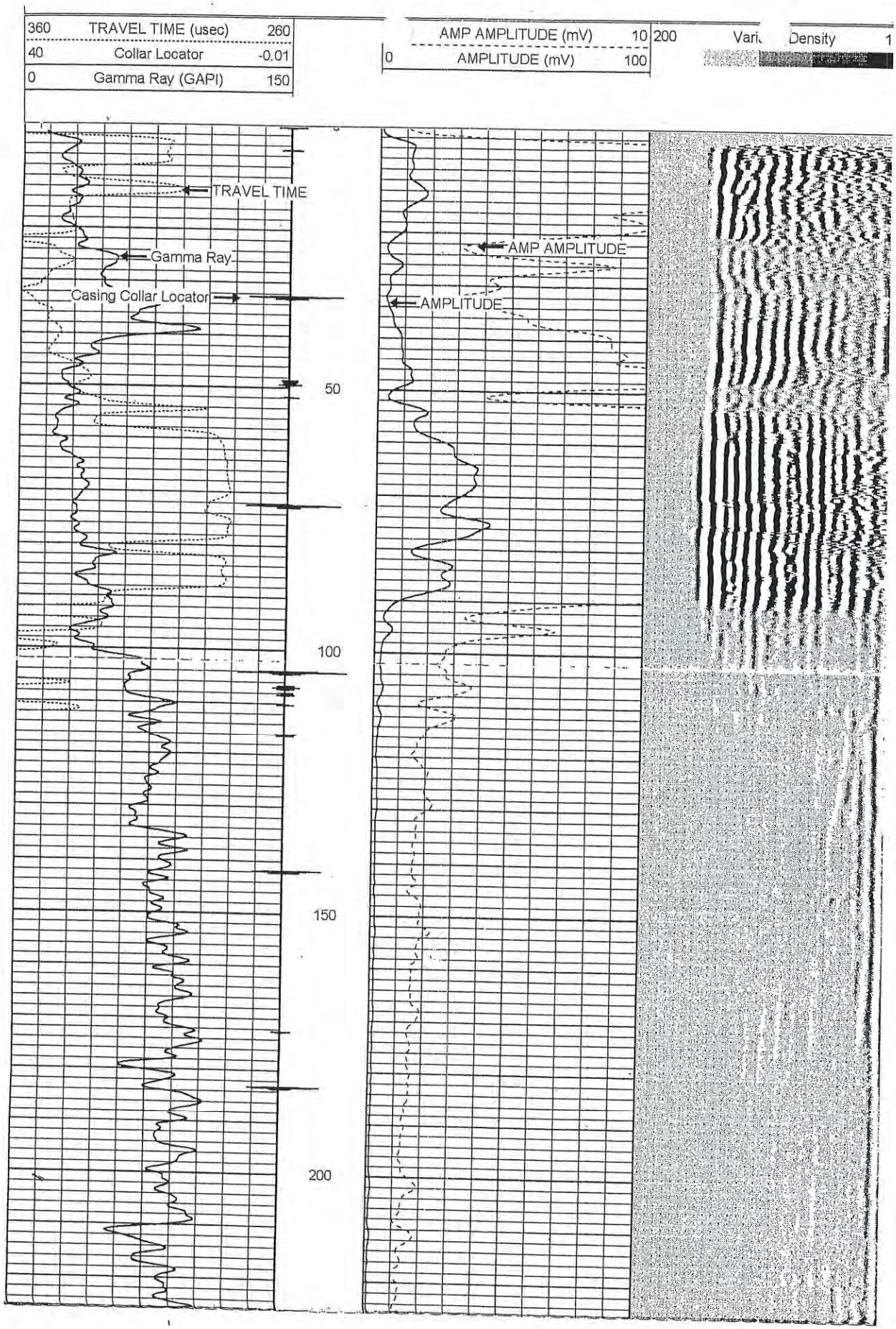
LOG RAN ON WIRELINE DEPTH

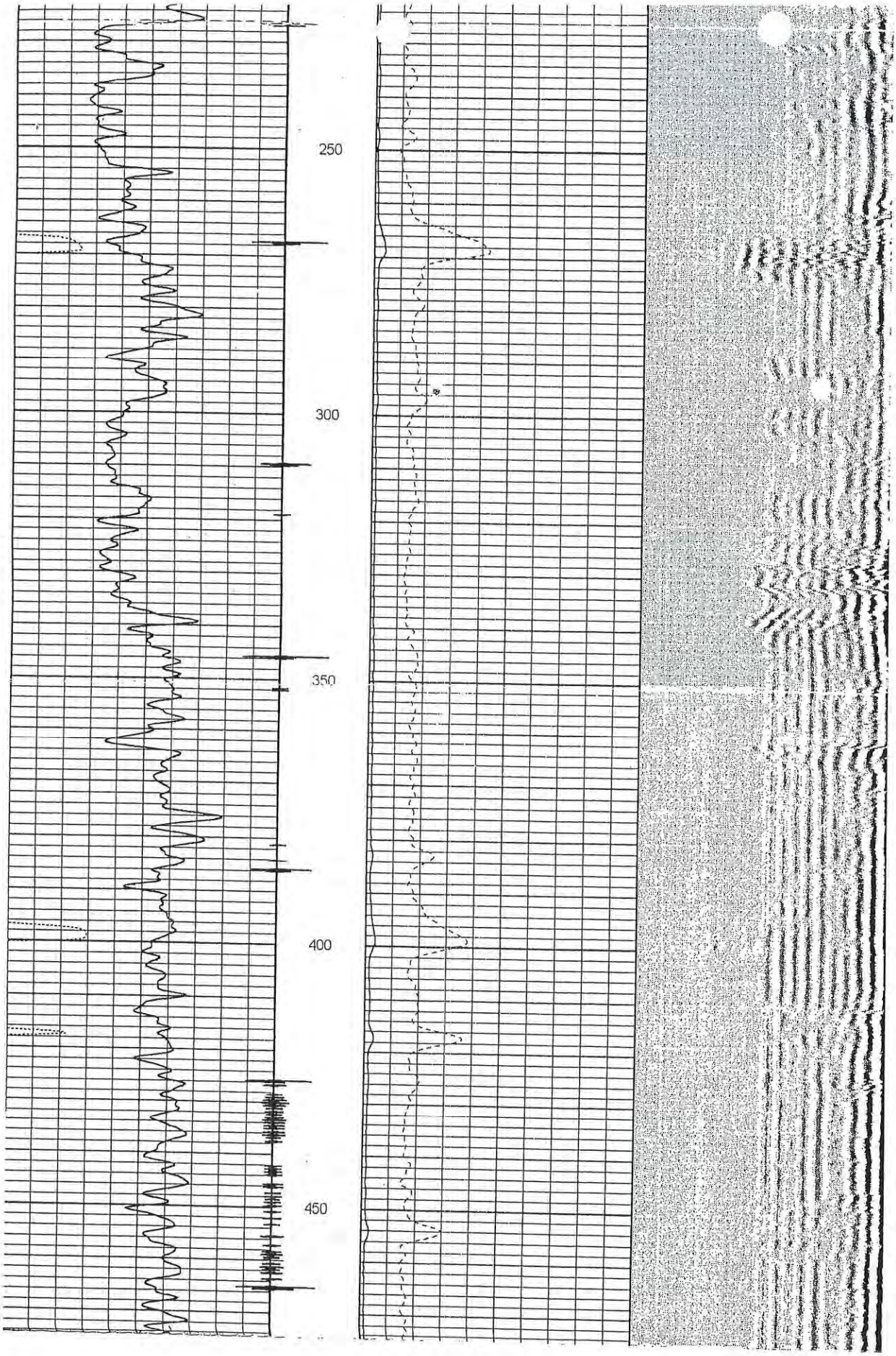
GRAY WIRELINE

MAIN PASS 0 PSI

Database File: basic_energy_eunice_#1.db
Dataset Pathname: pass13
Presentation Format: cbl_drs
Dataset Creation: Tue Dec 28 10:39:24 2010 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240

