APD ID: 10400031906
Submission Date: 07/05/2018
Operator Name: AMEREDEV OPERATING LLC
Federal/Indian APD: FED
Well Name: NANDINA FED COM 25 36 31
Well Number: 115H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Application

Section 1 - General

APD ID: 10400031906
Tie to previous NOS? 10400030260
Submission Date: 07/05/2018
BLM Office: CARLSBAD
User: Christie Hanna
Title: Senior Engineering Technician
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM137469
Lease Acres: 600.28
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? NO
Federal or Indian agreement:
Agreement number:
Agreement name:
Keep application confidential? NO
Permitting Agent? NO
APD Operator: AMEREDEV OPERATING LLC
Operator letter of designation:

Operator Info

Operator Organization Name: AMEREDEV OPERATING LLC
Operator Address: 5707 Southwest Parkway, Building 1, Suite 275
Zip: 78735
Operator PO Box:
Operator City: Austin
State: TX
Operator Phone: (737)300-4700
Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO
Mater Development Plan name:
Well in Master SUPO? NO
Master SUPO name:
Well in Master Drilling Plan? NO
Master Drilling Plan name:

Operator Name: AMEREDEV OPERATING LLC

Well Name: NANDINA FED COM 25 36 31 **Well Number:** 115H

Well Name: NANDINA FED COM 25 36 31 **Well Number:** 115H **Well API Number:**

Field/Pool or Exploratory? Field and Pool **Field Name:** WC-025 G-09 S263620C **Pool Name:** WOLFCAMP

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Describe other minerals:

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** NO **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** NANDINA **Number:** 115H

Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 6.5 Miles **Distance to nearest well:** 4270 FT **Distance to lease line:** 200 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: NANDINA_FED_COM_25_36_31_115H___EXHIBIT_2A_2B_20180705083610.pdf

NANDINA_FED_COM_25_36_31_115H___VICINITY_MAP_20180705083611.pdf

NANDINA_FED_COM_25_36_31_115H___BLM_LEASES_20180705083605.pdf

NANDINA_FED_COM_25_36_31_115H___C_102_SIG_20180705083606.pdf

NANDINA_FED_COM_25_36_31_115H___GAS_CAPTURE_PLAN_20180705083630.pdf

Well work start Date: 06/01/2019 **Duration:** 90 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: 19642

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	200	FSL	2290	FEL	25S	36E	31	Lot O	32.0801266	-103.3030681	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 137469	3014	0	0

Operator Name: AMEREDEV OPERATING LLC

Well Name: NANDINA FED COM 25 36 31 **Well Number:** 115H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
KOP Leg #1	0	FSL	2172	FEL	25S	36E	31	Aliquot SWSE	32.0795737	-103.3026866	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 137469	-8548	11568	11562
PPP Leg #1	200	FSL	2290	FEL	25S	36E	31	Aliquot SWSE	32.0801266	-103.3030681	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 137469	3014	0	0
PPP Leg #1	0	FSL	2318	FEL	25S	36E	31	Aliquot NWNE	32.0941213	-103.3031658	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 137469	-9121	17188	12135
PPP Leg #1	0	FNL	2318	FEL	25S	36E	30	Aliquot SWSE	32.0941213	-103.3031658	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 137469	-9121	17188	12135
PPP Leg #1	2640	FSL	2318	FEL	25S	36E	31	Aliquot NWSE	32.086836	-103.3031644	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 119762	-9121	14549	12135
PPP Leg #1	1320	FSL	2318	FEL	25S	36E	31	Aliquot SWSE	32.0832078	-103.3031637	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 137469	-9121	13229	12135
PPP Leg #1	1320	FSL	2318	FEL	25S	36E	30	Aliquot SWSE	32.0977168	-103.3031665	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 137469	-9121	18508	12135
PPP Leg #1	1320	FSL	2318	FEL	25S	36E	31	Aliquot NWSE	32.0832078	-103.3031637	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 119762	-9121	13229	12135
PPP Leg #1	2640	FSL	2318	FEL	25S	36E	31	Aliquot SWNE	32.086836	-103.3031644	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 137469	-9121	14549	12135
EXIT Leg #1	1320	FSL	2318	FEL	25S	36E	30	Aliquot NWSE	32.0977168	-103.3031665	LEA	NEW MEXICO	NEW MEXICO	F	FEE	-9121	18508	12135
BHL Leg #1	200	FNL	2318	FEL	25S	36E	30	Aliquot NWNE	32.1080686	-103.3031684	LEA	NEW MEXICO	NEW MEXICO	F	FEE	-9121	22274	12135

