

OCD - HOBBS
10/27/2020
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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		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
		8. Lease Name and Well No. [322777]
2. Name of Operator [372224]		9. API Well No. 30-025-47937
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory [98234]
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

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 10/27/2020

SL

(Continued on page 2)

APPROVED WITH CONDITIONS
Approval Date: 10/06/2020

KZ
10/29/2020

*(Instructions on page 2)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Ameredev Operating LLC
WELL NAME & NO.:	Golden Bell Fed Com 26 36 06 126H
LOCATION:	Sec 31-25S-36E-NMP
COUNTY:	County, New Mexico

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The 13-3/8 inch surface casing shall be set at approximately 1100 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure

- rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
- b. When the operator proposes to set surface casing with Spudder Rig
- Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.



APD ID: 10400054225

Submission Date: 02/12/2020

Highlighted data
reflects the most
recent changes

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 126H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
659598	RUSTLER ANHYDRITE	3014	1024	1024	ANHYDRITE	NONE	N
659599	SALADO	1514	1500	1500	SALT	NONE	N
659594	TANSILL	-372	3386	3386	LIMESTONE	NONE	N
659602	CAPITAN REEF	-782	3796	3796	LIMESTONE	USEABLE WATER	N
659595	LAMAR	-2016	5030	5030	LIMESTONE	NONE	N
659605	BELL CANYON	-2123	5137	5137	SANDSTONE	NATURAL GAS, OIL	N
659596	BRUSHY CANYON	-4200	7214	7214	SANDSTONE	NATURAL GAS, OIL	N
659597	BONE SPRING LIME	-5308	8322	8322	LIMESTONE	NONE	N
659600	BONE SPRING 1ST	-6648	9662	9662	SANDSTONE	NATURAL GAS, OIL	N
659606	BONE SPRING 2ND	-7202	10216	10216	SANDSTONE	NATURAL GAS, OIL	N
659601	BONE SPRING 3RD	-7737	10751	10751	LIMESTONE	NATURAL GAS, OIL	N
659603	BONE SPRING 3RD	-8337	11351	11351	SANDSTONE	NATURAL GAS, OIL	N
659607	WOLFCAMP	-8613	11627	11627	SHALE	NATURAL GAS, OIL	N
659661	WOLFCAMP	-8920	11934	11934	SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 126H

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, 5M Annular Preventer

Testing Procedure: See attachment

Choke Diagram Attachment:

10M_Choke_Manifold_REV_20200212095443.pdf

BOP Diagram Attachment:

Pressure_Control_Plan_Single_Well_MB4_3String_Big_Hole_BLM_20200212095451.pdf

5M_Annular_Preventer_Variance_and_Well_Control_Plan_20200212095452.pdf

5M_BOP_System_20200212095452.pdf

4_String_MB_Ameredev_Wellhead_Drawing_net_REV_20200212095503.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	1149	0	1149	3014	1865	1149	J-55	68	OTHER - BTC	7.99	1	DRY	11.71	DRY	13.69
2	INTERMEDIATE	9.875	7.625	NEW	API	N	0	10876	0	10876	3014	-7862	10876	HCL-80	29.7	OTHER - BTC	1.26	1.19	DRY	2.02	DRY	2.91
3	PRODUCTION	6.75	5.5	NEW	API	N	0	23157	0	12284	3014	-9270	23157	P-110	23	OTHER - MS2 Anaconda GT	1.67	1.8	DRY	2.32	DRY	2.58

Casing Attachments

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 126H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375_68_J55_SEAH_20200212095553.pdf

Golden_Bell_Fed_Com_26_36_06_126H___WELLBORE_DIAGRAM_AND_CDA_20200212095601.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7.625_29.70_L80HC_BORUSAN_20200212095655.pdf

Golden_Bell_Fed_Com_26_36_06_126H___WELLBORE_DIAGRAM_AND_CDA_20200212095703.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5_20200212095811.5_23

Golden_Bell_Fed_Com_26_36_06_126H___WELLBORE_DIAGRAM_AND_CDA_20200212095817.pdf

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 126H

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	763	754	1.76	13.5	1327	100	CLASS C	Bentonite, Accelerator, Kolseal, Defoamer, Celloflake
SURFACE	Tail		763	1149	200	1.34	14.8	268	100	CLASS C	None
INTERMEDIATE	Lead	3386	0	2855	651	3.5	9	2278.34	50	CLASS C	Salt, Bentonite, Kolseal, Defoamer, Celloflake
INTERMEDIATE	Tail		2855	3386	200	1.33	14.8	266	25	CLASS C	None
INTERMEDIATE	Lead	3386	3386	9655	2207	2.47	11.9	5453.09	50	Class H	Bentonite, Retarder, Kolseal, Defoamer, Celloflake, Anti-Settling Expansion Additive
INTERMEDIATE	Tail		9655	10876	200	1.31	14.2	262	25	Class H	Salt, Bentonite, Retarder, Dispersant, Fluid Loss
PRODUCTION	Lead		0	23157	1803	1.34	14.2	2415.56	25	CLASS H	Salt, Bentonite, Fluid Loss, Dispersant, Retarder, Defoamer

Section 5 - Circulating Medium

Mud System Type: 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

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 126H

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	1149	WATER-BASED MUD	8.4	8.6							
1149	1087 6	OTHER : Diesel Brine Emulsion	8.5	9.4							
1087 6	1228 4	OIL-BASED MUD	10.5	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:

DIRECTIONAL SURVEY, MEASUREMENT WHILE DRILLING, MUD LOG/GEOLOGIC LITHOLOGY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

No coring will be done on this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6707

Anticipated Surface Pressure: 4004

Anticipated Bottom Hole Temperature(F): 165

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_20200212100449.pdf

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 126H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

GB126_LLR_20200212100508.pdf

GB126_DR_20200212100508.pdf

5M_Annular_Preventer_Variance_and_Well_Control_Plan_20200212100516.pdf

Pressure_Control_Plan_Single_Well_MB4_3String_Big_Hole_BLM_20200212100519.pdf

Other proposed operations facets description:

4-STRING CONTINGENCY PLAN AND SKID PROCEDURE ATTACHED

Other proposed operations facets attachment:

Wolfcamp_Contingency_PDF_20200212100533.pdf

Rig_Skid_Procedure_20200212100539.pdf

Other Variance attachment:

Requested_Exceptions___3_String_Revised_01312019_20200212100548.pdf

R616___CoC_for_hoses_12_18_17_20200212100604.pdf



Pressure Control Plan

Pressure Control Equipment

- Following setting of 13-3/8" Surface Casing Ameredev will install 13-5/8 MB4 Multi Bowl Casing Head by welding on a 13-5/8 SOW x 13-5/8" 5M in combination with 13-5/8 5M x 13-5/8 10M B-Sec to Land Intm #1 and a 13-5/8 10M x 13-5/8 10M shouldered to land C-Sec to Land Intm #2 (Installation procedure witnessed and verified by a manufacturer's representative).
- Casing will be tested to 1500 psi or .22 psi/ft whichever is greater for 30 minutes with <10% leak off, but will not exceed 70% of the burst rating per Onshore Order No. 2.
- Ameredev will install a 5M System Blowout Preventer (BOPE) with a 5M Annular Preventer and related equipment (BOPE). Full testing will be performed utilizing a full isolation test plug and limited to 5,000 psi MOP of MB4 Multi Bowl Casing Head. Pressure will be held for 10 min or until provisions of test are met on all valves and rams. The 5M Annular Preventer will be tested to 50% of approved working pressure (2,500 psi). Casing will be tested to 1500 psi or .22 psi/ft whichever is greater for 30 minutes with <10% leak off, but will not exceed 70% of the burst rating per Onshore Order No. 2.
- Setting of 9-5/8" (7-5/8" as applicable) Intermediate will be done by landing a wellhead hanger in the 13-5/8" 5M Bowl, Cementing and setting Well Head Packing seals and testing same. (Installation procedure witnessed and verified by a manufacturer's representative) Casing will be tested to 1500 psi or .22 psi/ft whichever is greater for 30 minutes with <10% leak off, but will not exceed 70% of the burst rating per Onshore Order No. 2.
- Full testing will be performed utilizing a full isolation test plug to 10,000 psi MOP of MB4 Multi Bowl B-Section. Pressure will be held for 10 min or until provisions of test are met on all valves and rams. The 5M Annular Preventer will be tested to 100% of approved working pressure (5,000 psi).
- Before drilling >20ft of new formation under the 9-5/8" (7-5/8" as applicable) Casing Shoe a pressure integrity test of the Casing Shoe will be performed to minimum of the MWE anticipated to control formation pressure to the next casing depth.
- Following setting of 5-1/2" Production Casing and adequate WOC time Ameredev will break 10M System Blowout Preventer (BOP) from 10M DOL-2 Casing Head, install annulus casing slips and test same (Installation procedure witnessed and verified by a manufacturer's representative) and install 11" 10M x 5-1/8" 15M Tubing Head (Installation procedure witnessed and verified by a manufacturer's representative). Ameredev will test head to 70% casing design and install Dry Hole cap with needle valve and pressure gauge to monitor well awaiting completion.



Pressure Control Plan

- Slow pump speeds will be taken daily by each crew and recorded on Daily Drilling Report after mudding up.
- A choke manifold and accumulator with floor and remote operating stations will be functional and in place after installation of BOPE, as well as full functioning mud gas separator.
- Weekly BOPE pit level drills will be conducted by each crew and recorded on Daily Drilling Report.
- BOP will be fully operated when out of hole and will be documented on the daily drilling log.
- All B.O.P.s and associated equipment will be tested in accordance with Onshore Order #2
- All B.O.P. testing will be done by an independent service company.
- The B.O.P. will be tested within 21 days of the original test if drilling takes more time than planned.
- Ameredev requests a variance to connect the B.O.P. choke outlet to the choke manifold using a co-flex hose with a 10,000 psi working pressure that has been tested to 15,000psi and is built to API Spec 16C. Once the flex line is installed it will be tied down with safety clamps. (certifications will be sent to Carlsbad BLM Office prior to install)
- Ameredev requests a variance to install a 5M Annular Preventer on the 10M System to drill the Production Hole below the 9-5/8" (7-5/8" as applicable) Intermediate Section. 5M Annular will be tested to 100% working pressure (5,000 psi). A full well control procedure will be included to isolate well bore.



5M Annular Preventer Variance Request and Well Control Procedures

Note: A copy of the Well Control Plan must be available at multiple locations on the rig for review by rig personnel, as well as review by the BLM PET/PE, and a copy must be maintained on the rig floor.

Dual Isolation Design for 5M Annular Exception

Ameredev will utilize 13-5/8” 10M (5M Annular) BOPE System consisting of:

- 13-5/8” 5M Annular
- 13-5/8” 10M Upper Pipe Rams
 - o 3-1/2” – 5-1/2” Variable Bore Ram
- 13-5/8” 10M Blind Rams
- 13-5/8” 10M Drilling Spool /w 2 - 4” 10M Outlets Double 10M Isolation Valves
- 13-5/8” 10M Lower Blind Rams
 - o 3-1/2” – 5-1/2” Variable Bore Ram

All drilling components and casing associated to exposure > 5000 psi BHP requiring a 10M system will have a double isolation (secondary barrier) below the 5M Annular that would provide a barrier to flow. The mud system will always be primary barrier, it will be maintained by adjusting values based on tourly mud tests and monitoring a PVT System to maintain static wellbore conditions, displacement procedures will be followed and recorded on daily drilling reports during tripping operations. Surge and swab pressure values will be calculated and maintained and static flow check will be monitored at previous casing shoe and verified static well conditions prior to tripping out of hole and again prior to pulling last joint of drill pipe through BOPE. The below table, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Drill Components	Size	Primary Barrier	Secondary Barrier	Third Barrier
Drillpipe	3-1/2”-5-1/2”	Drilling Fluid	Upper Pipe Rams	Lower Pipe Rams
HWDP Drillpipe	3-1/2”-5-1/2”	Drilling Fluid	Upper Pipe Rams	Lower Pipe Rams
Drill Collars	3-1/2”-5-1/2”	Drilling Fluid	Upper Pipe Rams	Lower Pipe Rams
Production Casing	3-1/2”-5-1/2”	Drilling Fluid	Upper Pipe Rams	Lower Pipe Rams
Open Hole	13-5/8	Drilling Fluid	Blind Rams	
All Drilling Components in 10M Environment will have OD that will allow full Operational RATED WORKING PRESSURE for system design. Kill line with minimum 2” ID will be available outside substructure with 10M Check Valve for OOH Kill Operations				

Well Control Procedures

Proper well control procedures are dependent to differentiating well conditions, to cover the basic well control operations there are will be standard drilling ahead, tripping pipe, tripping BHA, running casing, and pipe out of the hole/open hole scenarios that will be defined by procedures below. Initial Shut In Pressure can be taken against the Uppermost BOPE component the 5M Annular, pressure control can be transferred from the lesser 5M Annular to the 10M Upper Pipe Rams if needed. Shut In Pressures may be equal to or less than the Rated Working Pressure but at no time will the pressure on the annular preventer exceed the Rated Working Pressure of the annular. The annular will be tested to 5,000 psi. This will be the Rated Working Pressure of the annular preventer. All scenarios will be written such as shut in will be performed by closing the 10,000 psi Upper Pipe Rams for faster Accumulator pressure recovery to allow safer reaction to controlling wellbore pressure.

