APPROVED By Olivia Yu at 1:18 pm, Dec 08, 2017

NMOCD approves of the proposed delineation for 1RP-3979.

1RP-3979 DELINEATION PLAN Devon Lease Illegal Dumping Spill Lea County, New Mexico

LAI Project No. 17-0201-01

November 7, 2017

Prepared for: Penroc Oil Corporation 1515 Calle Sur, Suite 174 Hobbs, New Mexico 88240

Prepared by: Larson & Associates, Inc. 507 North Marienfeld Street, Suite 205 Midland, Texas 79701

Sarah R. Johnson Staff Geologist

Mark J. Larson, P.G. Certified Professional Geologist #10490 This Page Intentionally Left Blank

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INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this delineation plan on behalf of Penroc Oil Corporation (Penroc) for submittal to the New Mexico Oil Conservation (OCD) District I for a spills related to illegal dumping at four (4) locations near leases operated by Penroc and previously operated Devon Energy Production (Devon), in Lea County, New Mexico. The leases include:

- Altbeir 10 State #1H, in Unit N (SE/4, SW/4), Section 10, Township 18 South, Range 36 East;
- Dopplebock 8 State Com #1H, in Unit B (NW/4, NE/4), Section 8, Township 18 South, Range 36 East;
- Dunkel 7 State #1H, in Unit E (SW/4, NW/4), Section 17, Township 18 South, Range 36 East; and
- Guadalcanal State Com #1H, in Unit D (NW/4, NW/4), Section 34, Township 17 South, Range 36 East.

Figure 1 presents a topographic map.

1.1 Background

On August 26, 2015, a land owner discovered unusual discoloration and tire tracks on his property and notified the nearest lease operator, Devon, about the illegal dumping of produced fluids in the vicinity of the four (4) Devon leases. The illegal dumping was reported to the OCD (verbal communication with Thomas Oberding) on September 1, 2015. The initial C-141 was submitted on September 2, 2015. The OCD assigned remediation permit number 1RP-3979.

LAI was requested by Penroc to prepare this delineation plan. LAI determined that GPS coordinates presented on the initial C-141 were incorrect. LAI relied on legal description provided on the initial C-141 as well as photographs and drawings provided by Devon to locate the spills. The C-141 describes each spill based on proximity to the nearest Devon lease. On November 1 and 6, 2017 LAI personnel conducted reconnaissance visits using the legal descriptions, drawings and photographs. LAI describes the physical setting based on the spill areas rather than lease locations as some spills were not close to the identified leases. Appendix A presents the initial C-141 and photographs and maps produced by Devon.

1.1.1 Altbeir 10 State #1H

LAI personnel collected photographs at the Altbeir 10 State #1H in similar orientation and direction as photographs by Devon. LAI personnel mapped the visible spill area with a Trimble sub-meter GPS receiver. A spill area was observed just off the lease road to the north of the now plugged and abandoned Altbeir 10 State #1 well. The vegetative cover has improved since the spill was initially reported but scarring is visible. LAI mapped the impact area as about 9,400 square feet or about 0.22 acre. Figure 2a presents an aerial map. Appendix B presents photographs.

Devon also presented photographs and a map for an area of discolored vegetation about 2,000 feet west of the well, however, LAI personnel were unable to locate this area with information provided by Devon.

1.1.2 Dopplebock 8 State Com #1H

LAI personnel collected photographs at the Dopplebock 8 State Com #1H in similar orientation and direction as photographs taken by Devon and mapped the visible spill area using a Trimble sub-meter GPS receiver. An area of discolored vegetation similar to what Devon photographed was visible along the east side of the lease road leading up to the tank battery. The area of discolored vegetation measures approximately 6,200 square feet or about 0.14 acre. There were no visible signs of impact within the tank battery pad. Figure 2b presents an aerial map. Appendix B presents photographs.

1.1.3 Dunkel 7 State #1H

LAI personnel collected photographs at the Dunkel 7 State #1H in similar orientation and direction as photographs taken by Devon and mapped the visible spill area using a Trimble sub-meter GPS receiver. An area of discolored vegetation was also observed about 1 mile south of the Dunkel 7 State #1H location and measured about 5,700 square feet or about 0.13 acre. The spill is situated predominately on the lease road with a runoff into the pasture on either side. Figure 2c presents an aerial map. Appendix B presents photographs.