IX C


360 TRAVEL TIME (usec) 260
40 Collar Locator -0.01
0 Gamma Ray (GAPI) 150
AMP AMPLITUDE (mV) 10
0 AMPLITUDE (mV) 100
200 Vari Density 1
TRAVEL TIME
Gamma Ray
Casing Collar Locator
AMP AMPLITUDE
AMPLITUDE
50
100
150
200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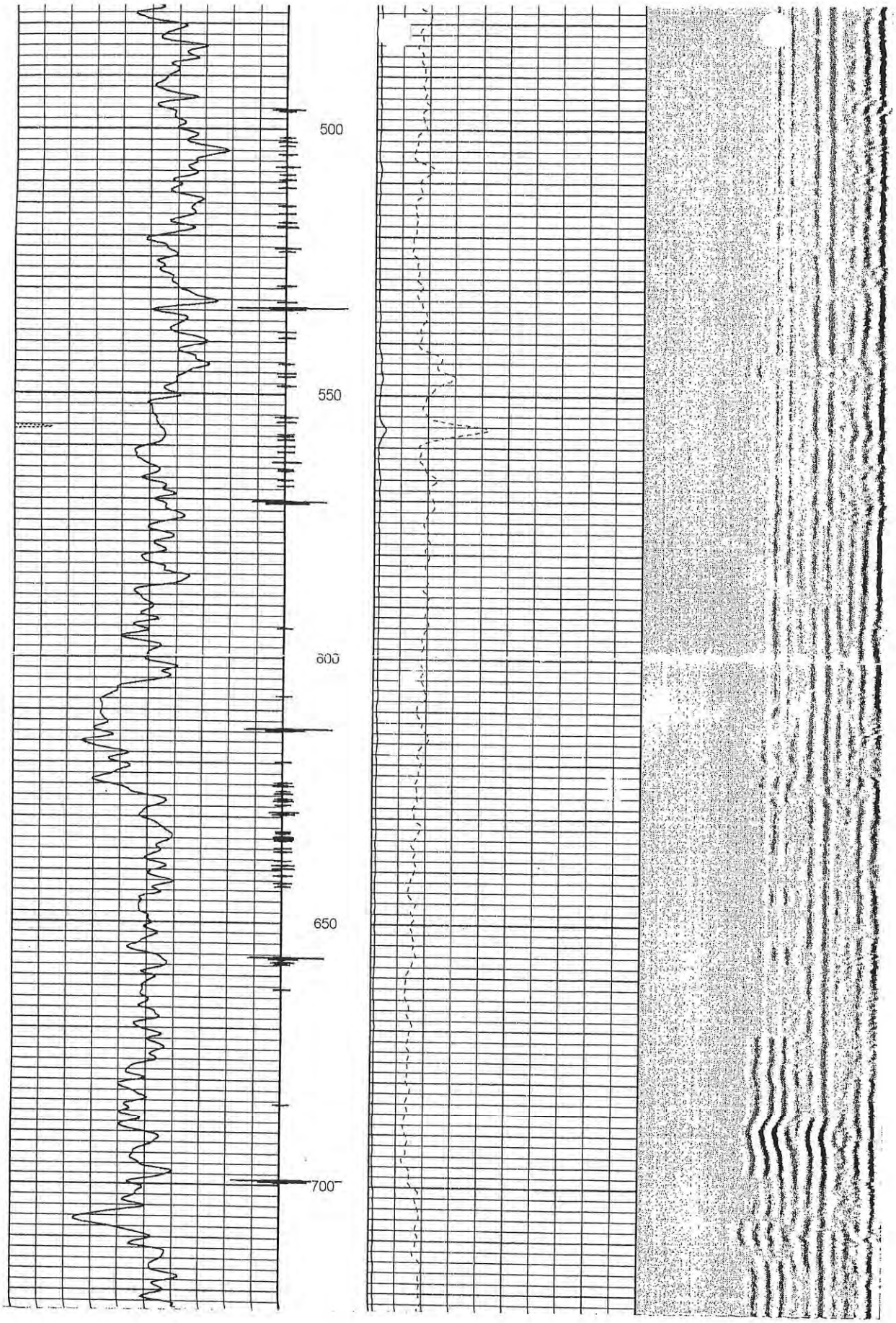
300
350
400
450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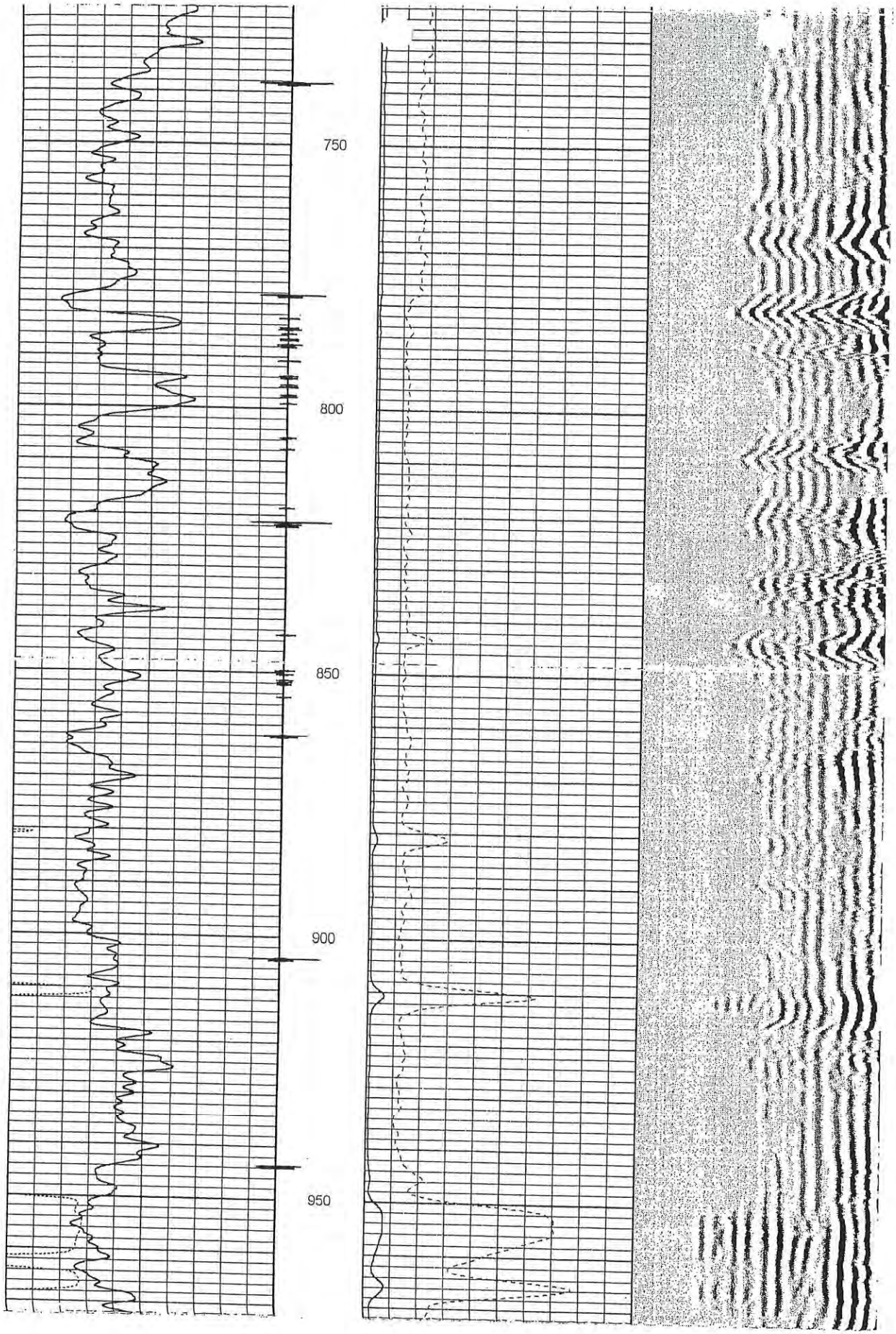
550
600
650
700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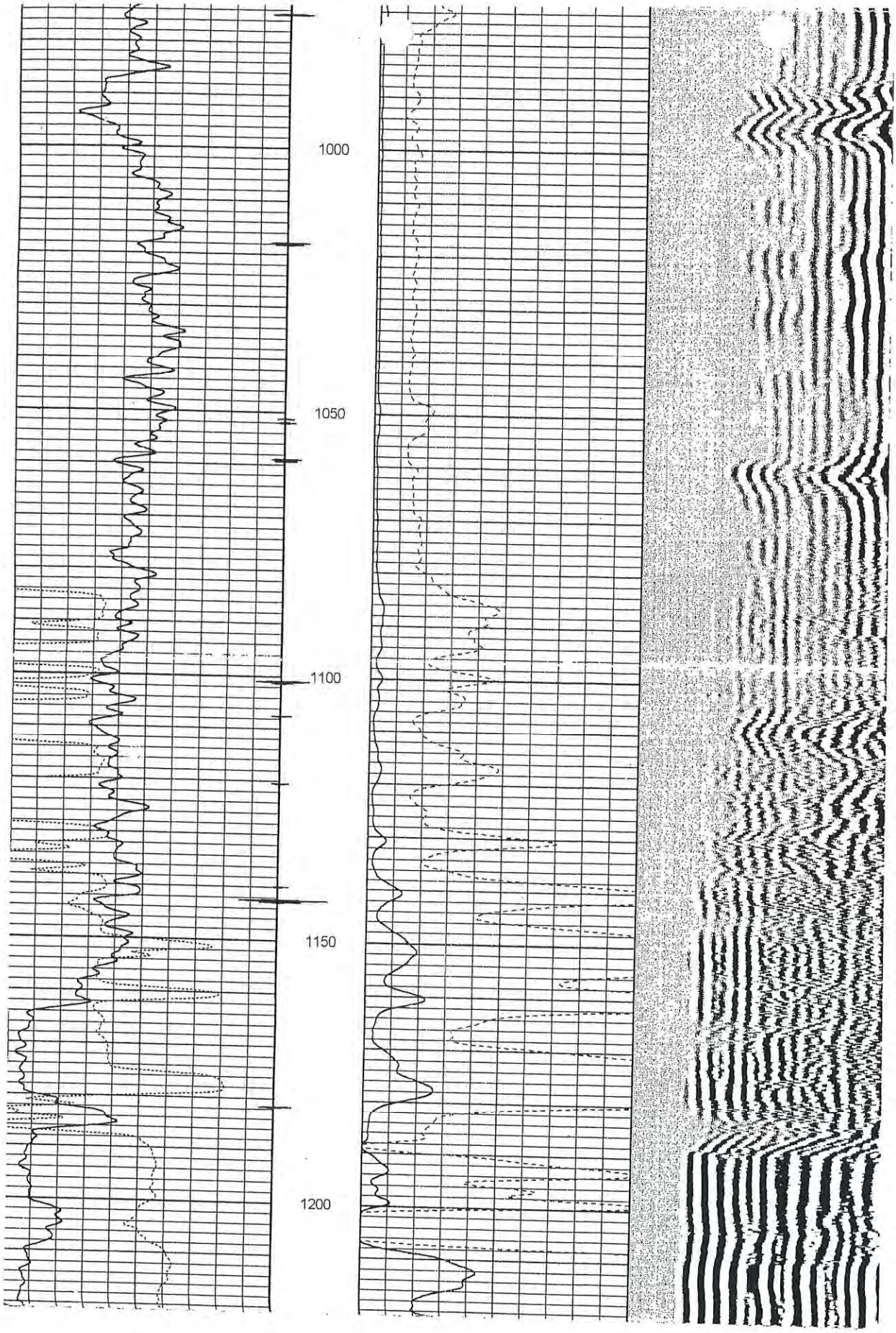
800
850
900
950