Drilling Plan

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[2]Pool Name
30-025-45246	33813	JAL;WOLFCAMP, WEST

[4]Property Code	[5]Property Name	[6]Well Number
322647	NANDINA 25 36 31 FEDERAL COM	115H

[7]OGRID No.	[8]Operator Name	[9]Elevation
372224	AMEREDEV OPERATING, LLC.	3014'

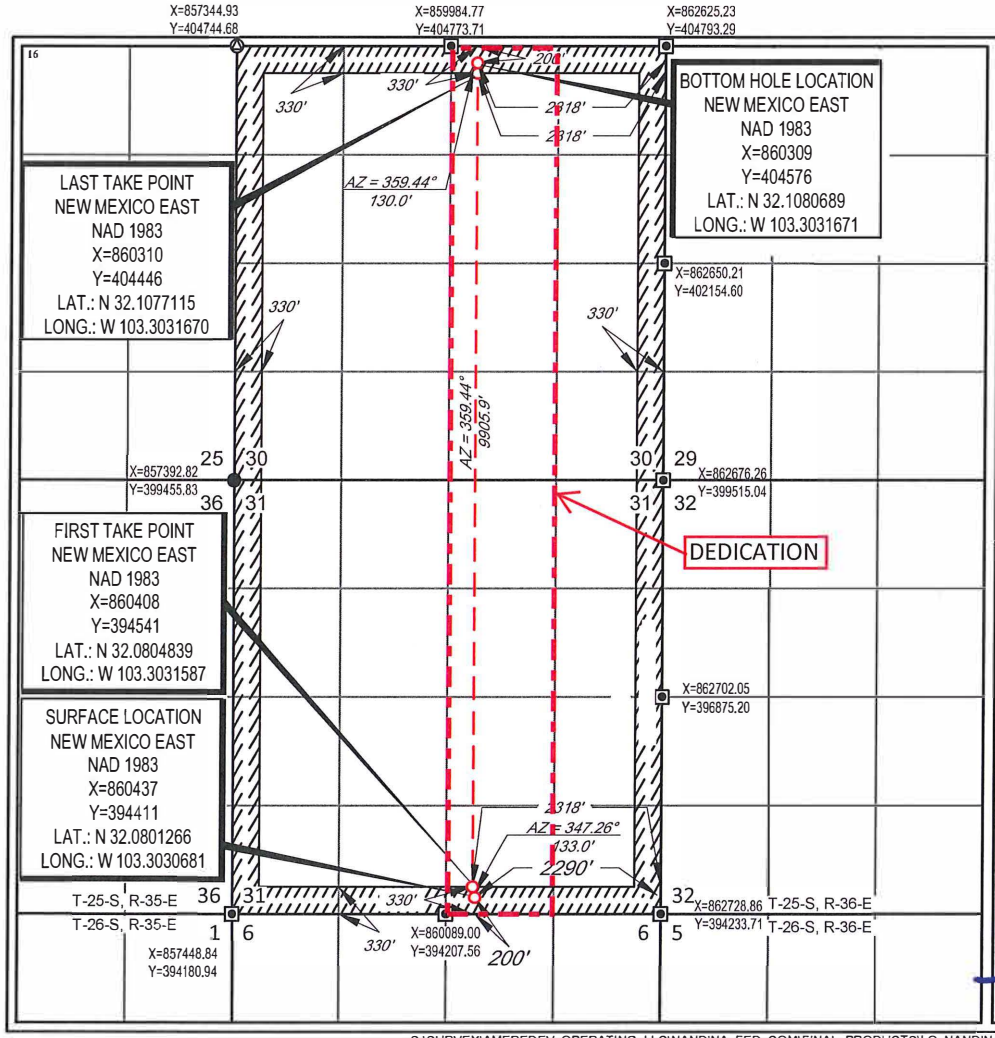
[10]Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	31	25-S	36-E	-	200'	SOUTH	2290'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	30	25-S	36-E	-	200'	NORTH	2318'	EAST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
320		C	