1.1.4 Guadalcanal State Com #1H

LAI personnel conducted a site reconnaissance at the Guadalcanal State Com #1H on November 1, 2017. No impacted vegetation or discolored soil was observed in the vicinity of the well or tank battery. LAI observed an area of discolored soil near the lease entrance about 2 miles west of the location. Figure 2d presents an aerial map. Appendix B presents photographs.

1.2 Physical Setting

The physical setting for is as follows:

1.2.1 Altbeir 10 State #1H

- The surface elevation is approximately 3,822 feet above mean sea level (msl);
- The surface topography slopes gently towards the southeast;
- There are no surface water features within 1,000 feet of the Site;
- The soils are designated as "Portales loam, 0 to 3 percent slopes", consisting of 0 to 14 inches of loan underlain by 14 to 35 inches of clay loam;
- The surface geology is the Ogallala Formation (lower Pliocene to middle Miocene) consisting of alluvial and eolian deposits, and petrocalcic soils of the southern High Plains;
- Groundwater occurs in the Ogallala formation at approximately 55 feet below ground surface (bgs) (1991);
- The nearest fresh water well is located in Unit G (SW/4, NE/4) in Section 10, Township 18 South, Range 36 East about 0.40 miles northeast of the Site.

1.2.2 Dopplebock 8 State Com #1H

- The surface elevation is approximately 3,860 feet above msl;
- The surface topography slopes gently towards the northeast;
- There are no surface water features within 1,000 feet of the Site;
- The soils are designated as "Kimbrough-Lea complex, dry, 0 to 3 percent slopes", consisting of 0 to 3 inches of gravelly loam underlain by 3 to 10 inches of loam;
- The surface geology is the Ogallala Formation (lower Pliocene to middle Miocene) consisting of alluvial and eolian deposits, and petrocalcic soils of the southern High Plains;
- Groundwater occurs in the Ogallala formation at approximately 57 feet bgs (1986);
- The nearest freshwater well is located in Unit G (SW/4, NE/4), Section 8, Township 18 South, Range 36 East about 0.40 miles southwest of the Site.

1.2.3 Dunkel 7 State #1H

- The surface elevation is approximately 3,855 feet above msl;
- The surface topography slopes gently towards the southeast;

- There are no surface water features within 1,000 feet of the Site;
- The soils are designated as "Kimbrough-Lea complex, dry, 0 to 3 percent slopes", consisting of 0 to 3 inches of gravelly loam underlain by 3 to 10 inches of loam;
- The surface geology is the Ogallala Formation (lower Pliocene to middle Miocene) consisting of alluvial and eolian deposits, and petrocalcic soils of the southern High Plains;
- Groundwater occurs in the Ogallala formation at approximately 51 feet bgs (1986);
- The nearest freshwater well is located in Unit J (NW/4, SE/4), Section 17, Township 18 South, Range 36 East about 0.45 miles east of the Site.

1.2.4 Guadalcanal State Com #1H

- The surface elevation is approximately 3,850 feet above msl;
- The surface topography gently slopes towards the southeast;
- There are no surface water features within 1,000 feet of the Site;
- The soils are designated as "Portales and Gomez fine sandy loams", consisting of 0 to 8 inches of fine sandy loam underlain by 8 to 60 inches of clay loam;
- The surface geology is the Ogallala Formation (lower Pliocene to middle Miocene) consisting of alluvial and eolian deposits, and petrocalcic soils of the southern High Plains;
- Groundwater occurs in the Ogallala formation at approximately 56 feet bgs (1986);
- The nearest freshwater well is located in Unit M (SW/4, SW/4), Section 34, Township 17 South, Range 36 East about 0.75 miles southeast of the Site;

1.3 Recommended Remediation Action Levels

Recommended remediation action levels were calculated for benzene, BTEX and TPH based on the following criteria established by the OCD in *"Guidelines for Remediation of Leaks, Spills and Releases, pp. 6-7, August 13, 1993"*:

1.3.1 Altbeir 10 State #1H

| Criteria | Result | Score |
|--------------------------------|------------------------|-------|
| Depth-to-Groundwater | 50 – 99 Feet | 10 |
| Wellhead Protection Area | No | 0 |
| Distance to Surface Water Body | >1,000 Horizontal Feet | 0 |

The following RRAL apply to the release for ranking score: 10

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 1,000 mg/Kg

1.3.2 Dopplebock 8 State Com #1H

| Criteria | Result | Score |
|--------------------------|--------------|-------|
| Depth-to-Groundwater | 50 – 99 Feet | 10 |
| Wellhead Protection Area | No | 0 |

| Distance to Surface Water Body >1,000 Horizontal Feet 0 |
|---|
|---|

The following RRAL apply to the release for ranking score: 10

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 1,000 mg/Kg

1.3.3 Dunkel 7 State #1H

| Criteria | Result | Score |
|--------------------------------|------------------------|-------|
| Depth-to-Groundwater | 50 – 99 Feet | 10 |
| Wellhead Protection Area | No | 0 |
| Distance to Surface Water Body | >1,000 Horizontal Feet | 0 |

The following RRAL apply to the release for ranking score: 10

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 1,000 mg/Kg

1.3.4 Guadalcanal State Com #1H

| Criteria | Result | Score |
|--------------------------------|------------------------|-------|
| Depth-to-Groundwater | 50 - 99 Feet | 10 |
| Wellhead Protection Area | No | 0 |
| Distance to Surface Water Body | >1,000 Horizontal Feet | 0 |

The following RRAL apply to the release for ranking score: 10

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 1,000 mg/Kg

Depth to groundwater between 50 and 99 feet bgs requires vertical delineation for chloride to 600 milligrams per kilogram and maintained a minimum 10 feet further in depth.

2.0 DELINEATION PLAN

LAI proposes to delineate the observed impacts at four (4) sites. Soil samples will be collected within each spill area at 1 foot intervals to approximately 4 feet bgs and 2 foot intervals to approximately 12 feet bgs using direct push technology (DPT) depending on subsurface conditions. Additional samples with be collected in each cardinal direction (north, south, east and west) of the spill areas for horizontal delineation. The samples with be delivered under chain of custody and preservation to Permian Basin Environmental Lab (PBEL) located in Midland, Texas. The laboratory will analyze the upper sample (0 to 1 foot) for benzene, toluene, ethylbenzene and xylenes (BTEX), total petroleum hydrocarbons (TPH), including gasoline range organics (GRO), diesel range organics (DRO) and oil range organics (ORO) by

EPA SW-846 Methods 8021B and 8015M, respectively. Additional samples will be analyzed to determine the vertical extent of these compounds should the laboratory report concentrations above the RRAL. All samples will be analyzed for chloride by EPA Method and 300 until the delineation requirements are achieved. Pending laboratory results, further delineation will be determined to reach cleanup level standards. Figures 2a, 2b, 2c and 2d present the proposed soil sample locations.

3.0 REMEDIAITON PLAN

Penroc will include a remediation plan in the delineation report to be submitted to the OCD upon receipt of the laboratory report.

