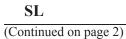
Form 3160-3 (June 2015)					FORM OMB No Expires: Ja	b. 1004-0	137	
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN	NTER		,		5. Lease Serial No.			
APPLICATION FOR PERMIT TO D					6. If Indian, Allotee	or Tribe	Name	
	EENTE	R			7. If Unit or CA Agreement, Name and No.			
	ther ingle Zo	one [Multiple Zone		8. Lease Name and	Well No.		
	-	L				3227	77]	
2. Name of Operator [372224]					9. API Well No.	30-02	25-49099	
3a. Address	3b. Pł	none N	o. (include area cod	e)	10. Field and Pool, o	or Explor	ratory	
4. Location of Well <i>(Report location clearly and in accordance w</i> At surface	with any	State	requirements.*)		11. Sec., T. R. M. or	Blk. and	l Survey or Area	
At proposed prod. zone	· •				12. County or Parish		13. State	
14. Distance in miles and direction from nearest town or post off	ice*				12. County of Parisi	1	15. State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No	o of ac	res in lease	17. Spacin	ng Unit dedicated to th	his well		
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Pr	oposed	l Depth	20. BLM/	BIA Bond No. in file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Aj	pproxii	nate date work will	start*	23. Estimated durati	on		
	24.	Attac	hments					
The following, completed in accordance with the requirements o (as applicable)	f Onsho	re Oil	and Gas Order No. 1	I, and the H	Iydraulic Fracturing r	ule per 4	3 CFR 3162.3-3	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office 		s, the	Item 20 above). 5. Operator certific	cation.	s unless covered by ar mation and/or plans as	-		
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 applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds	legal o	or equitable title to the	nose rights	in the subject lease w	hich wou	ld entitle the	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements						iny depai	tment or agency	
NGMP Rec 06/24/2021								
			TH CONDIT	IONS	k 06/2	رک 5/202	1	
SL	VED	WI	H COMPA					
(Continued on page 2)					*(Ins	structio	ons on page 2)	



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 District I

 1625 N. French Dr., Hobbs, NM 88240

 Phone: (575) 393-6161 Fax: (575) 393-0720

 District II

 811 S. First St., Artesia, NM 88210

 Phone: (575) 748-1283 Fax: (575) 748-9720

 District III

 1000 Rio Brazos Road, Aztec, NM 87410

 Phone: (505) 334-6178 Fax: (505) 334-6170

 District IV

 1220 S. St. Francis Dr., Santa Fe, NM 87505

 Phone: (505) 476-3460 Fax: (505) 476-3462

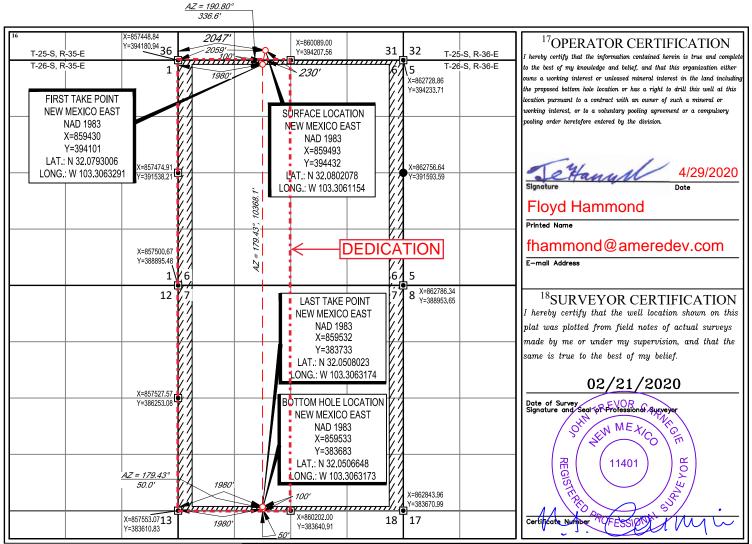
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 FORM C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	API Number 5-49099		9	² Pool Code 7088	N 1	ONE SPRINC	J								
⁴ Property C	ode				⁵ Property N	Name		61	Well Number						
322777			C	GOLDEN BELL FED COM 26 36 06 093H											
⁷ OGRID N	0.				⁸ Operator N	Name			⁹ Elevation						
37222	4			AMER	MEREDEV OPERATING, LLC. 3018										
					¹⁰ Surface Lo	ocation		·							
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County						
N	31	25–S	36-E	-	230'	SOUTH	2047'	WEST	LEA						
			11	Bottom Ho	le Location If D	Different From Su	rface								
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County						
N	7	26-S	36-E	-	50'	SOUTH	1980'	WEST	LEA						
¹² Dedicated Acres	¹³ Joint or I	nfill ¹⁴ Co	nsolidation Co	de ¹⁵ Ord	er No.										
640.92			С												

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.



Released to Imaging: 6/25/2021 9:09:24 Marging: 6/25 Marging: 6/2

	State of New Mexico Energy, Minerals and Natural Resources OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505												
This Natural Gas Mana		Section 1		on for Permit to D cription		a new or re	completed well.						
I. Operator: <u>AM</u> II. Type: X Original If Other, please describ] Amendment dı		D(6)(a) NMA	C 19.15.27.9.1									
III. Well(s): Provide th to be recompleted from	e following infor	mation for each new	or recomplete	ed well or set of v	wells proposed	to be drill	ed or proposed						
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	-	ted Produced ter BBL/D						
GOLDEN BELL FED COM 26 36 06 093H	30-025-49099	N-31-25S-36E	230'FSL & 2047'FWI		+/- 3400		+/- 1900						
IV. Central Delivery Po	int Name:	Nand	lina CTB	[See 19.15.27.9	9(D)(1) NN	/IAC]						
V. Anticipated Schedu or proposed to be recon		-		-		vells propo	sed to be drilled						
	API 30-025- <u>49099</u>	Spud Date 8/31/2021	TD Reached Date 10/1/2021	Completion Commencemen 3/30/2022	t Date Bac	al Flow k Date 4/2022	First Production Date 5/16/2022						
COM 26 36 06 093H VI. Separation Equipme	nt: XAttach a cor	nplete description of h	ow Operator wi	ll size separation eq	quipment to opti	mize gas ca	pture.						
VII. Operational Prac Subsection A through F			ion of the actio	ons Operator will	take to comply	y with the	requirements of						
VIII. Best Managemen during active and plann		Attach a complete d	lescription of (Dperator's best m	anagement pra	ectices to n	ninimize venting						

.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system will will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

X Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In. Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:		
Printed Name:	Dayeed Khan	
Title:	Environmental and Regulatory Engineer	
E-mail Address:	dkhan@ameredev.com	
Date:	6/24/2021	
Phone:		
	737-300-4733	
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:		
Title:		
Approval Date:		
Conditions of Approval:		

Natural Gas Management Plan

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

• Separation equipment is sized to allow for retention time and velocity to adequately separate oil, gas, and water at anticipated peak rates.

• All central tank battery equipment is designed to efficiently capture the remaining gas from the liquid phase.

• Valves and meters are designed to service without flow interruption or venting of gas.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

19.15.27.8 (A)

Ameredev's field operations are designed with the goal of minimizing flaring and preventing venting of natural gas. If capturing the gas is not possible then the gas is combusted/flared using properly sized flares or combustors in accordance with state air permit rules.

19.15.27.8 (B) Venting and Flaring during drilling operations.

• A properly-sized flare stack will be located at a minimum 100' from the nearest surface hole location on the pad.

• All natural gas produced during drilling operations will be flared. Venting will only occur if there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety, public health, or the environment.

19.15.27.8 (C) Venting and Flaring during completions or recompletions operations.

• During all phases of flowback, wells will flow through a sand separator, or other appropriate flowback separation equipment, and the well stream will be directed to a central tank battery (CTB) through properly sized flowlines.

• The CTB will have properly sized separation equipment for maximum anticipated flow rates

• Multiple stages of separation will be used to separate gas from liquids. All gas will be routed to a sales outlet. Fluids will be routed to tanks equipped with a closed loop system that will recover any residual gas from the tanks and route such gas to a sales outlet.

19.15.27.8 (D) Venting and Flaring during production operations.

• During production, the well stream will be routed to the CTB where multiple stages of separation will separate gas from liquids. All gas will be routed to a sales outlet. Fluids will be

routed to tanks equipped with a closed loop system that will recover any residual gas from the tanks and route such gas to a sales outlet, minimizing tank emissions.

- Flares are equipped with auto-ignition systems and continuous pilot operations.
- Automatic gauging equipment is installed on all tanks.

19.15.27.8 (E) Performance Standards.

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- Automatic gauging equipment is installed on all tanks to minimize venting.

• All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.

• Flares are equipped with continuous pilots and auto-ignitors along with remote monitoring of the pilot status.

• Weekly AVOs and monthly LDAR inspections will be performed on all wells and facilities that produce more than 60 Mcfd.

• Gas/H2S detectors will be installed throughout the facilities and wellheads to detect leaks and enable timely repairs.

19.15.27.8 (F) Measurement or estimation of vented and flared natural gas.

- All high pressure flared gas is measured by equipment conforming to API 14.10.
- No meter bypasses are installed.

• When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated through flare flow curves with the assistance of air emissions consultants, as necessary.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

• Ameredev will use best management practices to vent as minimally as possible during well intervention operations and downhole well maintenance.

• All natural gas is routed into the gas gathering system and directed to one of Ameredev's multiple gas sales outlets.

• All venting events will be recorded and all start-up, shutdown, maintenance logs will be kept for control equipment.

- All control equipment will be maintained to provide highest run-time possible.
- All procedures are drafted to keep venting and flaring to the absolute minimum.