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



[17]OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature — Date: 6/27/18

Floyd Hammond
Printed Name

fhammond@ameredev.com
E-mail Address

[18]SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

05/09/2018
Date of Survey
Signature and Seal of Professional Surveyor

STANLEY L. LLOYD
NEW MEXICO
19642
PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\AMEREDEV_OPERATING_LLC\NANDINA_FED_COM\FINAL_PRODUCTS\LO_NANDINA_FED_COM_25_36_31_115H_REV1.DWG 5/16/2018 5:26:03 PM ccaston

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

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 6/27/18

☒ Original Operator & OGRID No.: Ameredev Operating LLC (372224)
☐ Amended - Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	SHL (ULSTR)	SHL Footages	Expected MCF/D	Flared or Vented	Comments
Nandina Fed Com 25 36 31 115H	30-025-45246	O-31-25S-36E	200' FSL 2290' FEL	1000	<30 days	Flare until well clean, then connect

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. Gas produced from production facility has not yet been dedicated. However, negotiations are underway for a possible connection within 2 miles. Operator will provide (periodically) to Gas Transporter a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Operator and Gas Transporter will have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Gas Transporter Processing Plant at an as yet undetermined location. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Gas Transporter system at that time. Based on current information, it is Operator's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Operator Name: AMEREDEV OPERATING LLC

Well Name: NANDINA FED COM 25 36 31 **Well Number:** 115H

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	RUSTLER ANHYDRITE	3014	1068	1068	ANHYDRITE	NONE	No
2	SALADO	1506	1508	1508	SALT	NONE	No
3	TANSILL	-220	3234	3234	LIMESTONE	NONE	No
4	CAPITAN REEF	-720	3734	3734	LIMESTONE	USEABLE WATER	No
5	LAMAR	-2020	5034	5034	LIMESTONE	NONE	No
6	BELL CANYON	-2055	5069	5069	SANDSTONE	NATURAL GAS,OIL	No
7	BRUSHY CANYON	-4095	7109	7109	SANDSTONE	NATURAL GAS,OIL	No
8	BONE SPRING LIME	-5321	8335	8335	LIMESTONE	NONE	No
9	BONE SPRING 1ST	-6697	9711	9711	SANDSTONE	NATURAL GAS,OIL	No
10	BONE SPRING 2ND	-7255	10269	10269	SANDSTONE	NATURAL GAS,OIL	No
11	BONE SPRING 3RD	-7841	10855	10855	LIMESTONE	NATURAL GAS,OIL	No
12	BONE SPRING 3RD	-8440	11454	11454	SANDSTONE	NATURAL GAS,OIL	No
13	WOLFCAMP	-8705	11719	11719	SHALE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M **Rating Depth:** 15000

Equipment: 10M BOPE SYSTEM WILL BE USED AFTER THE SURFACE CASING IS SET. A KELLY COCK WILL BE KEPT IN THE DRILL STRING AT ALL TIMES. A FULL OPENING DRILL PIPE STABBING VALVE WITH PROPER DRILL PIPE CONNECTIONS WILL BE ON THE RIG FLOOR AT ALL TIMES.

Requesting Variance? YES

Variance request: Co-Flex Choke Line

Testing Procedure: See attachment

Choke Diagram Attachment:

10M_Choke_Manifold_20180918122638.pdf

10M_Choke_Manifold_20180918122638.pdf

BOP Diagram Attachment:

5M_BOP_System_20180918122901.pdf

Pressure_Control_Plan_Pad_Well_MB4_Preset_BLM__002__20180918122916.pdf

4String_MB_Ameredev_Drawing_net_REV_20180918122938.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1193	0	1193	3014		1193	J-55	54.5	OTHER - BTC	1.82	0.9	DRY	13.98	DRY	132
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5084	0	5084	3014		5084	HCL-80	40	OTHER - BTC	1.39	0.93	DRY	5.12	DRY	4.
3	INTERMEDIATE	8.75	7.625	NEW	API	N	0	11377	0	11377	3014		11377	HCP-110	29.7	OTHER - FJM	1.04	1.27	DRY	1.92	DRY	2.
4	PRODUCTION	6.75	5.5	NEW	API	N	0	21777	0	11950	3014		21777	P-110	20	OTHER - CYHP TMK-UP SF TORQ	1.73	1.92	DRY	2.85	DRY	3.