Figures



Figure 1 - Topographic Map









Appendix A

Initial C-141 and Documents Produced By Devon Energy Production

| | | | | | | | RECEI | VED | | |
|--|---------------------------|--------------------------------|------------|-------------------------------|--------------------------|---|--------------------------------|---------------|---------------------|--|
| I 1625 N. French | Dr., Hobbs, 1 | NM 88240 | | | New Mex | IC BU IKO | | 2:07 | pm, Nov 12, 2015 | |
| District II 811 S. First St., District III | Artesia, NM | 88210 | | Energy Min | | | | | | |
| 1000 Rio Brazo | s Road, Azteo | c, NM 87410 | | | | ation Div St. Franc | | Submit | acc | to appropriate District Office in cordance with 19.15.29 NMAC. |
| District IV 1220 S. St. Fran | icis Dr., Santa | a Fe, NM 87505 | | | , NM 875 | | | | | |
| | | | Rele | ase Notific | | | | ction | | |
| | | | | | | OPERAT | | | Initia | l Report 🗌 Final Report |
| | | evon Energy | | | ***** | udy Zuniga | | minua | | |
| | | Rivers Hwy . r 10 State 1H | NM 88220 | | Felephone Facility Ty | No. 575-390-54 | 35 | | | |
| | | | | . | | ······································ | | | | 20.005.10000 |
| Surface Ov | vner State | | | Mineral (| •• | | | <u>A</u> | API NO | . 30-025-42290 |
| Unit Letter | Section | Township | Range | LOCA Feet from the | | VOF REI South Line | LEASE Feet from the | East/West | Line | County |
| N | 10 | 18S | 36E | 230 | | South | 1980 | Wes | 1 | Lea |
| | | L | atitude: | N 32'76'85.22' | ; | Loi | n gitude: W 10 | 3`34`45.64 | 11 | |
| T. CD.I | | | | NAT | URE (| OF REL | | | | Recovered |
| Type of Rela Produced W | ater | | | | | Volume of Unknown | Release | No | one | |
| Source of Ro Illegal dump | | e roads | | | | | Hour of Occurre or 22, 2015 | | | Hour of Discovery |
| Was Immed | | Given? | | | | August 21 or 22, 2015 August 26, 7:00 AM If YES, To Whom? | | | | |
| | | \boxtimes | Yes 🗋 | No 🗌 Not Re | equired | I OCD Thomas Oberding BLM | | | | |
| By Whom? | •_ | | | | | Date and Hour | | | | |
| Ruben Gare | 18 | | | | | September 1, 2015 @ 2:00 PM September 1, 2015 @ 1:50 PM | | | | |
| Was a Wate | rcourse Re | ached? | Yes 🗵 | No | | If YES, Volume Impacting the Watercourse | | | | |
| If a Waterco | ourse was I | mpacted, Des | eribe Ful | ly.* | | I | | | | |
| Describe Ca | use of Prob | olem and Ren | nedial Act | ion Taken.* | | | | | | |
| On Septemb | er 1, 2015 | Land owner y | vas out cl | ecking his land | when he | noticed the | re was discolora | tion and tir | re track | s on his land. He went to the |
| had been du | tion and no mped on th | tified Devon ie pasture. | lease oper | rator and advised | 1 him of | the illegal d | umping. There | was an unk | nown a | mount of produced water that |
| | | - | | | | | | | | |
| | | | | | | | | | | |
| | | and Cleanup lied out to loc | | `aken.* I is investigating | the situ: | ation. | | | | |
| | · | | | 0 0 | | | | | | |
| | | | | | | | | | | uant to NMOCD rules and |
| | | | | | | | | | | eases which may endanger eve the operator of liability |
| should their o | operations h | ave failed to a | idequately | investigate and r | emediate | e contaminati | on that pose a th | reat to grour | nd water | , surface water, human health |
| | | ws and/or regu | | tance of a C-141 | report do | bes not reliev | e the operator of | responsibili | ity for co | ompliance with any other |
| Signature: Corína Moya | | | | | | | OIL CONSERVATION DIVISION | | | |
| Printed Name | e: Corina M | loya | | | / | Approved by | Environmental S | Specialist: | Jani V 1 | liger- |
| Title: Field A | dmin Supj | port | | | | Approval Da | 11/12/2015 | | viration | Date: 01/12/2016 |
| E-mail Addre | ess: corina.i | moya@dvn.co | 0 m | | | Conditions of Approval: | | | | Attached |
| Date: 9 | .2.2015 | Р | hone: 575 | .746.5559 | | Discrete site samples required. Delineate and remediate per NMOCD guidelines. IRP 3979 | | | | |

* Attach Additional Sheets If Necessary

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Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| | | | Rele | ease Notific | catio | n and Co | orrective A | ction | | | | |
|--|--|---|---|---|--------------------------------|---|--|---|---------------------------------------|--|----------------------------------|---|
| | | | | | OPERATOR Initial Report Final | | | | | | | |
| | | Devon Energy | | | | Contact Rudy Zuniga | | | | | | |
| | | Rivers Hwy | | | Telephone No. 575-390-5435 | | | | | | | |
| Facility Na | me Doppl | ebock 8 State | e Com H | 1 | | Facility Ty | pe Oil | | | | | |
| Surface Ov | vner Stat | e | | Mineral | Owne | r State | | | API No | . 30-025- | 41694 | |
| | | | | LOCA | ATIO | N OF REI | LEASE | | | | | |
| Unit Letter B | Section 8 | Township 18S | Range 36E | Feet from the 200 | Nort | h/South Line Feet from the East/West Lin North 1980 East | | | | County Lea | | |
| 1 | 1 | 1 | atitude: | N 32'76'87.75' | ,, | Loi | ngitude: W 103 | 3`37`45.8 | 1" | | | |
| | | | | NAT | URI | E OF REL | EASE | | | | | |
| Type of Rele | | | | <u></u> | | Volume of | Release | | | Recovered | | |
| Produced W Source of R | | | | | | Unknown Date and | Hour of Occurre | | one date and | Hour of D | iscove | rv |
| Illegal dum | | e roads | | | | | l or 22, 2015 | | | 6, 7:00 AM | | · J |
| Was Immed | iate Notice | | Yes 🗌 |) No 🗌 Not Re | equirec | I OCD Thor BLM | Whom? nas Oberding | | | | | |
| By Whom? | | | | | | Date and | Hour | | | | | |
| Ruben Gare | | | | | | September 1, 2015 @ 2:00 PM September 1, 2015 @ 1:50 PM | | | | | | |
| Was a Wate | Was a Watercourse Reached? | | | | | If YES, V | olume Impacting | g the Wate | rcourse | | | |
| If a Waterco | ourse was I | mpacted, Des | cribe Ful | ly.* | | | | | | | | |
| Describe Ca | use of Prot | lem and Ren | nedial Ac | tion Taken * | | | | | | | | |
| On Septemb nearest loca had been du | tion and no | tified Devon | was out cl lease ope | hecking his land rator and advise | when d him | he noticed the of the illegal d | re was discolora lumping. There v | tion and ti was an unl | re track known a | s on his la mount of j | nd. He oroduc | went to the ed water that |
| | | and Cleanuj led out to loe | | Faken.* is investigating | the sit | uation. | | | | | | |
| regulations a public health should their o or the environ | Il operators or the envi operations h nment. In a | are required to ronment. The lave failed to a | o report an acceptance adequately OCD accept | e is true and comp nd/or file certain t cc of a C-141 repo investigate and r tance of a C-141 | release ort by t remedia | notifications a he NMOCD mate contaminati | nd perform correct arked as "Final R ion that pose a thr | ctive action teport" doc reat to grou | is for rel- s not rel ind water | eases whicl ieve the op r, surface w | n may e erator o ′ater, hi | endanger of liability uman health |
| Signature: C | Signature: Corína Moya | | | | | | OIL CONSERVATION DIVISION | | | | | |
| Printed Name | Printed Name: Corina Moya | | | | | | Environmental S | pecialist: | | | | |
| Title: Field A | ield Admin Support Approval Date: Expiration Date: | | | | | | | | | | | |
| E-mail Addro | ess: corina. | moya@dvn.c | om | | | Conditions o | f Approval: | | | Attache | d 🗌 | |
| Date: | 9.2.2015 Phone: 575.746.5559 | | | | | | | | | | | |

* Attach Additional Sheets If Necessary

Form C-141 Revised August 8, 2011

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

| Submit I Copy to appropriate D | District Office in |
|--------------------------------|--------------------|
| accordance with 19 | District NMAC. |

| | | | Rele | ase Notific | ation | and Co | orrective A | ction | | | |
|---|---|--|--|---|-------------------------------------|--|--|---|---|--|--|
| | | | | | | OPERA | ГOR | 🛛 Initia | l Report 🛛 Final Report | | |
| | | evon Energy | | | | | udy Zuniga | | | | |
| | | Rivers Hwy | Artesia, 1 | M 88220 | | Telephone No. 575-390-5435 | | | | | |
| Facility Na | ime Dunke | 17 State 1H | | | | Facility Ty | pe oil | | | | |
| Surface O | wner State | | | Mineral | Owner | State | | API No | . 30-025-41693 | | |
| | | | | LOCA | TION | N OF REI | LEASE | | | | |
| Unit Letter 4 | Section 7 | Township 188 | Range 36E | Feet from the 200 | | /South Line South | Feet from the 865 | East/West Line West | County Lea | | |
| | | L | atitude: | N 32'76'84.12' | | | ngitude: W 103 | 3'40'01.27'' | | | |
| Type of Rel | assa Smill | | | NAL | URL | OF REL | | Volume F | laaaxanad | | |
| Produced W | | | | | | Unknown | | none | www. | | |
| Source of R | | | | | | Date and | Hour of Occurre | | Hour of Discovery | | |
| Illegal Dum Was Immed | | | | | | | or 22, 2015 | August 20 | 5, 2015 | | |
| was immed | nate Notice | | Yes 🗋 | No 🔲 Not Re | equired | If YES, To OCD Thor BLM | o whom? nas Oberding | | | | |
| By Whom? | • | | | | | Date and | | | | | |
| Ruben Garo | 2ia | | | | | September 1, 2015 @ 2:00 PM September 1, 2015 @ 1:50 PM | | | | | |
| Was a Wate | rcourse Re | | Yes 🛛 | No | | If YES, Volume Impacting the Watercourse | | | | | |
| If a Waterco | ourse was I | mpacted, Des | cribe Ful | y.* | | - L | | | | | |
| Describe Ca | use of Prot | lem and Ren | nedial Act | ion Taken.* | ••••••• | | | | | | |
| nearest loca had been du | tion and no imped on th | tified Devon 1e pasture. | lease oper | ator and advised | when he l him of | e noticed the f the illegal d | re was discoloral lumping. There v | tion and tire track vas an unknown a | s on his land. He went to the mount of produced water that | | |
| Describe Ar | ea Affected | and Cleanur | Action 7 | `aken.* | | | | | | | |
| Devon Secu | rity was cal | led out to loc: | ation and | is investigating | the situa | ation. | | | | | |
| regulations a public health should their o or the enviro | Il operators or the enviroperations h nment. In a | are required to ronment. The ave failed to a | o report an acceptanc dequately ICD accep | d/or file eertain r e of a C-141 repo investigate and r | elease no ort by the emediate | otifications a 2 NMOCD m c contaminat | nd perform correct arked as "Final R ion that pose a thr | ctive actions for rele eport" does not reli eat to ground water | uant to NMOCD rules and eases which may endanger eve the operator of liability s surface water, human health ompliance with any other | | |
| Signature: Corína Moya | | | | | | OIL CONSERVATION DIVISION | | | | | |
| Signature, C | or nur p | wyw | | | | | | | | | |
| Printed Name: Corina Moya | | | | | | Approved by | Environmental S | pecialist: | | | |
| Title: Field A | Admin Supj | port | | | | Approval Da | te: | Expiration | Date: | | |
| E-mail Addro | ess: corina. | moya@dvn.ce | 0 m | | | Conditions o | f Approval: | | Attached | | |
| Date: | 9.2.2015 | Pł | none: 575. | 746.5559 | | | | | | | |

