

OCD - HOBBS  
10/30/2018  
RECEIVED

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of work: ☒ DRILL ☐ REENTER  
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other  
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone

5. Lease Serial No.  
NMNM137471

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

GOLDEN BELL FED COM 26 36 06  
105H

GOLDEN BELL 26 36 06 FEDERAL COM [322777]

2. Name of Operator  
AMEREDEV OPERATING LLC [372224]

9. API Well No.  
30-025-45310

3a. Address  
5707 Southwest Parkway, Building 1, Suite 275 Austin TX

3b. Phone No. (include area code)  
(737)300-4700

10. Field and Pool, or Exploratory [98234]  
WC-025 G-09 S263620C / WOLFCAMP "

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface LOT O / 200 FSL / 2370 FEL / LAT 32.0801265 / LONG -103.3033263

At proposed prod. zone SWSE / 200 FSL / 2318 FEL / LAT 32.0510834 / LONG -103.3031113

11. Sec., T. R. M. or Blk. and Survey or Area  
SEC 31 / T25S / R36E / NMP

14. Distance in miles and direction from nearest town or post office\*  
6.5 miles

12. County or Parish  
LEA

13. State  
NM

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any) 200 feet

16. No of acres in lease  
360

17. Spacing Unit dedicated to this well  
320

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft. 4350 feet

19. Proposed Depth  
11950 feet / 22219 feet

20. BLM/BIA Bond No. in file  
FED: NMB001478

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
3015 feet

22. Approximate date work will start\*  
02/01/2019

23. Estimated duration  
90 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature  
(Electronic Submission)

Name (Printed/Typed)  
Christie Hanna / Ph: (737)300-4723

Date  
08/01/2018

Title  
Senior Engineering Technician

Approved by (Signature)  
(Electronic Submission)

Name (Printed/Typed)  
Christopher Walls / Ph: (575)234-2234

Date  
10/24/2018

Title  
Petroleum Engineer

Office  
CARLSBAD

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

GCP Rec 10/26/2018

APPROVED WITH CONDITIONS  
Approval Date: 10/24/2018

KZ  
10/30/2018

REQUIRES NSL



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## APD Print Report

10/25/2018

APD ID: 10400032663

Submission Date: 08/01/2018

Operator Name: AMEREDEV OPERATING LLC

Federal/Indian APD: FED

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 105H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data  
reflects the most  
recent changes

[Show Final Text](#)

### Application

#### Section 1 - General

APD ID: 10400032663

Tie to previous NOS? 10400030260 Submission Date: 08/01/2018

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: NMNM137471

Lease Acres: 360

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

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Approval Date: 10/24/2018

Page 1 of 24

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 105H

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 105H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WC-025 G-09  
S263620C

Pool Name: WOLFCAMP "A"  
XY

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:

Number: 105H

Well Class: HORIZONTAL

GOLDEN BELL

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: 4350 FT

Distance to lease line: 200 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_\_BLM\_LEASES\_20180801123157.pdf

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_\_VICINITY\_MAP\_20180801123200.pdf

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_\_EXHIBIT\_2A\_2B\_20180801123200.pdf

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_\_GAS\_CAPTURE\_PLAN\_20180801123212.pdf

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_\_C\_102\_SIG\_20180801142603.pdf

Well work start Date: 02/01/2019

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	2370	FEL	25S	36E	31	Lot O	32.0801265	- 103.3033263	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 137469	3015	0	0

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

	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	140	FSL	242 0	FEL	25S	36E	31	Aliquot SWSE	32.07996 23	- 103.3034 894	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 137469	- 836 2	113 79	113 77
PPP Leg #1	200	FSL	237 0	FEL	25S	36E	31	Aliquot SWSE	32.08012 65	- 103.3033 263	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 137469	301 5	0	0
PPP Leg #1	0	FNL	240 1	FEL	25S	36E	31	Aliquot SWSE	32.07957 68	- 103.3034 278	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 137469	- 873 9	117 90	117 54
PPP Leg #1	0	FNL	240 1	FEL	26S	36E	6	Aliquot NWNE	32.07957 68	- 103.3034 278	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 137471	- 873 9	117 90	117 54
PPP Leg #1	528 3	FNL	231 8	FEL	26S	36E	6	Aliquot SWSE	32.06505 59	- 103.3031 347	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 137471	- 893 5	171 35	119 50
EXIT Leg #1	528 3	FNL	231 8	FEL	26S	36E	7	Aliquot NWNE	32.06505 59	- 103.3031 347	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 137472	- 893 5	171 35	119 50
BHL Leg #1	200	FSL	231 8	FEL	26S	36E	7	Aliquot SWSE	32.05108 34	- 103.3031 113	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 137472	- 893 5	222 19	119 50

## Drilling Plan

### Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	RUSTLER ANHYDRITE	3015	1066	1066	ANHYDRITE	NONE	No
2	SALADO	1508	1506	1506	SALT	NONE	No
3	TANSILL	-220	3234	3234	LIMESTONE	NONE	No
4	CAPITAN REEF	-717	3732	3732	LIMESTONE	USEABLE WATER	No
5	LAMAR	-2019	5033	5033	LIMESTONE	NONE	No
6	BELL CANYON	-2054	5068	5068	SANDSTONE	NATURAL GAS,OIL	No

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
7	BRUSHY CANYON	-4097	7111	7111	SANDSTONE	NATURAL GAS,OIL	No
8	BONE SPRING LIME	-5322	8336	8336	LIMESTONE	NONE	No
9	BONE SPRING 1ST	-6698	9712	9712	SANDSTONE	NATURAL GAS,OIL	No
10	BONE SPRING 2ND	-7257	10271	10271	SANDSTONE	NATURAL GAS,OIL	No
11	BONE SPRING 3RD	-7844	10858	10858	LIMESTONE	NATURAL GAS,OIL	No
12	BONE SPRING 3RD	-8442	11456	11456	SANDSTONE	NATURAL GAS,OIL	No
13	WOLFCAMP	-8706	11720	11720	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-Flx Choke Line

**Testing Procedure:** See attachment

**Choke Diagram Attachment:**

10M\_Choke\_Manifold\_20181002141452.pdf

**BOP Diagram Attachment:**

5M\_BOP\_System\_20180801125925.pdf

4String\_MB\_Ameredev\_Drawing\_net\_REV\_20180801125937.pdf

Pressure\_Control\_Plan\_Pad\_Well\_MB4\_Preset\_BLM\_002\_20181002141504.pdf

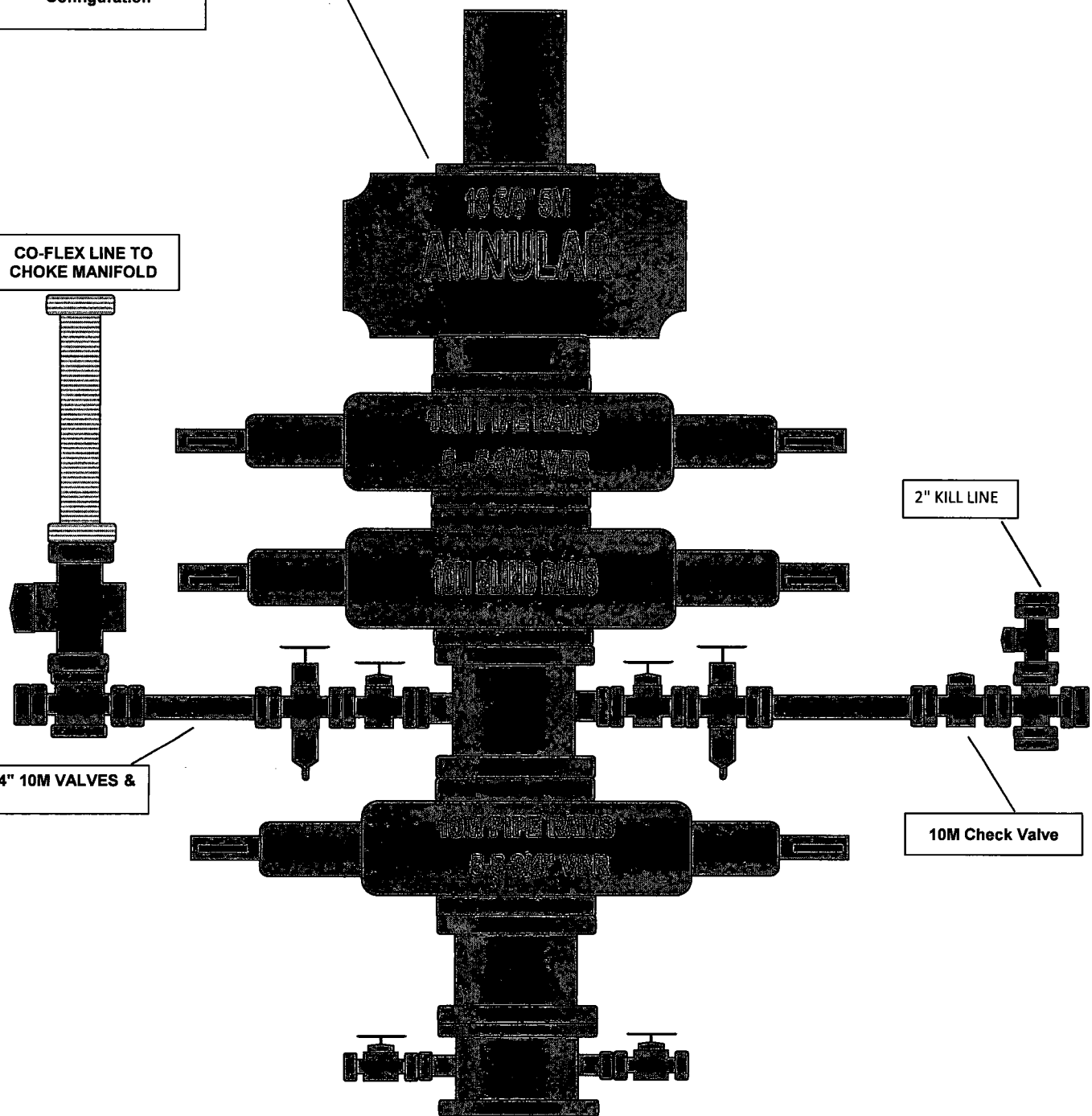
13 5/8" 5M BOP  
Configuration

CO-FLEX LINE TO  
CHOKE MANIFOLD

2" KILL LINE

4" 10M VALVES &

10M Check Valve



**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

### 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	1191	0	1191	3014		1191	J-55	54.5	OTHER - BTC	1.83	0.9	DRY	14	DRY	13.5
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5083	0	5083	3014		5083	HCL-80	40	OTHER - BTC	1.39	0.91	DRY	5.12	DRY	4.5
3	INTERMEDIATE	8.75	7.625	NEW	API	N	0	11579	0	11579	3014		11579	HCP-110	29.7	OTHER - FJM	1.06	1.2	DRY	1.89	DRY	2.5
4	PRODUCTION	6.75	5.5	NEW	API	N	0	22514	0	12150	3014		22514	P-110	20	OTHER - CYHP TMK-UP SF TORQ	1.7	1.82	DRY	2.7	DRY	3.5

#### Casing Attachments

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_\_CASING\_DESIGN\_CHECK\_20180801142700.pdf

20180626\_GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_4\_STRING\_20180801142710.pdf

13.375\_54.50\_J55\_SEAH\_20181002141545.pdf

Casing Attachments

Casing ID: 2String Type:INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

- 20180626\_GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_4\_STRING\_20180801142719.pdf
- GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_\_CASING\_DESIGN\_CHECK\_20180801142730.pdf
- 9625\_40\_SeAH80HC\_4100\_Collapse\_20181002142243.pdf

Casing ID: 3String Type:INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

- GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_\_CASING\_DESIGN\_CHECK\_20180801142738.pdf
- 20180626\_GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_4\_STRING\_20180801142746.pdf
- 7.625\_29.70\_P110HC\_LIBERTY\_FJM\_20181002142256.pdf



Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 105H

#### Casing Attachments

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

#### Casing Design Assumptions and Worksheet(s):

20180626\_GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_4\_STRING\_20180801142754.pdf

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_CASING\_DESIGN\_CHECK\_20180801142806.pdf

TMK\_UP\_SF\_TORQ\_5.500in\_x\_20.00\_P\_110\_CYHP\_20181002142307.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	807	735	1.89	12.9	1390.62	100	CLASS C	Bentonite, Retarder, Kolseal, Defoamer, Celloflake
SURFACE	Tail		807	1191	200	1.33	14.8	266.4	100	CLASS C	NONE
INTERMEDIATE	Lead		0	3484	1000	1.88	12.9	1878	50	CLASS C	Bentonite, Salt, Kolseal, Defoamer, Celloflake
INTERMEDIATE	Tail		3484	5083	375	1.33	14.8	500.25	50	CLASS C	NONE
INTERMEDIATE	Lead		4583	10147	256	2.85	11	728.32	25	CLASS H	Bentonite, Retarder, Kolseal, Defoamer, Celloflake, Anti-settling Expansion Additive
INTERMEDIATE	Tail		10147	11379	100	1.24	14.5	123.7	25	CLASS H	Bentonite, Retarder, Dispersant, Fluid Loss
PRODUCTION	Lead		3682	22219	1575	1.22	14.5	1926.23	25	CLASS H	Retarder, Kolseal, Defoamer, Celloflake, Expansion Additive
PRODUCTION	Tail		22219	22219						CLASS H	none

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

## 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	1191	WATER-BASED MUD	8.6	10							
1191	5083	SALT SATURATED	10	11.5							
5083	1137 9	OTHER : CUT BRINE	8.9	10.5							
1137 9	1195 0	OIL-BASED MUD	11.5	12.5							

**Wellbore Schematic**

**Well:** Golden Bell Fed Com 26-36-06 105H  
**SHL:** Sec. 31 25S-36E 200' FSL & 2370' FEL  
**BHL:** Sec. 7 26S-36E 200' FSL & 2318' FEL  
 Lea, NM

**Wellhead:** A - 13-5/8" 5M x 13-5/8" SOW  
 B - 13-5/8" 5M x 13-5/8" 10M  
 C - 13-5/8" 10M x 13-5/8" 10M  
 Tubing Spool - 5-1/8" 15M x 13-3/8" 10M

**Xmas Tree:** 2-9/16" 10M

**Tubing:** 2-7/8" L-80 6.5# 8rd EUE

**Co. Well ID:** xxxxx  
**AFE No.:** xxxx-xxx  
**API No.:** xxxxxxxxxxxx  
**GL:** 3,015'  
**Field:** Delaware\_WCXY  
**Objective:** Wolfcamp XY  
**TVD:** 11,950'  
**MD:** 22,219'  
**Rig:** TBD  
**E-Mail:** Wellsite2@ameredev.com

Hole Size	Formation Tops	Logs	Cement	Mud Weight
17.5"	Rustler 1,066'		935 Sacks TOC 0'	8.6 - 10 ppg WBM
	13.375" 54.5# J-55 BTC 1,191'			
12.25"	Salado 1,506'			
	Tansill 3,234'			
	Lamar 5,033'			
	Bell Canyon 5,068'			
	9.625" 40# L-80HC BTC 5,083'		1375 Sacks TOC 0'	10 - 11.5 ppg Brine
8.75"	Brushy Canyon 7,111'			
	Bone Spring Lime 8,336'			
	First Bone Spring 9,712'			
	Second Bone Spring 10,271'			
	Third Bone Spring Upper 10,858'			
	7.625" 29.7#P-110HC FJM 11,379'		356 Sacks TOC 4583'	9.5 - 10.5 Cut Brine
10° Build KOP @ 11,379'	Third Bone Spring 11,456'			
	Wolfcamp 11,720'			
6.75"	5.5" 20# P-110CYHP TMK UP SF TORQ 22,219'			
	Target Wolfcamp XY 11950 TVD // 22219 MD			
		Triple Combo	965 Sacks TOC 10879'	11.5 - 12.5 ppg OBM

## Casing Design and Safety Factor Check

<b>Casing Specifications</b>						
Segment	Hole ID	Depth	OD	Weight	Grade	Coupling
Surface	17.5	1,191'	13.375	54.5	J-55	BTC
Int #1	12.25	5,083'	9.625	40	HCL-80	BTC
Int #2	8.75	11,379'	7.625	29.7	HCP-110	FJM
Prod Segment A	6.75	11,379'	5.5	20	CYHP-110	TMK UPSF
Prod Segment B	6.75	22,219'	5.5	20	CYHP-110	TMK UPSF

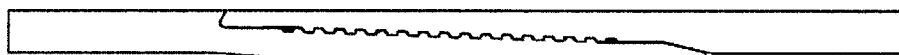
<b>Check Surface Casing</b>				
OD Cplg	Body	Joint	Collapse	Burst
inches	1000 lbs	1000 lbs	psi	psi
14.38	853	909	1,130	2,730
<b>Safety Factors</b>				
1.56	13.15	14.00	1.83	0.90
<b>Check Int #1 Casing</b>				
OD Cplg	Body	Joint	Collapse	Burst
inches	1000 lbs	1000 lbs	psi	psi
10.625	916	1042	4230	5750
<b>Safety Factors</b>				
0.81	4.51	5.12	1.39	0.93
<b>Check Int #2 Casing</b>				
OD Cplg	Body	Joint	Collapse	Burst
inches	1000 lbs	1000 lbs	psi	psi
7.625	940	558	6700	9460
<b>Safety Factors</b>				
0.56	2.78	1.90	1.08	1.22
<b>Check Prod Casing, Segment A</b>				
OD Cplg	Body	Joint	Collapse	Burst
inches	1000 lbs	1000 lbs	psi	psi
5.777	728	655	12780	14360
<b>Safety Factors</b>				
0.49	3.05	2.74	1.73	1.85
<b>Check Prod Casing, Segment B</b>				
OD Cplg	Body	Joint	Collapse	Burst
inches	1000 lbs	1000 lbs	psi	psi
5.777	728	655	12780	14360
<b>Safety Factors</b>				
0.49	63.75	57.36	1.65	1.85



# U. S. Steel Tubular Products

6/6/2017 6:18:53 PM

7.625" 29.70lbs/ft (0.375" Wall) P110 HC USS-LIBERTY FJM®



MECHANICAL PROPERTIES	Pipe	USS-LIBERTY FJM®	
Minimum Yield Strength	110,000	--	psi
Maximum Yield Strength	140,000	--	psi
Minimum Tensile Strength	125,000	--	psi

DIMENSIONS	Pipe	USS-LIBERTY FJM®	
Outside Diameter	7.625	7.625	in.
Wall Thickness	0.375	--	in.
Inside Diameter	6.875	6.789	in.
Standard Drift	6.750	6.750	in.
Alternate Drift	--	--	in.
Nominal Linear Weight, T&C	29.70	--	lbs/ft
Plain End Weight	29.06	--	lbs/ft

SECTION AREA	Pipe	USS-LIBERTY FJM®	
Critical Area	8.541	5.074	sq. in.
Joint Efficiency	--	59.4	%

PERFORMANCE	Pipe	USS-LIBERTY FJM®	
Minimum Collapse Pressure	6,700	6,700	psi
Minimum Internal Yield Pressure	9,460	9,460	psi
Minimum Pipe Body Yield Strength	940,000	--	lbs
Joint Strength	--	558,000	lbs
Compression Rating	--	558,000	lbs
Reference Length	--	12,810	ft
Maximum Uniaxial Bend Rating	--	39.3	deg/100 ft

MAKE-UP DATA	Pipe	USS-LIBERTY FJM®	
Make-Up Loss	--	3.92	in.
Minimum Make-Up Torque	--	10,800	ft-lbs
Maximum Make-Up Torque	--	15,250	ft-lbs

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
2. Compressive & Tensile Connection Efficiencies are calculated by dividing the connection critical area by the pipe body area.
3. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
4. USS-LIBERTY FJM™ connections are optimized for each combination of OD and wall thickness and cannot be interchanged.
5. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
6. Reference length is calculated by joint strength divided by nominal plain end weight with 1.5 safety factor.
7. Connection external pressure leak resistance has been verified to 100% API pipe body collapse pressure following the guidelines of API 5C5 Cal III.

## Legal Notice

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**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

## **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:** 2371

**Anticipated Bottom Hole Temperature(F):** 160

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

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations plan:**

H2S\_Plan\_20180801145013.pdf

## **Section 8 - Other Information**

**Proposed horizontal/directional/multi-lateral plan submission:**

Golden\_Bell\_Fed\_Com\_26\_36\_06\_105H\_Plan\_2\_20180801145037.pdf

Pressure\_Control\_Plan\_Pad\_Well\_MB4\_Preset\_BLM\_\_002\_\_20181002142449.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

**Other Variance attachment:**

R616\_\_CoC\_for\_hoses\_12\_18\_17\_20180801145444.pdf

Requested\_Exceptions\_\_4\_String\_Revised\_09182018\_20181002142516.pdf

**SUPO**

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

**Access topsoil source:** ONSITE

**Access surfacing type description:** CALICHE

**Access onsite topsoil source depth:** 6

**Offsite topsoil source description:**

**Onsite topsoil removal process:** GRADER

**Access other construction information:** NM One Call (811) will be notified before construction start.

**Access miscellaneous information:**

**Number of access turnouts:**

**Access turnout map:**

### **Drainage Control**

**New road drainage crossing:** OTHER

**Drainage Control comments:** Crowned and Ditched

**Road Drainage Control Structures (DCS) description:** None

**Road Drainage Control Structures (DCS) attachment:**

### **Access Additional Attachments**

**Additional Attachment(s):**

## **Section 3 - Location of Existing Wells**

**Existing Wells Map?** YES

**Attach Well map:**

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_1\_MILE\_RADIUS\_WELLS\_20180913132152.pdf

**Existing Wells description:**

## **Section 4 - Location of Existing and/or Proposed Production Facilities**

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** A multiple well pad will be located on section 31, and will measure 400'x500'. The top 6" of soil and brush will be stockpiled north of the well pad. A 4" Poly Flowline will be buried and run approximately 1,305' (805' Needing ROW) from the Golden Bell 26 36 06 105H to the Golden Bell CTB that will be north of the well pad. A 20' pipeline ROW containing three 12" poly water lines and one 8" steel crude line will be run from the Golden Bell CTB to the right of way (NM-138148) approved pipeline corridor. The new lines will be 1,380'. A power line will be run parallel to the pipeline corridor and connect to a power line that will be built in an existing approved right of way (NM-138148). The power line will be approximately 1,360'. The Golden Bell CTB will be 500'x525' and will include a separator, Heat Exchanger, VRU, VRT, meter run and a tank battery. The new production facility will have a secondary containment structure that is constructed to hold the capacity of 1-1/2 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary. Because this facility goes off lease on BLM owned surface, the pipeline, road, electric corridors, and the Golden Bell CTB will need ROW from the BLM.

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

**Production Facilities map:**

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_\_WELL\_\_\_FACILITIES\_MAP\_20180913132250.pdf

Golden\_Bell\_\_6N\_Wells\_20180913132304.pdf

**Section 5 - Location and Types of Water Supply**

**Water Source Table**

**Water source use type:** DUST CONTROL,  
INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE  
CASING

**Water source type:** GW WELL

**Describe type:**

**Source longitude:**

**Source latitude:**

**Source datum:**

**Water source permit type:** PRIVATE CONTRACT

**Source land ownership:** PRIVATE

**Water source transport method:** TRUCKING

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 20000

**Source volume (acre-feet):** 2.577862

**Source volume (gal):** 840000

**Water source and transportation map:**

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_\_WATER\_WELLS\_LIST\_20180913132452.pdf

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_\_WATER\_MAP\_20180913132447.pdf

**Water source comments:** Water will be trucked or surface piped from existing water wells on private land. See attached list of available wells.

**New water well?** NO

**New Water Well Info**

**Well latitude:**

**Well Longitude:**

**Well datum:**

**Well target aquifer:**

**Est. depth to top of aquifer(ft):**

**Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):**

**Well casing type:**

**Well casing outside diameter (in.):**

**Well casing inside diameter (in.):**

**New water well casing?**

**Used casing source:**

**Drilling method:**

**Drill material:**



**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

**Grout material:**

**Grout depth:**

**Casing length (ft.):**

**Casing top depth (ft.):**

**Well Production type:**

**Completion Method:**

**Water well additional information:**

**State appropriation permit:**

**Additional information attachment:**

## Section 6 - Construction Materials

**Construction Materials description:** NM One Call (811) will be notified before construction start. Top 6" of soil and brush will be stockpiled north of the pad. V-door will face east. Closed loop drilling system will be used. Caliche will be hauled from an existing caliche pits on private and state land.

**Construction Materials source location attachment:**

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_CALICHE\_MAP\_20180913132540.pdf

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_WELL\_SITE\_DIAGRAM\_20180913132600.pdf

## Section 7 - Methods for Handling Waste

**Waste type:** DRILLING

**Waste content description:** Drill cuttings, mud, salts, and other chemicals

**Amount of waste:** 2000 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** Steel tanks on pad

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE

**Disposal type description:**

**Disposal location description:** R360's State approved (NM-01-0006) disposal site at Halfway, NM

## Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?**

**Reserve pit length (ft.)** **Reserve pit width (ft.)**

**Reserve pit depth (ft.)** **Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

### Cuttings Area

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** YES

**Description of cuttings location** Steel tanks on pad

**Cuttings area length (ft.)**

**Cuttings area width (ft.)**

**Cuttings area depth (ft.)**

**Cuttings area volume (cu. yd.)**

**Is at least 50% of the cuttings area in cut?**

**WCuttings area liner**

**Cuttings area liner specifications and installation description**

### Section 8 - Ancillary Facilities

**Are you requesting any Ancillary Facilities?:** NO

**Ancillary Facilities attachment:**

**Comments:**

### Section 9 - Well Site Layout

**Well Site Layout Diagram:**

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_WELL\_SITE\_DIAGRAM\_20180913132731.pdf

**Comments:**

### Section 10 - Plans for Surface Reclamation

**Type of disturbance:** New Surface Disturbance

**Multiple Well Pad Name:** GOLDEN BELL

**Multiple Well Pad Number:** 105H

**Recontouring attachment:**

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_WELL\_SITE\_DIAGRAM\_20180913132756.pdf

**Drainage/Erosion control construction:** Crowned and ditched

**Drainage/Erosion control reclamation:** Harrowed on the contour

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

<b>Well pad proposed disturbance (acres):</b> 4.59	<b>Well pad interim reclamation (acres):</b> 0.79	<b>Well pad long term disturbance (acres):</b> 3.8
<b>Road proposed disturbance (acres):</b> 2.62	<b>Road interim reclamation (acres):</b> 0	<b>Road long term disturbance (acres):</b> 2.62
<b>Powerline proposed disturbance (acres):</b> 0.63	<b>Powerline interim reclamation (acres):</b> 0	<b>Powerline long term disturbance (acres):</b> 0.63
<b>Pipeline proposed disturbance (acres):</b> 0.63	<b>Pipeline interim reclamation (acres):</b> 0	<b>Pipeline long term disturbance (acres):</b> 0.63
<b>Other proposed disturbance (acres):</b> 6.03	<b>Other interim reclamation (acres):</b> 0	<b>Other long term disturbance (acres):</b> 6.03
<b>Total proposed disturbance:</b> 14.5	<b>Total interim reclamation:</b> 0.79	<b>Total long term disturbance:</b> 13.71

**Disturbance Comments:**

**Reconstruction method:** Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking the pad 17% (.79 acre) by removing caliche and reclaiming 40' wide swaths on the North and East sides of the pad. This will leave 3.8 acres for producing three wells, with tractor-trailer turn around. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the surface owner's requirements.

**Topsoil redistribution:** Enough stockpiled topsoil will be retained to cover the remainder of the pad when the well is plugged. New road will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled.

**Soil treatment:** None

**Existing Vegetation at the well pad:**

**Existing Vegetation at the well pad attachment:**

**Existing Vegetation Community at the road:**

**Existing Vegetation Community at the road attachment:**

**Existing Vegetation Community at the pipeline:**

**Existing Vegetation Community at the pipeline attachment:**

**Existing Vegetation Community at other disturbances:**

**Existing Vegetation Community at other disturbances attachment:**

**Non native seed used?** NO

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** NO

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?** NO

**Seed harvest description:**

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

**Seed harvest description attachment:**

**Seed Management**

**Seed Table**

**Seed type:**

**Seed source:**

**Seed name:**

**Source name:**

**Source address:**

**Source phone:**

**Seed cultivar:**

**Seed use location:**

**PLS pounds per acre:**

**Proposed seeding season:**

**Seed Summary**

**Total pounds/Acre:**

**Seed Type**

**Pounds/Acre**

**Seed reclamation attachment:**

**Operator Contact/Responsible Official Contact Info**

**First Name:**

**Last Name:**

**Phone:**

**Email:**

**Seedbed prep:**

**Seed BMP:**

**Seed method:**

**Existing invasive species?** NO

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

**Weed treatment plan description:** To BLM standards

**Weed treatment plan attachment:**

**Monitoring plan description:** To BLM standards

**Monitoring plan attachment:**

**Success standards:** To BLM satisfaction

**Pit closure description:** No pit

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

**Pit closure attachment:**

## **Section 11 - Surface Ownership**

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** PIPELINE

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** OTHER

**Describe:** POWERLINE

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

## Section 12 - Other Information

**Right of Way needed?** YES

**Use APD as ROW?** YES

**ROW Type(s):** 281001 ROW - ROADS, 285003 ROW – POWER TRANS, 288100 ROW – O&G Pipeline, 288103 ROW – Salt Water Disposal Pipeline/Facility, 289001 ROW- O&G Well Pad

### ROW Applications

**SUPO Additional Information:**

**Use a previously conducted onsite?** YES

**Previous Onsite information:** On-site inspection was held with Jeff Robertson (BLM) on 5/23/18. Ameredev made a donation with the MOU fund in lieu of an archaeology report.

### Other SUPO Attachment

GOLDEN\_BELL\_FED\_COM\_26\_36\_06\_105H\_\_SURFACE\_USE\_PLAN\_20180913133315.pdf

PWD

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

## Section 1 - General

**Would you like to address long-term produced water disposal?** NO

## Section 2 - Lined Pits

**Would you like to utilize Lined Pit PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Lined pit PWD on or off channel:**

**Lined pit PWD discharge volume (bbl/day):**

**Lined pit specifications:**

**Pit liner description:**

**Pit liner manufacturers information:**

**Precipitated solids disposal:**

**Describe precipitated solids disposal:**

**Precipitated solids disposal permit:**

**Lined pit precipitated solids disposal schedule:**

**Lined pit precipitated solids disposal schedule attachment:**

**Lined pit reclamation description:**

**Lined pit reclamation attachment:**

**Leak detection system description:**

**Leak detection system attachment:**

**Lined pit Monitor description:**

**Lined pit Monitor attachment:**

**Lined pit: do you have a reclamation bond for the pit?**

**Is the reclamation bond a rider under the BLM bond?**



**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

**Lined pit bond number:**

**Lined pit bond amount:**

**Additional bond information attachment:**

### **Section 3 - Unlined Pits**

**Would you like to utilize Unlined Pit PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Unlined pit PWD on or off channel:**

**Unlined pit PWD discharge volume (bbl/day):**

**Unlined pit specifications:**

**Precipitated solids disposal:**

**Describe precipitated solids disposal:**

**Precipitated solids disposal permit:**

**Unlined pit precipitated solids disposal schedule:**

**Unlined pit precipitated solids disposal schedule attachment:**

**Unlined pit reclamation description:**

**Unlined pit reclamation attachment:**

**Unlined pit Monitor description:**

**Unlined pit Monitor attachment:**

**Do you propose to put the produced water to beneficial use?**

**Beneficial use user confirmation:**

**Estimated depth of the shallowest aquifer (feet):**

**Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?**

**TDS lab results:**

**Geologic and hydrologic evidence:**

**State authorization:**

**Unlined Produced Water Pit Estimated percolation:**

**Unlined pit: do you have a reclamation bond for the pit?**

**Is the reclamation bond a rider under the BLM bond?**

**Unlined pit bond number:**

**Unlined pit bond amount:**

**Additional bond information attachment:**

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

#### **Section 4 - Injection**

**Would you like to utilize Injection PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Injection PWD discharge volume (bbl/day):**

**Injection well mineral owner:**

**Injection well type:**

**Injection well number:**

**Injection well name:**

**Assigned injection well API number?**

**Injection well API number:**

**Injection well new surface disturbance (acres):**

**Minerals protection information:**

**Mineral protection attachment:**

**Underground Injection Control (UIC) Permit?**

**UIC Permit attachment:**

#### **Section 5 - Surface Discharge**

**Would you like to utilize Surface Discharge PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Surface discharge PWD discharge volume (bbl/day):**

**Surface Discharge NPDES Permit?**

**Surface Discharge NPDES Permit attachment:**

**Surface Discharge site facilities information:**

**Surface discharge site facilities map:**

#### **Section 6 - Other**

**Would you like to utilize Other PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Other PWD discharge volume (bbl/day):**

**Other PWD type description:**

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

**Other PWD type attachment:**

**Have other regulatory requirements been met?**

**Other regulatory requirements attachment:**

### Bond Info

#### Bond Information

**Federal/Indian APD:** FED

**BLM Bond number:** NMB001478

**BIA Bond number:**

**Do you have a reclamation bond?** NO

**Is the reclamation bond a rider under the BLM bond?**

**Is the reclamation bond BLM or Forest Service?**

**BLM reclamation bond number:**

**Forest Service reclamation bond number:**

**Forest Service reclamation bond attachment:**

**Reclamation bond number:**

**Reclamation bond amount:**

**Reclamation bond rider amount:**

**Additional reclamation bond information attachment:**

### Operator Certification

#### Operator Certification

*I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.*

**NAME:** Christie Hanna

**Signed on:** 10/02/2018

**Title:** Senior Engineering Technician

**Street Address:** 5707 Southwest Parkway, Building 1, Suite 275

**City:** Austin

**State:** TX

**Zip:** 78735

**Phone:** (737)300-4723

**Email address:** channa@ameredev.com

**Operator Name:** AMEREDEV OPERATING LLC

**Well Name:** GOLDEN BELL FED COM 26 36 06

**Well Number:** 105H

### Field Representative

**Representative Name:** ZACHARY BOYD

**Street Address:** 5707 SOUTHWEST PARKWAY, BLDG 1, STE. 275

**City:** AUSTIN

**State:** TX

**Zip:** 78735

**Phone:** (737)300-4700

**Email address:** zboyd@ameredev.com

### Payment Info

#### Payment

**APD Fee Payment Method:** PAY.GOV

**pay.gov Tracking ID:** 26BB70P2