Casing Attachments

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

NANDINA_FED_COM_25_36_31_115H___BLM_4_STRING_CASING_DESIGN_CHECK_20180705092151.pdf

13.375_54.50_J55_SEAH_20180918070950.pdf

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

NANDINA_FED_COM_25_36_31_115H___BLM_4_STRING_CASING_DESIGN_CHECK_20180705092243.pdf

9625_40_SeAH80HC_4100_Collapse_20180918071026.pdf

Casing ID: 3 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

NANDINA_FED_COM_25_36_31_115H___BLM_4_STRING_CASING_DESIGN_CHECK_20180705092348.pdf

7.625_29.70_P110HC_LIBERTY_FJM_20180918071056.pdf

Operator Name: AMEREDEV OPERATING LLC

Well Name: NANDINA FED COM 25 36 31 **Well Number:** 115H

Casing Attachments

Casing ID: 4 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

NANDINA_FED_COM_25_36_31_115H___BLM_4_STRING_CASING_DESIGN_CHECK_20180705092535.pdf

TMK_UP_SF_TORQ____5.500in_x_20.00__P_110_CYHP_20180918071121.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	809	735	1.89	12.9	1390.62	100	CLASS C	Bentonite, Retarder, Kolseal, Defoamer, Celloflake
SURFACE	Tail		809	1193	200	1.33	14.8	266.4	100	CLASS C	NONE
INTERMEDIATE	Lead		0	3485	1005	1.88	12.9	1887.39	50	CLASS C	Bentonite, Salt, Kolseal, Defoamer, Celloflake
INTERMEDIATE	Tail		3485	5084	375	1.33	14.8	500.25	25	CLASS C	NONE
INTERMEDIATE	Lead		4493	10145	255	2.85	11	725.48	25	CLASS H	Bentonite, Retarder, Kolseal, Defoamer, Celloflake, Anti-settling Expansion Additive
INTERMEDIATE	Tail		10145	11377	100	1.24	14.5	123.7	25	CLASS H	Bentonite, Retarder, Dispersant, Fluid Loss
PRODUCTION	Lead		11097	21777	930	1.22	14.5	1137.39	25	CLASS H	Retarder, Kolseal, Defoamer, Celloflake, Expansion Additive
PRODUCTION	Tail		21777	21777						CLASS H	none

Operator Name: AMEREDEV OPERATING LLC

Well Name: NANDINA FED COM 25 36 31 **Well Number:** 115H

Section 5 - Circulating Medium

Mud System Type: Semi-Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: All necessary supplies (e.g. bentonite, cedar bark) for fluid control will be on site.

Describe the mud monitoring system utilized: An electronic pit volume totalizer (PVT) will be utilized on the circulating system to monitor pit volume, flow rate, pump pressure, and pump rate.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1193	WATER-BASED MUD	8.6	10							
1193	5084	SALT SATURATED	10	11.5							
5084	11377	OTHER : CUT BRINE	9.5	10.5							
11377	11950	OIL-BASED MUD	11.5	12.5							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

A directional survey, measurement while drilling and a mudlog/geologic lithology log will all be run from surface to TD.

List of open and cased hole logs run in the well:

DS,MWD,MUDLOG

Coring operation description for the well:

No coring will be done on this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5000 **Anticipated Surface Pressure:** 2330.3

Anticipated Bottom Hole Temperature(F): 160

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

H2S_Plan_20180705093223.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Nandina_Fed_Com_25_36_31_115H_Plan_2_20180705093242.pdf

Pressure_Control_Plan_Pad_Well_MB4_Preset_BLM__002__20180918123206.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Other Variance attachment:

R616___CoC_for_hoses_12_18_17_20180705093442.pdf

Requested_Exceptions___4_String_Revised_09182018_20180918123229.pdf

SUPO

Operator Name: AMEREDEV OPERATING LLC

Well Name: NANDINA FED COM 25 36 31 **Well Number:** 115H

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Nandina__6N_Well_Plats_20180912_20180913063709.pdf
NANDINA_FED_COM_25_36_31_115H___WELL_PAD_ACCESS_20180913063800.pdf

Existing Road Purpose: ACCESS **Row(s) Exist?** YES

ROW ID(s)

ID: NM-138148

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

NANDINA_FED_COM_25_36_31_115H___WELL_PAD_ACCESS_20180913063854.pdf
Nandina__6N_Well_Plats_20180912_20180913063908.pdf