Shutting In While Drilling

1. Sound alarm signaling well control event to Rig Crew
2. Space out drill string to allow FOSV installation
3. Shut down pumps
4. Shut in Upper Pipe Rams and open HCR against Open Chokes and Valves
Open to working pressure gauge
5. Install open, full open safety valve and close valve, Close Chokes
6. Verify well is shut-in and flow has stopped
7. Notify supervisory personnel
8. Record data (SIDP, SICP, Pit Gain, and Time)
9. Hold pre-job safety meeting and discuss kill procedure

Shutting In While Tripping

1. Sound alarm signaling well control event to Rig Crew
2. Space out drill string to allow FOSV installation
3. Shut in Upper Pipe Rams and open HCR against Open Chokes and Valves
Open to working pressure gauge
4. Install open, full open safety valve and close valve, Close Chokes
5. Verify well is shut-in and flow has stopped
6. Notify supervisory personnel
7. Record data (SIDP, SICP, Pit Gain, and Time)
8. Hold pre-job safety meeting and discuss kill procedure

Shutting In While Running Casing

1. Sound alarm signaling well control event to Rig Crew
2. Space out casing to allow circulating swedge installation
3. Shut in Upper Pipe Rams and open HCR against Open Chokes and Valves
Open to working pressure gauge
4. Install circulating swedge, Close high pressure, low torque valves, Close Chokes
5. Verify well is shut-in and flow has stopped
6. Notify supervisory personnel
7. Record data (SIDP, SICP, Pit Gain, and Time)
8. Hold Pre-job safety meeting and discuss kill procedure

Shutting in while out of hole

1. Sound alarm signaling well control event to Rig Crew
2. Shut-in well: close blind rams and open HCR against Open Chokes and Valves
Open to working pressure gauge
3. Close Chokes, Verify well is shut-in and monitor pressures
4. Notify supervisory personnel
5. Record data (SIDP, SICP, Pit Gain, and Time)
6. Hold Pre-job safety meeting and discuss kill procedure

Shutting in prior to pulling BHA through stack

Prior to pulling last joint of drill pipe thru the stack space out and check flow
If flowing see steps below.

1. Sound alarm signaling well control event to Rig Crew
2. Shut in upper pipe ram and open HCR against Open Chokes and Valves Open
to working pressure gauge
3. Install open, full open safety valve and close valve, Close Chokes
4. Verify well is shut-in and flow has stopped
5. Notify supervisory personnel
6. Record data (SIDP, SICP, Pit Gain, and Time)
7. Hold pre-job safety meeting and discuss kill procedure

Shutting in while BHA is in the stack and ram preventer and combo immediately available

1. Sound alarm signaling well control event to Rig Crew
2. Space out BHA with upset just beneath the compatible pipe ram
3. Shut in upper compatible pipe ram and open HCR against Open Chokes and Valves Open to working pressure gauge
4. Install open, full open safety valve and close valve, Close Chokes
5. Verify well is shut-in and flow has stopped
6. Notify supervisory personnel
7. Record data (SIDP, SICP, Pit Gain, and Time)
8. Hold pre-job safety meeting and discuss kill procedure

*FOSV will be on rig floor in open position with operating handle for each type of connection utilized and tested to 10,000 psi

Shutting in while BHA is in the stack and no ram preventer or combo immediately available

1. Sound alarm signaling well control event to Rig Crew
2. If possible pick up high enough, to pull string clear and follow “Open Hole” scenario

If not possible to pick up high enough:

3. Stab Crossover, make up one joint/stand of drill pipe, and install open, full open safety valve (Leave Open)
4. Space out drill string with upset just beneath the compatible pipe ram.
5. Shut in upper compatible pipe ram and open HCR against Open Chokes and Valves Open to working pressure gauge
6. Close FOSV, Close Chokes, Verify well is shut-in and flow has stopped
7. Notify supervisory personnel
8. Record data (SIDP, SICP, Pit Gain, and Time)
9. Hold pre-job safety meeting and discuss kill procedure

13 5/8" 5M BOP
Configuration

CO-FLEX LINE TO
CHOKE MANIFOLD

2" KILL LINE

4" 10M VALVES &

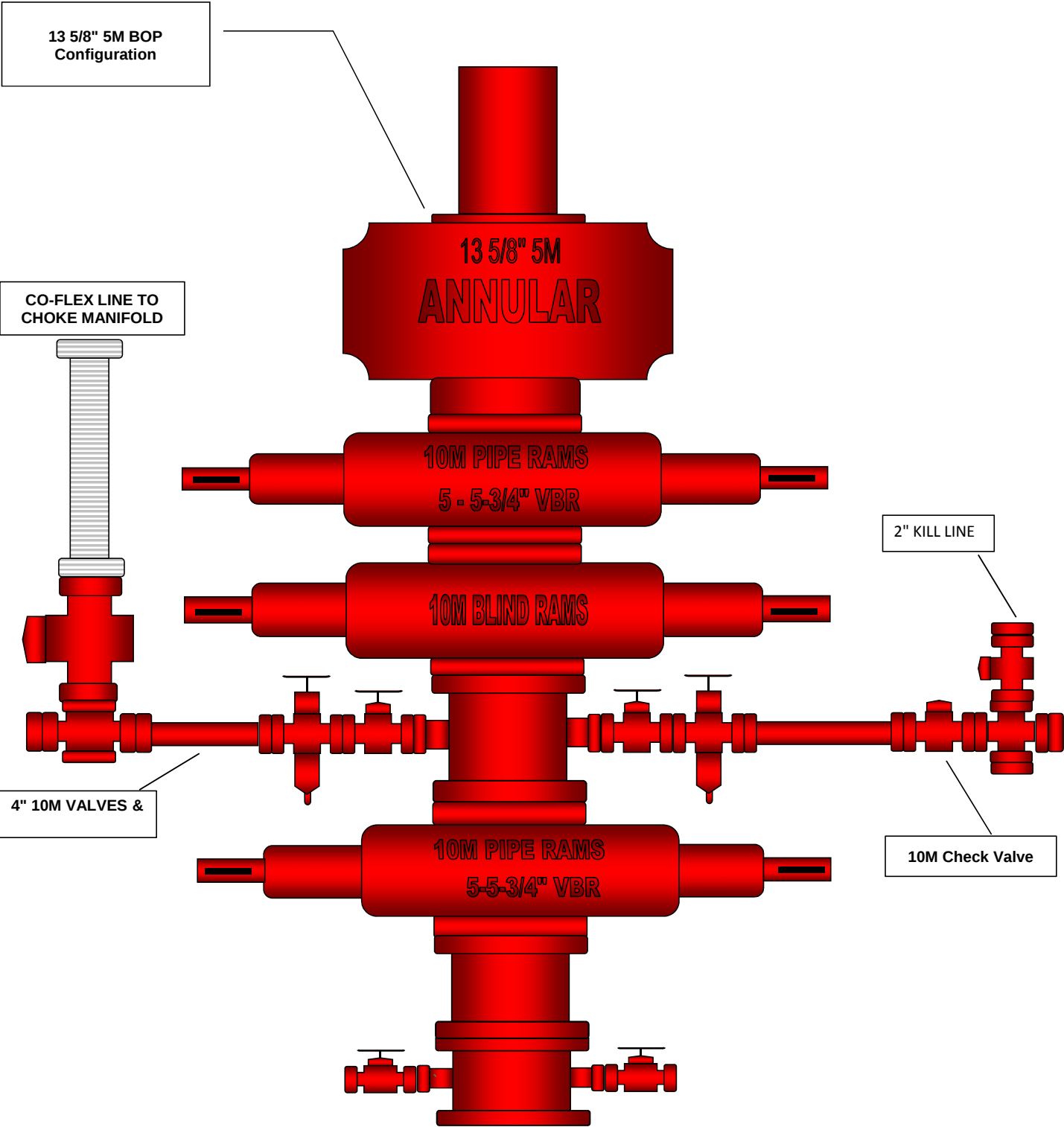
10M Check Valve

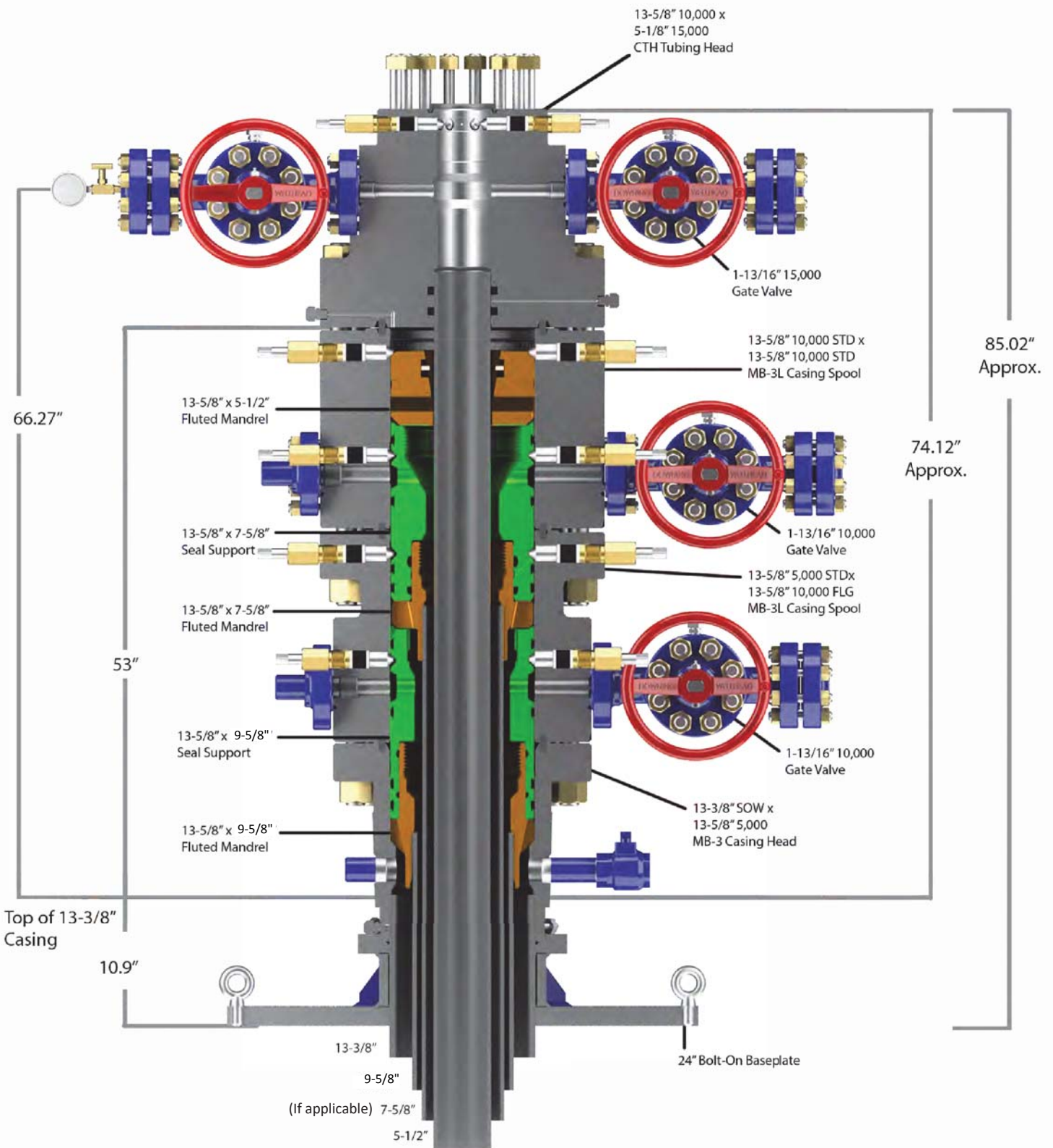
13 5/8" 5M
ANNULAR

10M PIPE RAMS
5 - 5-3/4" VBR

10M BLIND RAMS

10M PIPE RAMS
5-5-3/4" VBR





Quotation

Downing Wellhead Equipment

Oklahoma City,
Oklahoma - USA

Reference Data:

16925 AMEREDEV

Proprietary and Confidential

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TITLE:

AMEREDEV

DRAWN

CHECKED

APPROVED

SIZE

A

DWG. NO.

Scale:

Weight:

REV.

Sheet:



Ameredev II, LLC

Contingency Wellbore Schematic

Well: Golden Bell Fed Com 26-36-06 126H
SHL: Sec. 31 25S-36E 200' FSL & 1685' FEL
BHL: Sec. 07 26S-36E 50' FSL & 1672' FEL
 Lea, NM
Wellhead: A - 13-5/8" 10M x 13-5/8" SOW
 B - 13-5/8" 10M x 13-5/8" 10M
 C - 13-5/8" 10M x 13-5/8" 10M
 Tubing Spool - 7-1/16" 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: XXXXXX
AFE No.: XXXX-XXX
API No.: XXXXXXXXXXXXX
GL: 3,014'
Field: Delaware
Objective: Wolfcamp A
TVD: 12,284'
MD: 23,157'
Rig: TBD **KB 27'**
E-Mail: Wellsite2@ameredev.com

Hole Size	Formation Tops	Logs	Cement	Mud Weight
17.5"	Rustler 1,024'	954 Sacks	TOC 0'	8.4-8.6 ppg WBM
	13.375" 68# J-55 BTC 1,149'			
12.25"	Salado 1,500'	851 Sacks	TOC 0'	8.5-9.4 Diesel Brine Emulsion
	DV Tool with ACP 3,386'		50% Excess	
	Tansill 3,386'			
	Capitan Reef 3,796'			
	Lamar 5,030'			
	Bell Canyon 5,137'			
	No Casing 5,155'			
9.875"	Brushy Canyon 7,214'			
	Bone Spring Lime 8,322'			
	First Bone Spring 9,662'			
	Second Bone Spring 10,216'	2,408 Sacks	TOC 0'	10.5-12.5 ppg OBM
	Third Bone Spring Upper 10,751'		50% Excess	
	7.625" 29.7# L-80HC BTC 10,876'			
6.75"	Third Bone Spring 11,351'			
12° Build @ 11,819' MD thru 12,942' MD	Wolfcamp A 11,627'			
	Wolfcamp B 11,934'			
	5.5" 23# P110MS2 Anaconda GT 23,157'	1,803 Sacks	TOC 0'	
	Target Wolfcamp A 12284 TVD // 23157 MD		25% Excess	

Casing Design and Safety Factor Check

<i>Casing Specifications</i>						
Segment	Hole ID	Depth	OD	Weight	Grade	Coupling
Surface	17.5	1,149'	13.375	68	J-55	BTC
Intermediate	9.875	10,876'	7.625	40	HCL-80	BTC
Prod Segment A	6.75	11,819'	5.5	20	CYHP-110	BTC
Prod Segment B	6.75	23,157'	5.5	20	CYHP-110	BTC

<i>Check Surface Casing</i>				
OD Cplg	Body	Joint	Collapse	Burst
<i>inches</i>	<i>1000 lbs</i>	<i>1000 lbs</i>	<i>psi</i>	<i>psi</i>
14.375	1,069	915	4,100	3,450
<i>Safety Factors</i>				
1.56	13.69	11.71	7.99	0.65
<i>Check Intermediate Casing</i>				
OD Cplg	Body	Joint	Collapse	Burst
<i>inches</i>	<i>1000 lbs</i>	<i>1000 lbs</i>	<i>psi</i>	<i>psi</i>
7.625	940	558	6700	9460
<i>Safety Factors</i>				
1.13	2.91	2.02	1.26	1.19
<i>Check Prod Casing, Segment A</i>				
OD Cplg	Body	Joint	Collapse	Burst
<i>inches</i>	<i>1000 lbs</i>	<i>1000 lbs</i>	<i>psi</i>	<i>psi</i>
5.777	728	655	12780	14360
<i>Safety Factors</i>				
0.49	2.58	2.32	1.67	1.80
<i>Check Prod Casing, Segment B</i>				
OD Cplg	Body	Joint	Collapse	Burst
<i>inches</i>	<i>1000 lbs</i>	<i>1000 lbs</i>	<i>psi</i>	<i>psi</i>
5.777	728	655	12780	14360
<i>Safety Factors</i>				
0.49	68.07	61.24	1.60	1.80

PERFORMANCE DATA

API BTC

13.375 in

68.00 lbs/ft

J-55

Technical Data Sheet

Tubular Parameters

Size	13.375	in	Minimum Yield	55,000	psi
Nominal Weight	68.00	lbs/ft	Minimum Tensile	75,000	psi
Grade	J-55		Yield Load	1,069,000	lbs
PE Weight	66.10	lbs/ft	Tensile Load	1,458,000	lbs
Wall Thickness	0.480	in	Min. Internal Yield Pressure	3,500	psi
Nominal ID	12.415	in	Collapse Pressure	1,950	psi
Drift Diameter	12.259	in			
Nom. Pipe Body Area	19.445	in ²			

Connection Parameters

Connection OD	14.375	in
Coupling Length	10.625	in
Threads Per Inch	5.000	in
Standoff Thread Turns	1.000	
Make-Up Loss	4.513	in
Yield Load In Tension	---	lbs
Min. Internal Yield Pressure	3,500	psi

Printed on: February-13-2015

NOTE:

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API 5CT Casing Performance Data Sheet

Manufactured to specifications of API 5CT 9th edition and bears the API monogram.
Designed for enhanced performance through increased collapse resistance.

Grade	L80HC
-------	-------

Pipe Body Mechanical Properties

Minimum Yield Strength	80,000 psi
Maximum Yield Strength	95,000 psi
Minimum Tensile Strength	95,000 psi
Maximum Hardness	23.0 HRC

Sizes

OD	7 5/8 in
Nominal Wall Thickness	0.375 in
Nominal Weight, T&C	29.70 lb/ft
Nominal Weight, PE	29.06 lb/ft
Nominal ID	6.875 in
Standard Drift	6.750 in
Alternate Drift	N/A

Minimum Performance

Collapse Pressure	5,780 psi
Internal Pressure Yield	6,880 psi
Pipe body Tension Yield	683,000 lbs
Internal pressure leak resistance STC/LTC connections	6,880 psi
Internal pressure leak resistance BTC connections	6,880 psi

Inspection and Testing

Visual	OD Longitudinal and independent 3rd party SEA
NDT	Independent 3rd party full body EMI after hydrotest Calibration notch sensitivity: 10% of specified wall thickness

Color code

Pipe ends	One red, one brown and one blue band
Couplings	Red with one brown band

5.5 23# P-110 MS2 Anaconda GT

Pipe Body Data

Nominal OD	5.500	Inches
Wall Thickness	0.415	Inches
Weight	23.00	lb/ft
PE Weight	22.56	lb/ft
Nominal ID	4.670	Inches
Drift	4.545	Inches
Minimum Yield Strength	110,000	PSI
Minimum Tensile Strength	120,000	PSI
RBW	87.5%	Rating

Connection Data

Connection OD	5.748	Inches
Connection ID	4.590	Inches
Make-Up loss	5.592	Inches
Tension Efficiency	90%	Rating
Compression Efficiency	90%	Rating
Yield Strength in Tension	656,000	LBS.
Yield Strength in Compression	656,000	LBS.
MIYP (Burst)	14,530	PSI
Collapse Pressure	14,540	PSI
Uniaxial Bending	83	degrees

Make-Up torques

Yield torque	42,000	FT-LBS.
Max Operating Torque	33,600	FT-LBS.
Max Make-Up	20,000	FT-LBS.
Optimum Make-Up	16,500	FT-LBS.
Minimum Make-Up	13,000	FT-LBS.



Technical Sales Support: Rafael Escamilla Jr., Cell: 281-961-7704, jescamilla@ofsint.com

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H₂S Drilling Operation Plan

1. **All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:**
 - a. Characteristics of H₂S
 - b. Physical effects and hazards
 - c. Principal and operation of H₂S detectors, warning system and briefing areas
 - d. Evacuation procedure, routes and first aid
 - e. Proper use of safety equipment and life support systems
 - f. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.
2. **Briefing Area:**
 - a. Two perpendicular areas will be designated by signs and readily accessible.
 - b. Upon location entry there will be a designated area to establish all safety compliance criteria (1.) has been met.
3. **H₂S Detection and Alarm Systems:**
 - a. H₂S sensors/detectors shall be located on the drilling rig floor, in the base of the sub structure/cellar area, and on the mud pits in the shale shaker area. Additional H₂S detectors may be placed as deemed necessary. All detectors will be set to initiate visual alarm at 10 ppm and visual with audible at 14 ppm and all equipment will be calibrated every 30 days or as needed.
 - b. An audio alarm will be installed on the derrick floor and in the top doghouse.
4. **Protective Equipment for Essential Personnel:**
 - a. **Breathing Apparatus:**
 - i. Rescue Packs (SCBA) - 1 Unit shall be placed at each briefing area.
 - ii. Two (SCBA) Units will be stored in safety trailer on location.
 - iii. Work/Escapes packs - 1 Unit will be available on rig floor in doghouse for emergency evacuation for driller.
 - b. **Auxiliary Rescue Equipment:**
 - i. Stretcher
 - ii. 2 - OSHA full body harnesses
 - iii. 100 ft. 5/8" OSHA approved rope
 - iv. 1 - 20# class ABC fire extinguisher
5. **Windsock and/or Wind Streamers:**
 - a. Windsock at mud pit area should be high enough to be visible.
 - b. Windsock on the rig floor should be high enough to be visible.
6. **Communication:**
 - a. While working under mask scripting boards will be used for communication where applicable.
 - b. Hand signals will be used when script boards are not applicable.



H₂S Drilling Operation Plan

- c. Two way radios will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at Drilling Foreman's Office.

7. **Drill Stem Testing:** - No Planned DST at this time.

8. **Mud program:**

- a. If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers if necessary.

9. **Metallurgy:**

- a. All drill strings, casing, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
- b. Drilling Contractor supervisor will be required to be familiar with the effect H₂S has on tubular goods and other mechanical equipment provided through contractor.



H₂S Contingency Plan

Emergency Procedures

In the event of a release of H₂S, the first responder(s) must:

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response.
- Take precautions to avoid personal injury during this operation.
- Contact Operator and/or local officials the aid in operation. See list of phone numbers attached.
- Have received training in the:
 - Detection of H₂S and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air=1	2 ppm	N/A	1000 ppm

Contacting Authorities

Ameredev Operating LLC personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including direction to site. The following call list of essential and potential responders has been prepared for use during a release. Ameredev Operating LLC’s response must be in coordination with the State of New Mexico’s “Hazardous Materials Emergency Response Plan” (HMER)



H₂S Contingency Plan

Ameredev Operating LLC – Emergency Phone 737-300-4799			
Key Personnel:			
Name	Title	Office	Mobile
Floyd Hammond	Chief Operating officer	737-300-4724	512-783-6810
Zachary Boyd	Operations Superintendent	737-300-4725	432-385-6996
Blake Estrada	Construction Foreman		432-385-5831

<u>Artesia</u>			
Ambulance			911
State Police			575-746-2703
City Police			575-746-2703
Sheriff's Office			575-746-9888
Fire Department			575-746-2701
Local Emergency Planning Committee			575-746-2122
New Mexico Oil Conservation Division			575-748-1283
<u>Carlsbad</u>			
Ambulance			911
State Police			575-885-3137
City Police			575-885-2111
Sheriff's Office			575-887-7551
Fire Department			575-887-3798
Local Emergency Planning Committee			575-887-6544
US Bureau of Land Management			575-887-6544
<u>Santa Fe</u>			
New Mexico Emergency Response Commission (Santa Fe)			505-476-9600
New Mexico Emergency Response Commission (Santa Fe) 24 Hrs			505-827-9126
New Mexico State Emergency Operations Center			505-476-9635
<u>National</u>			
National Emergency Response Center (Washington, D.C.)			800-424-8802
<u>Medical</u>			
Flight for Life - 4000 24th St.; Lubbock, TX			806-743-9911
Aerocare - R3, Box 49F; Lubbock, TX			806-747-8923
Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM			505-842-4433
.'SB Air Med Service - 2505 Clark Carr Loop S.E.; Albuquerque, NM			505-842-4949



Ameredev Operating, LLC.

NAN/GB

NAN/GB #7N

Golden Bell 126H

Wellbore #1

Plan: Design #1

Lease Penetration Section Line Foot

08 January, 2020



Ameredev Operating, LLC
Lease Penetration Section Line Footages

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Golden Bell 126H
Project:	NAN/GB	TVD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	MD Reference:	KB @ 3041.0usft
Well:	Golden Bell 126H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Project	NAN/GB		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		NAN/GB #7N			
Site Position:		Northing:	394,417.22 usft	Latitude:	32° 4' 48.458 N
From:	Lat/Long	Easting:	861,061.92 usft	Longitude:	103° 18' 3.781 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.55 °

Well	Golden Bell 126H					
Well Position	+N/-S	0.0 usft	Northing:	394,417.03 usft	Latitude:	32° 4' 48.458 N
	+E/-W	0.0 usft	Easting:	861,041.91 usft	Longitude:	103° 18' 4.014 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,014.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/5/2018	6.66	59.95	47,732.75067936

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.18

Survey Tool Program	Date	1/8/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	23,157.4	Design #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
100.0	0.00	0.00	100.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
200.0	0.00	0.00	200.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
300.0	0.00	0.00	300.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
400.0	0.00	0.00	400.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
500.0	0.00	0.00	500.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
600.0	0.00	0.00	600.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
700.0	0.00	0.00	700.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
800.0	0.00	0.00	800.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
900.0	0.00	0.00	900.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
1,000.0	0.00	0.00	1,000.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
1,100.0	0.00	0.00	1,100.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Golden Bell 126H
Project:	NAN/GB	TVD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	MD Reference:	KB @ 3041.0usft
Well:	Golden Bell 126H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
1,200.0	0.00	0.00	1,200.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
1,300.0	0.00	0.00	1,300.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
1,400.0	0.00	0.00	1,400.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
1,500.0	0.00	0.00	1,500.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
1,600.0	0.00	0.00	1,600.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
1,700.0	0.00	0.00	1,700.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
1,800.0	0.00	0.00	1,800.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
1,900.0	0.00	0.00	1,900.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
2,000.0	0.00	0.00	2,000.0	199.8	-1,685.0	32° 4' 48.458 N	103° 18' 4.014 W
2,100.0	2.00	330.00	2,100.0	201.3	-1,685.9	32° 4' 48.473 N	103° 18' 4.024 W
2,200.0	4.00	330.00	2,199.8	205.9	-1,688.5	32° 4' 48.518 N	103° 18' 4.054 W
2,300.0	6.00	330.00	2,299.5	213.4	-1,692.9	32° 4' 48.593 N	103° 18' 4.103 W
2,400.0	6.00	330.00	2,398.9	222.5	-1,698.1	32° 4' 48.683 N	103° 18' 4.163 W
2,500.0	6.00	330.00	2,498.4	231.5	-1,703.3	32° 4' 48.773 N	103° 18' 4.223 W
2,600.0	6.00	330.00	2,597.8	240.6	-1,708.5	32° 4' 48.863 N	103° 18' 4.283 W
2,700.0	6.00	330.00	2,697.3	249.6	-1,713.8	32° 4' 48.953 N	103° 18' 4.342 W
2,800.0	6.00	330.00	2,796.7	258.7	-1,719.0	32° 4' 49.043 N	103° 18' 4.402 W
2,900.0	6.00	330.00	2,896.2	267.7	-1,724.2	32° 4' 49.134 N	103° 18' 4.462 W
3,000.0	6.00	330.00	2,995.6	276.8	-1,729.4	32° 4' 49.224 N	103° 18' 4.521 W
3,100.0	6.00	330.00	3,095.1	285.8	-1,734.7	32° 4' 49.314 N	103° 18' 4.581 W
3,200.0	6.00	330.00	3,194.5	294.9	-1,739.9	32° 4' 49.404 N	103° 18' 4.641 W
3,300.0	6.00	330.00	3,294.0	303.9	-1,745.1	32° 4' 49.494 N	103° 18' 4.701 W
3,400.0	6.00	330.00	3,393.4	313.0	-1,750.3	32° 4' 49.584 N	103° 18' 4.760 W
3,500.0	6.00	330.00	3,492.9	322.0	-1,755.6	32° 4' 49.674 N	103° 18' 4.820 W
3,600.0	6.00	330.00	3,592.3	331.1	-1,760.8	32° 4' 49.764 N	103° 18' 4.880 W
3,700.0	6.00	330.00	3,691.8	340.1	-1,766.0	32° 4' 49.854 N	103° 18' 4.940 W
3,800.0	6.00	330.00	3,791.2	349.2	-1,771.3	32° 4' 49.944 N	103° 18' 4.999 W
3,900.0	6.00	330.00	3,890.7	358.2	-1,776.5	32° 4' 50.034 N	103° 18' 5.059 W
4,000.0	6.00	330.00	3,990.1	367.3	-1,781.7	32° 4' 50.124 N	103° 18' 5.119 W
4,100.0	6.00	330.00	4,089.6	376.3	-1,786.9	32° 4' 50.214 N	103° 18' 5.179 W
4,200.0	6.00	330.00	4,189.0	385.4	-1,792.2	32° 4' 50.304 N	103° 18' 5.238 W
4,300.0	6.00	330.00	4,288.5	394.4	-1,797.4	32° 4' 50.394 N	103° 18' 5.298 W
4,400.0	6.00	330.00	4,387.9	403.5	-1,802.6	32° 4' 50.485 N	103° 18' 5.358 W
4,500.0	6.00	330.00	4,487.4	412.6	-1,807.8	32° 4' 50.575 N	103° 18' 5.417 W
4,600.0	6.00	330.00	4,586.9	421.6	-1,813.1	32° 4' 50.665 N	103° 18' 5.477 W
4,700.0	6.00	330.00	4,686.3	430.7	-1,818.3	32° 4' 50.755 N	103° 18' 5.537 W
4,800.0	6.00	330.00	4,785.8	439.7	-1,823.5	32° 4' 50.845 N	103° 18' 5.597 W
4,900.0	6.00	330.00	4,885.2	448.8	-1,828.7	32° 4' 50.935 N	103° 18' 5.656 W
5,000.0	6.00	330.00	4,984.7	457.8	-1,834.0	32° 4' 51.025 N	103° 18' 5.716 W
5,100.0	6.00	330.00	5,084.1	466.9	-1,839.2	32° 4' 51.115 N	103° 18' 5.776 W
5,200.0	6.00	330.00	5,183.6	475.9	-1,844.4	32° 4' 51.205 N	103° 18' 5.836 W
5,300.0	6.00	330.00	5,283.0	485.0	-1,849.6	32° 4' 51.295 N	103° 18' 5.895 W
5,400.0	6.00	330.00	5,382.5	494.0	-1,854.9	32° 4' 51.385 N	103° 18' 5.955 W
5,500.0	6.00	330.00	5,481.9	503.1	-1,860.1	32° 4' 51.475 N	103° 18' 6.015 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Golden Bell 126H
Project:	NAN/GB	TVD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	MD Reference:	KB @ 3041.0usft
Well:	Golden Bell 126H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
5,518.2	6.00	330.00	5,500.0	504.7	-1,861.1	32° 4' 51.492 N	103° 18' 6.026 W
5,600.0	4.36	330.00	5,581.5	511.1	-1,864.7	32° 4' 51.555 N	103° 18' 6.068 W
5,700.0	2.36	330.00	5,681.3	516.2	-1,867.7	32° 4' 51.606 N	103° 18' 6.101 W
5,800.0	0.36	330.00	5,781.3	518.3	-1,868.9	32° 4' 51.626 N	103° 18' 6.115 W
5,818.2	0.00	0.00	5,799.5	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
5,900.0	0.00	0.00	5,881.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
6,000.0	0.00	0.00	5,981.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
6,100.0	0.00	0.00	6,081.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
6,200.0	0.00	0.00	6,181.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
6,300.0	0.00	0.00	6,281.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
6,400.0	0.00	0.00	6,381.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
6,500.0	0.00	0.00	6,481.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
6,600.0	0.00	0.00	6,581.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
6,700.0	0.00	0.00	6,681.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
6,800.0	0.00	0.00	6,781.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
6,900.0	0.00	0.00	6,881.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
7,000.0	0.00	0.00	6,981.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
7,100.0	0.00	0.00	7,081.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
7,200.0	0.00	0.00	7,181.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
7,300.0	0.00	0.00	7,281.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
7,400.0	0.00	0.00	7,381.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
7,500.0	0.00	0.00	7,481.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
7,600.0	0.00	0.00	7,581.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
7,700.0	0.00	0.00	7,681.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
7,800.0	0.00	0.00	7,781.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
7,900.0	0.00	0.00	7,881.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
8,000.0	0.00	0.00	7,981.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
8,100.0	0.00	0.00	8,081.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
8,200.0	0.00	0.00	8,181.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
8,300.0	0.00	0.00	8,281.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
8,400.0	0.00	0.00	8,381.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
8,500.0	0.00	0.00	8,481.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
8,600.0	0.00	0.00	8,581.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
8,700.0	0.00	0.00	8,681.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
8,800.0	0.00	0.00	8,781.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
8,900.0	0.00	0.00	8,881.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
9,000.0	0.00	0.00	8,981.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
9,100.0	0.00	0.00	9,081.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
9,200.0	0.00	0.00	9,181.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
9,300.0	0.00	0.00	9,281.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
9,400.0	0.00	0.00	9,381.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
9,500.0	0.00	0.00	9,481.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
9,600.0	0.00	0.00	9,581.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
9,700.0	0.00	0.00	9,681.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Golden Bell 126H
Project:	NAN/GB	TVD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	MD Reference:	KB @ 3041.0usft
Well:	Golden Bell 126H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
9,800.0	0.00	0.00	9,781.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
9,900.0	0.00	0.00	9,881.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
10,000.0	0.00	0.00	9,981.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
10,100.0	0.00	0.00	10,081.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
10,200.0	0.00	0.00	10,181.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
10,300.0	0.00	0.00	10,281.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
10,400.0	0.00	0.00	10,381.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
10,500.0	0.00	0.00	10,481.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
10,600.0	0.00	0.00	10,581.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
10,700.0	0.00	0.00	10,681.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
10,800.0	0.00	0.00	10,781.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
10,900.0	0.00	0.00	10,881.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
11,000.0	0.00	0.00	10,981.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
11,100.0	0.00	0.00	11,081.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
11,200.0	0.00	0.00	11,181.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
11,300.0	0.00	0.00	11,281.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
11,400.0	0.00	0.00	11,381.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
11,500.0	0.00	0.00	11,481.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
11,600.0	0.00	0.00	11,581.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
11,700.0	0.00	0.00	11,681.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
11,800.0	0.00	0.00	11,781.3	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
11,818.7	0.00	0.00	11,800.0	518.3	-1,868.9	32° 4' 51.627 N	103° 18' 6.115 W
GB126 KOP							
11,900.0	9.75	163.38	11,880.9	511.7	-1,866.9	32° 4' 51.561 N	103° 18' 6.093 W
12,000.0	21.75	163.38	11,977.0	485.7	-1,859.2	32° 4' 51.304 N	103° 18' 6.006 W
12,100.0	33.75	163.38	12,065.3	441.2	-1,845.9	32° 4' 50.862 N	103° 18' 5.856 W
12,200.0	45.75	163.38	12,142.0	380.0	-1,827.6	32° 4' 50.255 N	103° 18' 5.651 W
12,300.0	57.75	163.38	12,203.8	304.9	-1,805.2	32° 4' 49.509 N	103° 18' 5.399 W
12,400.0	69.75	163.38	12,248.0	219.1	-1,779.6	32° 4' 48.658 N	103° 18' 5.111 W
12,500.0	81.75	163.38	12,272.5	126.4	-1,751.9	32° 4' 47.738 N	103° 18' 4.800 W
12,558.7	88.80	163.38	12,277.4	70.4	-1,735.2	32° 4' 47.182 N	103° 18' 4.612 W
12,600.0	88.80	163.38	12,278.2	30.8	-1,723.4	32° 4' 46.790 N	103° 18' 4.479 W
12,632.2	88.80	163.38	12,278.9	0.0	-1,714.2	32° 4' 46.483 N	103° 18' 4.375 W
GB126 into NMNM137471							
12,700.0	88.80	163.38	12,280.3	-65.0	-1,694.8	32° 4' 45.839 N	103° 18' 4.157 W
12,748.2	88.80	163.38	12,281.3	-111.2	-1,681.0	32° 4' 45.381 N	103° 18' 4.002 W
Shifted GB126 FTP							
12,800.0	88.80	163.38	12,282.4	-160.8	-1,666.2	32° 4' 44.888 N	103° 18' 3.836 W
12,807.9	88.80	163.38	12,282.6	-168.4	-1,664.0	32° 4' 44.813 N	103° 18' 3.810 W
12,900.0	89.62	174.40	12,283.9	-258.6	-1,646.3	32° 4' 43.919 N	103° 18' 3.614 W
12,941.5	90.00	179.37	12,284.0	-300.0	-1,644.0	32° 4' 43.509 N	103° 18' 3.593 W
Shifted GB126 EOC							
13,000.0	90.00	179.37	12,284.0	-358.5	-1,643.4	32° 4' 42.930 N	103° 18' 3.592 W
13,100.0	90.00	179.37	12,284.0	-458.5	-1,642.2	32° 4' 41.940 N	103° 18' 3.590 W
13,200.0	90.00	179.37	12,284.0	-558.5	-1,641.1	32° 4' 40.951 N	103° 18' 3.588 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Golden Bell 126H
Project:	NAN/GB	TVD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	MD Reference:	KB @ 3041.0usft
Well:	Golden Bell 126H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
13,300.0	90.00	179.37	12,284.0	-658.5	-1,640.0	32° 4' 39.961 N	103° 18' 3.586 W
13,400.0	90.00	179.37	12,284.0	-758.5	-1,638.9	32° 4' 38.972 N	103° 18' 3.585 W
13,500.0	90.00	179.37	12,284.0	-858.5	-1,637.8	32° 4' 37.982 N	103° 18' 3.583 W
13,600.0	90.00	179.37	12,284.0	-958.5	-1,636.7	32° 4' 36.993 N	103° 18' 3.581 W
13,700.0	90.00	179.37	12,284.0	-1,058.4	-1,635.6	32° 4' 36.003 N	103° 18' 3.580 W
13,800.0	90.00	179.37	12,284.0	-1,158.4	-1,634.5	32° 4' 35.014 N	103° 18' 3.578 W
13,900.0	90.00	179.37	12,284.0	-1,258.4	-1,633.4	32° 4' 34.024 N	103° 18' 3.576 W
14,000.0	90.00	179.37	12,284.0	-1,358.4	-1,632.3	32° 4' 33.035 N	103° 18' 3.574 W
14,100.0	90.00	179.37	12,284.0	-1,458.4	-1,631.2	32° 4' 32.045 N	103° 18' 3.573 W
14,200.0	90.00	179.37	12,284.0	-1,558.4	-1,630.1	32° 4' 31.056 N	103° 18' 3.571 W
14,300.0	90.00	179.37	12,284.0	-1,658.4	-1,629.0	32° 4' 30.066 N	103° 18' 3.569 W
14,400.0	90.00	179.37	12,284.0	-1,758.4	-1,627.9	32° 4' 29.077 N	103° 18' 3.568 W
14,500.0	90.00	179.37	12,284.0	-1,858.4	-1,626.8	32° 4' 28.087 N	103° 18' 3.566 W
14,600.0	90.00	179.37	12,284.0	-1,958.4	-1,625.7	32° 4' 27.098 N	103° 18' 3.564 W
14,700.0	90.00	179.37	12,284.0	-2,058.4	-1,624.6	32° 4' 26.108 N	103° 18' 3.562 W
14,800.0	90.00	179.37	12,284.0	-2,158.4	-1,623.5	32° 4' 25.119 N	103° 18' 3.561 W
14,900.0	90.00	179.37	12,284.0	-2,258.4	-1,622.4	32° 4' 24.129 N	103° 18' 3.559 W
15,000.0	90.00	179.37	12,284.0	-2,358.4	-1,621.3	32° 4' 23.140 N	103° 18' 3.557 W
15,100.0	90.00	179.37	12,284.0	-2,458.4	-1,620.2	32° 4' 22.150 N	103° 18' 3.556 W
15,200.0	90.00	179.37	12,284.0	-2,558.4	-1,619.1	32° 4' 21.160 N	103° 18' 3.554 W
15,300.0	90.00	179.37	12,284.0	-2,658.4	-1,618.0	32° 4' 20.171 N	103° 18' 3.552 W
15,400.0	90.00	179.37	12,284.0	-2,758.3	-1,616.8	32° 4' 19.181 N	103° 18' 3.550 W
15,500.0	90.00	179.37	12,284.0	-2,858.3	-1,615.7	32° 4' 18.192 N	103° 18' 3.549 W
15,600.0	90.00	179.37	12,284.0	-2,958.3	-1,614.6	32° 4' 17.202 N	103° 18' 3.547 W
15,700.0	90.00	179.37	12,284.0	-3,058.3	-1,613.5	32° 4' 16.213 N	103° 18' 3.545 W
15,800.0	90.00	179.37	12,284.0	-3,158.3	-1,612.4	32° 4' 15.223 N	103° 18' 3.544 W
15,900.0	90.00	179.37	12,284.0	-3,258.3	-1,611.3	32° 4' 14.234 N	103° 18' 3.542 W
16,000.0	90.00	179.37	12,284.0	-3,358.3	-1,610.2	32° 4' 13.244 N	103° 18' 3.540 W
16,100.0	90.00	179.37	12,284.0	-3,458.3	-1,609.1	32° 4' 12.255 N	103° 18' 3.538 W
16,200.0	90.00	179.37	12,284.0	-3,558.3	-1,608.0	32° 4' 11.265 N	103° 18' 3.537 W
16,300.0	90.00	179.37	12,284.0	-3,658.3	-1,606.9	32° 4' 10.276 N	103° 18' 3.535 W
16,400.0	90.00	179.37	12,284.0	-3,758.3	-1,605.8	32° 4' 9.286 N	103° 18' 3.533 W
16,500.0	90.00	179.37	12,284.0	-3,858.3	-1,604.7	32° 4' 8.297 N	103° 18' 3.532 W
16,600.0	90.00	179.37	12,284.0	-3,958.3	-1,603.6	32° 4' 7.307 N	103° 18' 3.530 W
16,700.0	90.00	179.37	12,284.0	-4,058.3	-1,602.5	32° 4' 6.318 N	103° 18' 3.528 W
16,800.0	90.00	179.37	12,284.0	-4,158.3	-1,601.4	32° 4' 5.328 N	103° 18' 3.526 W
16,900.0	90.00	179.37	12,284.0	-4,258.3	-1,600.3	32° 4' 4.339 N	103° 18' 3.525 W
17,000.0	90.00	179.37	12,284.0	-4,358.2	-1,599.2	32° 4' 3.349 N	103° 18' 3.523 W
17,100.0	90.00	179.37	12,284.0	-4,458.2	-1,598.1	32° 4' 2.360 N	103° 18' 3.521 W
17,200.0	90.00	179.37	12,284.0	-4,558.2	-1,597.0	32° 4' 1.370 N	103° 18' 3.520 W
17,300.0	90.00	179.37	12,284.0	-4,658.2	-1,595.9	32° 4' 0.381 N	103° 18' 3.518 W
17,400.0	90.00	179.37	12,284.0	-4,758.2	-1,594.8	32° 3' 59.391 N	103° 18' 3.516 W
17,500.0	90.00	179.37	12,284.0	-4,858.2	-1,593.7	32° 3' 58.402 N	103° 18' 3.514 W
17,600.0	90.00	179.37	12,284.0	-4,958.2	-1,592.6	32° 3' 57.412 N	103° 18' 3.513 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Golden Bell 126H
Project:	NAN/GB	TVD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	MD Reference:	KB @ 3041.0usft
Well:	Golden Bell 126H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
17,700.0	90.00	179.37	12,284.0	-5,058.2	-1,591.4	32° 3' 56.423 N	103° 18' 3.511 W
17,800.0	90.00	179.37	12,284.0	-5,158.2	-1,590.3	32° 3' 55.433 N	103° 18' 3.509 W
17,900.0	90.00	179.37	12,284.0	-5,258.2	-1,589.2	32° 3' 54.444 N	103° 18' 3.508 W
17,921.8	90.00	179.37	12,284.0	-5,280.0	-1,589.0	32° 3' 54.228 N	103° 18' 3.507 W
GB126 into NMNM137472							
18,000.0	90.00	179.37	12,284.0	-5,358.2	-1,588.1	32° 3' 53.454 N	103° 18' 3.506 W
18,100.0	90.00	179.37	12,284.0	-5,458.2	-1,587.0	32° 3' 52.465 N	103° 18' 3.504 W
18,200.0	90.00	179.37	12,284.0	-5,558.2	-1,585.9	32° 3' 51.475 N	103° 18' 3.502 W
18,300.0	90.00	179.37	12,284.0	-5,658.2	-1,584.8	32° 3' 50.486 N	103° 18' 3.501 W
18,400.0	90.00	179.37	12,284.0	-5,758.2	-1,583.7	32° 3' 49.496 N	103° 18' 3.499 W
18,500.0	90.00	179.37	12,284.0	-5,858.2	-1,582.6	32° 3' 48.507 N	103° 18' 3.497 W
18,600.0	90.00	179.37	12,284.0	-5,958.2	-1,581.5	32° 3' 47.517 N	103° 18' 3.496 W
18,700.0	90.00	179.37	12,284.0	-6,058.1	-1,580.4	32° 3' 46.528 N	103° 18' 3.494 W
18,800.0	90.00	179.37	12,284.0	-6,158.1	-1,579.3	32° 3' 45.538 N	103° 18' 3.492 W
18,900.0	90.00	179.37	12,284.0	-6,258.1	-1,578.2	32° 3' 44.548 N	103° 18' 3.490 W
19,000.0	90.00	179.37	12,284.0	-6,358.1	-1,577.1	32° 3' 43.559 N	103° 18' 3.489 W
19,100.0	90.00	179.37	12,284.0	-6,458.1	-1,576.0	32° 3' 42.569 N	103° 18' 3.487 W
19,200.0	90.00	179.37	12,284.0	-6,558.1	-1,574.9	32° 3' 41.580 N	103° 18' 3.485 W
19,300.0	90.00	179.37	12,284.0	-6,658.1	-1,573.8	32° 3' 40.590 N	103° 18' 3.483 W
19,400.0	90.00	179.37	12,284.0	-6,758.1	-1,572.7	32° 3' 39.601 N	103° 18' 3.482 W
19,500.0	90.00	179.37	12,284.0	-6,858.1	-1,571.6	32° 3' 38.611 N	103° 18' 3.480 W
19,600.0	90.00	179.37	12,284.0	-6,958.1	-1,570.5	32° 3' 37.622 N	103° 18' 3.478 W
19,700.0	90.00	179.37	12,284.0	-7,058.1	-1,569.4	32° 3' 36.632 N	103° 18' 3.477 W
19,800.0	90.00	179.37	12,284.0	-7,158.1	-1,568.3	32° 3' 35.643 N	103° 18' 3.475 W
19,900.0	90.00	179.37	12,284.0	-7,258.1	-1,567.1	32° 3' 34.653 N	103° 18' 3.473 W
20,000.0	90.00	179.37	12,284.0	-7,358.1	-1,566.0	32° 3' 33.664 N	103° 18' 3.471 W
20,100.0	90.00	179.37	12,284.0	-7,458.1	-1,564.9	32° 3' 32.674 N	103° 18' 3.470 W
20,200.0	90.00	179.37	12,284.0	-7,558.1	-1,563.8	32° 3' 31.685 N	103° 18' 3.468 W
20,300.0	90.00	179.37	12,284.0	-7,658.0	-1,562.7	32° 3' 30.695 N	103° 18' 3.466 W
20,400.0	90.00	179.37	12,284.0	-7,758.0	-1,561.6	32° 3' 29.706 N	103° 18' 3.465 W
20,500.0	90.00	179.37	12,284.0	-7,858.0	-1,560.5	32° 3' 28.716 N	103° 18' 3.463 W
20,600.0	90.00	179.37	12,284.0	-7,958.0	-1,559.4	32° 3' 27.727 N	103° 18' 3.461 W
20,700.0	90.00	179.37	12,284.0	-8,058.0	-1,558.3	32° 3' 26.737 N	103° 18' 3.459 W
20,800.0	90.00	179.37	12,284.0	-8,158.0	-1,557.2	32° 3' 25.748 N	103° 18' 3.458 W
20,900.0	90.00	179.37	12,284.0	-8,258.0	-1,556.1	32° 3' 24.758 N	103° 18' 3.456 W
21,000.0	90.00	179.37	12,284.0	-8,358.0	-1,555.0	32° 3' 23.769 N	103° 18' 3.454 W
21,100.0	90.00	179.37	12,284.0	-8,458.0	-1,553.9	32° 3' 22.779 N	103° 18' 3.453 W
21,200.0	90.00	179.37	12,284.0	-8,558.0	-1,552.8	32° 3' 21.790 N	103° 18' 3.451 W
21,300.0	90.00	179.37	12,284.0	-8,658.0	-1,551.7	32° 3' 20.800 N	103° 18' 3.449 W
21,400.0	90.00	179.37	12,284.0	-8,758.0	-1,550.6	32° 3' 19.811 N	103° 18' 3.447 W
21,500.0	90.00	179.37	12,284.0	-8,858.0	-1,549.5	32° 3' 18.821 N	103° 18' 3.446 W
21,600.0	90.00	179.37	12,284.0	-8,958.0	-1,548.4	32° 3' 17.832 N	103° 18' 3.444 W
21,700.0	90.00	179.37	12,284.0	-9,058.0	-1,547.3	32° 3' 16.842 N	103° 18' 3.442 W
21,800.0	90.00	179.37	12,284.0	-9,158.0	-1,546.2	32° 3' 15.853 N	103° 18' 3.441 W
21,900.0	90.00	179.37	12,284.0	-9,257.9	-1,545.1	32° 3' 14.863 N	103° 18' 3.439 W



Ameredev Operating, LLC
Lease Penetration Section Line Footages

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Golden Bell 126H
Project:	NAN/GB	TVD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	MD Reference:	KB @ 3041.0usft
Well:	Golden Bell 126H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
22,000.0	90.00	179.37	12,284.0	-9,357.9	-1,544.0	32° 3' 13.873 N	103° 18' 3.437 W
22,100.0	90.00	179.37	12,284.0	-9,457.9	-1,542.9	32° 3' 12.884 N	103° 18' 3.435 W
22,200.0	90.00	179.37	12,284.0	-9,557.9	-1,541.7	32° 3' 11.894 N	103° 18' 3.434 W
22,300.0	90.00	179.37	12,284.0	-9,657.9	-1,540.6	32° 3' 10.905 N	103° 18' 3.432 W
22,400.0	90.00	179.37	12,284.0	-9,757.9	-1,539.5	32° 3' 9.915 N	103° 18' 3.430 W
22,500.0	90.00	179.37	12,284.0	-9,857.9	-1,538.4	32° 3' 8.926 N	103° 18' 3.428 W
22,600.0	90.00	179.37	12,284.0	-9,957.9	-1,537.3	32° 3' 7.936 N	103° 18' 3.427 W
22,700.0	90.00	179.37	12,284.0	-10,057.9	-1,536.2	32° 3' 6.947 N	103° 18' 3.425 W
22,800.0	90.00	179.37	12,284.0	-10,157.9	-1,535.1	32° 3' 5.957 N	103° 18' 3.423 W
22,900.0	90.00	179.37	12,284.0	-10,257.9	-1,534.0	32° 3' 4.968 N	103° 18' 3.422 W
23,000.0	90.00	179.37	12,284.0	-10,357.9	-1,532.9	32° 3' 3.978 N	103° 18' 3.420 W
23,100.0	90.00	179.37	12,284.0	-10,457.9	-1,531.8	32° 3' 2.989 N	103° 18' 3.418 W
Shifted GB126 LTP							
23,157.4	90.00	179.37	12,284.0	-10,515.3	-1,531.2	32° 3' 2.421 N	103° 18' 3.417 W
Shifted GB126 BHL							

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
11,818.7	11,800.0	318.5	-183.9	GB126 KOP	
12,632.2	12,278.9	-199.8	-29.2	GB126 into NMNM137471	
17,921.8	12,284.0	-5,479.8	96.0	GB126 into NMNM137472	

Checked By: _____	Approved By: _____	Date: _____
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Ameredev Operating, LLC.

NAN/GB

NAN/GB #7N

Golden Bell 126H

Wellbore #1

Plan: Design #1

Standard Planning Report

08 January, 2020



Ameredev Operating, LLC

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Golden Bell 126H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3041.0usft
Project:	NAN/GB	MD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	North Reference:	Grid
Well:	Golden Bell 126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	NAN/GB		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		NAN/GB #7N			
Site Position:		Northing:	394,417.22 usft	Latitude:	32° 4' 48.458 N
From:	Lat/Long	Easting:	861,061.92 usft	Longitude:	103° 18' 3.781 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.55

Well	Golden Bell 126H					
Well Position	+N/-S	-0.2 usft	Northing:	394,417.03 usft	Latitude:	32° 4' 48.458 N
	+E/-W	-20.0 usft	Easting:	861,041.91 usft	Longitude:	103° 18' 4.014 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,014.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/5/2018	6.66	59.95	47,732.75067936

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.18

Plan Survey Tool Program	Date	1/8/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	23,157.4	Design #1 (Wellbore #1)	MWD
				OWSG MWD - Standard



Ameredev Operating, LLC
Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Golden Bell 126H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3041.0usft
Project:	NAN/GB	MD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	North Reference:	Grid
Well:	Golden Bell 126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,300.0	6.00	330.00	2,299.5	13.6	-7.8	2.00	2.00	0.00	330.00	
5,518.2	6.00	330.00	5,500.0	304.9	-176.0	0.00	0.00	0.00	0.00	
5,818.2	0.00	0.00	5,799.5	318.5	-183.9	2.00	-2.00	0.00	180.00	
11,818.7	0.00	0.00	11,800.0	318.5	-183.9	0.00	0.00	0.00	0.00	
12,558.7	88.80	163.38	12,277.4	-129.4	-50.2	12.00	12.00	0.00	163.38	
12,807.9	88.80	163.38	12,282.6	-368.2	21.0	0.00	0.00	0.00	0.00	
12,941.5	90.00	179.37	12,284.0	-499.8	41.0	12.00	0.90	11.97	85.81	Shifted GB126 EOC
23,157.4	90.00	179.37	12,284.0	-10,715.1	153.8	0.00	0.00	0.00	0.00	Shifted GB126 BHL

Database:	EDM5000	Local Co-ordinate Reference:	Well Golden Bell 126H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3041.0usft
Project:	NAN/GB	MD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	North Reference:	Grid
Well:	Golden Bell 126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	2.00	330.00	2,100.0	1.5	-0.9	-1.5	2.00	2.00	0.00
2,200.0	4.00	330.00	2,199.8	6.0	-3.5	-6.1	2.00	2.00	0.00
2,300.0	6.00	330.00	2,299.5	13.6	-7.8	-13.7	2.00	2.00	0.00
2,400.0	6.00	330.00	2,398.9	22.6	-13.1	-22.8	0.00	0.00	0.00
2,500.0	6.00	330.00	2,498.4	31.7	-18.3	-32.0	0.00	0.00	0.00
2,600.0	6.00	330.00	2,597.8	40.7	-23.5	-41.1	0.00	0.00	0.00
2,700.0	6.00	330.00	2,697.3	49.8	-28.8	-50.2	0.00	0.00	0.00
2,800.0	6.00	330.00	2,796.7	58.9	-34.0	-59.3	0.00	0.00	0.00
2,900.0	6.00	330.00	2,896.2	67.9	-39.2	-68.5	0.00	0.00	0.00
3,000.0	6.00	330.00	2,995.6	77.0	-44.4	-77.6	0.00	0.00	0.00
3,100.0	6.00	330.00	3,095.1	86.0	-49.7	-86.7	0.00	0.00	0.00
3,200.0	6.00	330.00	3,194.5	95.1	-54.9	-95.8	0.00	0.00	0.00
3,300.0	6.00	330.00	3,294.0	104.1	-60.1	-105.0	0.00	0.00	0.00
3,400.0	6.00	330.00	3,393.4	113.2	-65.3	-114.1	0.00	0.00	0.00
3,500.0	6.00	330.00	3,492.9	122.2	-70.6	-123.2	0.00	0.00	0.00
3,600.0	6.00	330.00	3,592.3	131.3	-75.8	-132.3	0.00	0.00	0.00
3,700.0	6.00	330.00	3,691.8	140.3	-81.0	-141.5	0.00	0.00	0.00
3,800.0	6.00	330.00	3,791.2	149.4	-86.2	-150.6	0.00	0.00	0.00
3,900.0	6.00	330.00	3,890.7	158.4	-91.5	-159.7	0.00	0.00	0.00
4,000.0	6.00	330.00	3,990.1	167.5	-96.7	-168.9	0.00	0.00	0.00
4,100.0	6.00	330.00	4,089.6	176.5	-101.9	-178.0	0.00	0.00	0.00
4,200.0	6.00	330.00	4,189.0	185.6	-107.1	-187.1	0.00	0.00	0.00
4,300.0	6.00	330.00	4,288.5	194.6	-112.4	-196.2	0.00	0.00	0.00
4,400.0	6.00	330.00	4,387.9	203.7	-117.6	-205.4	0.00	0.00	0.00
4,500.0	6.00	330.00	4,487.4	212.7	-122.8	-214.5	0.00	0.00	0.00
4,600.0	6.00	330.00	4,586.9	221.8	-128.1	-223.6	0.00	0.00	0.00
4,700.0	6.00	330.00	4,686.3	230.8	-133.3	-232.7	0.00	0.00	0.00
4,800.0	6.00	330.00	4,785.8	239.9	-138.5	-241.9	0.00	0.00	0.00
4,900.0	6.00	330.00	4,885.2	249.0	-143.7	-251.0	0.00	0.00	0.00
5,000.0	6.00	330.00	4,984.7	258.0	-149.0	-260.1	0.00	0.00	0.00
5,100.0	6.00	330.00	5,084.1	267.1	-154.2	-269.2	0.00	0.00	0.00
5,200.0	6.00	330.00	5,183.6	276.1	-159.4	-278.4	0.00	0.00	0.00
5,300.0	6.00	330.00	5,283.0	285.2	-164.6	-287.5	0.00	0.00	0.00

Database:	EDM5000	Local Co-ordinate Reference:	Well Golden Bell 126H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3041.0usft
Project:	NAN/GB	MD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	North Reference:	Grid
Well:	Golden Bell 126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	6.00	330.00	5,382.5	294.2	-169.9	-296.6	0.00	0.00	0.00
5,500.0	6.00	330.00	5,481.9	303.3	-175.1	-305.8	0.00	0.00	0.00
5,518.2	6.00	330.00	5,500.0	304.9	-176.0	-307.4	0.00	0.00	0.00
5,600.0	4.36	330.00	5,581.5	311.3	-179.7	-313.9	2.00	-2.00	0.00
5,700.0	2.36	330.00	5,681.3	316.4	-182.7	-319.0	2.00	-2.00	0.00
5,800.0	0.36	330.00	5,781.3	318.5	-183.9	-321.1	2.00	-2.00	0.00
5,818.2	0.00	0.00	5,799.5	318.5	-183.9	-321.1	2.00	-2.00	0.00
5,900.0	0.00	0.00	5,881.3	318.5	-183.9	-321.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,981.3	318.5	-183.9	-321.1	0.00	0.00	0.00
6,100.0	0.00	0.00	6,081.3	318.5	-183.9	-321.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,181.3	318.5	-183.9	-321.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,281.3	318.5	-183.9	-321.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,381.3	318.5	-183.9	-321.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,481.3	318.5	-183.9	-321.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,581.3	318.5	-183.9	-321.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,681.3	318.5	-183.9	-321.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,781.3	318.5	-183.9	-321.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,881.3	318.5	-183.9	-321.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,981.3	318.5	-183.9	-321.1	0.00	0.00	0.00
7,100.0	0.00	0.00	7,081.3	318.5	-183.9	-321.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,181.3	318.5	-183.9	-321.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,281.3	318.5	-183.9	-321.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,381.3	318.5	-183.9	-321.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,481.3	318.5	-183.9	-321.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,581.3	318.5	-183.9	-321.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,681.3	318.5	-183.9	-321.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,781.3	318.5	-183.9	-321.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,881.3	318.5	-183.9	-321.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,981.3	318.5	-183.9	-321.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,081.3	318.5	-183.9	-321.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,181.3	318.5	-183.9	-321.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,281.3	318.5	-183.9	-321.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,381.3	318.5	-183.9	-321.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,481.3	318.5	-183.9	-321.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,581.3	318.5	-183.9	-321.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,681.3	318.5	-183.9	-321.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,781.3	318.5	-183.9	-321.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,881.3	318.5	-183.9	-321.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,981.3	318.5	-183.9	-321.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,081.3	318.5	-183.9	-321.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,181.3	318.5	-183.9	-321.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,281.3	318.5	-183.9	-321.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,381.3	318.5	-183.9	-321.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,481.3	318.5	-183.9	-321.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,581.3	318.5	-183.9	-321.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,681.3	318.5	-183.9	-321.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,781.3	318.5	-183.9	-321.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,881.3	318.5	-183.9	-321.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,981.3	318.5	-183.9	-321.1	0.00	0.00	0.00
10,100.0	0.00	0.00	10,081.3	318.5	-183.9	-321.1	0.00	0.00	0.00
10,200.0	0.00	0.00	10,181.3	318.5	-183.9	-321.1	0.00	0.00	0.00
10,300.0	0.00	0.00	10,281.3	318.5	-183.9	-321.1	0.00	0.00	0.00
10,400.0	0.00	0.00	10,381.3	318.5	-183.9	-321.1	0.00	0.00	0.00
10,500.0	0.00	0.00	10,481.3	318.5	-183.9	-321.1	0.00	0.00	0.00

Database:	EDM5000	Local Co-ordinate Reference:	Well Golden Bell 126H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3041.0usft
Project:	NAN/GB	MD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	North Reference:	Grid
Well:	Golden Bell 126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,600.0	0.00	0.00	10,581.3	318.5	-183.9	-321.1	0.00	0.00	0.00
10,700.0	0.00	0.00	10,681.3	318.5	-183.9	-321.1	0.00	0.00	0.00
10,800.0	0.00	0.00	10,781.3	318.5	-183.9	-321.1	0.00	0.00	0.00
10,900.0	0.00	0.00	10,881.3	318.5	-183.9	-321.1	0.00	0.00	0.00
11,000.0	0.00	0.00	10,981.3	318.5	-183.9	-321.1	0.00	0.00	0.00
11,100.0	0.00	0.00	11,081.3	318.5	-183.9	-321.1	0.00	0.00	0.00
11,200.0	0.00	0.00	11,181.3	318.5	-183.9	-321.1	0.00	0.00	0.00
11,300.0	0.00	0.00	11,281.3	318.5	-183.9	-321.1	0.00	0.00	0.00
11,400.0	0.00	0.00	11,381.3	318.5	-183.9	-321.1	0.00	0.00	0.00
11,500.0	0.00	0.00	11,481.3	318.5	-183.9	-321.1	0.00	0.00	0.00
11,600.0	0.00	0.00	11,581.3	318.5	-183.9	-321.1	0.00	0.00	0.00
11,700.0	0.00	0.00	11,681.3	318.5	-183.9	-321.1	0.00	0.00	0.00
11,800.0	0.00	0.00	11,781.3	318.5	-183.9	-321.1	0.00	0.00	0.00
11,818.7	0.00	0.00	11,800.0	318.5	-183.9	-321.1	0.00	0.00	0.00
GB126 KOP									
11,900.0	9.75	163.38	11,880.9	311.9	-181.9	-314.5	12.00	12.00	0.00
12,000.0	21.75	163.38	11,977.0	285.9	-174.2	-288.4	12.00	12.00	0.00
12,100.0	33.75	163.38	12,065.3	241.4	-160.9	-243.7	12.00	12.00	0.00
12,200.0	45.75	163.38	12,142.0	180.2	-142.6	-182.2	12.00	12.00	0.00
12,300.0	57.75	163.38	12,203.8	105.1	-120.2	-106.8	12.00	12.00	0.00
12,400.0	69.75	163.38	12,248.0	19.3	-94.6	-20.7	12.00	12.00	0.00
12,500.0	81.75	163.38	12,272.5	-73.4	-66.9	72.4	12.00	12.00	0.00
12,558.7	88.80	163.38	12,277.4	-129.4	-50.2	128.7	12.00	12.00	0.00
12,600.0	88.80	163.38	12,278.2	-169.0	-38.4	168.4	0.00	0.00	0.00
12,632.2	88.80	163.38	12,278.9	-199.8	-29.2	199.4	0.00	0.00	0.00
GB126 into NMNM137471									
12,700.0	88.80	163.38	12,280.3	-264.8	-9.8	264.6	0.00	0.00	0.00
12,748.2	88.80	163.38	12,281.3	-311.0	4.0	311.0	0.00	0.00	0.00
Shifted GB126 FTP									
12,800.0	88.80	163.38	12,282.4	-360.6	18.8	360.8	0.00	0.00	0.00
12,807.9	88.80	163.38	12,282.6	-368.2	21.0	368.5	0.00	0.00	0.00
12,900.0	89.62	174.40	12,283.9	-458.4	38.8	458.9	12.00	0.90	11.97
12,941.5	90.00	179.37	12,284.0	-499.8	41.0	500.3	12.00	0.91	11.97
Shifted GB126 EOC									
13,000.0	90.00	179.37	12,284.0	-558.3	41.7	558.8	0.00	0.00	0.00
13,100.0	90.00	179.37	12,284.0	-658.3	42.8	658.8	0.00	0.00	0.00
13,200.0	90.00	179.37	12,284.0	-758.3	43.9	758.8	0.00	0.00	0.00
13,300.0	90.00	179.37	12,284.0	-858.3	45.0	858.8	0.00	0.00	0.00
13,400.0	90.00	179.37	12,284.0	-958.3	46.1	958.8	0.00	0.00	0.00
13,500.0	90.00	179.37	12,284.0	-1,058.3	47.2	1,058.8	0.00	0.00	0.00
13,600.0	90.00	179.37	12,284.0	-1,158.3	48.3	1,158.8	0.00	0.00	0.00
13,700.0	90.00	179.37	12,284.0	-1,258.3	49.4	1,258.8	0.00	0.00	0.00
13,800.0	90.00	179.37	12,284.0	-1,358.3	50.5	1,358.8	0.00	0.00	0.00
13,900.0	90.00	179.37	12,284.0	-1,458.2	51.6	1,458.8	0.00	0.00	0.00
14,000.0	90.00	179.37	12,284.0	-1,558.2	52.7	1,558.8	0.00	0.00	0.00
14,100.0	90.00	179.37	12,284.0	-1,658.2	53.8	1,658.8	0.00	0.00	0.00
14,200.0	90.00	179.37	12,284.0	-1,758.2	54.9	1,758.8	0.00	0.00	0.00
14,300.0	90.00	179.37	12,284.0	-1,858.2	56.0	1,858.8	0.00	0.00	0.00
14,400.0	90.00	179.37	12,284.0	-1,958.2	57.1	1,958.8	0.00	0.00	0.00
14,500.0	90.00	179.37	12,284.0	-2,058.2	58.2	2,058.8	0.00	0.00	0.00
14,600.0	90.00	179.37	12,284.0	-2,158.2	59.3	2,158.8	0.00	0.00	0.00
14,700.0	90.00	179.37	12,284.0	-2,258.2	60.4	2,258.8	0.00	0.00	0.00
14,800.0	90.00	179.37	12,284.0	-2,358.2	61.5	2,358.8	0.00	0.00	0.00

Database:	EDM5000	Local Co-ordinate Reference:	Well Golden Bell 126H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3041.0usft
Project:	NAN/GB	MD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	North Reference:	Grid
Well:	Golden Bell 126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,900.0	90.00	179.37	12,284.0	-2,458.2	62.6	2,458.8	0.00	0.00	0.00
15,000.0	90.00	179.37	12,284.0	-2,558.2	63.7	2,558.8	0.00	0.00	0.00
15,100.0	90.00	179.37	12,284.0	-2,658.2	64.8	2,658.8	0.00	0.00	0.00
15,200.0	90.00	179.37	12,284.0	-2,758.2	66.0	2,758.8	0.00	0.00	0.00
15,300.0	90.00	179.37	12,284.0	-2,858.2	67.1	2,858.8	0.00	0.00	0.00
15,400.0	90.00	179.37	12,284.0	-2,958.2	68.2	2,958.8	0.00	0.00	0.00
15,500.0	90.00	179.37	12,284.0	-3,058.1	69.3	3,058.8	0.00	0.00	0.00
15,600.0	90.00	179.37	12,284.0	-3,158.1	70.4	3,158.8	0.00	0.00	0.00
15,700.0	90.00	179.37	12,284.0	-3,258.1	71.5	3,258.8	0.00	0.00	0.00
15,800.0	90.00	179.37	12,284.0	-3,358.1	72.6	3,358.8	0.00	0.00	0.00
15,900.0	90.00	179.37	12,284.0	-3,458.1	73.7	3,458.8	0.00	0.00	0.00
16,000.0	90.00	179.37	12,284.0	-3,558.1	74.8	3,558.8	0.00	0.00	0.00
16,100.0	90.00	179.37	12,284.0	-3,658.1	75.9	3,658.8	0.00	0.00	0.00
16,200.0	90.00	179.37	12,284.0	-3,758.1	77.0	3,758.8	0.00	0.00	0.00
16,300.0	90.00	179.37	12,284.0	-3,858.1	78.1	3,858.8	0.00	0.00	0.00
16,400.0	90.00	179.37	12,284.0	-3,958.1	79.2	3,958.8	0.00	0.00	0.00
16,500.0	90.00	179.37	12,284.0	-4,058.1	80.3	4,058.8	0.00	0.00	0.00
16,600.0	90.00	179.37	12,284.0	-4,158.1	81.4	4,158.8	0.00	0.00	0.00
16,700.0	90.00	179.37	12,284.0	-4,258.1	82.5	4,258.8	0.00	0.00	0.00
16,800.0	90.00	179.37	12,284.0	-4,358.1	83.6	4,358.8	0.00	0.00	0.00
16,900.0	90.00	179.37	12,284.0	-4,458.1	84.7	4,458.8	0.00	0.00	0.00
17,000.0	90.00	179.37	12,284.0	-4,558.1	85.8	4,558.8	0.00	0.00	0.00
17,100.0	90.00	179.37	12,284.0	-4,658.1	86.9	4,658.8	0.00	0.00	0.00
17,200.0	90.00	179.37	12,284.0	-4,758.0	88.0	4,758.8	0.00	0.00	0.00
17,300.0	90.00	179.37	12,284.0	-4,858.0	89.1	4,858.8	0.00	0.00	0.00
17,400.0	90.00	179.37	12,284.0	-4,958.0	90.2	4,958.8	0.00	0.00	0.00
17,500.0	90.00	179.37	12,284.0	-5,058.0	91.4	5,058.8	0.00	0.00	0.00
17,600.0	90.00	179.37	12,284.0	-5,158.0	92.5	5,158.8	0.00	0.00	0.00
17,700.0	90.00	179.37	12,284.0	-5,258.0	93.6	5,258.8	0.00	0.00	0.00
17,800.0	90.00	179.37	12,284.0	-5,358.0	94.7	5,358.8	0.00	0.00	0.00
17,900.0	90.00	179.37	12,284.0	-5,458.0	95.8	5,458.8	0.00	0.00	0.00
17,921.8	90.00	179.37	12,284.0	-5,479.8	96.0	5,480.6	0.00	0.00	0.00
GB126 into NMNM137472									
18,000.0	90.00	179.37	12,284.0	-5,558.0	96.9	5,558.8	0.00	0.00	0.00
18,100.0	90.00	179.37	12,284.0	-5,658.0	98.0	5,658.8	0.00	0.00	0.00
18,200.0	90.00	179.37	12,284.0	-5,758.0	99.1	5,758.8	0.00	0.00	0.00
18,300.0	90.00	179.37	12,284.0	-5,858.0	100.2	5,858.8	0.00	0.00	0.00
18,400.0	90.00	179.37	12,284.0	-5,958.0	101.3	5,958.8	0.00	0.00	0.00
18,500.0	90.00	179.37	12,284.0	-6,058.0	102.4	6,058.8	0.00	0.00	0.00
18,600.0	90.00	179.37	12,284.0	-6,158.0	103.5	6,158.8	0.00	0.00	0.00
18,700.0	90.00	179.37	12,284.0	-6,258.0	104.6	6,258.8	0.00	0.00	0.00
18,800.0	90.00	179.37	12,284.0	-6,357.9	105.7	6,358.8	0.00	0.00	0.00
18,900.0	90.00	179.37	12,284.0	-6,457.9	106.8	6,458.8	0.00	0.00	0.00
19,000.0	90.00	179.37	12,284.0	-6,557.9	107.9	6,558.8	0.00	0.00	0.00
19,100.0	90.00	179.37	12,284.0	-6,657.9	109.0	6,658.8	0.00	0.00	0.00
19,200.0	90.00	179.37	12,284.0	-6,757.9	110.1	6,758.8	0.00	0.00	0.00
19,300.0	90.00	179.37	12,284.0	-6,857.9	111.2	6,858.8	0.00	0.00	0.00
19,400.0	90.00	179.37	12,284.0	-6,957.9	112.3	6,958.8	0.00	0.00	0.00
19,500.0	90.00	179.37	12,284.0	-7,057.9	113.4	7,058.8	0.00	0.00	0.00
19,600.0	90.00	179.37	12,284.0	-7,157.9	114.5	7,158.8	0.00	0.00	0.00
19,700.0	90.00	179.37	12,284.0	-7,257.9	115.7	7,258.8	0.00	0.00	0.00
19,800.0	90.00	179.37	12,284.0	-7,357.9	116.8	7,358.8	0.00	0.00	0.00
19,900.0	90.00	179.37	12,284.0	-7,457.9	117.9	7,458.8	0.00	0.00	0.00
20,000.0	90.00	179.37	12,284.0	-7,557.9	119.0	7,558.8	0.00	0.00	0.00