* Attach Additional Sheets If Necessary

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Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| | | | Rela | | | $\frac{1}{2}$ and Cc | orrective A | etion | | | | |
|---|--------------------|---------------|------------|--------------------|-------------|--|-------------------|--|----------------------------|---------------|---------------------------|--|
| Release Notificatio | | | | | | | | al Dou out | | Final Dan out | | |
| Name of Company Devon Energy Production | | | | | | OPERATOR 🛛 | | | al Report | <u> </u> | Final Report | |
| Address 6488 Seven Rivers Hwy Artesia, NM 88220 | | | | | | Telephone No. 575-390-5435 | | | | | | |
| Facility Name Guadalcanal State Com 1H | | | | | | Facility Type Oil | | | | | | |
| Surface Owner State Mineral Owne | | | | | | | | | | | | |
| Surface of | inci otate | | | | | | | | | | | |
| LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County | | | | | | | | | | | | |
| M | | | | 1 . | South 360 | | West | 2 | | | | |
| | <u> </u> | <u>l</u> | Latitude: | N 32'81'31.52 | Loi | ngitude: W 103 | 3`31`65.44" | <u></u> | | | | |
| NATURE OF RELEASE | | | | | | | | | | | | |
| Type of Release Spill Produced Water | | | | | | Volume of Unknown | Release | Volume None | Volume Recovered | | | |
| Source of Release | | | | | | | Hour of Occurre | | Date and Hour of Discovery | | | |
| Illegal dumping on lease roads | | | | | | | or 22, 2015 | August 2 | August 26, 7:00 AM | | | |
| Was Immediate Notice Given? | | | | | | If YES, To Whom? d OCD Thomas Oberding | | | | | | |
| | | | | | | | BLM | | | | | |
| By Whom? | | | | | | Date and Hour | | | | | | |
| Ruben Garcia | | | | | | September 1, 2015 @ 2:00 PM September 1, 2015 @ 1:50 PM | | | | | | |
| Was a Watercourse Reached? | | | | | | If YES, Volume Impacting the Watercourse | | | | | | |
| 🗌 Yes 🖾 No | | | | | | | | | | | | |
| If a Watercourse was Impacted, Describe Fully.* | | | | | | | | | | | | |
| Describe Cause of Problem and Remedial Action Taken.* | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| On September 1, 2015 Land owner was out checking his land when he noticed there was discoloration and tire tracks on his land. He went to the nearest location and potified Decon lesse operator and adviced him of the illegal dumping. There was an unknown amount of produced water that | | | | | | | | | | | | |
| nearest location and notified Devon lease operator and advised him of the illegal dumping. There was an unknown amount of produced water that had been dumped on the pasture. | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | and Cleanu | | | | | | | | | | |
| Devon Security was called out to location and is investigating the situation. | | | | | | | | | | | | |
| I hereby certi | fy that the i | nformation gi | ven above | is true and comp | lete to the | he best of my | knowledge and u | inderstand that put | suant to NM | IOCD I | ules and | |
| | | | | | | | | ctive actions for re | | | | |
| public health | or the environment | ronment. The | acceptance | te of a C-141 repo | ort by the | e NMOCD m | arked as "Final R | teport" does not re reat to ground wate | lieve the ope | erator o | f liability man boalth | |
| | | | | | | | | | | | | |
| or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | | | | | | | | | | | | |
| | | | | | | OIL CONSERVATION DIVISION | | | | | | |
| Signature: Corína Moya | | | | | | | | | | | | |
| Printed Name: Corina Moya | | | | | | Approved by Environmental Specialist: | | | | | | |
| Title: Field Admin Support | | | | | | Approval Date: Expiration Date: | | | | | | |
| | | | | | | | | | | | | |
| E-mail Address: corina.moya@dvn.com | | | | | | Conditions o | Approval: | | Attached 🔲 | | | |
| Date: 9 | .2.2015 | Pho | ne: 575.74 | 6.5559 | | | | | | | | |

* Attach Additional Sheets If Necessary



























Appendix B

Photographs



Altbeir 10 State 1H Site Location



Altbeir Site Prior to Remediation Viewing West, November 1, 2017



Altbeir Site Prior to Remediation Viewing North, November 1, 2017



Altbeir Site Prior to Remediation Viewing East, November 1, 2017



Altbeir Site Prior to Remediation Viewing South, November 1, 2017



Dopplebock 8 State Com 1H Site Location



Dopplebock Site Prior to Remediation Viewing North, November 1, 2017



Dopplebock Site Prior to Remediation Viewing Northwest, November 1, 2017



Dopplebock Site Prior to Remediation Viewing South, November 1, 2017



Dunkel 7 State 1H Prior to Remediation viewing North, November 1, 2017



Guadacanal State Com 1H Site Locaation



Guadacanal Site Viewing South, November 6, 2017



Guadacanal Site Prior to Remediation Viewing North, November 6, 2017



Guadacanal Site Prior to Remediation Viewing South, November 6, 2017