WAFMSS

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

APD ID: 10400056712

Well Type: OIL WELL

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
727280	RUSTLER ANHYDRITE	3018	1037	1037	ANHYDRITE	NONE	N
727286	SALADO	1676	1342	1342	SALT	NONE	N
727281	TANSILL	-217	3235	3235	LIMESTONE	NONE	N
727282	CAPITAN REEF	-631	3649	3649	LIMESTONE	USEABLE WATER	N
727287	LAMAR	-2053	5071	5071	LIMESTONE	NONE	N
727283	BELL CANYON	-2100	5118	5118	SANDSTONE	NATURAL GAS, OIL	N
727288	BRUSHY CANYON	-4212	7230	7230	SANDSTONE	NATURAL GAS, OIL	N
727285	BONE SPRING LIME	-5369	8387	8387	LIMESTONE	NONE	N
727289	BONE SPRING 1ST	-6707	9725	9725	SANDSTONE	NATURAL GAS, OIL	N
727290	BONE SPRING 2ND	-7282	10300	10300	SANDSTONE	NATURAL GAS, OIL	N
727278	BONE SPRING 3RD	-7856	10874	10874	LIMESTONE	NONE	N
727279	BONE SPRING 3RD	-8434	11452	11452	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

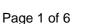
Pressure Rating (PSI): 10M

Rating Depth: 15000

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

Variance request: Co-Flex Choke Line, 5M Annular Preventer

Testing Procedure: See attachment



Highlighted data reflects the most

recent changes

Show Final Text



Submission Date: 04/29/2020

Well Number: 093H

Well Work Type: Drill

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 093H

Choke Diagram Attachment:

10M_Choke_Manifold_REV_20200429145910.pdf

BOP Diagram Attachment:

5M_Annular_Preventer_Variance_and_Well_Control_Plan_20200429145923.pdf

Pressure_Control_Plan_Single_Well_MB4_3String_Big_Hole_BLM_20200429145924.pdf

5M_BOP_System_20200429145924.pdf

4_String_MB_Ameredev_Wellhead_Drawing_net_REV_20200429145936.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	1162	0	1162	3018	1856	1162	J-55		OTHER - BTC	7.9	1	DRY	11.5 8	DRY	13.5 4
	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	10999	0	10999		-7981	10999	HCL -80	-	OTHER - BTC	1.25	1.26	DRY	2	DRY	2.88
3	PRODUCTI ON	6.75	5.5	NEW	API	N	0	22126	0	11555		-8537	22126	P- 110		OTHER - MS2 Anaconda GT	1.79	1.91	DRY	2.46	DRY	2.74

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_20200429150042.pdf

GOLDEN_BELL_FED_COM_26_36_06_093H___WELLBORE_DIAGRAM_AND_CDA_20200429150052.pdf

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 093H

Casing Attachments

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_20200429150233.pdf

GOLDEN_BELL_FED_COM_26_36_06_093H___WELLBORE_DIAGRAM_AND_CDA_20200429150241.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5_20200429150413.5_23

GOLDEN_BELL_FED_COM_26_36_06_093H___WELLBORE_DIAGRAM_AND_CDA_20200429150423.pdf

Section	4 - 66	emen	τ								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	776	764	1.76	13.5	1345. 04	100	Class C	Bentonite, Accelerator, Kolseal, Defoamer, Celloflake
SURFACE	Tail		776	1162	200	1.34	14.8	268	100	Class C	None
INTERMEDIATE	Lead	3235	0	2704	619	3.5	9	2164. 88	50	Class C	Salt, Bentonite, Kolseal, Defoamer, Celloflake

Section 4 - Cement

Page 11 of 81

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 093H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		2704	3235	200	1.33	14.8	266	25	Class C	None
INTERMEDIATE	Lead	3235	3235	9778	2231	2.47	11.9	5510. 29	50	Class H	Bentonite, Retarder, Kolseal, Defoamer, Celloflake, Anti-Settling Expansion Additive
INTERMEDIATE	Tail		9778	1099 9	200	1.31	14.2	262	25	Class H	Salt, Bentonite, Retarder, Dispersant, Fluid Loss
PRODUCTION	Lead		0	2212 6	1722	1.34	14.2	2308. 01	25	Class H	Salt, Bentonite, Fluid Loss, Dispersant, Retarder, Defoamer

Section 5 - Circulating Medium

Circulating Medium Table

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.

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1162	WATER-BASED MUD	8.4	8.6							
1162	1099 9	OTHER : Diesel Brine Emulsion	8.5	9.4							

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1099 9	1155 5	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: 6309

Anticipated Surface Pressure: 3766

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

H2S_Plan_20200429150927.pdf

Operator Name: AMEREDEV OPERATING LLC

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 093H

Page 14 of 81

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

GB093_DR_20200429150951.pdf

GB093_LLR_20200429150952.pdf

5M_Annular_Preventer_Variance_and_Well_Control_Plan_20200429151004.pdf

Pressure_Control_Plan_Single_Well_MB4_3String_Big_Hole_BLM_20200429151004.pdf

Other proposed operations facets description:

4-STRING CONTINGENCY PLAN AND SKID PROCEDURE ATTACHED

Other proposed operations facets attachment:

Bone_Spring_Contingency_20200429151023.pdf Rig_Skid_Procedure_20200429151031.pdf

Other Variance attachment:

Requested_Exceptions___3_String_Revised_01312019_20200429151043.pdf R616___CoC_for_hoses_12_18_17_20200429151135.pdf



Contingency Wellbore Schematic

Well:	Golden Bell Fed Com 26-36-06 093H	Co. Well ID:	XXXXXX
SHL:	Sec. 31 25S-36E 230' FSL & 2047' FWL	AFE No.:	XXXX-XXX
BHL:	Sec. 07 26S-36E 50' FSL & 1980' FWL	API No.:	XXXXXXXXXXX
	Lea, NM	GL:	3,018'
Wellhead:	A - 13-5/8" 10M x 13-5/8" SOW	Field:	Delaware
	B - 13-5/8" 10M x 13-5/8" 10M	Objective:	Wolfcamp A
	C - 13-5/8" 10M x 13-5/8" 10M	TVD:	11,555'
	Tubing Spool - 7-1/16" 15M x 13-3/8" 10M	MD:	22,126'
Xmas Tree:	2-9/16" 10M	Rig:	TBD KB 27'
Tubing:	2-7/8" L-80 6.5# 8rd EUE	E-Mail:	Wellsite2@ameredev.com

Hole Size	Formation Tops	Logs	Cement	Mud Weight
17.5"	Rustler 1,037' 13.375" 68# J-55 BTC 1,162'		964 Sacks TOC 0' 100% Excess	8.4-8.6 ppg WBM
	Salado 1,342' DV Tool with ACP 3,235'		819 Sacks TOC 0' 50% Excess	
12.25"	Tansill 3,235'			
	Capitan Reef 3,649'			Ę
	Lamar 5,071'			ulsic
	Bell Canyon 5,118'			Ш
	No Casing 5,196'			Brine
9.875"	Brushy Canyon7,230'Bone Spring Lime8,387'First Bone Spring9,725'Second Bone Spring10,300'		S) SS	8.5-9.4 Diesel Brine Emulsion
	Third Bone Spring Upper 10,874'		l Sack 0' Exces	
	7.625" 29.7# L-80HC BTC 10,999'		2,431 Sacks TOC 0' 50% Excess	
6.75"	Third Bone Spring 11,452'			ž
12° Build @				pg OBM
11,005' MD thru 11,858' MD	5.5" 23# P110MS2 Anaconda GT 22,126' Target Wolfcamp A 11555 TVD // 22126 MD		1,722 Sacks TOC 0' 25% Excess	10.5-14 ppg
			1,722 S TOC 0' 25% Ex	

.

Casing Specifications								
Segment	Hole ID	Depth	OD	Weight	Grade	Coupling		
Surface	17.5	1,162'	13.375	68	J-55	BTC		
Intermediate	9.875	10,999'	7.625	40	HCL-80	BTC		
Prod Segment A	6.75	11,005'	5.5	20	CYHP-110	BTC		
Prod Segment B	6.75	22,126'	5.5	20	CYHP-110	BTC		

Casing Design and Safety Factor Check

	Chec	k Surface	Casing				
OD Cplg	Body	Joint	Collapse	Burst			
inches	1000 lbs	1000 lbs	psi	psi			
14.375	1,069	915	4,100	3,450			
Safety Factors							
1.56	13.54	11.58	7.90	0.64			
	Check I	ntermedia	te Casing				
OD Cplg	Body	Joint	Collapse	Burst			
inches	1000 lbs	1000 lbs	psi	psi			
7.625	940	558	6700	9460			
	S	afety Facto	ors				
1.13	2.88	2.00	1.25	1.26			
	Check Pro	od Casing,	Segment A				
OD Cplg	Body	Joint	Collapse	Burst			
inches	1000 lbs	1000 lbs	psi	psi			
5.777	728	655	12780	14360			
	S	afety Facto	ors				
0.49	2.74	2.46	1.79	1.91			
	Check Pro	od Casing,	Segment B	}			
OD Cplg	Body	Joint	Collapse	Burst			
inches	1000 lbs	1000 lbs	psi	psi			
5.777	728	655	12780	14360			
	S	afety Facto	ors				
0.49	57.55	51.78	1.70	1.91			

PERFORMANCE DATA

API BTC Technical Data Sheet

13.375 in

68.00 lbs/ft

J-55

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		1	I

in in in

in

lbs

psi

3,500

Connection Parameters						
Connection OD	14.375					
Coupling Length	10.625					
Threads Per Inch	5.000					
Standoff Thread Turns	1.000					
Make-Up Loss	4.513					

Connection OD	1
Coupling Length	1

Nom. Pipe Body Area

Yield Load In Tension

Min. Internal Yield Pressure

12.415	in	Collapse Pressure	
12.259	in		
19.445	in²		
		-	

Printed on: February-13-2015

NOTE:

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U. S. Steel Tubular Products 6/6/2017 6:18:53 PM 7.625" 29.70Ibs/ft (0.375" Wall) P110 HC USS-LIBERTY FJM[®]

		·····	
MECHANICAL PROPERTIES	Pipe	USS-LIBERTY FJM [®]	
Minimum Yield Strength	110,000		psi
Maximum Yield Strength	140,000		psi
Minimum Tensile Strength	125,000		psi
DIMENSIONS	Pipe	USS-LIBERTY FJM [®]	
Outside Diameter	7.625	7.625	in.
Wall Thickness	0.375		in.
Inside Diameter	6.875	6.789	in.
Standard Drift	6.750	6.750	in.
Alternate Drift			in.
Nominal Linear Weight, T&C	29.70		lbs/ft
Plain End Weight	29.06		lbs/ft
SECTION AREA	Pipe	USS-LIBERTY FJM [®]	
Critical Area	8.541	5.074	sq. in.
Joint Efficiency		59.4	%
PERFORMANCE	Pipe	USS-LIBERTY FJM [®]	
Minimum Collapse Pressure	6,700	6,700	psi
Minimum Internal Yield Pressure	9,460	9,460	psi
Minimum Pipe Body Yield Strength	940,000		lbs
Joint Strength		558,000	lbs
Compression Rating		558,000	lbs
Reference Length		12,810	ft
Maximum Uniaxial Bend Rating		39.3	deg/100 ft
MAKE-UP DATA	Pipe	USS-LIBERTY FJM [®]	
Make-Up Loss		3.92	in.
Minimum Make-Up Torque		10,800	ft-lbs
Maximum Make-Up Torque		15,250	ft-lbs

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).

Compressive & Tensile Connection Efficiencies are calculated by dividing the connection critical area by the pipe body area.