New road type: RESOURCE

Length: 4606 Feet **Width (ft.):** 30

Max slope (%): 2 **Max grade (%):** 2

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: Crowned and Ditched

New road access plan or profile prepared? NO

New road access plan attachment:

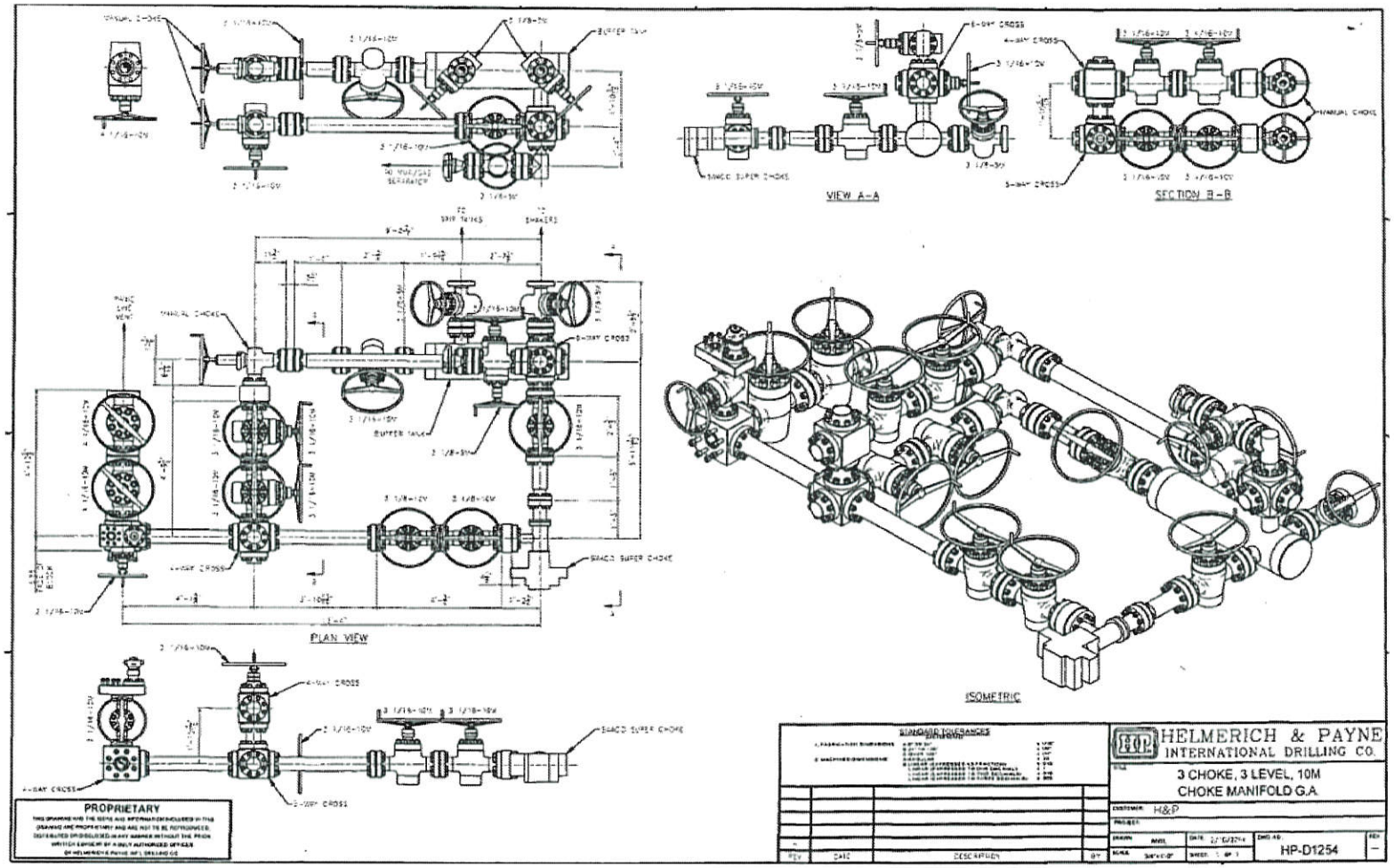
Access road engineering design? NO

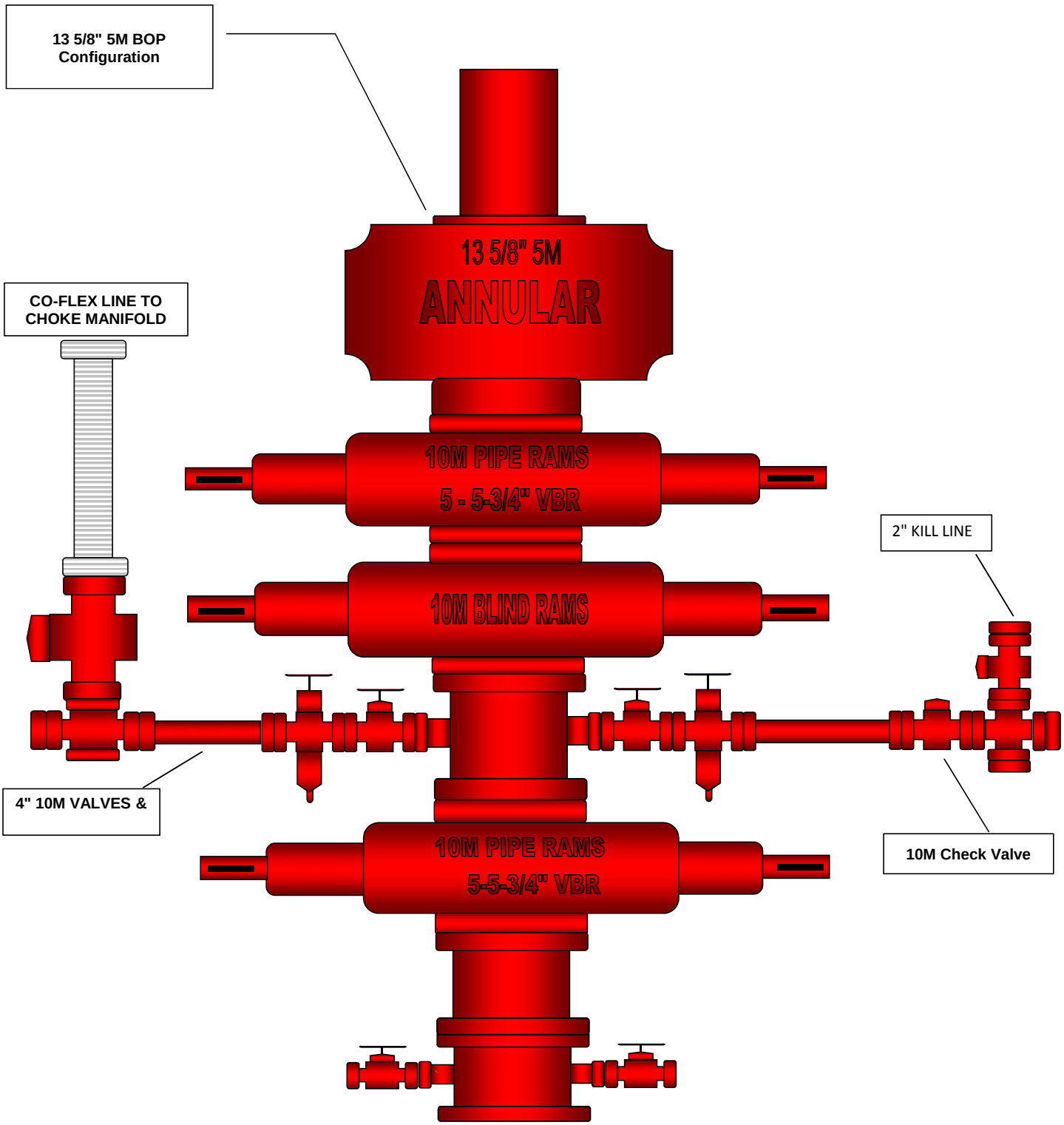
Access road engineering design attachment:

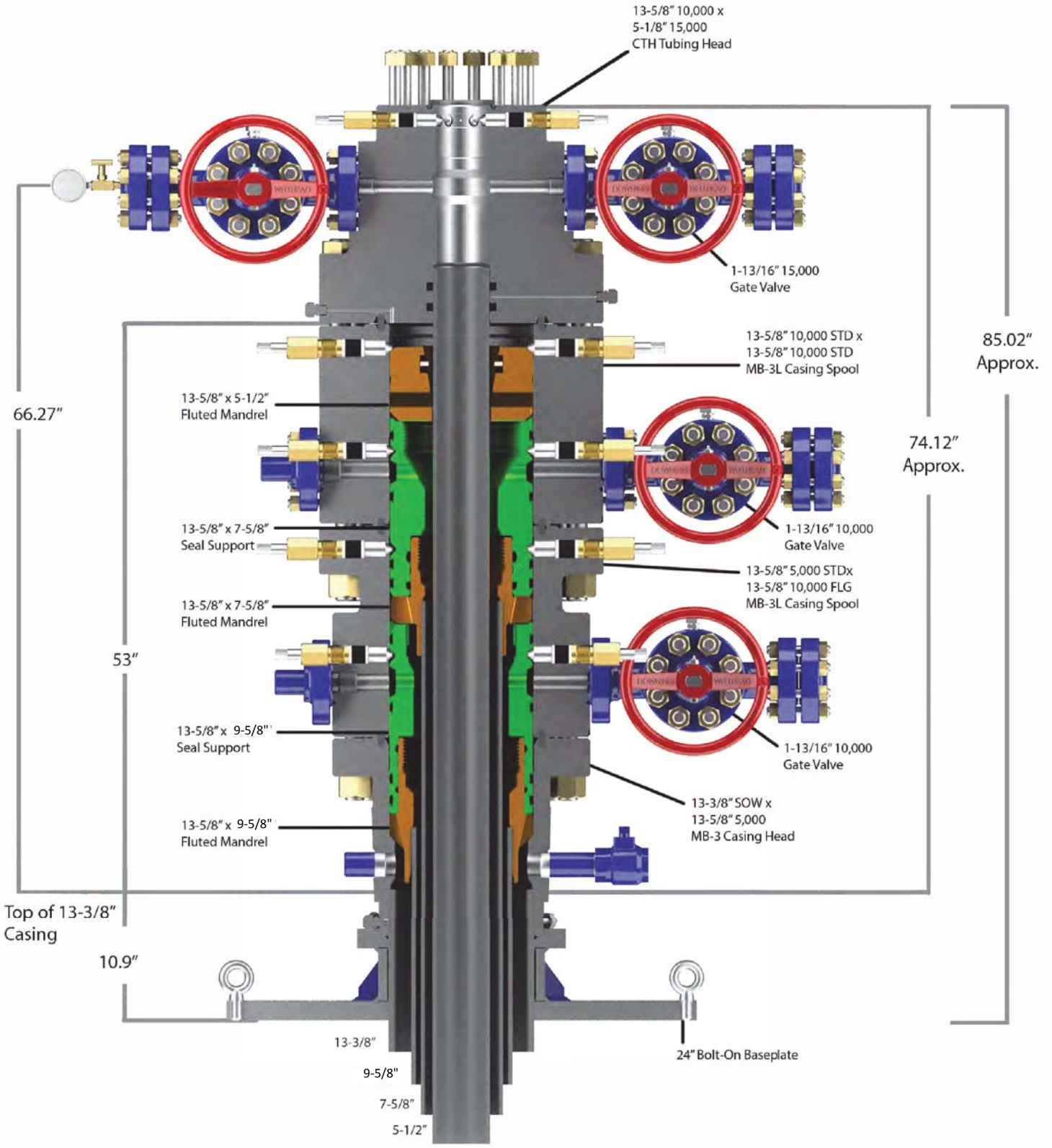
Access surfacing type: OTHER

10M Choke Manifold

10M Choke Manifold




13 5/8" 5M BOP Configuration
13 5/8" 5M
ANNULAR
CO-FLEX LINE TO CHOKE MANIFOLD
10M PIPE RAMS
5 - 5-3/4" VBR
2" KILL LINE
10M BLIND RAMS
4" 10M VALVES &
10M PIPE RAMS
5-5-3/4" VBR
10M Check Valve



Quotation

Downing Wellhead Equipment

Oklahoma City,
Oklahoma - USA

Reference Data:

16925 AMEREDEV

Proprietary and Confidential

TITLE:

AMEREDEV OPERATING, LLC, MB-3 4-STRING,
LEA COUNTY, NM

DRAWN			SIZE	DWG. NO.	REV.
CHECKED			A		
APPROVED			Scale:	Weight:	Sheet: