R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

December 13, 2019
REVISED January 22, 2020

Susan Lucas Kamat, Environmental Scientist
OCD Environmental Bureau
1220 South St. Francis Drive
Santa Fe, NM 87505
ONLINE SUBMISSION

RE: Temporary Pit Closure Report,
Devon Energy – North Thistle 3-34 State Com 006H (Cuttings from 004H, 005H and 006H)

Dear Ms. Lucas Kamat,

On behalf of Devon Energy Production Co., R.T. Hicks Consultants submits this closure report for the above-referenced temporary pit in accordance with the approved C-144 closure plan and conditions of approval. This report includes the following information listed in Part 21 of the C-144 form:

Requirements	Location in this Submission
Proof of Closure Notice (to surface owner and Division)	Attachment 1
Proof of Deed Notice (on-site closure on private land only)	Not applicable; State Land (no deed)
Plot Plan, C-105 form (for on-site closures and temporary pits)	Attachment 2
Confirmation Sampling Analytical Results	Not applicable
Waste Material Sampling Analytical Results (required for on-site closure)	Attachment 3 (also submitted with closure notice)
Disposal Facility Name and Permit Number	Not applicable; on-site closure
Soil Backfilling and Cover Installation	Attachment 4
Re-vegetation Application Rates and Seeding Technique	Re-vegetation will be part of site reclamation after plugging and abandonment (interim reclamation approved with initial permit application).
Site Reclamation (photo documentation)	To follow after plugging and site reclamation
Updated C-144 form	Attachment 5

Please contact me if you have any questions.

Sincerely,
R.T. Hicks Consultants

Randall Hicks
Principal

Copy: NM State Land Office, Devon Energy (*VIA EMAIL)*

Attachment 1

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Since 1996
Artesia ▲ Carlsbad ▲ Durango ▲ Midland

August 11, 2019

Mr. Rick Rickman
Mr. Jim Griswold
NMOCD District 1
1625 French Drive
Hobbs, NM 88240
VIA EMAIL

RE: Devon Energy Temporary Pit Closure Notice North Thistle 3-34 State Com 004H

Dear Mr. Rickman and Mr. Griswold:

On behalf of Devon Energy., R. T. Hicks Consultants provides this notice to NMOCD with a copy to the State Land Office (email return receipt in lieu of US Mail) that closure operations at the above-referenced pit will begin **Wednesday August 14, 2019**. The closure process should be complete about August 28.

The temporary pit that was permitted as being associated with the North Thistle 3-34 State Com 004H (See Figure 1) received solids from:

North Thistle Unit 004H	30-025-45073	surface to TD (19910)
North Thistle Unit 005H	30-025-45074	surface to TD (19914)
North Thistle Unit 006H	30-025-45075	surface to TD (19843)

The C-144 that will be attached to the closure report will also provide this updated information. The "In-place Burial" closure plan for the pit was approved by NMOCD on October 11, 2018 and the permit application and approval are on the OCD website.

An excavator collected samples of cuttings from 5 locations and the composite shown on Figure 2. The laboratory reports of the cuttings samples are presented in Attachment A and Table 1 summarizes the results. Please note that the chain of custody was labeled as North Thistle 3-34 State Com 6H.

Sampling Results North Thistle 3-34 State Com 006H in mg/kg

Name	Chloride	DRO	MRO	GRO	Benzene	Toluene	Ethylbenzene	Xylenes	GRO+DRO	TPH	BTEX
1	42,400	101.0	10.0	123.0	4.0	34.6	12.2	40.9	224.0	234.0	91.7
2	424,000	40.2	10.0	53.4	0.2	1.9	0.8	2.7	93.6	103.6	5.5
3	4,280	141.0	10.0	387.0	19.1	74.4	26.2	106.0	528.0	538.0	225.7
4	12,700	855.0	144.0	194.0	1.1	5.9	2.7	9.2	100.0	244.0	18.9
5	11,100	1280.0	165.0	329.0	1.1	5.8	2.3	7.5	195.0	360.0	16.7
6	19,600	2220.0	384.0	666.0	5.2	31.2	10.0	32.3	2886.0	3270.0	78.7
Average Cuttings	85,680	772.9	120.5	292.1	5.1	25.6	9.0	33.1	671.1	791.6	72.9
7 (composite) Mixing Dirt	48.00	10.00	10.00	10.00	0.05	0.05	0.05	0.15	20.00	30.00	0.30
3 Parts Mixing + 1 Part Cuttings	**21,456**				**1.31**				**183**	**220**	**18**
Burial Standard	80,000				10				1,000	2,500	50

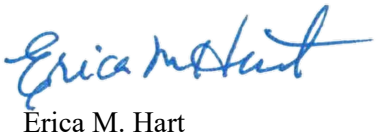
**MRO range (<C28-C35) - depicted as EXT DRO >C28-C36*
***When results were less than the reporting limit, the reporting limit was used.*

With the exception of BTEX and chlorides, laboratory analysis of cuttings sample meets in-place closure target concentrations found in Table II of 19.15.17.13 NMAC without mixing with 3 parts clean fill. After mixing with 3 parts non-waste material, the GRO+DRO concentration is 183 mg/kg.

Closure activities require excavating the side slopes of the pit and using the underlying caliche for stabilization of the cuttings. The cuttings will also be mixed with dry material from beneath the pit liner as necessary. The closure process will follow the submitted plan.

Thank you for your consideration of this notice of in-place closure.

Sincerely,
R.T. Hicks Consultants



Erica M. Hart
Geologist

Copy: Devon Energy
Ryan Mann, SLO via email

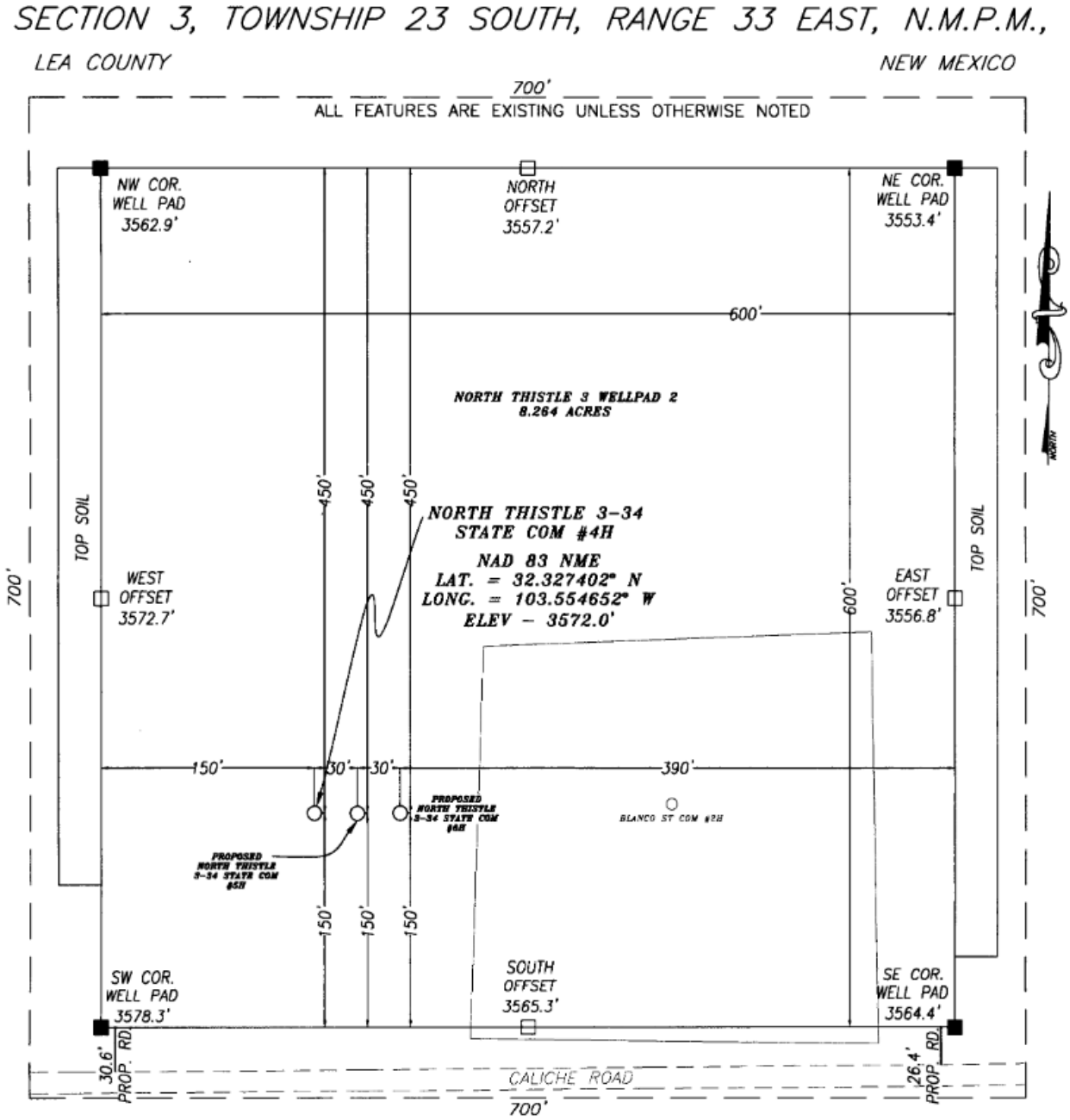


Figure 1 – Map showing wells associated with North Thistle 3-34 State Com 004H pit.

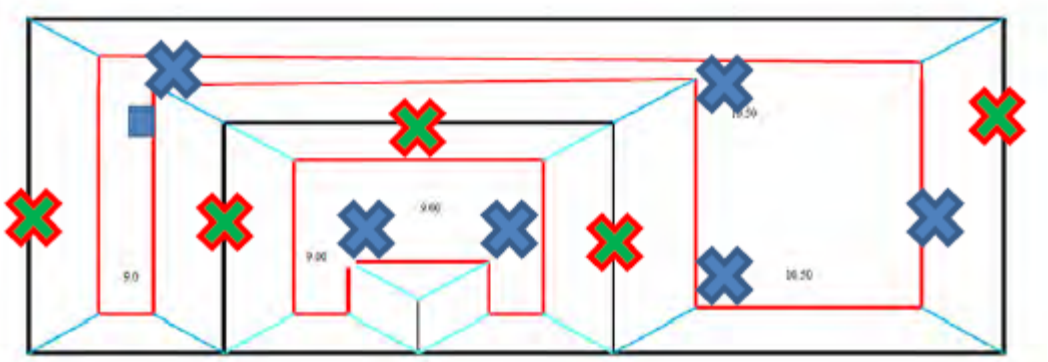


Image shows typical discrete pit sample locations (blue X) and the sub-sample locations for the "mixing dirt" (green X) composite sample to determine compliance with Table II.

Figure 2 – Sample locations for North Thistle 3-34 State Com 004H pit.

Attachment 2

Submit To Appropriate District Office
Two Copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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-105
Revised April 3, 2017

1. WELL API NO.
30-025-45075 (45073, 45074)

2. Type of Lease
[x] STATE [ ] FEE [ ] FED/INDIAN

3. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:

[ ] **COMPLETION REPORT** (Fill in boxes #1 through #31 for State and Fee wells only)

[x] **C-144 CLOSURE ATTACHMENT** (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)

5. Lease Name or Unit Agreement Name
North Thistle 3-34 State Com

6. Well Number:
006H (+cuttings from 004H, 005H)

7. Type of Completion:
[x] NEW WELL [ ] WORKOVER [ ] DEEPENING [ ] PLUGBACK [ ] DIFFERENT RESERVOIR [ ] OTHER

8. Name of Operator
Devon Energy Production Company, LP

9. OGRID
6137

10. Address of Operator

11. Pool name or Wildcat

12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:										
BH:										

13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released	16. Date Completed (Ready to Produce)	17. Elevations (DF and RKB, RT, GR, etc.)
		11/29/18	5/8/19	

18. Total Measured Depth of Well	19. Plug Back Measured Depth	20. Was Directional Survey Made?	21. Type Electric and Other Logs Run

22. Producing Interval(s), of this completion - Top, Bottom, Name

23. **CASING RECORD** (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

28. **PRODUCTION**

Date First Production	Production Method *(Flowing, gas lift, pumping - Size and type pump)*	Well Status *(Prod. or Shut-in)*

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - *(Corr.)*

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*

30. Test Witnessed By

31. List Attachments

32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit. see attached

33. Rig Release Date:

34. If an on-site burial was used at the well, report the exact location of the on-site burial:

Latitude 32.327672 Longitude -103.554092 NAD83

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Erica Hart Printed Name Erica Hart Title Project Geologist Agent for Devon Date 12/13/2019

E-mail Address erica@rthicksconsult.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy____	T. Canyon____	T. Ojo Alamo____	T. Penn A"____
T. Salt____	T. Strawn____	T. Kirtland ____	T. Penn. "B"____
B. Salt____	T. Atoka____	T. Fruitland____	T. Penn. "C"____
T. Yates____	T. Miss____	T. Pictured Cliffs____	T. Penn. "D"____
T. 7 Rivers____	T. Devonian____	T. Cliff House____	T. Leadville____
T. Queen____	T. Silurian____	T. Menefee____	T. Madison____
T. Grayburg____	T. Montoya____	T. Point Lookout____	T. Elbert____
T. San Andres____	T. Simpson____	T. Mancos____	T. McCracken____
T. Glorieta____	T. McKee____	T. Gallup____	T. Ignacio Otzte____
T. Paddock____	T. Ellenburger____	Base Greenhorn____	T.Granite ____
T. Blinebry____	T. Gr. Wash____	T. Dakota____	
T.Tubb____	T. Delaware Sand____	T. Morrison____	
T. Drinkard____	T. Bone Springs____	T.Todilto____	
T. Abo____	T.____	T. Entrada____	
T. Wolfcamp____	T.____	T. Wingate____	
T. Penn____	T.____	T. Chinle____	
T. Cisco (Bough C)____	T.____	T. Permian____	

OIL OR GAS SANDS OR ZONES

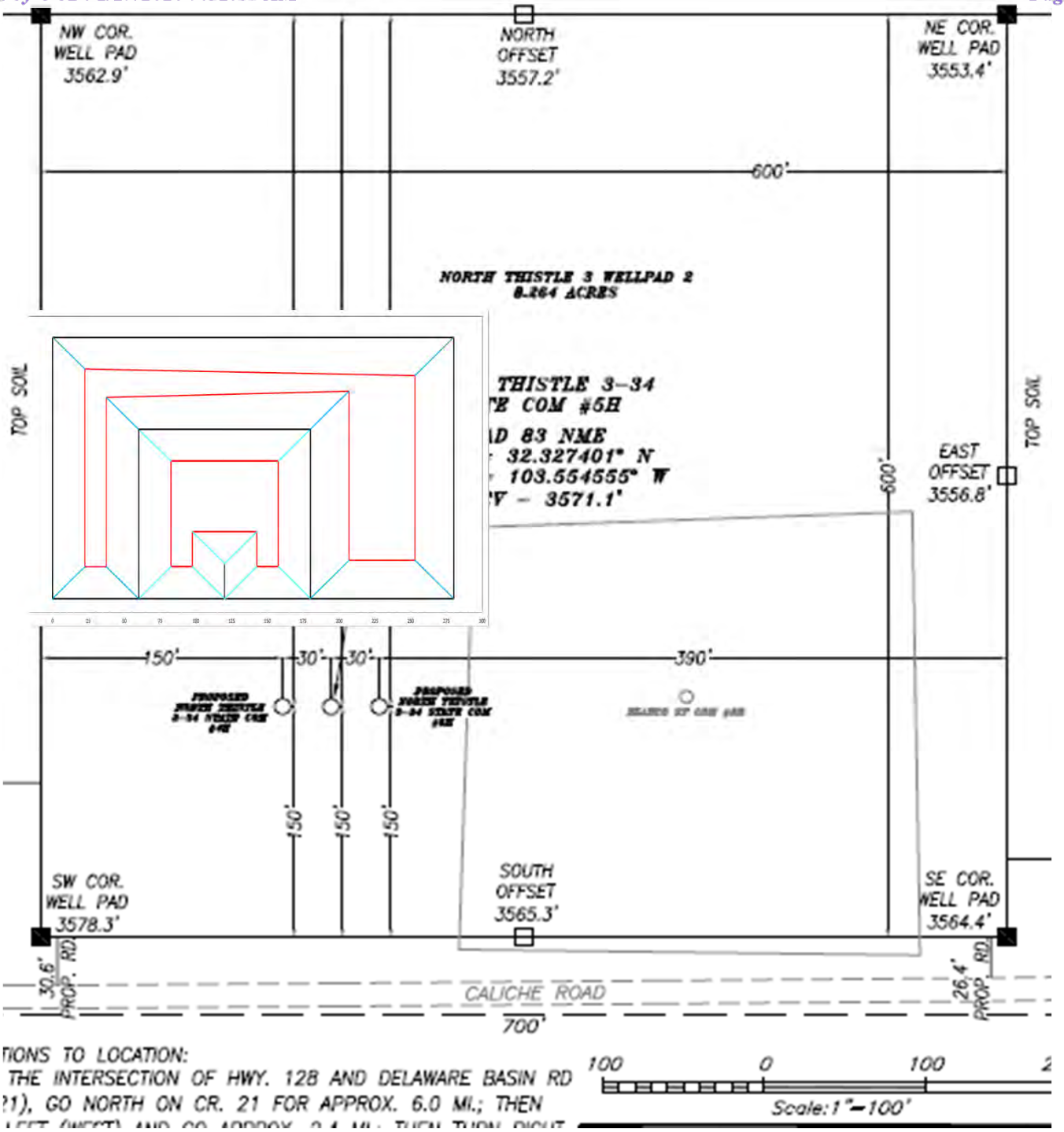
No. 1, from……………………to………………………… No. 3, from……………………to…………………………
No. 2, from……………………to………………………… No. 4, from……………………to…………………………

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.
No. 1, from………………………………to……………………………………feet……………………………………
No. 2, from………………………………to……………………………………feet……………………………………
No. 3, from………………………………to……………………………………feet……………………………………

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology		From	To	Thickness In Feet	Lithology



- Black Lines are on the ground surface.
- Red Lines are on the Pit Floors.
- The Blue Contour Lines are at a depth of 4 feet in both pits.