Database:	EDM5000	Local Co-ordinate Reference:	Well Golden Bell 126H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3041.0usft
Project:	NAN/GB	MD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	North Reference:	Grid
Well:	Golden Bell 126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,100.0	90.00	179.37	12,284.0	-7,657.9	120.1	7,658.8	0.00	0.00	0.00
20,200.0	90.00	179.37	12,284.0	-7,757.9	121.2	7,758.8	0.00	0.00	0.00
20,300.0	90.00	179.37	12,284.0	-7,857.9	122.3	7,858.8	0.00	0.00	0.00
20,400.0	90.00	179.37	12,284.0	-7,957.8	123.4	7,958.8	0.00	0.00	0.00
20,500.0	90.00	179.37	12,284.0	-8,057.8	124.5	8,058.8	0.00	0.00	0.00
20,600.0	90.00	179.37	12,284.0	-8,157.8	125.6	8,158.8	0.00	0.00	0.00
20,700.0	90.00	179.37	12,284.0	-8,257.8	126.7	8,258.8	0.00	0.00	0.00
20,800.0	90.00	179.37	12,284.0	-8,357.8	127.8	8,358.8	0.00	0.00	0.00
20,900.0	90.00	179.37	12,284.0	-8,457.8	128.9	8,458.8	0.00	0.00	0.00
21,000.0	90.00	179.37	12,284.0	-8,557.8	130.0	8,558.8	0.00	0.00	0.00
21,100.0	90.00	179.37	12,284.0	-8,657.8	131.1	8,658.8	0.00	0.00	0.00
21,200.0	90.00	179.37	12,284.0	-8,757.8	132.2	8,758.8	0.00	0.00	0.00
21,300.0	90.00	179.37	12,284.0	-8,857.8	133.3	8,858.8	0.00	0.00	0.00
21,400.0	90.00	179.37	12,284.0	-8,957.8	134.4	8,958.8	0.00	0.00	0.00
21,500.0	90.00	179.37	12,284.0	-9,057.8	135.5	9,058.8	0.00	0.00	0.00
21,600.0	90.00	179.37	12,284.0	-9,157.8	136.6	9,158.8	0.00	0.00	0.00
21,700.0	90.00	179.37	12,284.0	-9,257.8	137.7	9,258.8	0.00	0.00	0.00
21,800.0	90.00	179.37	12,284.0	-9,357.8	138.8	9,358.8	0.00	0.00	0.00
21,900.0	90.00	179.37	12,284.0	-9,457.8	139.9	9,458.8	0.00	0.00	0.00
22,000.0	90.00	179.37	12,284.0	-9,557.8	141.1	9,558.8	0.00	0.00	0.00
22,100.0	90.00	179.37	12,284.0	-9,657.7	142.2	9,658.8	0.00	0.00	0.00
22,200.0	90.00	179.37	12,284.0	-9,757.7	143.3	9,758.8	0.00	0.00	0.00
22,300.0	90.00	179.37	12,284.0	-9,857.7	144.4	9,858.8	0.00	0.00	0.00
22,400.0	90.00	179.37	12,284.0	-9,957.7	145.5	9,958.8	0.00	0.00	0.00
22,500.0	90.00	179.37	12,284.0	-10,057.7	146.6	10,058.8	0.00	0.00	0.00
22,600.0	90.00	179.37	12,284.0	-10,157.7	147.7	10,158.8	0.00	0.00	0.00
22,700.0	90.00	179.37	12,284.0	-10,257.7	148.8	10,258.8	0.00	0.00	0.00
22,800.0	90.00	179.37	12,284.0	-10,357.7	149.9	10,358.8	0.00	0.00	0.00
22,900.0	90.00	179.37	12,284.0	-10,457.7	151.0	10,458.8	0.00	0.00	0.00
23,000.0	90.00	179.37	12,284.0	-10,557.7	152.1	10,558.8	0.00	0.00	0.00
23,100.0	90.00	179.37	12,284.0	-10,657.7	153.2	10,658.8	0.00	0.00	0.00
Shifted GB126 LTP									
23,157.4	90.00	179.37	12,284.0	-10,715.1	153.8	10,716.2	0.00	0.00	0.00
Shifted GB126 BHL									



Ameredev Operating, LLC

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Golden Bell 126H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3041.0usft
Project:	NAN/GB	MD Reference:	KB @ 3041.0usft
Site:	NAN/GB #7N	North Reference:	Grid
Well:	Golden Bell 126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Shifted GB126 FTP	0.00	0.00	12,284.0	-299.9	41.0	394,117.16	861,082.92	32° 4' 45.487 N	103° 18' 3.570 W
- plan misses target center by 38.8usft at 12748.2usft MD (12281.3 TVD, -311.0 N, 4.0 E)									
- Point									
Shifted GB126 EOC	0.00	0.00	12,284.0	-499.8	41.0	393,917.22	861,082.92	32° 4' 43.509 N	103° 18' 3.593 W
- plan hits target center									
- Point									
Shifted GB126 LTP	0.00	0.00	12,284.0	-10,665.1	154.1	383,751.93	861,196.02	32° 3' 2.915 N	103° 18' 3.408 W
- plan misses target center by 7.5usft at 23100.0usft MD (12284.0 TVD, -10657.7 N, 153.2 E)									
- Point									
Shifted GB126 BHL	0.00	0.00	12,284.0	-10,715.1	154.6	383,701.95	861,196.52	32° 3' 2.421 N	103° 18' 3.408 W
- plan misses target center by 0.8usft at 23157.4usft MD (12284.0 TVD, -10715.1 N, 153.8 E)									
- Point									

Plan Annotations					
Measured Depth	Vertical	Local Coordinates			
Depth	Depth	+N/-S	+E/-W		
(usft)	(usft)	(usft)	(usft)	Comment	
11,818.7	11,800.0	318.5	-183.9	GB126 KOP	
12,632.2	12,278.9	-199.8	-29.2	GB126 into NMNM137471	
17,921.8	12,284.0	-5,479.8	96.0	GB126 into NMNM137472	



APD ID: 10400054225

Submission Date: 02/12/2020

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 126H

Well Type: OIL WELL

Well Work Type: Drill

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? N

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:

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 126H

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?

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? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

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?

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 126H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? N

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? N

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? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 126H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

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

OCD - HOBBS
10/27/2020
RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47937	² Pool Code 98234	³ Pool Name WC-025 G-09 S263619C; WOLFCAMP
⁴ Property Code 322777	⁵ Property Name GOLDEN BELL FED COM 26 36 06	⁶ Well Number 126H
⁷ OGRID No. 372224	⁸ Operator Name AMEREDEV OPERATING, LLC.	⁹ Elevation 3014'

¹⁰Surface Location

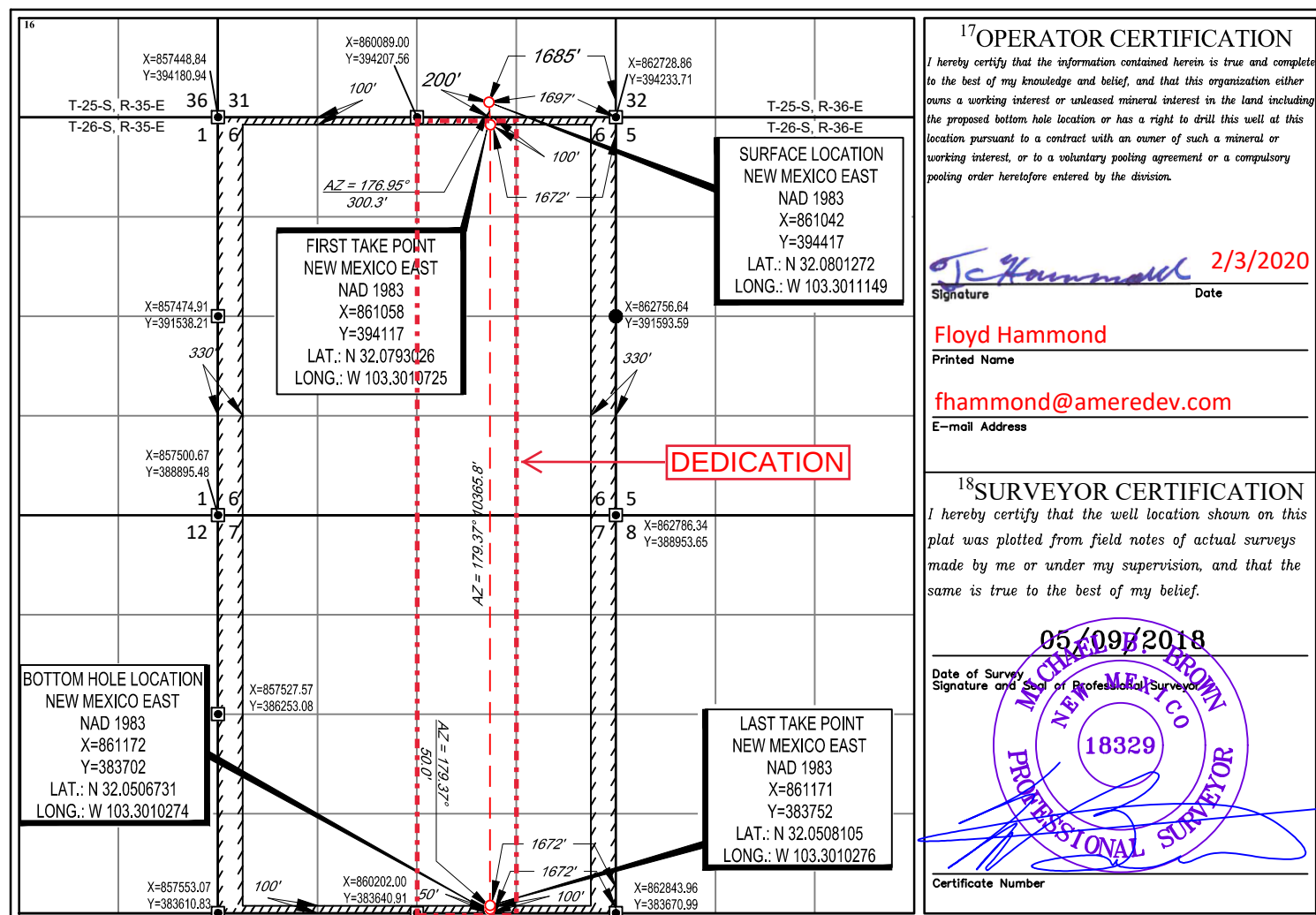
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	31	25-S	36-E	-	200'	SOUTH	1685'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	7	26-S	36-E	-	50'	SOUTH	1672'	EAST	LEA

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

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.



¹⁷OPERATOR 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.

Floyd Hammond 2/3/2020
Signature Date

Floyd Hammond

Printed Name

fhammond@ameredev.com

E-mail Address

¹⁸SURVEYOR 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

18329
MICHAEL P. BROWN
PROFESSIONAL SURVEYOR

Certificate Number

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

OCD – HOBBS
10/27/2020
RECEIVED

GAS CAPTURE PLAN

Date: 2/3/2020

☒ 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, recomple 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
Golden Bell Fed Com 26 36 06 126H	30-025- 30-025-47937	O-31-25S-36E	200' FSL 1685' 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. Gas produced from the above wells is not dedicated to a gas purchaser. The production facility will be (or is currently) connected to multiple low pressure gathering systems located in Lea County, New Mexico, which are operated by DCP Operating Co., ETC Texas Pipeline, and Lucid Energy Delaware (collectively "Gas Transporters"). Ameredev provides (periodically) to one or more Gas Transporters a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Ameredev and the Gas Transporters have periodic conference calls to discuss changes in drilling and completion schedules. Gas from the well(s) will be processed at one or more of Gas Transporters' processing plants located in several different locations. The actual flow of 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