



FESCO, Ltd.
1100 Fesco Ave. - Alice, Texas 78332

For: Ameredev Operating, LLC
2901 Via Fortuna
Austin, Texas 78746

Sample: Amen Corner CTB

Sales Meter Run
Spot Gas Sample @ 48 psig & 55°F

Date Sampled: 03/04/2023

Job Number: 231592.031

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

COMPONENT	Un-Normalized		
	Mol%	MOL%	GPM
Hydrogen Sulfide*		1.000	
Nitrogen	1.054	1.047	
Carbon Dioxide	2.616	2.601	
Methane	79.480	79.008	
Ethane	7.489	7.444	2.038
Propane	4.238	4.212	1.188
Isobutane	1.087	1.081	0.362
n-Butane	1.691	1.681	0.542
2-2 Dimethylpropane	0.017	0.017	0.007
Isopentane	0.701	0.697	0.261
n-Pentane	0.463	0.460	0.171
Hexanes	0.387	0.379	0.160
Heptanes Plus	<u>0.373</u>	<u>0.373</u>	<u>0.156</u>
	99.596	100.000	4.885

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity ----- 3.370 (Air=1)
Molecular Weight ----- 97.25
Gross Heating Value ----- 5245 BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity ----- 0.752 (Air=1)
Compressibility (Z) ----- 0.9963
Molecular Weight ----- 21.69
Gross Heating Value
Dry Basis ----- 1248 BTU/CF
Saturated Basis ----- 1227 BTU/CF

*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)
628.9 Gr/100 CF, 10000 PPMV or 1.000 Mol %

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (24) D. Field
Analyst: LG
Processor: HB
Cylinder ID: T-3890