R.T. Hicks Consultants 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, N. M. 87104	**Drawing of Temporary Pit and Well in Relation to Pad Boundary**	**Plate 2**
	Devon North Thistle 3-34 St. 5H (+6H, 7H)	**August 2018**

Attachment 3

Sampling Results North Thistle 3-24 State Com 006H in mg/kg											
Name	**Chloride**	**DRO**	**MRO**	**GRO**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylenes**	**GRO+DRO**	**TPH**	**BTEX**
1	42,400	101.0	10.0	123.0	4.0	34.6	12.2	40.9	224.0	234.0	91.7
2	424,000	40.2	10.0	53.4	0.2	1.9	0.8	2.7	93.6	103.6	5.5
3	4,280	141.0	10.0	387.0	19.1	74.4	26.2	106.0	528.0	538.0	225.7
4	12,700	855.0	144.0	194.0	1.1	5.9	2.7	9.2	100.0	244.0	18.9
5	11,100	1280.0	165.0	329.0	1.1	5.8	2.3	7.5	195.0	360.0	16.7
6	19,600	2220.0	384.0	666.0	5.2	31.2	10.0	32.3	2886.0	3270.0	78.7
Average Cuttings	85,680	772.9	120.5	292.1	5.1	25.6	9.0	33.1	671.1	791.6	72.9
7 (composite) Mixing Dirt	48.00	10.00	10.00	10.00	0.05	0.05	0.05	0.15	20.00	30.00	0.30
3 Parts Mixing + 1 Part Cuttings	**21,456**				**1.31**				**183**	**220**	**18**
Burial Standard	80,000				10				1,000	2,500	50

**MRO range (<C28-C35) - depicted as EXT DRO >C28-C36*

***When results were less than the reporting limit, the reporting limit was used.*

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 25, 2019

ERICA HART

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: NORTH THISTLE 3-34 STATE COM 6H

Enclosed are the results of analyses for samples received by the laboratory on 06/20/19 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
ERICA HART
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received:	06/20/2019	Sampling Date:	06/20/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	NORTH THISTLE 3-34 STATE COM 6H	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: 3 - 34 SC 6H - 1 (H902133-01)

BTEX 8021B mg/kg **Analyzed By: BF**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**3.96**	0.500	06/21/2019	ND	1.84	91.9	2.00	0.295	QR-03
Toluene*	**34.6**	0.500	06/21/2019	ND	1.82	90.9	2.00	0.0225	QM-07
Ethylbenzene*	**12.2**	0.500	06/21/2019	ND	1.75	87.4	2.00	0.874	QM-07
Total Xylenes*	**40.9**	1.50	06/21/2019	ND	5.33	88.9	6.00	1.03	QM-07
Total BTEX	**91.7**	3.00	06/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *125 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**42400**	16.0	06/21/2019	ND	416	104	400	3.92	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**123**	10.0	06/22/2019	ND	235	117	200	5.36	
DRO >C10-C28*	**101**	10.0	06/22/2019	ND	200	100	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	06/22/2019	ND					

Surrogate: 1-Chlorooctane *114 %* *41-142*

Surrogate: 1-Chlorooctadecane *102 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
ERICA HART
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received:	06/20/2019	Sampling Date:	06/20/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	NORTH THISTLE 3-34 STATE COM 6H	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: 3 - 34 SC 6H - 2 (H902133-02)

BTEX 8021B mg/kg Analyzed By: BF

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.175**	0.050	06/21/2019	ND	1.84	91.9	2.00	0.295	
Toluene*	**1.90**	0.050	06/21/2019	ND	1.82	90.9	2.00	0.0225	
Ethylbenzene*	**0.803**	0.050	06/21/2019	ND	1.75	87.4	2.00	0.874	
Total Xylenes*	**2.67**	0.150	06/21/2019	ND	5.33	88.9	6.00	1.03	
Total BTEX	**5.54**	0.300	06/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *119 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**424000**	16.0	06/21/2019	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**53.4**	10.0	06/22/2019	ND	235	117	200	5.36	
DRO >C10-C28*	**40.2**	10.0	06/22/2019	ND	200	100	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	06/22/2019	ND					

Surrogate: 1-Chlorooctane *114 %* *41-142*

Surrogate: 1-Chlorooctadecane *103 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
ERICA HART
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received:	06/20/2019	Sampling Date:	06/20/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	NORTH THISTLE 3-34 STATE COM 6H	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: 3 - 34 SC 6H - 3 (H902133-03)

BTEX 8021B mg/kg **Analyzed By: BF**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**19.1**	0.500	06/21/2019	ND	1.84	91.9	2.00	0.295	
Toluene*	**74.4**	0.500	06/21/2019	ND	1.82	90.9	2.00	0.0225	
Ethylbenzene*	**26.2**	0.500	06/21/2019	ND	1.75	87.4	2.00	0.874	
Total Xylenes*	**106**	1.50	06/21/2019	ND	5.33	88.9	6.00	1.03	
Total BTEX	**226**	3.00	06/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4280**	16.0	06/21/2019	ND	416	104	400	3.92	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**387**	10.0	06/22/2019	ND	235	117	200	5.36	
DRO >C10-C28*	**141**	10.0	06/22/2019	ND	200	100	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	06/22/2019	ND					

Surrogate: 1-Chlorooctane *125 %* *41-142*

Surrogate: 1-Chlorooctadecane *102 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
ERICA HART
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received:	06/20/2019	Sampling Date:	06/20/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	NORTH THISTLE 3-34 STATE COM 6H	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: 3 - 34 SC 6H - 4 (H902133-04)

BTEX 8021B mg/kg **Analyzed By: BF**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**1.12**	0.050	06/21/2019	ND	1.84	91.9	2.00	0.295	
Toluene*	**5.89**	0.050	06/21/2019	ND	1.82	90.9	2.00	0.0225	
Ethylbenzene*	**2.72**	0.050	06/21/2019	ND	1.75	87.4	2.00	0.874	
Total Xylenes*	**9.17**	0.150	06/21/2019	ND	5.33	88.9	6.00	1.03	
Total BTEX	**18.9**	0.300	06/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *120 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**12700**	16.0	06/21/2019	ND	416	104	400	3.92	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**194**	10.0	06/22/2019	ND	235	117	200	5.36	
DRO >C10-C28*	**855**	10.0	06/22/2019	ND	200	100	200	1.50	
EXT DRO >C28-C36	**144**	10.0	06/22/2019	ND					

Surrogate: 1-Chlorooctane *123 %* *41-142*

Surrogate: 1-Chlorooctadecane *101 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
ERICA HART
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received:	06/20/2019	Sampling Date:	06/20/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	NORTH THISTLE 3-34 STATE COM 6H	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: 3 - 34 SC 6H - 5 (H902133-05)

BTEX 8021B mg/kg Analyzed By: BF

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**1.08**	0.050	06/21/2019	ND	1.84	91.9	2.00	0.295	
Toluene*	**5.80**	0.050	06/21/2019	ND	1.82	90.9	2.00	0.0225	
Ethylbenzene*	**2.32**	0.050	06/21/2019	ND	1.75	87.4	2.00	0.874	
Total Xylenes*	**7.45**	0.150	06/21/2019	ND	5.33	88.9	6.00	1.03	
Total BTEX	**16.7**	0.300	06/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *120 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**11100**	16.0	06/21/2019	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**329**	10.0	06/22/2019	ND	235	117	200	5.36	
DRO >C10-C28*	**1280**	10.0	06/22/2019	ND	200	100	200	1.50	
EXT DRO >C28-C36	**165**	10.0	06/22/2019	ND					

Surrogate: 1-Chlorooctane *147 %* *41-142*

Surrogate: 1-Chlorooctadecane *114 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
ERICA HART
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received:	06/20/2019	Sampling Date:	06/20/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	NORTH THISTLE 3-34 STATE COM 6H	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: 3 - 34 SC 6H - 6 (H902133-06)

BTEX 8021B mg/kg Analyzed By: BF

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**5.22**	0.200	06/21/2019	ND	1.84	91.9	2.00	0.295	
Toluene*	**31.2**	0.200	06/21/2019	ND	1.82	90.9	2.00	0.0225	
Ethylbenzene*	**10.0**	0.200	06/21/2019	ND	1.75	87.4	2.00	0.874	
Total Xylenes*	**32.3**	0.600	06/21/2019	ND	5.33	88.9	6.00	1.03	
Total BTEX	**78.8**	1.20	06/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**19600**	16.0	06/21/2019	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**666**	10.0	06/22/2019	ND	235	117	200	5.36	
DRO >C10-C28*	**2220**	10.0	06/22/2019	ND	200	100	200	1.50	
EXT DRO >C28-C36	**384**	10.0	06/22/2019	ND					

Surrogate: 1-Chlorooctane *171 %* *41-142*

Surrogate: 1-Chlorooctadecane *164 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

R T HICKS CONSULTANTS
ERICA HART
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received:	06/20/2019	Sampling Date:	06/20/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	NORTH THISTLE 3-34 STATE COM 6H	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: 3 - 34 SC 6H - 7 (H902133-07)

BTEX 8021B mg/kg **Analyzed By: BF**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2019	ND	1.84	91.9	2.00	0.295	
Toluene*	<0.050	0.050	06/21/2019	ND	1.82	90.9	2.00	0.0225	
Ethylbenzene*	<0.050	0.050	06/21/2019	ND	1.75	87.4	2.00	0.874	
Total Xylenes*	<0.150	0.150	06/21/2019	ND	5.33	88.9	6.00	1.03	
Total BTEX	<0.300	0.300	06/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	06/21/2019	ND	416	104	400	3.92	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2019	ND	235	117	200	5.36	
DRO >C10-C28*	<10.0	10.0	06/22/2019	ND	200	100	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	06/22/2019	ND					

Surrogate: 1-Chlorooctane *86.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *84.5 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	RT Hicks Consultants
Project Manager:	Erica Hart
Address:	on file
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	North Thistle 3-34 State Com 6H
Project Location:	Lea County, NM
Sampler Name:	EMH

BILL TO

P.O. #:	
Company:	RT Hicks Cons
Attn:	Randy Hicks
Address:	on file
City:	
State: Zip:	
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Chlorides	BT EX	MRO	GRO	DRO
H902133-1	3-34 SC 6H-1		1										6/20/19	12:05	✓	✓	✓	✓	✓
2	3-34 SC 6H-2		1										6/20/19	12:15					
3	3-34 SC 6H-3		1										6/20/19	12:25					
4	3-34 SC 6H-4		1										6/20/19	12:35					
5	3-34 SC 6H-5		1										6/20/19	12:45					
6	3-34 SC 6H-6		1										6/20/19	12:50					
7	3-34 SC 6H-7		2										6/20/19	12:55					

Relinquished By: Erica Hart	Date: 6/20/19 Time: 2:30 pm	Received By: Tamara Oldaker	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 13.8° #97	Sample Condition Cool: ☐ Yes ☒ No Intact: ☒ Yes ☐ No	CHECKED BY: (Initials) T.O.	REMARKS:

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Attachment 4

SOIL BACKFILLING & COVER INSTALLATION

In accordance with the requirements listed in paragraph D of 19.15.17.13 NMAC and the conditions of approval, the operator employed the following steps for in-place burial of the waste material from the temporary pit:

1. The 006H temporary pit C-144 application was approved by NMOCD to accept cuttings from the drilling of the entirety of three wells (004H, 005H and 006H). Refer to the Notice of Closure for API numbers and specific intervals of each well associated with this pit.

2. Samples from the contents of the pit were recovered on June 20, 2019. The samples were analyzed for Chloride, TPH, GRO+DRO, Benzene, and BTEX at Cardinal Laboratories in Hobbs, New Mexico. As noted in the subsequent closure notice and Attachment 3 of this report, the cuttings/mixing dirt ratio meet the concentration limits of the parameters listed in Table II of the Pit Rule.

3. A closure notice was submitted to the NMOCD and to the State Land Office (via email) on August 11, 2019.

4. On August 15, 2019, closure activities commenced with the mixing of the cuttings and sloping of the material so that the overlying liner will shed infiltrating fluids.

5. On August 22, 2019, Hicks Consultants confirmed that the mixed cuttings passed a paint filter test and were located at least 4 feet below surrounding grade for the east and south half of the site.

6. Following inspection, having achieved all applicable requirements associated with in-place burial, a geomembrane liner was installed to completely cover the stabilized cuttings on September 13, 2019.

7. Clean backfill material was placed on the geomembrane liner to hold it in place.

8. Equipment operators returned to the pit and completed the placing backfill on October 15, 2019. The soil cover consists of at least four feet of compacted, non-waste containing, earthen material. The topsoil is reserved on location for final reclamation. Alternative to re-vegetation and re-contouring (interim reclamation) was approved with permit application, requesting the surface be completed as part of the production pad serving several wells, consisting of a compacted caliche surface. Final restoration is to be completed at the time of plugging and abandonment as described in subsection H of 19.15.17.13 NMAC.

Closure Letter Attachment 4
Devon – North Thistle 3-34 State Com 006H Cuttings Pit

Figure 1 - Mixing (8/22/19)

Figure 2 - Depth below surface is 4 feet.

Figure 3 - Mixing Operations (8/22/19)

Figure 4 - Liner was placed (9/13/19)

Closure Letter Attachment 4
Devon – North Thistle 3-34 State Com 006H Cuttings Pit

Figure 5 - Soil was placed over liner to hold in place.