1000
1050
1100
1150
1200

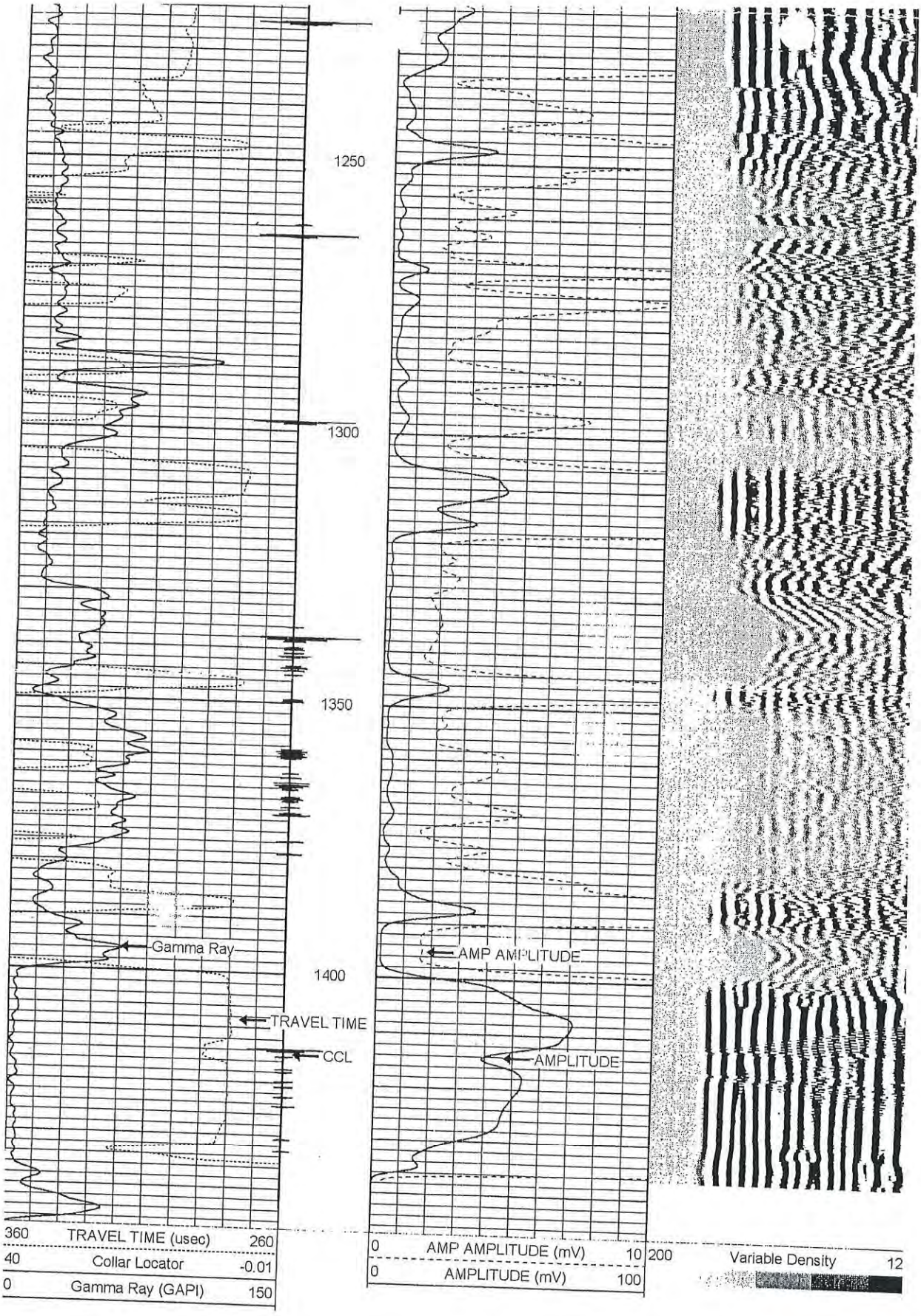

1250
1300
1350
1400
Gamma Ray
TRAVEL TIME
CCL
AMP AMPLITUDE
AMPLITUDE
360 TRAVEL TIME (usec) 260
40 Collar Locator -0.01
0 Gamma Ray (GAPI) 150
0 AMP AMPLITUDE (mV) 10 200
0 AMPLITUDE (mV) 100
Variable Density 12

Exhibit IX d.

Submit 1 Copy To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
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
October 13, 2009

WELL API NO.
30-025-26884

5. Indicate Type of Lease
STATE ☐ FEE xx ■

6. State Oil & Gas Lease No.

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 Brine

7. Lease Name or Unit Agreement Name
Eunice No # 001 BW - 002

8. Well Number
1

2. Name of Operator
BASiC Energy Services L.P.

9. OGRID Number

3. Address of Operator 801 Cherry Street Ft Worth, TX 76102

10. Pool name or Wildcat
Salado

4. Well Location
Unit Letter O : 630 feet from the South line and 2427 feet from the East line
Section 34 Township 21 S Range 37 E NMPM County Lea

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:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
OTHER:	☐			OTHER: Salado Formation Test	■		

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.

Basic Energy Services L.P. has successfully completed the five year MIT requirement.

Please accept our chart with this C-103 of the event that took place on 8/9/16 Starting time at 8:00 am and Finishing at 12:10 pm 8/9/16.

Mark Whitaker was witness to the event.

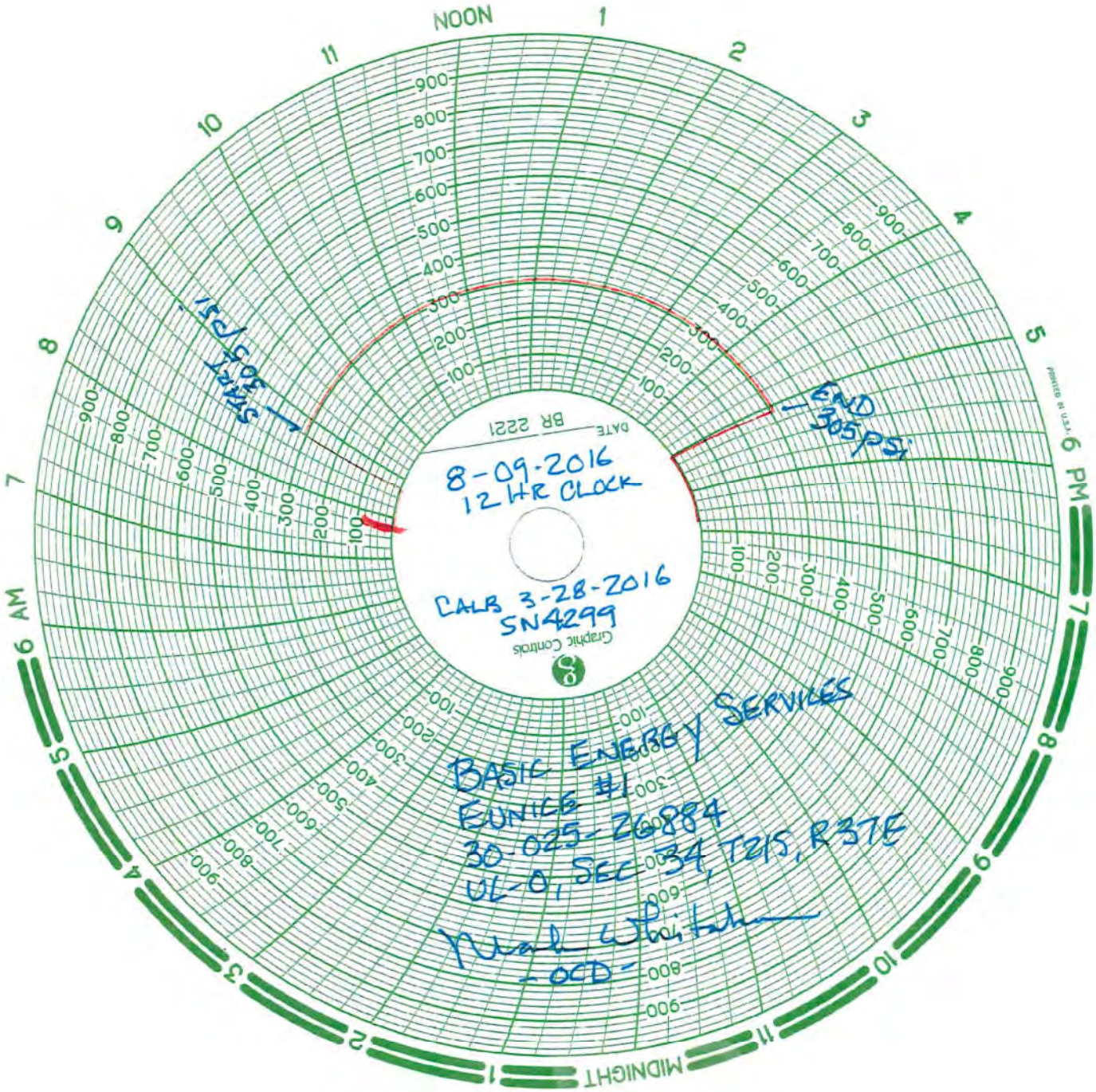
Spud Date: Rig Release Date:

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

SIGNATURE TITLE SENM Fluid Sales MGR. DATE 8/9/14
Type or print name DAVID ALVARADO E-mail address: david.alvarado @basicenergyservices.com PHONE: 575.746 2072

For State Use Only

APPROVED BY: TITLE DATE
Conditions of Approval (if any):


NOON
1
2
3
4
5
6 PM
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8
9
10
11
MIDNIGHT
1
2
3
4
5
6 AM
7
8
9
10
11
100
200
300
400
500
600
700
800
900
DATE
BR 2221
Graphic Controls
8-09-2016
12 HR CLOCK
CALB 3-28-2016
SN4299
START 505 PSI
END 305 PSI
BASIC ENERGY SERVICES
EUNICE #1
30-025-26884
UL-O, SEC-34, T21S, R37E
OCD

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: __X__ Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? __X__ Yes _____ No

II. OPERATOR: Basic Energy Services L.P.

ADDRESS: 801 Cherry Street, Suite 2100 Fort Worth, TX 76102

CONTACT PARTY: Cory Walk (Permits West Inc.) PHONE: (505) 466-8120

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes __X__ No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Cory Walk TITLE: Consultant

SIGNATURE: Cory Walk DATE: 2/24/2020

E-MAIL ADDRESS: cory@permitswest.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Side 1

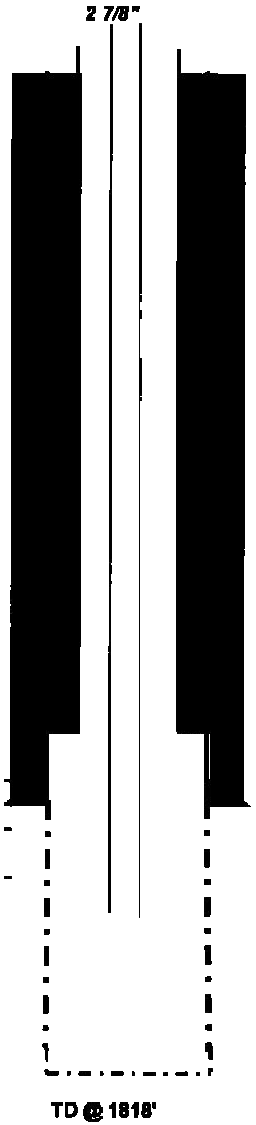
INJECTION WELL DATA SHEET

OPERATOR: Basic Energy Services LP

WELL NAME & NUMBER: Eunice Brine #001

WELL LOCATION:	630 FSL 2427 FEL	O	34	21S	37E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC



Tree Conection: 2 7/8 J-55 PC TBG.

Production: 2 7/8" J-55 PC TBG

Setting Depth: 1544'

Surface Casing: NONE

Setting Depth @: N/A

Interm. Casing: NONE

Setting Depth: NONE

Liner Casing: 5.5 15.5# FJ

102sx "C" 20sx excess cir surf.

Setting Depth: 1375'

Production Csg.: 7" 24# / 20#

700SX CIR. SURF

Setting Depth @: 1450'

PBTD: NO PBTD

OPEN HOLE: yes

DEPTH OH: 1800'

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft^3

Top of Cement: _____ Method Determined: _____

~~Intermediate Casing~~ Liner

Hole Size: 8.75" Casing Size: 5.5"

Cemented with: 102 sx. *or* _____ ft^3

Top of Cement: Surface Method Determined: Visual

Production Casing

Hole Size: 8.75" Casing Size: 7"

Cemented with: 700 sx. *or* _____ ft^3

Top of Cement: Surface Method Determined: Visual

Total Depth: 1,450'

Injection Interval 5.5" Open Hole

1,450' feet to 1,818'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2.875" Lining Material: IPC

Type of Packer: N/A

Packer Setting Depth: N/A

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1. Is this a new well drilled for injection? _____Yes __X__No

   If no, for what purpose was the well originally drilled? This is a "new" application for a previously drilled and already in place brine well.

2. Name of the Injection Formation: Salado

3. Name of Field or Pool (if applicable): BSW; Salado [96173]

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Yates-7Rivers-Queen (~2,400'), Grayburg (~3,700'), San Andres (~4,000'), Paddock (~5,100'), Blinebry (~5,560'), and Tubb (~5,900'). Drinkard (~6,380') produced in the past. No oil or gas zone is above the Salado in the area of review.

I. Goal is to continue to use the 1,818' deep brine supply well. Proposed injection interval will be 1,450' – 1,818' in the BSW; Salado (96173).

II. Operator: Basic Energy Services L.P. [OGRID 246368]
Operator phone number: (432) 571-8159
Operator address: 801 Cherry Street, Suite 2100
Fort Worth, Texas 76102
Contact for Application: Cory Walk (Permits West, Inc.)
Phone: (505) 466-8120

III. A. (1) Lease name: Fee
Well name and number: Eunice Brine #001
Location: 630' FSL & 2427' FEL Section 34, T. 21 S., R. 37 E.

A. (2) Production casing (7" O.D., 24# / 20#) was set at 1,450' in a 8.75" hole and cemented to surface with 700 sacks.

Liner (5.5" O.D., 15.5#, FJ) was set at 1,375' in a 8.75" hole and cemented to surface with 102 sacks.

An 5.5" open hole was drilled to 1,818'.

A. (3) Tubing will be IPC lined, 2.875", J-55, PC
Setting depth was 1,544'. (Disposal interval will be 1,450' to 1,818'.)

A. (4) N/A

B. (1) Injection zone will be the Salado formation (BSW; Salado (96173) pool).

B. (2) Disposal interval will be open hole from 1,450' to 1,818'.

B. (3) Well was drilled as a brine supply well.

B. (4) No perforated intervals are in the well.

B. (5) Zones currently producing in the area of review below the Salado (1,235') are the Yates-7Rivers-Queen (~2,400'), Grayburg (~3,700'), San Andres (~4,000'), Paddock (~5,100'), Blinebry (~5,560'), Tubb (~5,900'). Drinkard

(~6,380') produced in the past. No oil or gas zone is above the Salado in the area of review.

IV. This is not an expansion of an existing project.

V. See exhibit A for a map showing all wells and leases within two miles of the Eunice Brine well along with a one-half mile radius showing the area of review. Exhibit B shows and tabulates the 36 existing wells (18 oil + 7 gas + 11 P&A) within one-half mile radius. All leases within a half-mile radius are fee or State.

VI. See Exhibit C for a tabulation of data on all wells of public record within the area of review.

VII. 1. Average injection rate will be ≈750 bwpd. (based on avg of annual values over past 6 yrs)
Maximum injection rate will be 2,200 bwpd. (based on max monthly value in past 5 yrs)
2. System will be open and closed. Water will both be trucked and piped.
3. Average injection pressure will be ≈250 psi
Maximum injection pressure will be 400 psi
4. Injected water will be fresh water, from the City of Eunice water line. A summary of water analyses follows.

Injected (Fresh) Water Samples

Parameter	6/2/16	10/27/15	5/24/14	9/12/12	4/22/10
Bicarbonate	185	181	244	220	268
Chloride	57	60	72	59	160
Sulfate	63	82	46	49	200
TDS	424	450	584	459	916

Basic Energy Services has not experienced any compatibility problems when the Eunice Brine #001 was producing.

5. N/A

VIII. The Salado formation is estimated to be 1,165' thick (1,235' – 2,400' based on well completion reports) and is primarily comprised of halite (salt). Closest possible

underground source of drinking water above the proposed injection interval is the Quaternary – Triassic formation near the surface (0' - 668'). No underground source of drinking water is below the proposed disposal interval.

Formation tops are:

Quaternary = 0'
Rustler = 668'
Salado = 1235'
Delaware = 2400'

33 water wells are within a 1-mile radius according to State Engineer records (Exhibit D), deepest of which is 100'. There will be ~567' of low permeability anhydrite and gypsum (Rustler Formation) between the bottom of the only likely underground water source and the top of the Salado.

IX. N/A

X. A CBL was run in December 2010 and submitted in 2011 and is in NMOCD online records.

XI. Many active water wells were found within a mile during a February 1, 2019 field inspection. However, no publicly accessible water wells were found. Several owners of private monitoring wells (Chevron and Versado) were contacted but did not give us permission to sample from their wells nor would they give us recent lab results. Therefore, no water samples were collected. Water samples will be collected, analyzed, and reported to NMOCD as soon as Basic Energy receives permission to install their own monitoring well on the Eunice Brine well pad.

XII. This is not a disposal well; however, available geologic and engineering data has been examined and there is no evidence for an open fault or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Upon acknowledgement by NMOCD of administrative completeness, Basic Energy will put the following public notice plan into place.

1) Basic Energy will place the following display ad in both English and Spanish in the Hobbs News-Sun newspaper. The ad will NOT be placed in the classified or legal

advertisements section and will be a minimum of 3 inches by 4 inches in size.

"Basic Energy Services, L.P., 801 Cherry Street, Suite 2100, Fort Worth, TX 76102, has applied for a new discharge permit for the existing Eunice Brine #001 well. The class III brine supply well is located at 630' FSL & 2427' FEL, Sec. 34, T. 21 S., R. 37 E., Lea County, NM. This is just outside of Eunice, NM city limits immediately south of the Desert Oasis RV park on S 4th street. It will inject fresh water into the Salado Formation at an interval between 1,450' and 1,818' below ground surface. The fresh water will brine and then be pumped back to the surface. This brine water will then be used for drilling and completion operations in the oilfield. Maximum injection pressure = 400 psi. Maximum injection rate = 2,200 bwpd. The average depth to groundwater within a 1-mile radius of this location is 43 feet. The NM Oil Conservation Division will accept comments and statements of interest regarding the application and will create a facility-specific mailing list for persons who wish to receive future notices. Interested parties may contact the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, phone: (505) 476-3441. Additional information can also be obtained by contacting: Cory Walk, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120."

2) Basic Energy will post the below synopsis paragraph in both English and Spanish along with a map on a 2 foot by 3 foot board at the entrance of the Eunice Brine well pad along S 4th street.

"PUBLIC NOTICE
Basic Energy Services, L.P., 801 Cherry Street, Suite 2100, Fort Worth, TX 76102, has applied for a new discharge permit for the existing Eunice Brine #001 well directly behind this sign. Basic Energy's previous permit for this well expired in early 2019. The well is presently shut-in and will begin operations again upon approval of this permit.

The class III brine supply well will inject fresh water into the Salado Formation at an interval between 1,450' and 1,818' below ground surface. The fresh water will brine and then be pumped back to the surface. This brine water will then be used for drilling and completion operations in the oilfield. Maximum injection pressure = 400 psi. Maximum injection rate = 2,200 bwpd. The average depth to groundwater within a 1-mile radius of this location is 43 feet. The permit requires that the brine well must be constructed and operated in a manner that will not adversely affect groundwater quality.

The NM Oil Conservation Division will accept comments and statements of interest regarding the application and will create a facility-specific mailing list for persons who wish to receive future notices. Interested parties may contact the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, phone: (505) 476-3441. Additional information can also be obtained by contacting: Cory Walk, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120."

3) Basic Energy will post a second notice off-site on the Eunice Public Library bulletin board (if permitted) or at another location designated by the NMOCD.

"PUBLIC NOTICE
Basic Energy Services, L.P., 801 Cherry Street, Suite 2100, Fort Worth, TX 76102, has applied for a new discharge permit for the existing Eunice Brine #001 well. Basic Energy's previous permit for this well expired in early 2019. The well is presently shut-in and will begin operations again upon approval of this permit.

The class III brine supply well is located at 630' FSL & 2427' FEL, Sec. 34, T. 21 S., R. 37 E., Lea County, NM. A map is hereby attached to the bottom of this posting. This is just outside of Eunice, NM city limits immediately south of the Desert Oasis RV park on S 4th street. It will inject fresh water into the Salado Formation at an interval between 1,450' and 1,818' below ground surface. The fresh water will brine and then be pumped back to the surface. This brine water will then be used for drilling and completion operations in the oilfield. Maximum injection pressure = 400 psi. Maximum injection rate = 2,200 bwpd. The average depth to groundwater within a 1-mile radius of this location is 43 feet. The permit requires that the brine well must be constructed and operated in a manner that will not adversely affect groundwater quality.

The NM Oil Conservation Division will accept comments and statements of interest regarding the application and will create a facility-specific mailing list for persons who wish to receive future notices. Interested parties may contact the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, phone: (505) 476-3441. Additional information can also be obtained by contacting: Cory Walk, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120."

4) The following notice will be sent by certified mail to all owners of record of all properties within a 1/3-mile distance from the well site location.

"PUBLIC NOTICE

Dear surface owner:

Basic Energy Services, L.P., 801 Cherry Street, Suite 2100, Fort Worth, TX 76102, has applied for a new discharge permit for the existing Eunice Brine #001 well. Basic Energy's previous permit for this well expired in early 2019. The well is presently shut-in and will begin operations again upon approval of this permit. As required by Water Quality Control Commission Regulations 20.6.2.3108.B.2 NMAC, I am notifying you of this application as you are a property owner of record within a 1/3 mile radius of the brine well location. This letter is a notice only. No action is needed unless you have questions or objections.

The class III brine supply well is located at 630' FSL & 2427' FEL, Sec. 34, T. 21 S., R. 37 E., Lea County, NM. A map is included within this mailing. The well is just outside of Eunice, NM city limits immediately south of the Desert Oasis RV park on S 4th street. It will inject fresh water into the Salado Formation at an interval between 1,450' and 1,818' below ground surface. The fresh water will brine and then be pumped back to the surface. This brine water will then be used for drilling and completion operations in the oilfield. Maximum injection pressure = 400 psi. Maximum injection rate = 2,200 bwpd. The average depth to groundwater within a 1-mile radius of this location is 43 feet. The permit requires that the brine well must be constructed and operated in a manner that will not adversely affect groundwater quality.

The NM Oil Conservation Division will accept comments and statements of interest regarding the application and will create a facility-specific mailing list for persons who wish to receive future notices. Interested parties may contact the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, phone: (505) 476-3441. Additional information can also be obtained by contacting: Cory Walk, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120.

Sincerely,

Cory Walk"

5) Within 15 days of completion of the public notice plan, Basic Energy will submit proof of notice and proof of publication to the NMOCD.

Basic Energy Services L.P.

Eunice Brine Well #1
Well & Lease Map

630' FSL & 2427' FEL
Sec. 34, Township 21S, Range 37E
Lea County, New Mexico

Eunice Brine Well #1
State Leases
Federal Leases

1:27,000

0 0.5 1
Miles

NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST

Prepared by Permits West, Inc., February 12, 2020
for Basic Energy Services L.P.

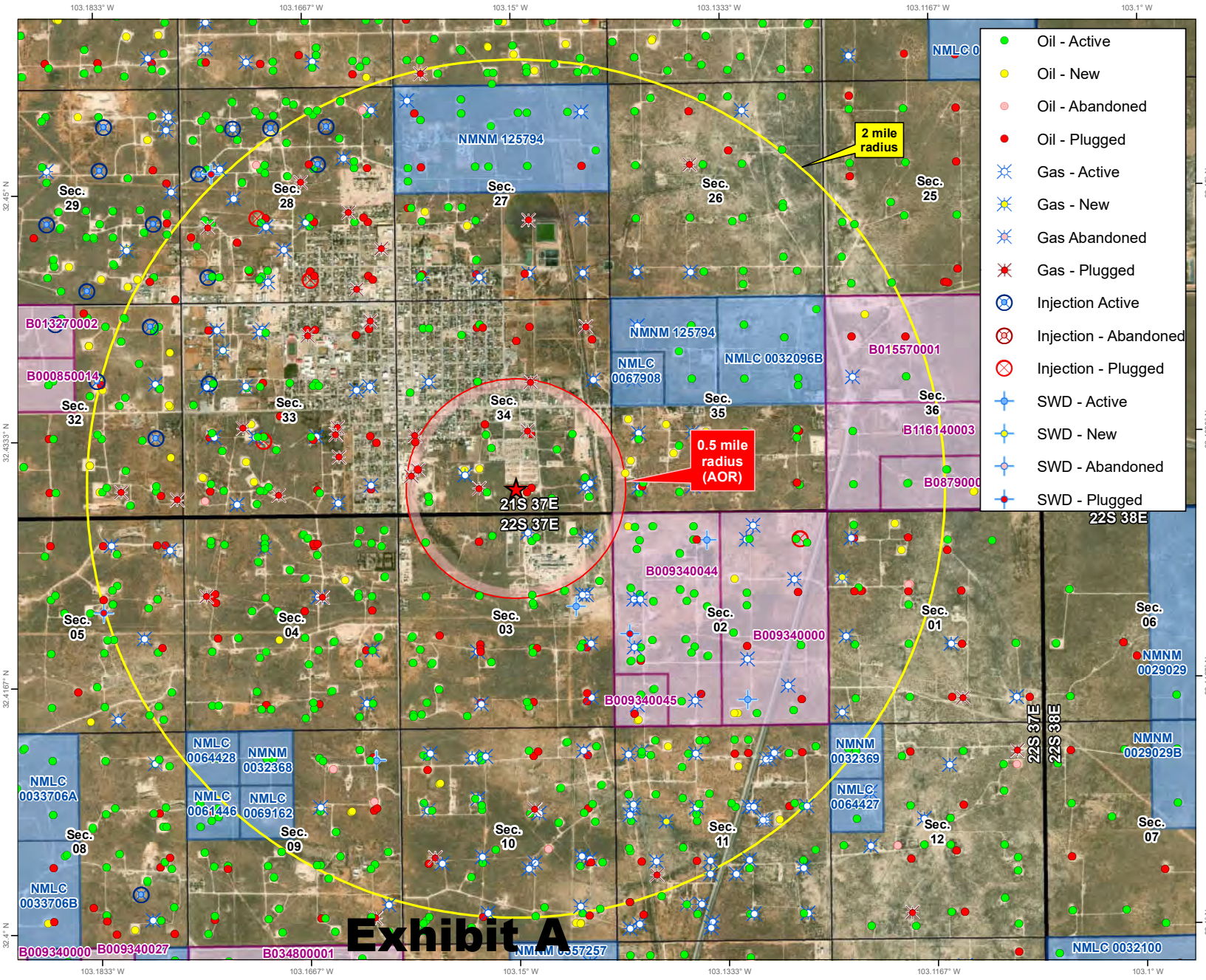


Exhibit A

API	OPERATOR	WELL	TYPE	UNIT-SECTION	TVD	ZONE	FEET FROM EUNICE #1
3002507005	Chevron	Mark Owen 006H	O	O-34	3831	Penrose Skelly; Grayburg	290
3002507002	Gulf Oil	Mark Owen 002	O	O-34	3740	Penrose Skelly	382
3002534774	Apache	Owen B 008	P&A	N-34	4050	Penrose Skelly; Grayburg	720
3002506999	Apache	Owen B 004	G	N-34	6599	Blinebry Oil; Gas (Pro Gas)	916
3002537186	Chevron	Mark Owen 010	P&A	O-34	4323	Penrose Skelly; Grayburg	918
3002540099	Apache	Owen B 014	O	N-34	7319	Tubb Oil and Gas	1019
3002509991	SMC	Mark 002H	G	2-3	3839	Penrose Skelly; Grayburg	1133
3002534554	Apache	Owen B 007	O	K-34	3950	Penrose Skelly; Grayburg	1163
3002509998	SMC	Mark 008	O	2-3	7693	Blinebry Oil and Gas (Oil)	1294
3002510001	John H Hendrix	Eva Owen 003	O	3-3	6590	Penrose Skelly; Grayburg	1294
3002537322	Apache	Owen B 011	G	N-34	4600	Penrose Skelly; Grayburg	1294
3002539732	Apache	Owen B 013	O	N-34	7540	Wantz; Abo; Granite Wash	1343
3002509979	SMC	Mark 001	O	2-3	3860	Penrose Skelly; Grayburg	1359
3002507001	Chevron	Mark Owen 001	P&A	J-34	3735	Penrose Skelly; Grayburg	1389
3002537189	Chevron	Mark Owen 009	O	J-34	4320	Penrose Skelly; Grayburg	1394
3002535705	McCasland	Pioneer 001	P&A	J-34	No report	Salt	1413
3002507003	Chevron	Mark Owen 004	P&A	J-34	6584	Blinebry Oil; Gas (Pro Gas)	1453
3002534321	Apache	Owen B 006	O	K-34	7500	Drinkard	1515
3002510000	Sunray Oil Co DX	OwenS 002	P&A	3-3	5255	Penrose Skelly	1595
3002507004	Chevron	Mark Owen 005	G	P-34	6545	Blinebry Oil; Gas (Pro Gas)	1708
3002526053	Chevron	Mark Owen 008	O	P-34	7610	Penrose Skelly; Grayburg	1727
3002506998	BP America	Owen B 003	P&A	K-34	6911	Drinkard	1757

Exhibit B

API	OPERATOR	WELL	TYPE	UNIT-SECTION	TVD	ZONE	FEET FROM EUNICE #1
3002526051	SMC	Mark 011	O	1-3	7618	Penrose Skelly; Grayburg	1770
3002538333	Chevron	Mark Owen 011H	O	P-34	3833	Penrose Skelly; Grayburg	1812
3002507006	John H Hendrix	Paddock Unit 002	G	P-34	5180	Paddock	1819
3002507022	Chevron	Mark Owen 003	O	I-34	6550	Penrose Skelly; Grayburg	1939
3002510049	SMC	Mark 005	G	1-3	6521	Tubb Oil and Gas (Oil)	2149
3002534775	Apache	Owen B 009	O	M-34	4150	Eunice; San Andres	2158
3002537239	Apache	Owen B 012	O	M-34	7200	Blinebry Oil and Gas (Oil)	2165
3002509994	John H Hendrix	Paddock Unit 009	G	1-3	5240	Paddock	2175
3002535638	Apache	Owen B 010	P&A	M-34	5900	Blinebry Oil and Gas (Oil)	2458
3002509999	John H Hendrix	Eva Owen 001	O	4-3	7370	Penrose Skelly; Grayburg	2595
3002506996	Apache	Owen B 001	P&A	M-34	6614	Blinebry Oil and Gas (Oil)	2597
3002507010	XTO	F F Hardison B 003	P&A	G-34	6707	Blinebry Oil and Gas (Oil)	2645
3002509995	SMC	Mark 003H	O	G-3	3835	Penrose Skelly; Grayburg	2652
3002507007	J C Clower	Hardison 001	P&A	G-34	3730	Hardy	2680
3002539827	Apache	Mark Owen 020	O	M-35	4400	Penrose Skelly; Grayburg	2721

Exhibit B

Sorted by distance from Basic Eunice 1

WELL	SPUD	TVD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
Mark Owen 006H	9/24/1947	3831	Penrose Skelly; Grayburg	O	17.5	13.375	309	300 sx	Surface	Circ
3002507005					12.25	9.625	2900	1300 sx	1600	Temp survey
O-34-21S-37E					8.75	7	6301	700 sx	2830	Temp survey
Mark Owen 002	5/5/1940	3740	Penrose Skelly	P&A	13.75	9.625	251	200 sx	Surface	Circ
3002507002					7.875	6	3575	300 sx	No report	No report
O-34-21S-37E										
Owen B 008	12/7/1999	4050	Penrose Skelly; Grayburg	O	12.25	8.625	1103	435 sx	Surface	Circ 89 sx
3002534774					7.875	5.5	4050	625 sx	Surface	Circ 38 sx
N-34-21S-37E										
Owen B 004	1/2/1947	6599	Blinebry Oil & Gas (Pro Gas) Drinkard	P&A	8	7	3568	250 sx	342	Calc
3002506999					6.25	5	6599	160 sx	4397	Calc
N-34-21S-37E										

Exhibit C

Sorted by distance from Basic Eunice 1

Mark Owen 010	10/8/2005	4323	Penrose Skelly; Grayburg	O	11	8.625	442	550 sx	Surface	Circ 216 sx
3002537186					7.875	5.5	4217	1000 sx	Surface	Circ 70 sx
O-34-21S-37E										
Owen B 014	4/29/2011	7319	Tubb Oil and Gas	O	12.25	8.625	1253	650 sx	Surface	Circ 64 sx
3002540099					7.875	5.5	7319	1200 sx	Surface	Circ 180 sx
N-34-21S-37E										
Mark 002H	10/19/1946	3839	Penrose Skelly; Grayburg	G	17.25	13.375	294	300 sx	Surface	Circ
3002509991					12.25	9.625	2906	1300 sx	No report	No report
B-3-22S-37E					8.75	7	6483	700 sx	No report	No report
Owen B 007	3/20/1999	3950	Penrose Skelly; Grayburg	O	12.25	8.625	1047	450 sx	Surface	Circ 98 sx
3002534554					7.875	5.5	3950	980 sx	Surface	Circ 89 sx
K-34-21S-37E										
Mark 008	3/31/1949	7693	Blinebry Oil and Gas (Oil)	O	17.25	13.375	304	300 sx	Surface	Circ

Exhibit C

3002509998					12.25	9.625	2900	2900 sx	1300	No report
B-3-22S-37E					8.75	7	5290	500 sx	2015	No report
Eva Owen 003	8/9/1946	6590	Penrose Skelly; Grayburg	O	17.25	13.375	338	250 sx	Surface	Circ
3002510001					12.25	9.625	2830	2200 sx	Surface	Circ
C-3-22S-37E					8.75	7	6589	300 sx	No report	No report
Owen B 011	10/2/2005	4600	Penrose Skelly; Grayburg	G	12.25	8.625	400	290 sx	Surface	Circ sx
3002537322					7.875	5.5	4600	1050 xs	180	CBL
N-34-21S-37E										
Owen B 013	5/1/2010	7540	Wantz; Abo; Granite Wash	O	12.25	8.625	1190	650 sx	203	CBL
3002539732					7.875	5.5	7621	1400 sx	No report	No report
N-34-21S-37E										
Mark 001	6/28/1940	3860	Penrose Skelly; Grayburg	O	13.75	9.625	251	250 sx	Surface	Circ
3002509979					6.75	5.5	3574	200 sx	No report	No report

Exhibit C

Sorted by distance from Basic Eunice 1

B-3-22S-37E										
Mark Owen 001	10/20/1939	3735	Penrose Skelly; Grayburg	P&A	13.75	10.75	260	225 sx	Surface	Circ
3002507001					7.875	6	3600	350 sx	1601	Calc
J-34-21S-37E										
Mark Owen 009	10/2/2005	4320	Penrose Skelly; Grayburg	O	11	8.625	451	650 sx	Surface	Circ 280 sx
3002537189					7.875	5.5	4312	1000 sx	Surface	Circ 261 sx
J-34-21S-37E										
Pioneer 001	No report	No report	Salt	P&A	No report	No report	No report	No report	No report	No report
3002535705										
J-34-21S-37E										
Mark Owen 004	6/19/1946	6584	Blinebry Oil; Gas (Pro Gas)	P&A	17.5	13.375	308	300 sx	Surface	Circ
3002507003					12.5	9.625	2900	1300 sx	505	Temp survey
J-34-21S-37E					8.75	7	6500	700 sx	2910	Temp survey

Exhibit C

Sorted by distance from Basic Eunice 1

Owen B 006	3/31/1998	7500	Drinkard	O	12.25	9.625	1030	415 sx	Surface	Circ 109 sx
3002534321					7.875	5.5	5487	2100 sx	1380	Temp survey
K-34-21S-37E					5.5	4.5	5277-7500	585 sx	5277	No report
OwenS 002	5/21/1940	5255	Penrose Skelly	P&A	16	15	120	100 sx	Surface	Circ
3002510000					8	7	3554	300 sx	No report	No report
C-3-22S-37E					6.25	5	5254	250 sx	No report	No report
Mark Owen 005	12/10/1974	6545	Blinebry Oil; Gas (Pro Gas)	G	17.25	13.375	293	300 sx	Surface	Circ
3002507004					12.25	9.625	2900	1300 sx	1570	Temp survey
P-34-21S-37E					8.75	7	6545	700 sx	2055	Temp survey
Mark Owen 008	9/27/1978	7610	Penrose Skelly; Grayburg	O	12.25	8.625	1137	550 sx	Surface	Circ
3002526053					7.875	5.5	7610	1915 sx	Surface	Circ
P-34-21S-37E										

Exhibit C

Sorted by distance from Basic Eunice 1

Owen B 003	7/3/1939	6911	Drinkard	P&A	18	15.5	133	100 sx	Surface	Circ
3002506998					8	7	3625	150 sx	No report	No report
K-34-21S-37E										
Mark 011	8/16/1978	7618	Penrose Skelly; Blinebry; Wantz Abo	O	12.25	8.625	1143	550 sx	Surface	Circ
3002526051					7.875	5.5	7618	1875 sx	Surface	Circ
A-3-22S-37E										
Mark Owen 011H	3/30/2007	3833	Penrose Skelly; Grayburg	O	12.25	9.625	486	380 sx	Surface	Circ 145 sx
3002538333					8.75	7	4050	1075 sx	Surface	Circ 313 sx
P-34-21S-37E					6.125	4.5	4824	120 sx	Surface	Circ 4 bbl
Paddock Unit 002	11/25/1947	5180	Paddock	G	17.5	13.375	290	300 sx	Surface	Circ
3002507006					12.25	9.625	2900	1300 sx	1820	Temp survey
P-34-21S-37E					8.75	7	5065	500 sx	No report	No report
Mark Owen 003	4/13/1946	6550	Penrose Skelly; Grayburg	O	17.5	13.375	395	300 sx	Surface	Circ

Exhibit C

3002507022					12.25	9.625	2850	1300 sx	1530	Temp survey
I-34-21S-37E					8.75	7	6434	700 sx	2830	Temp survey
Mark 005	6/8/1947	6521	Tubb Oil and Gas (Oil)	G	17.25	13.375	300	300 sx	Surface	Circ
3002510049					12.25	9.625	2900	1300 sx	1435	Temp survey
A-3-22S-37E					8.75	7	6455	700 sx	2945	Temp survey
Owen B 009	12/16/1999	4150	Eunice; San Andres	O	12.25	8.625	1092	460 sx	Surface	Circ
3002534775					7.875	5.5	4150	830 sx	100	CBL
M-34-21S-37E										
Owen B 012	8/16/2005	7200	Blinebry Oil and Gas (Oil)	O	12.25	8.625	1195	575 sx	Surface	Circ
3002537239					7.875	5.5	7200	1545 sx	1090	CBL
M-34-21S-37E										
Paddock Unit 009	10/10/1947	5240	Paddock	G	17.5	13.375	297	300 sx	Surface	Circ
3002509994					12.25	9.625	2900	1300 sx	No report	No report

Exhibit C

Sorted by distance from Basic Eunice 1

A-3-22S-37E					8.75	7	5240	500 sx	1645	Temp survey
Owen B 010	9/9/2001	5900	Blinebry Oil and Gas (Oil)	P&A	12.25	8.625	1130	460 sx	Surface	Circ 43 sx
3002535638					7.875	5.5	6036	1500 sx	Surface	Circ 157 sx
M-34-21S-37E										
Eva Owen 001	6/17/1937	7370	Penrose Skelly; Grayburg	O	15	13.375	291	300 sx	Surface	Circ
3002509999					12.5	9.625	1174	225 sx	Surface	Circ
D-3-22S-37E					8.625	7	3592	400 sx	No report	No report
					No report	5	6599	250 sx	3300	Temp survey
Owen B 001	1/8/1947	6614	Blinebry Oil and Gas (Oil)	P&A	18	15.5	130	100 sx	Surface	Circ
3002506996					8	7	3825	150 sx	1689	Cal
M-34-21S-37E					6.25	5	6614	160 sx	4412	Cal
F F Hardison B 003	12/3/1990	6707	Blinebry Oil and Gas (Oil)	P&A	13.75	10.75	368	350 sx	Surface	Circ
3002507010					8.625	7.625	2822	1650 sx	Surface	Circ

Exhibit C

Sorted by distance from Basic Eunice 1

G-34-21S-37E					6.75	5.5	6607	400 sx	1890	Temp survey
Mark 003H	2/26/1947	3835	Penrose Skelly; Grayburg	O	17.25	13.375	296	300 sx	Surface	Circ
3002509995					12.25	9.625	2800	1300 sx	1150	Temp survey
G-3-22S-37E					8.75	7	6390	700 sx	2745	Temp survey
Hardison 001	5/14/1939	3730	Hardy	P&A	12.25	9.625	446	200 sx	Surface	Circ
3002507007					8.75	7	3621	400 sx	No report	No report
G-34-21S-37E										
Mark Owen 020	8/26/2010	4400	Penrose Skelly; Grayburg	O	12.25	8.625	1211	675 sx	Surface	Circ 202 sx
3002539827					8.875	5.5	4396	625 sx	Surface	Circ 163 sx
M-35-21S-37E										

Exhibit C

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 01358 POD7	CP	LE	3	3	4	34	21S	37E	673970	3589556	46	95	86	9
CP 01358 POD1	CP	LE	2	1	4	34	21S	37E	674134	3589539	202	65	48	17
CP 01358 POD10	CP	LE	3	4	4	34	21S	37E	674313	3589482	390	65	60	5
CP 01358 POD6	CP	LE	4	3	4	34	21S	37E	674271	3589921	469	26		
CP 00835	CP	LE			3	34	21S	37E	673454	3589786*	521	145		
CP 01358 POD3	CP	LE	2	4	4	34	21S	37E	674434	3589782	531	45	32	13
CP 01358 POD4	CP	LE	2	4	4	34	21S	37E	674307	3589974	532	45	40	5
CP 01358 POD2	CP	LE	3	2	4	34	21S	37E	674497	3589676	566	42	29	13
CP 01358 POD5	CP	LE	3	4	4	34	21S	37E	674306	3590035	577	58	41	17
CP 01159 POD1	CP	LE			2	03	22S	37E	674217	3589009	644	45		
CP 01159 POD2	CP	LE			2	03	22S	37E	674223	3588982	671	40		
CP 01159 POD3	CP	LE			2	03	22S	37E	674266	3588993	681	40		
CP 01159 POD4	CP	LE			2	03	22S	37E	674279	3588986	694	40		
CP 01623 POD1	CP	LE	3	2	2	03	22S	37E	674368	3589021	713	43	30	13
CP 01623 POD6	CP	LE	3	2	2	03	22S	37E	674371	3589021	715	43	28	15
CP 01623 POD2	CP	LE	1	4	2	03	22S	37E	674369	3589003	728	41	30	11
CP 01623 POD5	CP	LE	1	4	2	03	22S	37E	674364	3588981	743	42	31	11
CP 01623 POD3	CP	LE	4	4	4	28	21S	37E	674384	3588994	745	42	29	13
CP 01623 POD4	CP	LE	1	4	2	03	22S	37E	674385	3588978	757	43	27	16
CP 01103 POD1	CP	LE			2	03	22S	37E	674447	3589016	768	40		
CP 01103 POD7	CP	LE			2	03	22S	37E	674489	3589046	774	40		
CP 01103 POD2	CP	LE			2	03	22S	37E	674439	3588991	781	40		
CP 01103 POD3	CP	LE			2	03	22S	37E	674465	3588991	798	40		
CP 01103 POD6	CP	LE			2	03	22S	37E	674501	3589002	814	40		
CP 01103 POD4	CP	LE			2	03	22S	37E	674468	3588968	817	40		
CP 01103 POD8	CP	LE			2	03	22S	37E	674520	3589016	817	40		

***UTM location was derived from PLSS - see Help**

Exhibit D

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-basin	Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 01103 POD5	CP		LE			2	03	22S	37E	674488	3588977	823	40		
CP 01103 POD9	CP		LE			2	03	22S	37E	674533	3588980	852	35		
CP 01103 POD10	CP		LE			2	03	22S	37E	674552	3588995	855	32		
CP 00943 POD1	CP		LE	1	3	1	34	21S	37E	673166	3590405	1122	142		
CP 00221 POD1	CP		LE	2	1	3	35	21S	37E	674953	3590115*	1142	290		
CP 00726	CP		LE		2	4	33	21S	37E	672844	3589980*	1160	125	100	25
CP 01540 POD1	CP		LE	1	1	1	35	21S	37E	674676	3590844	1455	51	36	15

Average Depth to Water: **43 feet**

Minimum Depth: **27 feet**

Maximum Depth: **100 feet**

Record Count: 33

UTMNAD83 Radius Search (in meters):

Easting (X): 673937.71 **Northing (Y):** 3589590.78 **Radius:** 1610

***UTM location was derived from PLSS - see Help**

Exhibit D

Eunice Brine #001 Public Notice Plan

Upon acknowledgement by NMOCD of administrative completeness, Basic Energy will put the following public notice plan into place.

1) Basic Energy will place the following display ad in both English and Spanish in the Hobbs News-Sun newspaper. The ad will NOT be placed in the classified or legal advertisements section and will be a minimum of 3 inches by 4 inches in size.

   "Basic Energy Services, L.P., 801 Cherry Street, Suite 2100, Fort Worth, TX 76102, has applied for a new discharge permit for the existing Eunice Brine #001 well. The class III brine supply well is located at 630' FSL & 2427' FEL, Sec. 34, T. 21 S., R. 37 E., Lea County, NM. This is just outside of Eunice, NM city limits immediately south of the Desert Oasis RV park on S 4th street. It will inject fresh water into the Salado Formation at an interval between 1,450' and 1,818' below ground surface. The fresh water will brine and then be pumped back to the surface. This brine water will then be used for drilling and completion operations in the oilfield. Maximum injection pressure = 400 psi. Maximum injection rate = 2,200 bwpd. The average depth to groundwater within a 1-mile radius of this location is 43 feet. The NM Oil Conservation Division will accept comments and statements of interest regarding the application and will create a facility-specific mailing list for persons who wish to receive future notices. Interested parties may contact the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, phone: (505) 476-3441. Additional information can also be obtained by contacting: Cory Walk, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120."

2) Basic Energy will post the below synopsis paragraph in both English and Spanish along with a map on a 2 foot by 3 foot board at the entrance of the Eunice Brine well pad along S 4th street.

   "PUBLIC NOTICE
   Basic Energy Services, L.P., 801 Cherry Street, Suite 2100, Fort Worth, TX 76102, has applied for a new discharge permit for the existing Eunice Brine #001 well directly behind this sign. Basic Energy's previous permit for this well expired in early 2019. The well is presently shut-in and will begin operations again upon approval of this permit.

   The class III brine supply well will inject fresh water into the Salado Formation at an interval between 1,450' and 1,818' below ground surface. The fresh water will brine and then be pumped back to the surface. This brine water will then be used for drilling and completion operations in the oilfield. Maximum injection pressure = 400 psi. Maximum injection rate = 2,200 bwpd. The average depth to groundwater within a 1-mile radius of this location is 43 feet. The permit requires

that the brine well must be constructed and operated in a manner that will not adversely affect groundwater quality.

The NM Oil Conservation Division will accept comments and statements of interest regarding the application and will create a facility-specific mailing list for persons who wish to receive future notices. Interested parties may contact the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, phone: (505) 476-3441. Additional information can also be obtained by contacting: Cory Walk, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120."

3) Basic Energy will post a second notice off-site on the Eunice Public Library bulletin board (if permitted) or at another location designated by the NMOCD.

"PUBLIC NOTICE
Basic Energy Services, L.P., 801 Cherry Street, Suite 2100, Fort Worth, TX 76102, has applied for a new discharge permit for the existing Eunice Brine #001 well. Basic Energy's previous permit for this well expired in early 2019. The well is presently shut-in and will begin operations again upon approval of this permit.

The class III brine supply well is located at 630' FSL & 2427' FEL, Sec. 34, T. 21 S., R. 37 E., Lea County, NM. A map is hereby attached to the bottom of this posting. This is just outside of Eunice, NM city limits immediately south of the Desert Oasis RV park on S 4th street. It will inject fresh water into the Salado Formation at an interval between 1,450' and 1,818' below ground surface. The fresh water will brine and then be pumped back to the surface. This brine water will then be used for drilling and completion operations in the oilfield. Maximum injection pressure = 400 psi. Maximum injection rate = 2,200 bwpd. The average depth to groundwater within a 1-mile radius of this location is 43 feet. The permit requires that the brine well must be constructed and operated in a manner that will not adversely affect groundwater quality.

The NM Oil Conservation Division will accept comments and statements of interest regarding the application and will create a facility-specific mailing list for persons who wish to receive future notices. Interested parties may contact the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, phone: (505) 476-3441. Additional information can also be obtained by contacting: Cory Walk, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120."

4) The following notice will be sent by certified mail to all owners of record of all properties within a 1/3-mile distance from the well site location.

   "PUBLIC NOTICE

   Dear surface owner:

   Basic Energy Services, L.P., 801 Cherry Street, Suite 2100, Fort Worth, TX 76102, has applied for a new discharge permit for the existing Eunice Brine #001 well. Basic Energy's previous permit for this well expired in early 2019. The well is presently shut-in and will begin operations again upon approval of this permit. As required by Water Quality Control Commission Regulations 20.6.2.3108.B.2 NMAC, I am notifying you of this application as you are a property owner of record within a 1/3 mile radius of the brine well location. This letter is a notice only. No action is needed unless you have questions or objections.

   The class III brine supply well is located at 630' FSL & 2427' FEL, Sec. 34, T. 21 S., R. 37 E., Lea County, NM. A map is included within this mailing. The well is just outside of Eunice, NM city limits immediately south of the Desert Oasis RV park on S 4th street. It will inject fresh water into the Salado Formation at an interval between 1,450' and 1,818' below ground surface. The fresh water will brine and then be pumped back to the surface. This brine water will then be used for drilling and completion operations in the oilfield. Maximum injection pressure = 400 psi. Maximum injection rate = 2,200 bwpd. The average depth to groundwater within a 1-mile radius of this location is 43 feet. The permit requires that the brine well must be constructed and operated in a manner that will not adversely affect groundwater quality.

   The NM Oil Conservation Division will accept comments and statements of interest regarding the application and will create a facility-specific mailing list for persons who wish to receive future notices. Interested parties may contact the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, phone: (505) 476-3441. Additional information can also be obtained by contacting: Cory Walk, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120.

   Sincerely,

   Cory Walk"

5) Within 15 days of completion of the public notice plan, Basic Energy will submit proof of notice and proof of publication to the NMOCD.

Basic Energy Services
Eunice Brine
Proposed Closure Plan

1. Well Plugging - $54,215

Based on experience in plugging wells, Basic proposes a well plugging amount of $54,215. See cost breakdown below.

$27,400 Well plugging contractor labor/equipment including cement
$10,925 Equipment rental (work string, flowback tanks, BOPE, porta-john, etc.)
$5,725 Transportation of equipment
$4,150 Supervision
$2,730 Purchase/transportation of brine and fresh water
$2,100 Disposal of tank fluids
$1,260 Excavate/cutoff wellhead and anchors; weld on flat plate and PxA marker
$1,185 Miscellaneous

2. Surface Restoration - $175,374

Based off past surface restoration jobs, these costs total $175,374 as detailed below:

$9,400 Equipment/Labor – washout tanks for disposal, haul fluids and solids to disposal
$10,500 Backhoe/Labor – 5 days to crush fiberglass tanks and PVC components at brine station
$2,520 35 Yd Roll-off Dumpsters - delivery, rental and hauling to landfill
$12,000 land fill non contaminated material
$60,000 contaminated soil disposal at Sundance $28 per CY
$1,700 Onsite Supervision
$50,059 Equipment/Labor – pull all fencing, remove all concrete, disassemble all metal components, re-contour land to original grade, rebuild barbed wire fence to original ranch configuration, remove underground piping, electrical conduit, wiring, high line poles, wiring and signage
$2,300 Trucking/Disposal – of concrete to Lea County Landfill @ $35/ton
$5,700 Trucking – haul metal components to Hobbs Iron & Metal for recycle
$15,00 Trucking – hauling contaminated soil to Sundance
$4,725 Decommission buried polyethylene brine pipeline - costs include fresh water, trucking and pumping to wash pipeline clean and disposal of brine and wash water.
$1,470 Reseeding mix grass on estimated 2 acres at well location and brine Station

3. Surface Subsidence Monitoring - $19,000

Eunice Brine #1
30-025-26884
630' FSL 2427 FEL
Sec 34 T21S R37E
Unit O
Eddy Co. NM

P & A Procedure

1. Notify and document proper notification of intent to mob with NMOCD
2. MIRU pulling unit
3. NU BOP
4. Pull and stand back all usable tubing. LD any unusable tubing. SLM all tubing
5. RIH w/ 1450' of tubing
6. RU cement trucks and Pump 60 sxs (73 ft^3) Class C Neat
7. Pull 10 stds tubing to 800; Reverse circulate tubing clean
8. After 4 hrs, RIH w/ tubing to tag cement @ 950' +/-
9. Pull tubing to EOT @ 700' +/-
10. Pump 40sx (53.5 ft^3) cement
11. Pull 7 stds to +/- 250'; Reverse circulate tubing clean
12. After 4 hours, Tag TOC around 300' +/-
13. LD all tubing in derrick and hole
14. ND BOP
15. Remove braden head
16. PU 2 jts
17. Pump 7 sx (8 ft^3) cement to surface; LD tubing
18. Remediate dirt work removing cellar; Install dry hole marker
19. RDMO

***Comply and document any NMOCD requirements of notifications and/or witness requirements not included in this procedure.**
****All subsequent steps assume successful/satisfactory results from step prior.**