Certified: FESCO, Ltd. - Alice, Texas

Conan Pierce 361-661-7015

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286
TOTAL REPORT

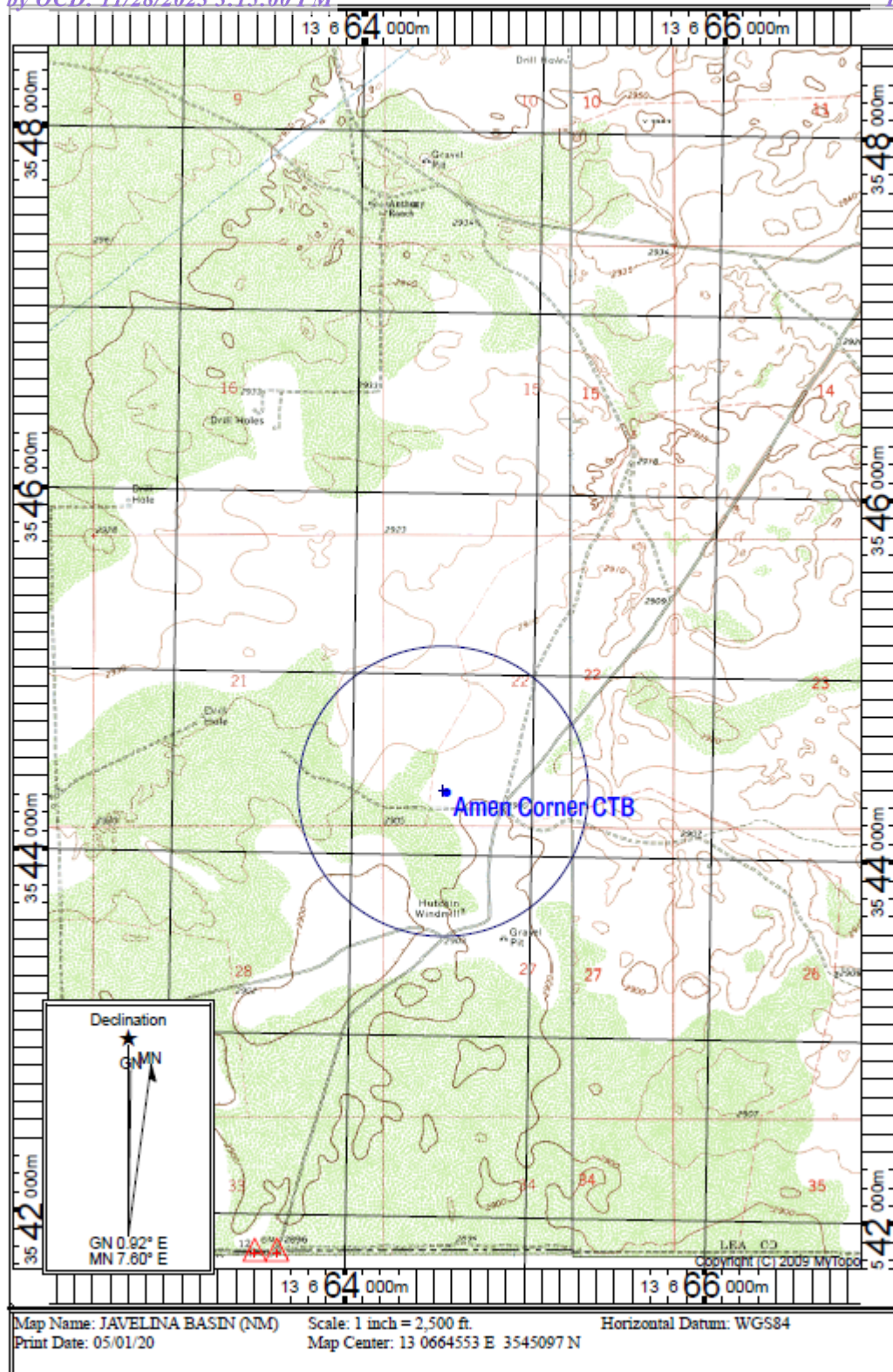
COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	1.000		1.571
Nitrogen	1.047		1.352
Carbon Dioxide	2.601		5.277
Methane	79.008		58.432
Ethane	7.444	2.038	10.319
Propane	4.212	1.188	8.563
Isobutane	1.081	0.362	2.897
n-Butane	1.681	0.542	4.504
2,2 Dimethylpropane	0.017	0.007	0.057
Isopentane	0.697	0.261	2.318
n-Pentane	0.460	0.171	1.530
2,2 Dimethylbutane	0.016	0.007	0.064
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.039	0.016	0.155
2 Methylpentane	0.120	0.051	0.477
3 Methylpentane	0.078	0.033	0.310
n-Hexane	0.126	0.053	0.501
Methylcyclopentane	0.055	0.020	0.213
Benzene	0.010	0.003	0.036
Cyclohexane	0.047	0.016	0.182
2-Methylhexane	0.022	0.010	0.102
3-Methylhexane	0.019	0.009	0.088
2,2,4 Trimethylpentane	0.010	0.005	0.053
Other C7's	0.036	0.016	0.165
n-Heptane	0.030	0.014	0.139
Methylcyclohexane	0.048	0.020	0.217
Toluene	0.024	0.008	0.102
Other C8's	0.040	0.019	0.203
n-Octane	0.007	0.004	0.037
Ethylbenzene	0.001	0.000	0.005
M & P Xylenes	0.009	0.004	0.044
O-Xylene	0.002	0.001	0.010
Other C9's	0.010	0.005	0.058
n-Nonane	0.001	0.001	0.006
Other C10's	0.002	0.001	0.013
n-Decane	0.000	0.000	0.000
Undecanes (11)	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>
Totals	100.000	4.885	100.000

Computed Real Characteristics Of Total Sample:

Specific Gravity -----	0.752	(Air=1)
Compressibility (Z) -----	0.9963	
Molecular Weight -----	21.69	
Gross Heating Value		
Dry Basis -----	1248	BTU/CF
Saturated Basis -----	1227	BTU/CF

Sample Date: 03/04/2023	Ambient Air Temp: 50 °F
Sample Time: 08:45	Heating Method Utilized: Yes
Analysis Date: 03/13/2023	Sampling Method: Fill & Empty
Analysis Time: 06:47	Device: (GC) S10
Sample Pressure: 48 psig	Make & Model: Shimadzu GC 2014
Sample Temp: 55 °F	Last Verification Date: 03/09/2023
Sampling Flow Rate: 2750 MCF/D	

th	Received by OCD: 11/28/2023 3:15:00 PM			Date (C-129 Was Filed)	Date (Flaring Discovered)	Date Flaring Occurred	Location	Flare Source Equipment	Gas Volume (MCF)	Flared or Vented	Start Time of the flare event	End Time of the flare event	Flare Duration (hr)	C129 Filing Reason	Page 3 of 9
	PO #	OCD Incident #	Facility #												
			fAPP2203927141		11/17/2023	11/16/2023	Pinestraw	VRU Discharge	119.34	Flared	12:02 AM	8:15 AM	8.38	Flared more than 8 HRs	We don't have comms with
	NA	NA	NA	NA	11/17/2023	11/16/2023	Red Bud	HP Flare	56.73	Flared	4:27 PM	9:21 PM	1.32	Insufficient Availability	Pinion was shut in so line p
			fAPP2203928043		11/17/2023	11/16/2023	Red Bud	VRU Discharge	134.55	Flared	12:00 AM	4:16 PM	4.95	Oxygen	VAC truck pushed into the
	NA	NA	NA	NA	11/17/2023	11/16/2023	Nan 1.5N	HP Flare	163.33	Flared	3:54 PM	7:42 PM	0.45	Insufficient Availability	Pinion was shut in so line p
			fAPP2203856979		11/18/2023	11/17/2023	Nandina	LP - Vent flare/Blower Flare	77.53	Flared	4:36 AM	8:46 AM	0.23	Repair/Maintenance	Oxygen analyzer was serv
			fAPP2203927141		11/18/2023	11/17/2023	Pinestraw	VRU Discharge	409.05	Flared	2:38 AM	11:48 PM	19.37	Flared more than 8 HRs	Getting large O2 spikes so
			fAPP2203928043		11/18/2023	11/17/2023	Red Bud	VRU Discharge	523.35	Flared	6:13 AM	10:48 PM	11.85	Flared more than 8 HRs	Hila got hit with oxygen, VR
			fAPP2203856979		11/19/2023	11/18/2023	Nandina	LP - Vent flare/Blower Flare	57.58	Flared	1:35 PM	11:52 PM	0.17	Oxygen	O2 tested heater 2 and bro
			fAPP2203856979		11/19/2023	11/18/2023	Nandina	VRU Discharge	196.73	Flared	1:06 PM	11:16 PM	10.95	Flared more than 8 HRs	Hila got hit with oxygen, VR
			fAPP2203927141		11/19/2023	11/18/2023	Pinestraw	VRU Discharge	101.36	Flared	12:00 AM	3:02 AM	2.82	Oxygen	Getting large O2 spikes so
	NA	NA	NA	NA	11/20/2023	11/19/2023	Nandina	LP - Vent flare/Blower Flare	52.08	Flared	12:05 AM	10:56 AM	0.16	Malfunction	Blower Faulted on High Dis
	NA	NA	NA	NA	11/20/2023	11/19/2023	Amen Corner	VRU Discharge	148.01	Flared	12:00 AM	7:24 AM	7.40	Oxygen	O2 issues at Hila, all faciliti
			fAPP2203856979		11/20/2023	11/19/2023	Nandina	VRU Discharge	59.83	Flared	12:03 AM	5:06 AM	3.55	Oxygen	Hila got hit with oxygen, VR
			fAPP2203846035		11/21/2023	11/20/2023	Amen Corner	VRU Discharge	182.35	Flared	12:00 AM	11:33 PM	9.12	Flared more than 8 HRs	O2 issues at Hila, all faciliti
			fAPP2203856979		11/21/2023	11/20/2023	Nandina	VRU Discharge	55.61	Flared	5:48 AM	11:00 AM	5.37	Oxygen	Hila got hit with oxygen, VR
	NA	NA	NA	NA	11/21/2023	11/20/2023	Pinestraw	VRU Discharge	70.07	Flared	5:51 AM	9:15 AM	3.45	Oxygen	Hila got hit with oxygen, VR
			fAPP2203928043		11/21/2023	11/20/2023	Red Bud	VRU Discharge	467.02	Flared	5:52 AM	5:21 PM	11.50	Flared more than 8 HRs	Hila got hit with oxygen, VR
			fAPP2203927141		11/22/2023	11/21/2023	Pinestraw	VRU Discharge	95.61	Flared	11:44 AM	3:55 PM	4.33	Oxygen	Oxygen detected VRUs ser
			fAPP2203846035		11/23/2023	11/22/2023	Amen Corner	VRU Discharge	192.05	Flared			20.95	Flared more than 8 HRs	Getting large O2 spikes so
			fAPP2203928043		11/23/2023	11/22/2023	Red Bud	HP Flare	123.98	Flared			2.63	Insufficient Availability	Facility over pressured, CT
			fAPP2203928043		11/23/2023	11/22/2023	Red Bud	VRU Discharge	80.76	Flared			2.50	Oxygen	Oxygen detected VRUs ser
			fAPP2304126884		11/23/2023	11/22/2023	Nan 1.5N	HP Flare	329.35	Flared			0.62	Insufficient Availability	Pinion was shut in so line p
			fAPP2203846035		11/24/2023	11/23/2023	Amen Corner	VRU Discharge	330.32	Flared			24.00	Flared more than 8 HRs	Getting large O2 spikes so
			fAPP2203856979		11/24/2023	11/23/2023	Nandina	VRU Discharge	372.83	Flared			24.02	Flared more than 8 HRs	Oxygen detected VRUs ser
			fAPP2203927141		11/24/2023	11/23/2023	Pinestraw	VRU Discharge	255.64	Flared			23.77	Flared more than 8 HRs	Oxygen detected VRUs ser
			fAPP2203928043		11/24/2023	11/23/2023	Red Bud	HP Flare	185.38	Flared			4.32	Insufficient Availability	Facility over pressured, CT
			fAPP2203928043		11/24/2023	11/23/2023	Red Bud	VRU Discharge	215.39	Flared			11.70	Flared more than 8 HRs	Oxygen detected VRUs ser
			fAPP2203846035		11/25/2023	11/24/2023	Amen Corner	VRU Discharge	233.29	Flared			23.97	Flared more than 8 HRs	Getting large O2 spikes so
			fAPP2203856979		11/25/2023	11/24/2023	Nandina	VRU Discharge	202.09	Flared			15.02	Flared more than 8 HRs	Oxygen detected VRUs ser
			fAPP2203927141		11/25/2023	11/24/2023	Pinestraw	VRU Discharge	256.61	Flared			24.00	Flared more than 8 HRs	Oxygen detected VRUs ser
			fAPP2203928043		11/25/2023	11/24/2023	Red Bud	VRU Discharge	228.31	Flared			24.02	Flared more than 8 HRs	Oxygen detected VRUs ser
	Released to Imaging: 11/29/2023 3:07:22 PM				11/26/2023	11/25/2023	Amen Corner	VRU Discharge	83.34	Flared			15.62	Flared more than 8 HRs	Getting large O2 spikes so
			fAPP2203856979		11/26/2023	11/25/2023	Nandina	VRU Discharge	474.67	Flared			23.15	Flared more than 8 HRs	Darkhorse caught on VRU



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

DEFINITIONS

Action 289177

DEFINITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 289177
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: • this application's operator, hereinafter "this operator"; • venting and/or flaring, hereinafter "vent or flare"; • any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms"; • the statements in (and/or attached to) this, hereinafter "the statements in this"; • and the past tense will be used in lieu of mixed past/present tense questions and statements.
--

District I1625 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

QUESTIONS

Action 289177

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 289177
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.	
Incident Well	Unavailable.
Incident Facility	[fAPP2203846035] Amen Corner

Determination of Reporting Requirements Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.	
Was this vent or flare caused by an emergency or malfunction	No
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No
Was the vent or flare within an incorporated municipal boundary or within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	79
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (CO2) percentage, if greater than one percent	3
Oxygen (O2) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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

QUESTIONS, Page 2

Action 289177

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 289177
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/14/2023
Time vent or flare was discovered or commenced	01:33 AM
Time vent or flare was terminated	11:42 PM
Cumulative hours during this event	19

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Commissioning to Purge Flow Line - Production Natural Gas Flared Released: 374 Mcf Recovered: 0 Mcf Lost: 374 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	Flare amount is an estimate since the TOPS VRU Meter is not reading correct. The O2 started spiking when the blowers would run. Not certain what caused O2 to get into the tanks since the hatches were not leaking and tanks never got below the blanketing setpoint.
Steps taken to limit the duration and magnitude of vent or flare	Choked back the wells to limit production.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Dedicate more personnel to tackle oxygen issues.

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

ACKNOWLEDGMENTS

Action 289177

ACKNOWLEDGMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 289177
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
☒	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
☒	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
☒	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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 289177

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 289177
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
cescayu	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	11/29/2023