Attachment 5

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

Form C-144
Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action:
- ☐ Below grade tank registration
- ☒ Permit of a pit or proposed alternative method
- ☒ Closure of a pit, below-grade tank, or proposed alternative method
- ☐ Modification to an existing permit/or registration
- ☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: Devon Energy Production Company, LP. OGRID #: 6137
Address: 333 W. Sheridan, Oklahoma City, OK 73102-8260
Facility or well name: North Thistle 3-34 State COM 5H (pit will be used for wells 4H, 5H, 6H)
API Number: 30-025-45073 (4H), 30-025-45074 (5H), 30-025-45075 (6H) OCD Permit Number:
U/L or Qtr/Qtr P Section 3 Township 23S Range 33E County: Lea
~~Center of~~ Proposed Design is within 90 feet of: Latitude 32.327401 Longitude -103.554555 NAD: ☐1927 ☒ 1983
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☒ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☒ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☒ no
☒ Lined ☐ Unlined Liner type: Thickness 20 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other
☒ String-Reinforced
Liner Seams: ☒ Welded ☐ Factory ☐ Other Volume: See Plate 1 Dimensions: See Plate 1

3.
☐ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: bbl Type of fluid:
Tank Construction material:
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thickness mil ☐ HDPE ☐ PVC ☐ Other

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC *(Applies to permanent pits, temporary pits, and below-grade tanks)*
☐ Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*
☒ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☐ Alternate. Please specify

6.
Netting: Subsection E of 19.15.17.11 NMAC *(Applies to permanent pits and permanent open top tanks)*

☐ Screen ☐ Netting ☐ Other_____

☐ Monthly inspections (If netting or screening is not physically feasible)

7.
Signs: Subsection C of 19.15.17.11 NMAC

☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☒ Signed in compliance with 19.15.16.8 NMAC

8.
Variances and Exceptions:
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

☒ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

All proposed variances have been previously-approved by OCD.

9.
Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. **Siting criteria does not apply to drying pads or above-grade tanks.**

General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells	☐ Yes ☐ No ☒ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit . NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells **See Figures 1 & 2**	☐ Yes ☒ No ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. **(Does not apply to below grade tanks) See Figure 3** - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☒ No
Within the area overlying a subsurface mine. **(Does not apply to below grade tanks) See Figure 4** - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No
Within an unstable area. **(Does not apply to below grade tanks) See Figure 5** - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☒ No
Within a 100-year floodplain. **(Does not apply to below grade tanks) See Figure 6** - FEMA map	☐ Yes ☒ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). **See Figure 7** - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image. **See Figure 8**	☐ Yes ☒ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site **See Figures 1 & 2**	☐ Yes ☒ No
Within 300 feet of a wetland. **See Figure 9** - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

10.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☒ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
☒ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☒ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☒ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

11.

Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ A List of wells with approved application for permit to drill associated with the pit.
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H_2S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13.
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type: ☒ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Multi-well Fluid Management Pit ☐ Alternative

Proposed Closure Method:
- ☐ Waste Excavation and Removal
- ☐ Waste Removal (Closed-loop systems only)
- ☒ On-site Closure Method (Only for temporary pits and closed-loop systems)
  - ☒ In-place Burial ☐ On-site Trench Burial
- ☐ Alternative Closure Method

14.
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☒ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☒ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☒ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☒ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☒ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☒ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☒ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☒ No

16.
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☒ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☒ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- ☒ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☒ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☒ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☒ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- ☒ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.
Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Jamison Hart Title: Drilling Engineer

Signature: [signature] Date: 9-18-18

e-mail address: Jamison.Hart@dvn.com Telephone: 405-228-8370

18.
OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

XX

OCD Representative Signature: [signature] **Approval Date:** 11Oct18

Title: Hydrologist **OCD Permit Number:** variances approved

19.
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☐ **Closure Completion Date:**

20.
Closure Method:

☐ Waste Excavation and Removal ☒ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)

☐ If different from approved plan, please explain.

21.
Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.***

- ☒ Proof of Closure Notice (surface owner and division)
- ☐ Proof of Deed Notice (required for on-site closure for private land only) n/a; State Land
- ☒ Plot Plan (for on-site closures and temporary pits)
- ☐ Confirmation Sampling Analytical Results (if applicable) n/a; in-place burial
- ☒ Waste Material Sampling Analytical Results (required for on-site closure)
- ☐ Disposal Facility Name and Permit Number n/a; in-place burial
- ☒ Soil Backfilling and Cover Installation
- ☐ Re-vegetation Application Rates and Seeding Technique to follow upon approval of abandonment request
- ☐ Site Reclamation (Photo Documentation) to follow upon approval of abandonment request

On-site Closure Location: Latitude 32.327672 Longitude -103.554092 NAD: ☐ 1927 ☒ 1983

22.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Erica Hart Title: Project Geologist; Consultant for Devon Energy

Signature: Erica Hart Date: 12/13/19

e-mail address: erica@rthicksconsult.com Telephone: 575-704-2526

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 3617

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 3617
	Action Type: [C-144] PIT Generic Plan (C-144)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	NMOCD has reviewed the Closure Report for the Temporary Pit associated with the NORTH THISTLE 3 34 STATE COM #006H API# 30-025-45075 received from R.T. Hicks Consultants on behalf of DEVON ENERGY PRODUCTION COMPANY, LP [6137] on 01/29/2020. The Closure Report is approved.	10/18/2021