3. Uniaxial bending rating shown is structural only, and equal to compression efficiency.

4. USS-LIBERTY FJM[™] connections are optimized for each combination of OD and wall thickness and cannot be interchanged.

5. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).

6. Reference length is calculated by joint strength divided by nominal plain end weight with 1.5 safety factor.

7. Connection external pressure leak resistance has been verified to 100% API pipe body collapse pressure following the guidelines of API 5C5 Cal III.

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U. S. Steel Tubular Products 10343 Sam Houston Park Dr., #120 Houston, TX 77064 1-877-893-9461 connections@uss.com www.usstubular.com

U. S. Steel Tubular Products 11/14/2018 9:02:57 AM 5.500" 23.00lbs/ft (0.415" Wall) USS RYS110 USS-EAGLE SFH™

MECHANICAL PROPERTIES	Pipe	USS-EAGLE SFH™	
Minimum Yield Strength	110,000		psi
Maximum Yield Strength	125,000		psi
Minimum Tensile Strength	120,000		psi
DIMENSIONS	Pipe	USS-EAGLE SFH™	
Outside Diameter	5.500	5.830	in.
Wall Thickness	0.415		in.
Inside Diameter	4.670	4.585	in.
Standard Drift	4.545	4.545	in.
Alternate Drift		4.545	in.
Nominal Linear Weight, T&C	23.00		lbs/ft
Plain End Weight	22.56		lbs/ft
ECTION AREA	Pipe	USS-EAGLE SFH™	
Critical Area	6.630	5.507	sq. in.
Joint Efficiency		83.1	%
PERFORMANCE	Pipe	USS-EAGLE SFH™	
Minimum Collapse Pressure	14,540	14,540	psi
External Pressure Leak Resistance		10,000	psi
Minimum Internal Yield Pressure	14,520	14,520	psi
Minimum Pipe Body Yield Strength	729,000		lbs
Joint Strength		606,000	lbs
Compression Rating		606,000	lbs
Reference Length		17,909	ft
Maximum Uniaxial Bend Rating		76.2	deg/100 ft
MAKE-UP DATA	Pipe	USS-EAGLE SFH™	
Make-Up Loss		6.65	in.
Minimum Make-Up Torque		16,600	ft-lbs
Minimum Marto op Forquo			
Maximum Make-Up Torque		19,800	ft-lbs

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> U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S connections@uss.com Spring, Texas 77380

1-877-893-9461 www.usstubular.com





NAN/GB NAN/GB #3.5N Golden Bell 093H

Wellbore #1

Plan: Design #1

Standard Planning Report

03 April, 2020



Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Ame NAN NAN Gold Well	45000 eredev Operati I/GB I/GB #3.5N den Bell 093H bore #1 ign #1	ing, LLC.			TVD Refer MD Refere North Refe	ence:		Well Golden Be KB @ 3045.0us KB @ 3045.0us Grid Minimum Curva	sft sft		
Project	NAN	GB										
Map System: Geo Datum: Map Zone:	North A	ate Plane 1983 American Datu lexico Eastern	im 1983			System Dat	um:	Me	ean Sea Level			
Site	NAN	'GB #3.5N										
Site Position: From: Position Uncer		at/Long	0.0 usft	Northing: Easting: Slot Radius:			430.77 usft 412.80 usft 13-3/16 "	Latitude: Longitude: Grid Converg	ence:		32° 4' 48.7 103° 18' 22.94 0	
Well	Golde	n Bell 093H										
Well Position	+N/-S	;	0.8 usft	Northing:			394,431.56	usft Lati	itude:		32° 4' 48.7	748 N
Position Uncer	+E/-V ainty	I	80.0 usft 0.0 usft	Easting: Wellhead	Elevatio	n:	859,492.78		igitude: ound Level:		103° 18' 22.0 3,018.0	
Wellbore	Well	bore #1										
Magnetics	N	lodel Name		Sample Date		Declina (°)	tion	Dip A (°			Strength 1T)	
		IGRF20	15	4/2/20)20	()	6.51	(59.93		95.99770052	
Design	Desig	jn #1										
Audit Notes:												
Version:				Phase:	PR	OTOTYPE	Tie	On Depth:		0.0		
Vertical Section	1:		-	om (TVD)		+N/-S		/-W	Di	rection		
				sft)		(usft)		sft)		(°)		
			0	10		0.0		-	1	79 79		
				0.0		0.0		.0	1	79.79		
Plan Survey To	ol Program	Dat	te 4/3/20			0.0		-	1	79.79		
Depth Fr	om De	oth To	• • • • - •	20				.0	1	79.79		
Depth Fr (usft)	om Dej (I	oth To usft) Surv	ey (Wellbo	120 pre)		Fool Name		-	1	79.79		
Depth Fr	om Dej (I	oth To	ey (Wellbo	120 pre)	N		0	.0	1	79.79		
Depth Fr (usft) 1	om Dej (I	oth To usft) Surv	ey (Wellbo	120 pre)	N	Tool Name 1WD	0	.0	1	79.79		
Depth Fr (usft) 1 Plan Sections Measured Depth	om Dei (1 0.0 2: Inclination	oth To usft) Surv 2,126.4 Desi Azimuth	ey (Wellbo gn #1 (Wel Vertic Dept	120 pre) Ilbore #1) al th +N/-	0 	Fool Name IWD IWSG MWD - +E/-W	• Standard Dogleg Rate	.0 Remarks Build Rate	Turn Rate	TFO		
Depth Fr (usft) 1 Plan Sections Measured	om Dei (1	oth To usft) Surv 2,126.4 Desi	ey (Wellbo gn #1 (Wel Vertic	120 pre) Ilbore #1) al th +N/-	0 	Fool Name 1WD WSG MWD -	0 Standard	.0 Remarks Build	Turn		Target	
Depth Fr (usft) 1 Plan Sections Measured Depth (usft) 0.0	om Dei (1 0.0 2: Inclination (°) 0.00	Azimuth (°) 0.00	gn #1 (Wellbo gn #1 (Wel Vertic Dept (usfi	220 pre) Ilbore #1) sal th +N/- t) (usf 0.0	M O S t) 0.0	Fool Name IWD WSG MWD - +E/-W (usft) 0.0	0 Standard Dogleg Rate (°/100usft) 0.00	.0 Remarks Build Rate (°/100usft) 0.00	Turn Rate (°/100usft) 0.00	TFO (°) 0.00	Target	
Plan Sections Measured Depth (usft) 0.0 2,000.0	om Dei (t) 0.0 2: Inclination (°) 0.00 0.00	Desite Survestion 2,126.4 Desite Azimuth (°) 0 0.0 0 0.0	vey (Wellbc gn #1 (Wel Vertic Dept (usfi 0 0 2,0	220 pre) Ilbore #1) al th +N/- t) (usf 0.0 000.0	M O S t) 0.0 0.0	Fool Name 1WD WSG MWD - +E/-W (usft) 0.0 0.0	0 Standard Dogleg Rate (°/100usft) 0.00 0.00	.0 Remarks Build Rate (°/100usft) 0.00 0.00	Turn Rate (°/100usft) 0.00 0.00	TFO (°) 0.00 0.00	Target	
Depth Fr (usft) 1 Plan Sections Measured Depth (usft) 0.0	om Dei (1 0.0 2: Inclination (°) 0.00	Desite Survestion 2,126.4 Desite Azimuth (°) 0 0.0 90.0 90.0	vey (Wellbc gn #1 (Wel Vertic Dept (usfi 0 2,0 0 2,2	220 pre) Ilbore #1) sal th +N/- t) (usf 0.0	M O S t) 0.0	Fool Name IWD WSG MWD - +E/-W (usft) 0.0	0 Standard Dogleg Rate (°/100usft) 0.00	.0 Remarks Build Rate (°/100usft) 0.00	Turn Rate (°/100usft) 0.00	TFO (°) 0.00	Target	
Depth Fr (usft) 1 Plan Sections Measured Depth (usft) 0.0 2,000.0 2,300.0 3,004.4 3,304.4	Dom Del (() 0.0 22 Inclination (°) 0.00 6.00 6.00 6.00 0.00	To Surv 2,126.4 Desi Azimuth (°) 0 0.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0	vey (Wellbc gn #1 (Wel Vertic Dept (usft 0 2,0 0 2,2 0 3,0 0 3,2	220 pre) Ilbore #1) ilbore #1) ilbore #1) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	S (0.0) 0.0) 0.0) 0.0) 0.0) 0.0) 0.0)	Fool Name IWD WSG MWD - +E/-W (usft) 0.0 0.0 15.7 89.3 105.0	• Standard • Standard (°/100usft) 0.00 0.00 2.00 0.00 2.00	.0 Remarks Build Rate (°/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00	TFO (°) 0.00 90.00 90.00 0.00 180.00	Target	
Depth Fr (usft) 1 Plan Sections Measured Depth (usft) 0.0 2,000.0 2,000.0 2,300.0 3,004.4 3,304.4 11,005.0	Dom Del (() 0.0 22 Inclination (°) 0.00 6.00 6.00 6.00 0.00 0.00 0.00 0.0	th To usft) Surv 2,126.4 Desi Azimuth (°) 0.0 0 0.0 9 0.0 9 0.0 9 0.0 9 0.0 9 0.0 9 0.0 9 0.0 9 0.0 9 0.0	vey (Wellbc gn #1 (Wel Vertic Dept (usfi 0 0 2,2 0 0 3,2 0 3,2 0 11,0	220 pre) Ilbore #1) ilbore #1) (usf 0.0 000.0 299.5 000.0 299.5 000.0	S (0.0) (0.0	Fool Name IWD WSG MWD - +E/-W (usft) 0.0 0.0 15.7 89.3 105.0 105.0	• Standard Dogleg Rate (°/100usft) 0.00 2.00 0.00 2.00 0.00 2.00 0.00	.0 Remarks Build Rate (°/100usft) 0.00 0.00 2.00 0.00 -2.00 0.00 0.00	Turn Rate (°/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	TFO (°) 0.00 90.00 0.00 180.00 0.00	Target	
Depth Fr (usft) 1 Plan Sections Measured Depth (usft) 0.0 2,000.0 2,300.0 3,004.4 3,304.4	Dom Del (() 0.0 22 Inclination (°) 0.00 6.00 6.00 6.00 0.00	th Tousti Surv 2,126.4 Desi Azimuth (°) 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0	vertic gn #1 (Wellbo Vertic Dept (usff 0 2,0 0 2,2 0 3,2 0 11,0 3 11,1	220 pre) Illbore #1) ih +N/- t) (usf 0.0 000.0 299.5 000.0 299.5 000.0 175.7	S (0.0) 0.0) 0.0) 0.0) 0.0) 0.0) 0.0)	Fool Name IWD WSG MWD - +E/-W (usft) 0.0 0.0 15.7 89.3 105.0	• Standard • Standard (°/100usft) 0.00 0.00 2.00 0.00 2.00	.0 Remarks Build Rate (°/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00	TFO (°) 0.00 90.00 90.00 180.00 180.00 0.00 247.33	Target GB093 EOC	

4/3/2020 2:10:26PM

Released to Imaging: 6/25/2021 9:09:47 AM

COMPASS 5000.15 Build 90



Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Golden Bell 093H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3045.0usft
Project:	NAN/GB	MD Reference:	KB @ 3045.0usft
Site:	NAN/GB #3.5N	North Reference:	Grid
Well:	Golden Bell 093H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

0.0 100.0 200.0 300.0 400.0 500.0 600.0 700.0 800.0 900.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00	0.0 100.0 200.0 300.0 400.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.00	0.00	0.00
100.0 200.0 300.0 400.0 500.0 600.0 700.0 800.0	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	100.0 200.0 300.0	0.0 0.0	0.0				
200.0 300.0 400.0 500.0 600.0 700.0 800.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	200.0 300.0	0.0			0.00	0.00	0.00
300.0 400.0 500.0 600.0 700.0 800.0	0.00 0.00 0.00 0.00	0.00 0.00	300.0			0.0	0.00	0.00	0.00
400.0 500.0 600.0 700.0 800.0	0.00 0.00 0.00	0.00		0.0	0.0	0.0	0.00	0.00	0.00
500.0 600.0 700.0 800.0	0.00 0.00		400.0						
600.0 700.0 800.0	0.00	0.00		0.0	0.0	0.0	0.00	0.00	0.00
700.0 800.0		0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
		0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
000 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 1,900.0	0.00 0.00	0.00 0.00	1,800.0 1,900.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 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	90.00	2,100.0	0.0	1.7	0.0	2.00	2.00	0.00
2,200.0	4.00	90.00	2,199.8	0.0	7.0	0.0	2.00	2.00	0.00
2,300.0	6.00	90.00	2,299.5	0.0	15.7	0.1	2.00	2.00	0.00
2,400.0	6.00	90.00	2,398.9	0.0	26.1	0.1	0.00	0.00	0.00
2,500.0	6.00	90.00	2,498.4	0.0	36.6	0.1	0.00	0.00	0.00
2,600.0	6.00	90.00	2,597.8	0.0	47.1	0.2	0.00	0.00	0.00
2,700.0	6.00	90.00	2,697.3	0.0	57.5	0.2	0.00	0.00	0.00
2,800.0	6.00	90.00	2,796.7	0.0	68.0	0.3	0.00	0.00	0.00
2,900.0	6.00	90.00	2,896.2	0.0	78.4	0.3	0.00	0.00	0.00
3,000.0	6.00	90.00	2,995.6	0.0	88.9	0.3	0.00	0.00	0.00
,								0.00	
3,004.4	6.00	90.00	3,000.0	0.0	89.3	0.3	0.00		0.00
3,100.0	4.09	90.00	3,095.2	0.0	97.7	0.4	2.00	-2.00	0.00
3,200.0	2.09	90.00	3,195.1	0.0	103.1	0.4	2.00	-2.00	0.00
3,300.0	0.09	90.00	3,295.0	0.0	105.0	0.4	2.00	-2.00	0.00
3,304.4	0.00	0.00	3,299.5	0.0	105.0	0.4	2.00	-2.00	0.00
3,400.0	0.00	0.00	3,395.0	0.0	105.0	0.4	0.00	0.00	0.00
3,500.0	0.00	0.00	3,495.0	0.0	105.0	0.4	0.00	0.00	0.00
3,600.0	0.00	0.00	3,595.0	0.0	105.0	0.4	0.00	0.00	0.00
3,700.0	0.00	0.00	3,695.0	0.0	105.0	0.4	0.00	0.00	0.00
3,800.0	0.00	0.00	3,795.0	0.0	105.0	0.4	0.00	0.00	0.00
3,900.0	0.00	0.00	3,895.0	0.0	105.0	0.4	0.00	0.00	0.00
4,000.0	0.00	0.00	3,995.0	0.0	105.0	0.4	0.00	0.00	0.00
4,000.0	0.00	0.00	4,095.0	0.0	105.0	0.4	0.00	0.00	0.00
,									
4,200.0	0.00	0.00	4,195.0	0.0	105.0	0.4	0.00	0.00	0.00
4,300.0	0.00	0.00	4,295.0	0.0	105.0	0.4	0.00	0.00	0.00
4,400.0	0.00	0.00	4,395.0	0.0	105.0	0.4	0.00	0.00	0.00
4,500.0	0.00	0.00	4,495.0	0.0	105.0	0.4	0.00	0.00	0.00
4,600.0	0.00	0.00	4,595.0	0.0	105.0	0.4	0.00	0.00	0.00
4,700.0	0.00	0.00	4,695.0	0.0	105.0	0.4	0.00	0.00	0.00
4,800.0	0.00	0.00	4,795.0	0.0	105.0	0.4	0.00	0.00	0.00
4,900.0	0.00	0.00	4,895.0	0.0	105.0	0.4	0.00	0.00	0.00
5,000.0	0.00	0.00	4,995.0	0.0	105.0	0.4	0.00	0.00	0.00
5,100.0	0.00	0.00	5.095.0	0.0	105.0	0.4	0.00	0.00	0.00

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Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Golden Bell 093H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3045.0usft
Project:	NAN/GB	MD Reference:	KB @ 3045.0usft
Site:	NAN/GB #3.5N	North Reference:	Grid
Well:	Golden Bell 093H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

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9,700.00.000.009,695.00.0105.00.40.000.009,800.00.000.009,795.00.0105.00.40.000.009,900.00.000.009,895.00.0105.00.40.000.0010,000.00.000.009,995.00.0105.00.40.000.0010,100.00.000.0010,095.00.0105.00.40.000.00		0.00
9,800.00.000.009,795.00.0105.00.40.000.009,900.00.000.009,895.00.0105.00.40.000.0010,000.00.000.009,995.00.0105.00.40.000.0010,100.00.000.0010,095.00.0105.00.40.000.00		0.00
9,900.00.000.009,895.00.0105.00.40.000.0010,000.00.000.009,995.00.0105.00.40.000.0010,100.00.000.0010,095.00.0105.00.40.000.00	9,700.0	0.00
9,900.00.000.009,895.00.0105.00.40.000.0010,000.00.000.009,995.00.0105.00.40.000.0010,100.00.000.0010,095.00.0105.00.40.000.00	9,800.0	0.00
10,000.00.000.009,995.00.0105.00.40.000.0010,100.00.000.0010,095.00.0105.00.40.000.00		0.00
10,100.0 0.00 10,095.0 0.0 105.0 0.4 0.00 0.00		0.00
		0.00
10,200.0 0.00 0.00 10,130.0 0.0 100.0 0.4 0.00 0.00	10,200.0	0.00
		0.00
		0.00
10,500.0 0.00 0.00 10,495.0 0.0 105.0 0.4 0.00 0.00	10,500.0	0.00

4/3/2020 2:10:26PM

Page 4

COMPASS 5000.15 Build 90

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Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Golden Bell 093H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3045.0usft
Project:	NAN/GB	MD Reference:	KB @ 3045.0usft
Site:	NAN/GB #3.5N	North Reference:	Grid
Well:	Golden Bell 093H	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 10,700.0	0.00 0.00	0.00 0.00	10,595.0 10,695.0	0.0 0.0	105.0 105.0	0.4 0.4	0.00 0.00	0.00 0.00	0.00 0.00
10,800.0 10,900.0 11,000.0 11,005.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	10,795.0 10,895.0 10,995.0 11,000.0	0.0 0.0 0.0 0.0	105.0 105.0 105.0 105.0	0.4 0.4 0.4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
GB093 KOP									
11,100.0	11.57	247.33	11,094.4	-3.7	96.2	4.0	12.17	12.17	0.00
11,185.0 11,200.0 11,300.0 11,400.0 11,500.0	21.91 22.61 29.72 39.22 49.74	247.33 242.89 220.18 206.60 197.82	11,175.7 11,189.6 11,279.5 11,362.0 11,433.3	-13.1 -15.5 -43.3 -90.7 -155.5	73.6 68.5 35.3 5.0 -20.9	13.4 15.7 43.4 90.7 155.4	12.17 12.17 12.17 12.17 12.17	12.17 4.70 7.11 9.50 10.52	0.00 -29.64 -22.71 -13.58 -8.78
11,594.8	60.16	191.77	11,487.7	-230.5	-40.5	230.3	12.17	11.00	-6.39
GB093 into N 11,600.0 11,700.0 11,711.2	MNM137471 60.74 71.99 73.25	191.48 186.39 185.87	11,490.2 11,530.3 11,533.6	-234.9 -325.2 -335.8	-41.4 -55.4 -56.5	234.7 325.0 335.6	12.17 12.17 12.17	11.14 11.24 11.32	-5.61 -5.09 -4.67
GB093 FTP									
11,800.0	83.35	181.92	11,551.6	-422.5	-62.4	422.3	12.17	11.37	-4.44
11,858.3 GB093 EOC	90.00	179.43	11,555.0	-480.7	-63.0	480.5	12.17	11.40	-4.27
11,900.0 12,000.0 12,100.0 12,200.0	90.00 90.00 90.00 90.00	179.43 179.43 179.43 179.43	11,555.0 11,555.0 11,555.0 11,555.0	-522.4 -622.3 -722.3 -822.3	-62.6 -61.6 -60.6 -59.6	522.1 622.1 722.1 822.1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
12,300.0 12,400.0 12,500.0 12,600.0 12,700.0	90.00 90.00 90.00 90.00 90.00	179.43 179.43 179.43 179.43 179.43 179.43	11,555.0 11,555.0 11,555.0 11,555.0 11,555.0	-922.3 -1,022.3 -1,122.3 -1,222.3 -1,322.3	-58.6 -57.6 -56.6 -55.6 -54.6	922.1 1,022.1 1,122.1 1,222.1 1,322.1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
12,800.0 12,900.0 13,000.0	90.00 90.00 90.00	179.43 179.43 179.43	11,555.0 11,555.0 11,555.0	-1,422.3 -1,522.3 -1,622.3	-53.6 -52.6 -51.6	1,422.1 1,522.1 1,622.1	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
13,100.0 13,200.0	90.00 90.00	179.43 179.43	11,555.0 11,555.0	-1,722.3 -1,822.3	-50.6 -49.6	1,722.1 1,822.1	0.00 0.00	0.00 0.00	0.00 0.00
13,300.0 13,400.0 13,500.0 13,600.0	90.00 90.00 90.00 90.00	179.43 179.43 179.43 179.43	11,555.0 11,555.0 11,555.0 11,555.0	-1,922.3 -2,022.3 -2,122.3 -2,222.3	-48.6 -47.6 -46.6 -45.6	1,922.1 2,022.1 2,122.1 2,222.1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
13,700.0 13,800.0 13,900.0	90.00 90.00 90.00	179.43 179.43 179.43	11,555.0 11,555.0 11,555.0	-2,322.3 -2,422.3 -2,522.3	-44.6 -43.6 -42.6	2,322.1 2,422.1 2,522.1	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
14,000.0 14,100.0 14,200.0	90.00 90.00 90.00 90.00	179.43 179.43 179.43 179.43	11,555.0 11,555.0 11,555.0 11,555.0	-2,522.3 -2,622.2 -2,722.2 -2,822.2	-42.0 -41.6 -40.6 -39.6	2,622.1 2,622.1 2,722.1 2,822.1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
14,300.0 14,400.0	90.00 90.00	179.43 179.43	11,555.0 11,555.0	-2,922.2 -3,022.2	-38.6 -37.6	2,922.1 3,022.1	0.00 0.00	0.00 0.00	0.00 0.00
14,500.0 14,600.0 14,700.0	90.00 90.00 90.00	179.43 179.43 179.43	11,555.0 11,555.0 11,555.0	-3,122.2 -3,222.2 -3,322.2	-36.6 -35.6 -34.6	3,122.1 3,222.1 3,322.1	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
14,800.0 14,900.0	90.00 90.00	179.43 179.43	11,555.0 11,555.0	-3,422.2 -3,522.2	-33.6 -32.6	3,422.1 3,522.1	0.00 0.00	0.00 0.00	0.00 0.00

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Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Golden Bell 093H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3045.0usft
Project:	NAN/GB	MD Reference:	KB @ 3045.0usft
Site:	NAN/GB #3.5N	North Reference:	Grid
Well:	Golden Bell 093H	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)
15,000.0	90.00	179.43	11,555.0	-3,622.2	-31.6	3,622.1	0.00	0.00	0.00
15,100.0	90.00	179.43	11,555.0	-3,722.2	-30.6	3,722.1	0.00	0.00	0.00
15,200.0	90.00	179.43	11,555.0	-3,822.2	-29.6	3,822.1	0.00	0.00	0.00
15,300.0	90.00	179.43	11,555.0	-3,922.2	-28.6	3,922.1	0.00	0.00	0.00
15,400.0	90.00	179.43	11,555.0	-4,022.2	-27.6	4,022.0	0.00	0.00	0.00
15,500.0	90.00	179.43	11,555.0	-4,122.2	-26.6	4,122.0	0.00	0.00	0.00
15,600.0	90.00	179.43	11,555.0	-4,222.2	-25.6	4,222.0	0.00	0.00	0.00
15,700.0	90.00	179.43	11,555.0	-4,322.2	-24.6	4,322.0	0.00	0.00	0.00
15,800.0	90.00	179.43	11,555.0	-4,422.2	-23.6	4,422.0	0.00	0.00	0.00
15,900.0	90.00	179.43	11,555.0	-4,522.2	-22.6	4,522.0	0.00	0.00	0.00
16,000.0	90.00	179.43	11,555.0	-4,622.1	-21.6	4,622.0	0.00	0.00	0.00
16,100.0	90.00	179.43	11,555.0	-4,722.1	-20.6	4,722.0	0.00	0.00	0.00
16,200.0	90.00	179.43	11,555.0	-4,822.1	-19.6	4,822.0	0.00	0.00	0.00
16,300.0	90.00	179.43	11,555.0	-4,922.1	-18.6	4,922.0	0.00	0.00	0.00
16,400.0	90.00	179.43	11,555.0	-5,022.1	-17.6	5,022.0	0.00	0.00	0.00
16,500.0	90.00	179.43	11,555.0	-5,122.1	-16.6	5,122.0	0.00	0.00	0.00
16,600.0	90.00	179.43	11,555.0	-5,222.1	-15.6	5,222.0	0.00	0.00	0.00
16,700.0	90.00	179.43	11,555.0	-5,322.1	-14.6	5,322.0	0.00	0.00	0.00
16,800.0	90.00	179.43	11,555.0	-5,422.1	-13.6	5,422.0	0.00	0.00	0.00
16,888.7	90.00	179.43	11,555.0	-5,510.8	-12.7	5,510.7	0.00	0.00	0.00
	NMNM137472	170.10	11 555 0	5 500 4	40.0	5 500 0	0.00	0.00	0.00
16,900.0	90.00	179.43	11,555.0	-5,522.1	-12.6	5,522.0	0.00	0.00	0.00
17,000.0 17,100.0	90.00 90.00	179.43 179.43	11,555.0 11,555.0	-5,622.1 -5,722.1	-11.6 -10.6	5,622.0 5,722.0	0.00 0.00	0.00 0.00	0.00 0.00
17,200.0	90.00	179.43	11,555.0	-5,822.1	-9.6	5,822.0	0.00	0.00	0.00
17,300.0	90.00	179.43	11,555.0	-5,922.1	-8.6	5,922.0	0.00	0.00	0.00
17,400.0	90.00	179.43	11,555.0	-6,022.1	-7.6	6,022.0	0.00	0.00	0.00
17,500.0	90.00	179.43	11,555.0	-6,122.1	-6.6	6,122.0	0.00	0.00	0.00
17,600.0	90.00	179.43	11,555.0	-6,222.1	-5.6	6,222.0	0.00	0.00	0.00
17,700.0	90.00	179.43	11,555.0	-6,322.1	-4.6	6,322.0	0.00	0.00	0.00
17,800.0	90.00	179.43	11,555.0	-6,422.1	-3.6	6,422.0	0.00	0.00	0.00
17,900.0	90.00	179.43	11,555.0	-6,522.1	-2.6	6,522.0	0.00	0.00	0.00
18,000.0	90.00	179.43	11,555.0	-6,622.0	-1.6	6,622.0	0.00	0.00	0.00
18,100.0	90.00	179.43	11,555.0	-6,722.0	-0.6	6,722.0	0.00	0.00	0.00
18,200.0	90.00	179.43	11,555.0	-6,822.0	0.4	6,822.0	0.00	0.00	0.00
18,300.0	90.00	179.43	11,555.0	-6,922.0	1.4	6,922.0	0.00	0.00	0.00
18,400.0	90.00	179.43	11,555.0	-7,022.0	2.4	7,022.0	0.00	0.00	0.00
18,500.0	90.00	179.43	11,555.0	-7,122.0	3.4	7,122.0	0.00	0.00	0.00
18,600.0	90.00	179.43	11,555.0	-7,222.0	4.4	7,222.0	0.00	0.00	0.00
18,700.0	90.00	179.43	11,555.0	-7,322.0	5.4	7,322.0	0.00	0.00	0.00
18,800.0	90.00	179.43	11,555.0	-7,422.0	6.4	7,422.0	0.00	0.00	0.00
18,900.0	90.00	179.43	11,555.0	-7,522.0	7.4	7,522.0	0.00	0.00	0.00
19,000.0	90.00	179.43	11,555.0	-7,622.0	8.4	7,622.0	0.00	0.00	0.00
19,100.0	90.00	179.43	11,555.0	-7,722.0	9.5	7,722.0	0.00	0.00	0.00
19,200.0	90.00	179.43	11,555.0	-7,822.0	10.5	7,822.0	0.00	0.00	0.00
19,300.0	90.00	179.43	11,555.0	-7,922.0	11.5	7,922.0	0.00	0.00	0.00
19,400.0	90.00	179.43	11,555.0	-8,022.0	12.5	8,022.0	0.00	0.00	0.00
19,500.0	90.00	179.43	11,555.0	-8,122.0	13.5	8,122.0	0.00	0.00	0.00
19,600.0	90.00	179.43	11,555.0	-8,222.0	14.5	8,222.0	0.00	0.00	0.00
19,700.0	90.00	179.43	11,555.0	-8,322.0	15.5	8,322.0	0.00	0.00	0.00
19,800.0	90.00	179.43	11,555.0	-8,422.0	16.5	8,422.0	0.00	0.00	0.00
19,900.0	90.00	179.43	11,555.0	-8,522.0	17.5	8,522.0	0.00	0.00	0.00
20,000.0	90.00	179.43	11,555.0	-8,621.9	18.5	8,622.0	0.00	0.00	0.00
20,100.0	90.00	179.43	11,555.0	-8,721.9	19.5	8,722.0	0.00	0.00	0.00

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Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Golden Bell 093H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3045.0usft
Project:	NAN/GB	MD Reference:	KB @ 3045.0usft
Site:	NAN/GB #3.5N	North Reference:	Grid
Well:	Golden Bell 093H	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)
20,200.0	90.00	179.43	11,555.0	-8,821.9	20.5	8,822.0	0.00	0.00	0.00
20,300.0	90.00	179.43	11,555.0	-8,921.9	21.5	8,922.0	0.00	0.00	0.00
20,400.0	90.00	179.43	11,555.0	-9,021.9	22.5	9,021.9	0.00	0.00	0.00
20,500.0	90.00	179.43	11,555.0	-9,121.9	23.5	9,121.9	0.00	0.00	0.00
20,600.0	90.00	179.43	11,555.0	-9,221.9	24.5	9,221.9	0.00	0.00	0.00
20,700.0	90.00	179.43	11,555.0	-9,321.9	25.5	9,321.9	0.00	0.00	0.00
20,800.0	90.00	179.43	11,555.0	-9,421.9	26.5	9,421.9	0.00	0.00	0.00
20,900.0	90.00	179.43	11,555.0	-9,521.9	27.5	9,521.9	0.00	0.00	0.00
21,000.0	90.00	179.43	11,555.0	-9,621.9	28.5	9,621.9	0.00	0.00	0.00
21,100.0	90.00	179.43	11,555.0	-9,721.9	29.5	9,721.9	0.00	0.00	0.00
21,200.0	90.00	179.43	11,555.0	-9,821.9	30.5	9,821.9	0.00	0.00	0.00
21,300.0	90.00	179.43	11,555.0	-9,921.9	31.5	9,921.9	0.00	0.00	0.00
21,400.0	90.00	179.43	11,555.0	-10,021.9	32.5	10,021.9	0.00	0.00	0.00
21,500.0	90.00	179.43	11,555.0	-10,121.9	33.5	10,121.9	0.00	0.00	0.00
21,600.0	90.00	179.43	11,555.0	-10,221.9	34.5	10,221.9	0.00	0.00	0.00
21,700.0	90.00	179.43	11,555.0	-10,321.9	35.5	10,321.9	0.00	0.00	0.00
21,800.0	90.00	179.43	11,555.0	-10,421.9	36.5	10,421.9	0.00	0.00	0.00
21,900.0	90.00	179.43	11,555.0	-10,521.9	37.5	10,521.9	0.00	0.00	0.00
22,000.0	90.00	179.43	11,555.0	-10,621.8	38.5	10,621.9	0.00	0.00	0.00
22,076.4	90.00	179.43	11,555.0	-10,698.2	39.2	10,698.3	0.00	0.00	0.00
GB093 LTP									
22,100.0	90.00	179.43	11,555.0	-10,721.8	39.5	10,721.9	0.00	0.00	0.00
22,126.4	90.00	179.43	11,555.0	-10,748.3	39.8	10,748.3	0.00	0.00	0.00
GB093 BHL									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
GB093 EOC - plan hits target cer - Point	0.00 ter	0.00	11,555.0	-480.7	-63.0	393,950.86	859,429.73	32° 4' 43.998 N	103° 18' 22.801 W
GB093 BHL - plan hits target cer - Point	0.00 ter	0.00	11,555.0	-10,748.3	39.8	383,683.30	859,532.53	32° 3' 2.393 N	103° 18' 22.742 W
GB093 LTP - plan hits target cer - Point	0.00 ter	0.00	11,555.0	-10,698.2	39.2	383,733.32	859,532.02	32° 3' 2.888 N	103° 18' 22.743 W
GB093 FTP - plan misses target - Point	0.00 center by 22.9	0.00 9usft at 1171	11,555.0 1.2usft MD (*	-330.7 11533.6 TVD,	-63.0 -335.8 N, -56.	394,100.86 5 E)	859,429.73	32° 4' 45.482 N	103° 18' 22.785 W

Plan Annotations

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
11,005.0	11,000.0	0.0	105.0	GB093 KOP
11,594.8	11,487.7	-230.5	-40.5	GB093 into NMNM137471
16,888.7	11,555.0	-5,510.8	-12.7	GB093 into NMNM137472

4/3/2020 2:10:26PM

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NAN/GB NAN/GB #3.5N Golden Bell 093H Wellbore #1

Plan: Design #1

Lease Penetration Section Line Foot

03 April, 2020



Ameredev Operating, LLC

Lease Penetration Section Line Footages

Company: Project: Site: Well: Wellbore: Design:	NAN NAN Gold Well	eredev Operati I/GB I/GB #3.5N Ien Bell 093H bore #1 ign #1	ng, LLC.			TVD Refe MD Refer North Re	ence: ference: alculation Metho		Well Golden Be KB @ 3045.0us KB @ 3045.0us Grid Minimum Curva EDM5000	sft sft	
Project		NAN/GB									
Map System: Geo Datum: Map Zone:	Ν	JS State Plane lorth Americar lew Mexico Ea	n Datum '			System	Datum:		Mean Sea Lev	<i>v</i> el	
Site		NAN/GB #3.5	ōN								
Site Position: From: Position Uncerta	ainty:	Lat/Long	0.0 us	East	thing: ting: Radius:		394,430.77 _{usft} 859,412.80 usft 13-3/16 "	Latitud Longit Grid C			32° 4' 48.748 103° 18' 22.945 V 0.55 °
Well		Golden Bell 0	93H								
Well Position		+N/-S +E/-W	0.	0 usft I	Northing: Easting: Wellhead E	lovation	394,431.5 859,492.7		Latitude: Longitude: Ground Level:		32° 4' 48.748 103° 18' 22.015 \ 3,018.0 usi
Position oncerta	anny		0.	o usit	weinieau E	levation.		usit	Ground Level.		3,010.0 us
Wellbore		Wellbore #1									
Magnetics		Model Na	ame	Sam	ple Date	Dec	lination (°)		Dip Angle (°)	Field Str (nT	-
		IG	RF2015		4/2/202	20	6.51		59.9	3 47,59	5.99770052
Design											
Audit Notes: Version:		Design #1			ISE:	PROTOTYF		ie On De	pth:	0.0	
		Design #1	D	Pha epth From ((usft) 0.0		PROTOTYF +N/- 3 (usft 0.0	; ; +	ie On De ∙E/-W (usft) 0.0	pth:	0.0 Direction (°) 179.79	
Version: Vertical Section	:	Design #1		epth From ((usft) 0.0		+N/-S (usft	; ; +	ŀE/-W (usft)	pth:	Direction (°)	
Version:	:	To (usft)	Date	epth From ((usft)		+N/-S (usft	; ; +	ŀE/-W (usft)	pth:	Direction (°)	
Version: Vertical Section Survey Tool Pro From	:	To (usft)	Date Survey (epth From ((usft) 0.0 4/3/2020	TVD)	+N/-S (usft	5 +) (ŀE/-W (usft)	- 	Direction (°) 179.79	
Version: Vertical Section Survey Tool Pro From (usft)	: • gram 0.0	To (usft)	Date Survey (epth From ((usft) 0.0 4/3/2020 (Wellbore)	TVD)	+N/-S (usft	S +) (Tool Name	ŀE/-W (usft)	Description	Direction (°) 179.79	
Version: Vertical Section Survey Tool Pro From	: • gram 0.0	To (usft)	Date Survey (Design #	epth From ((usft) 0.0 4/3/2020 (Wellbore)	#1)	+N/-S (usft	S +) (Tool Name	ŀE/-W (usft)	Description	Direction (°) 179.79	Longitude
Version: Vertical Section Survey Tool Pro From (usft) Planned Survey MD (usft)	: • gram 0.0	To (usft) 22,126.4 Inc	Date Survey (Design #	epth From ((usft) 0.0 4/3/2020 (Wellbore) #1 (Wellbore) Azi (azimuti	#1) 0.00	+N/-5 (usft 0.0 0.0 TVD (usft) 0.0	Tool Name MWD +FSL/-FNL (usft)	-E/-W (usft) 0.0	Description OWSG MWD +FWL/-FEL (usft) 2,047.0	Direction (°) 179.79 - Standard Latitude 32° 4' 48.748 N	103° 18' 22.015 V
Version: Vertical Section Survey Tool Pro From (usft) Planned Survey MD (usft)	: •gram 0.0 0.0 0.0	To (usft) 22,126.4 Inc	Date Survey (Design # 0.00 0.00	epth From ((usft) 0.0 4/3/2020 (Wellbore) #1 (Wellbore) Azi (azimuti	#1) 0.00 0.00	+N/-5 (usft 0.0 0.0 TVD (usft) 0.0 100.0	5 + +) ((Tool Name MWD +FSL/-FNL (usft) 2: 2:	E/-W (usft) 0.0 30.8 30.8	- Description OWSG MWD +FWL/-FEL (usft) 2,047.0 2,047.0	Direction (°) 179.79 - Standard Latitude 32° 4' 48.748 N 32° 4' 48.748 N	103° 18' 22.015 \ 103° 18' 22.015 \
Version: Vertical Section Survey Tool Pro From (usft) Planned Survey MD (usft) 1 2	: •gram 0.0 0.0 00.0 :00.0	To (usft) 22,126.4 Inc	Date Survey (Design # 0.00 0.00 0.00	epth From ((usft) 0.0 4/3/2020 (Wellbore) #1 (Wellbore) Azi (azimuti	#1) 0.00 0.00 0.00	+N/-5 (usft 0.0 0.0 7VD (usft) 0.0 100.0 200.0	5 + +) ((Tool Name MWD +FSL/-FNL (usft) 2: 2: 2:	4. (usft) 0.0 30.8 30.8 30.8 30.8	• • • • • • • • • • • • • • • • • • •	Direction (°) 179.79 - Standard - Standard Latitude 32° 4' 48.748 N 32° 4' 48.748 N 32° 4' 48.748 N	103° 18' 22.015 103° 18' 22.015 103° 18' 22.015
Version: Vertical Section Survey Tool Pro From (usft) Planned Survey MD (usft) 1 2 3	: •gram 0.0 0.0 0.0	To (usft) 22,126.4 Inc	Date Survey (Design # 0.00 0.00	epth From ((usft) 0.0 4/3/2020 (Wellbore) #1 (Wellbore) Azi (azimuti	#1) 0.00 0.00	+N/-5 (usft 0.0 0.0 TVD (usft) 0.0 100.0	Tool Name MWD +FSL/-FNL (usft) 22 23 23	E/-W (usft) 0.0 30.8 30.8	- Description OWSG MWD +FWL/-FEL (usft) 2,047.0 2,047.0	Direction (°) 179.79 - Standard Latitude 32° 4' 48.748 N 32° 4' 48.748 N	103° 18' 22.015 103° 18' 22.015
Version: Vertical Section Survey Tool Pro From (usft) Planned Survey MD (usft) 1 2 3 4		To (usft) 22,126.4 Inc	Date Survey (Design # 0.00 0.00 0.00 0.00 0.00 0.00	epth From ((usft) 0.0 4/3/2020 (Wellbore) #1 (Wellbore) Azi (azimuti	#1) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	+N/-5 (usft 0.0 0.0 0.0 100.0 200.0 300.0 400.0	5 + 5 + 7 Tool Name MWD +FSL/-FNL (usft) 22 23 23 24 24 24 24 24	E/-W (usft) 0.0 30.8 30.8 30.8 30.8 30.8 30.8 30.8	• • • • • • • • • • • • • •	Direction (°) 179.79 - Standard -	103° 18' 22.015 1 103° 18' 22.015 1 103° 18' 22.015 1 103° 18' 22.015 1 103° 18' 22.015 1
Version: Vertical Section Survey Tool Pro From (usft) Planned Survey MD (usft) 1 2 3 4 5	: •gram 0.0 0.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0	To (usft) 22,126.4 Inc	Date Survey (Design # 0.00 0.00 0.00 0.00 0.00 0.00 0.00	epth From ((usft) 0.0 4/3/2020 (Wellbore) #1 (Wellbore) Azi (azimuti	#1) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	+N/-5 (usft) 0.0 0.0 100.0 200.0 300.0 400.0 500.0	Tool Name MWD +FSL/-FNL (usft) 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2:	E/-W (usft) 0.0 30.8 30.8 30.8 30.8 30.8 30.8 30.8	• • • • • • • • • • • • • •	Direction (°) 179.79 - Standard - Standard - Latitude 32° 4' 48.748 N 32° 4' 48.748 N	103° 18' 22.015 103° 18' 22.015 103° 18' 22.015 103° 18' 22.015 103° 18' 22.015 103° 18' 22.015
Version: Vertical Section Survey Tool Pro From (usft) Planned Survey MD (usft) 1 2 3 4 5 6		To (usft) 22,126.4 Inc	Date Survey (Design # 0.00 0.00 0.00 0.00 0.00 0.00	epth From ((usft) 0.0 4/3/2020 (Wellbore) #1 (Wellbore) Azi (azimuti	#1) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	+N/-5 (usft 0.0 0.0 0.0 100.0 200.0 300.0 400.0	Tool Name MWD +FSL/-FNL (usft) 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2:	 E/-W (usft) 0.0 30.8 	• • • • • • • • • • • • • •	Direction (°) 179.79 - Standard -	103° 18' 22.015 103° 18' 22.015 103° 18' 22.015 103° 18' 22.015 103° 18' 22.015 103° 18' 22.015 103° 18' 22.015
Version: Vertical Section Survey Tool Pro From (usft) Planned Survey MD (usft) 1 2 3 4 5 6 7	: •gram 0.0 0.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0	To (usft) 22,126.4 Inc	Date Survey (Design # 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	epth From ((usft) 0.0 4/3/2020 (Wellbore) #1 (Wellbore) Azi (azimuti	#1) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	+N/-5 (usft) 0.0 TVD (usft) 0.0 100.0 200.0 300.0 400.0 500.0 600.0	Tool Name MWD +FSL/-FNL (usft) 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2:	E/-W (usft) 0.0 30.8 30.8 30.8 30.8 30.8 30.8 30.8	• • • • • • • • • • • • • •	Direction (°) 179.79 - Standard - Standard - Latitude 32° 4' 48.748 N 32° 4' 48.748 N	103° 18' 22.015 103° 18' 22.015
Version: Vertical Section Survey Tool Pro From (usft) Planned Survey MD (usft) 1 2 3 4 5 6 7 8	: •gram 0.0 0.0 0.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0	To (usft) 22,126.4 Inc	Date Survey (Design # 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	epth From ((usft) 0.0 4/3/2020 (Wellbore) #1 (Wellbore) Azi (azimuti	#1) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	+N/-5 (usft) 0.0 7VD (usft) 0.0 100.0 200.0 300.0 400.0 500.0 600.0 700.0	Tool Name MWD +FSL/-FNL (usft) 22 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	 E/-W (usft) 0.0 30.8 	• • • • • • • • • • • • • •	Direction (°) 179.79 - Standard - Standard - Latitude 32° 4' 48.748 N 32° 4' 48.748 N	103° 18' 22.015 ' 103° 18' 22.015 ' 103° 18' 22.015 ' 103° 18' 22.015 '
Version: Vertical Section Survey Tool Pro From (usft) Planned Survey MD (usft) 1 2 3 4 5 6 7 8 9 1,0		To (usft) 22,126.4 Inc	Date Survey (Design # 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	epth From ((usft) 0.0 4/3/2020 (Wellbore) #1 (Wellbore) Azi (azimuti	#1) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	+N/-5 (usft 0.0 7VD (usft) 0.0 100.0 200.0 300.0 400.0 500.0 600.0 700.0 800.0	Tool Name MWD +FSL/-FNL (usft) 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2:	 E/-W (usft) 0.0 30.8 	• • • • • • • • • • • • • •	Direction (°) 179.79 - Standard - Standard - Latitude 32° 4' 48.748 N 32° 4' 48.748 N	103° 18' 22.015 ' 103° 18' 22.015 '

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Ameredev Operating, LLC

Lease Penetration Section Line Footages

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Golden Bell 093H
Project:	NAN/GB	TVD Reference:	KB @ 3045.0usft
Site:	NAN/GB #3.5N	MD Reference:	KB @ 3045.0usft
Well:	Golden Bell 093H	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	230.8	2,047.0	32° 4' 48.748 N	103° 18' 22.015 W
1,300.0	0.00	0.00	1,300.0	230.8	2,047.0	32° 4' 48.748 N	103° 18' 22.015 W
1,400.0	0.00	0.00	1,400.0	230.8	2,047.0	32° 4' 48.748 N	103° 18' 22.015 W
1,500.0	0.00	0.00	1,500.0	230.8	2,047.0	32° 4' 48.748 N	103° 18' 22.015 W
1,600.0	0.00	0.00	1,600.0	230.8	2,047.0	32° 4' 48.748 N	103° 18' 22.015 W
1,700.0	0.00	0.00	1,700.0	230.8	2,047.0	32° 4' 48.748 N	103° 18' 22.015 W
1,800.0	0.00	0.00	1,800.0	230.8	2,047.0	32° 4' 48.748 N	103° 18' 22.015 W
1,900.0	0.00	0.00	1,900.0	230.8	2,047.0	32° 4' 48.748 N	103° 18' 22.015 W
2,000.0	0.00	0.00	2,000.0	230.8	2,047.0	32° 4' 48.748 N	103° 18' 22.015 W
2,100.0	2.00	90.00	2,100.0	230.8	2,048.7	32° 4' 48.748 N	103° 18' 21.995 W
2,200.0	4.00	90.00	2,199.8	230.8	2,054.0	32° 4' 48.747 N	103° 18' 21.934 W
2,300.0	6.00	90.00	2,299.5	230.8	2,062.7	32° 4' 48.747 N	103° 18' 21.833 W
2,400.0	6.00	90.00	2,398.9	230.8	2,073.1	32° 4' 48.746 N	103° 18' 21.712 W
2,500.0	6.00	90.00	2,498.4	230.8	2,083.6	32° 4' 48.745 N	103° 18' 21.590 W
2,600.0	6.00	90.00	2,597.8	230.8	2,094.0	32° 4' 48.744 N	103° 18' 21.469 W
2,700.0	6.00	90.00	2,697.3	230.8	2,104.5	32° 4' 48.743 N	103° 18' 21.347 W
2,800.0	6.00	90.00	2,796.7	230.8	2,114.9	32° 4' 48.742 N	103° 18' 21.226 W
2,900.0	6.00	90.00	2,896.2	230.8	2,125.4	32° 4' 48.741 N	103° 18' 21.104 W
3,000.0	6.00	90.00	2,995.6	230.8	2,135.8	32° 4' 48.740 N	103° 18' 20.983 W
3,004.4	6.00	90.00	3,000.0	230.8	2,136.3	32° 4' 48.740 N	103° 18' 20.977 W
3,100.0	4.09	90.00	3,095.2	230.8	2,144.7	32° 4' 48.739 N	103° 18' 20.880 W
3,200.0	2.09	90.00	3,195.1	230.8	2,150.1	32° 4' 48.738 N	103° 18' 20.817 W
3,300.0	0.09	90.00	3,295.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
3,304.4	0.00	0.00	3,299.5	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
3,400.0	0.00	0.00	3,395.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
3,500.0	0.00	0.00	3,495.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
3,600.0	0.00	0.00	3,595.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
3,700.0	0.00	0.00	3,695.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
3,800.0	0.00	0.00	3,795.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
3,900.0	0.00	0.00	3,895.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
4,000.0	0.00	0.00	3,995.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
4,100.0	0.00	0.00	4,095.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
4,200.0	0.00	0.00	4,195.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
4,300.0	0.00	0.00	4,295.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
4,400.0	0.00	0.00	4,395.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
4,500.0	0.00	0.00	4,495.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
4,600.0	0.00	0.00	4,595.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
4,700.0	0.00	0.00	4,695.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
4,800.0	0.00	0.00	4,795.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
4,900.0	0.00	0.00	4,895.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
5,000.0	0.00	0.00	4,995.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
5,100.0	0.00	0.00	5,095.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
5,200.0	0.00	0.00	5,195.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
5,300.0	0.00	0.00	5,295.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W

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Ameredev Operating, LLC

Lease Penetration Section Line Footages

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Golden Bell 093H
Project:	NAN/GB	TVD Reference:	KB @ 3045.0usft
Site:	NAN/GB #3.5N	MD Reference:	KB @ 3045.0usft
Well:	Golden Bell 093H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey

MD (usft)	Inc Az (°)	ri (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
5,400.0	0.00	0.00	5,395.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
5,500.0	0.00	0.00	5,495.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
5,600.0	0.00	0.00	5,595.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
5,700.0	0.00	0.00	5,695.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
5,800.0	0.00	0.00	5,795.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
5,900.0	0.00	0.00	5,895.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
6,000.0	0.00	0.00	5,995.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
6,100.0	0.00	0.00	6,095.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
6,200.0	0.00	0.00	6,195.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
6,300.0	0.00	0.00	6,295.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
6,400.0	0.00	0.00	6,395.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
6,500.0	0.00	0.00	6,495.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
6,600.0	0.00	0.00	6,595.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
6,700.0	0.00	0.00	6,695.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
6,800.0	0.00	0.00	6,795.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
6,900.0	0.00	0.00	6,895.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
7,000.0	0.00	0.00	6,995.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
7,100.0	0.00	0.00	7,095.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
7,200.0	0.00	0.00	7,195.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
7,300.0	0.00	0.00	7,295.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
7,400.0	0.00	0.00	7,395.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
7,500.0	0.00	0.00	7,495.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
7,600.0	0.00	0.00	7,595.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
7,700.0	0.00	0.00	7,695.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
7,800.0	0.00	0.00	7,795.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
7,900.0	0.00	0.00	7,895.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
8,000.0	0.00	0.00	7,995.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
8,100.0	0.00	0.00	8,095.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
8,200.0	0.00	0.00	8,195.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
8,300.0	0.00	0.00	8,295.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
8,400.0	0.00	0.00	8,395.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
8,500.0	0.00	0.00	8,495.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
8,600.0	0.00	0.00	8,595.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
8,700.0	0.00	0.00	8,695.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
8,800.0	0.00	0.00	8,795.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
8,900.0	0.00	0.00	8,895.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
9,000.0	0.00	0.00	8,995.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
9,100.0	0.00	0.00	9,095.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
9,200.0	0.00	0.00	9,195.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
9,300.0	0.00	0.00	9,295.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
9,400.0	0.00	0.00	9,395.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
9,500.0	0.00	0.00	9,495.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
9,600.0	0.00	0.00	9,595.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
9,700.0	0.00	0.00	9,695.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W

4/3/2020 2:10:44PM

Released to Imaging: 6/25/2021 9:09:47 AM



Ameredev Operating, LLC

Lease Penetration Section Line Footages

Page 31 of 81

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Golden Bell 093H
Project:	NAN/GB	TVD Reference:	KB @ 3045.0usft
Site:	NAN/GB #3.5N	MD Reference:	KB @ 3045.0usft
Well:	Golden Bell 093H	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	9,795.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
9,900.0	0.00	0.00	9,895.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
10,000.0	0.00	0.00	9,995.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
10,100.0	0.00	0.00	10,095.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
10,200.0	0.00	0.00	10,195.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
10,300.0	0.00	0.00	10,295.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
10,400.0	0.00	0.00	10,395.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
10,500.0	0.00	0.00	10,495.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
10,600.0	0.00	0.00	10,595.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
10,700.0	0.00	0.00	10,695.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
10,800.0	0.00	0.00	10,795.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
10,900.0	0.00	0.00	10,895.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
11,000.0	0.00	0.00	10,995.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
11,005.0	0.00	0.00	11,000.0	230.8	2,152.0	32° 4' 48.738 N	103° 18' 20.795 W
GB093 KOP							
11,100.0	11.57	247.33	11,094.4	227.1	2,143.2	32° 4' 48.703 N	103° 18' 20.898 W
11,185.0	21.91	247.33	11,175.7	217.7	2,120.6	32° 4' 48.611 N	103° 18' 21.161 W
11,200.0	22.61	242.89	11,189.6	215.3	2,115.5	32° 4' 48.588 N	103° 18' 21.221 W
11,300.0	29.72	220.18	11,279.5	187.5	2,082.2	32° 4' 48.316 N	103° 18' 21.611 W
11,400.0	39.22	206.60	11,362.0	140.1	2,052.0	32° 4' 47.850 N	103° 18' 21.967 W
11,500.0	49.74	197.82	11,433.3	75.3	2,026.0	32° 4' 47.211 N	103° 18' 22.276 W
11,594.8	60.16	191.77	11,487.7	0.3	2,006.5	32° 4' 46.472 N	103° 18' 22.511 W
GB093 into NMN		101.10	11 100 0		0.005.0	00° 41 40 400 N	1008 101 00 500 101
11,600.0	60.74	191.48	11,490.2	-4.1	2,005.6	32° 4' 46.428 N	103° 18' 22.522 W
11,700.0	71.99	186.39	11,530.3	-94.4	1,991.6	32° 4' 45.535 N	103° 18' 22.695 W
11,711.2	73.25	185.87	11,533.6	-105.0	1,990.4	32° 4' 45.430 N	103° 18' 22.710 W
GB093 FTP	00.05	40.4.00		1017	4 00 4 0		
11,800.0	83.35	181.92	11,551.6	-191.7	1,984.6	32° 4' 44.573 N	103° 18' 22.787 W
11,858.3	90.00	179.43	11,555.0	-249.9	1,983.9	32° 4' 43.998 N	103° 18' 22.801 W
GB093 EOC	00.00	470.40	44 555 0	001.0	1 00 1 0	00° 41 40 505 N	1008 101 00 001 101
11,900.0	90.00	179.43	11,555.0	-291.6	1,984.3	32° 4' 43.585 N	103° 18' 22.801 W
12,000.0	90.00	179.43	11,555.0	-391.6	1,985.3	32° 4' 42.596 N	103° 18' 22.801 W
12,100.0 12,200.0	90.00 90.00	179.43 179.43	11,555.0 11,555.0	-491.5 -591.5	1,986.3 1,987.3	32° 4' 41.606 N 32° 4' 40.617 N	103° 18' 22.800 W 103° 18' 22.799 W
	00.00	470 40				200 41 20 207 11	1029 101 00 700 144
12,300.0	90.00	179.43	11,555.0	-691.5	1,988.3	32° 4' 39.627 N	103° 18' 22.799 W
12,400.0	90.00	179.43	11,555.0	-791.5	1,989.3	32° 4' 38.638 N	103° 18' 22.798 W
12,500.0	90.00	179.43	11,555.0	-891.5	1,990.3	32° 4' 37.648 N	103° 18' 22.798 W
12,600.0	90.00	179.43	11,555.0	-991.5	1,991.4	32° 4' 36.659 N	103° 18' 22.797 W
12,700.0	90.00	179.43	11,555.0	-1,091.5	1,992.4	32° 4' 35.669 N	103° 18' 22.797 W
12,800.0	90.00	179.43	11,555.0	-1,191.5	1,993.4	32° 4' 34.680 N	103° 18' 22.796 W
12,900.0	90.00	179.43	11,555.0	-1,291.5	1,994.4	32° 4' 33.690 N	103° 18' 22.795 W
13,000.0	90.00	179.43	11,555.0	-1,391.5	1,995.4	32° 4' 32.701 N	103° 18' 22.795 W
13,100.0	90.00	179.43	11,555.0	-1,491.5	1,996.4	32° 4' 31.711 N	103° 18' 22.794 W
13,200.0	90.00	179.43	11,555.0	-1,591.5	1,997.4	32° 4' 30.722 N	103° 18' 22.794 W
13,300.0	90.00	179.43	11,555.0	-1,691.5	1,998.4	32° 4' 29.732 N	103° 18' 22.793 W



Ameredev Operating, LLC

Lease Penetration Section Line Footages

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Golden Bell 093H
Project:	NAN/GB	TVD Reference:	KB @ 3045.0usft
Site:	NAN/GB #3.5N	MD Reference:	KB @ 3045.0usft
Well:	Golden Bell 093H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey

MD (usft)	lnc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
13,400.0	90.00	179.43	11,555.0	-1,791.5	1,999.4	32° 4' 28.743 N	103° 18' 22.793 W
13,500.0	90.00	179.43	11,555.0	-1,891.5	2,000.4	32° 4' 27.753 N	103° 18' 22.792 W
13,600.0	90.00	179.43	11,555.0	-1,991.5	2,001.4	32° 4' 26.764 N	103° 18' 22.791 W
13,700.0	90.00	179.43	11,555.0	-2,091.5	2,002.4	32° 4' 25.774 N	103° 18' 22.791 W
13,800.0	90.00	179.43	11,555.0	-2,191.5	2,003.4	32° 4' 24.785 N	103° 18' 22.790 W
13,900.0	90.00	179.43	11,555.0	-2,291.5	2,004.4	32° 4' 23.795 N	103° 18' 22.790 W
14,000.0	90.00	179.43	11,555.0	-2,391.5	2,005.4	32° 4' 22.806 N	103° 18' 22.789 W
14,100.0	90.00	179.43	11,555.0	-2,491.4	2,006.4	32° 4' 21.816 N	103° 18' 22.789 W
14,200.0	90.00	179.43	11,555.0	-2,591.4	2,007.4	32° 4' 20.827 N	103° 18' 22.788 W
14,300.0	90.00	179.43	11,555.0	-2,691.4	2,008.4	32° 4' 19.837 N	103° 18' 22.787 W
14,400.0	90.00	179.43	11,555.0	-2,791.4	2,009.4	32° 4' 18.848 N	103° 18' 22.787 W
14,500.0	90.00	179.43	11,555.0	-2,891.4	2,010.4	32° 4' 17.858 N	103° 18' 22.786 W
14,600.0	90.00	179.43	11,555.0	-2,991.4	2,011.4	32° 4' 16.869 N	103° 18' 22.786 W
14,700.0	90.00	179.43	11,555.0	-3,091.4	2,012.4	32° 4' 15.879 N	103° 18' 22.785 W
14,800.0	90.00	179.43	11,555.0	-3,191.4	2,013.4	32° 4' 14.890 N	103° 18' 22.785 W
14,900.0	90.00	179.43	11,555.0	-3,291.4	2,014.4	32° 4' 13.900 N	103° 18' 22.784 W
15,000.0	90.00	179.43	11,555.0	-3,391.4	2,015.4	32° 4' 12.910 N	103° 18' 22.783 W
15,100.0	90.00	179.43	11,555.0	-3,491.4	2,016.4	32° 4' 11.921 N	103° 18' 22.783 W
15,200.0	90.00	179.43	11,555.0	-3,591.4	2,017.4	32° 4' 10.931 N	103° 18' 22.782 W
15,300.0	90.00	179.43	11,555.0	-3,691.4	2,018.4	32° 4' 9.942 N	103° 18' 22.782 W
15,400.0	90.00	179.43	11,555.0	-3,791.4	2,019.4	32° 4' 8.952 N	103° 18' 22.781 W
15,500.0	90.00	179.43	11,555.0	-3,891.4	2,020.4	32° 4' 7.963 N	103° 18' 22.781 W
15,600.0	90.00	179.43	11,555.0	-3,991.4	2,021.4	32° 4' 6.973 N	103° 18' 22.780 W
15,700.0	90.00	179.43	11,555.0	-4,091.4	2,022.4	32° 4' 5.984 N	103° 18' 22.779 W
15,800.0	90.00	179.43	11,555.0	-4,191.4	2,023.4	32° 4' 4.994 N	103° 18' 22.779 W
15,900.0	90.00	179.43	11,555.0	-4,291.4	2,024.4	32° 4' 4.005 N	103° 18' 22.778 W
16,000.0	90.00	179.43	11,555.0	-4,391.4	2,025.4	32° 4' 3.015 N	103° 18' 22.778 W
16,100.0	90.00	179.43	11,555.0	-4,491.3	2,026.4	32° 4' 2.026 N	103° 18' 22.777 W
16,200.0	90.00	179.43	11,555.0	-4,591.3	2,027.4	32° 4' 1.036 N	103° 18' 22.776 W
16,300.0	90.00	179.43	11,555.0	-4,691.3	2,028.4	32° 4' 0.047 N	103° 18' 22.776 W
16,400.0	90.00	179.43	11,555.0	-4,791.3	2,029.4	32° 3' 59.057 N	103° 18' 22.775 W
16,500.0	90.00	179.43	11,555.0	-4,891.3	2,030.4	32° 3' 58.068 N	103° 18' 22.775 W
16,600.0	90.00	179.43	11,555.0	-4,991.3	2,031.4	32° 3' 57.078 N	103° 18' 22.774 W
16,700.0	90.00	179.43	11,555.0	-5,091.3	2,032.4	32° 3' 56.089 N	103° 18' 22.774 W
16,800.0	90.00	179.43	11,555.0	-5,191.3	2,033.4	32° 3' 55.099 N	103° 18' 22.773 W
16,888.7	90.00	179.43	11,555.0	-5,280.0	2,034.3	32° 3' 54.221 N	103° 18' 22.773 W
GB093 into NMNN							
16,900.0	90.00	179.43	11,555.0	-5,291.3	2,034.4	32° 3' 54.110 N	103° 18' 22.772 W
17,000.0	90.00	179.43	11,555.0	-5,391.3	2,035.4	32° 3' 53.120 N	103° 18' 22.772 W
17,100.0	90.00	179.43	11,555.0	-5,491.3	2,036.4	32° 3' 52.131 N	103° 18' 22.771 W
17,200.0	90.00	179.43	11,555.0	-5,591.3	2,037.4	32° 3' 51.141 N	103° 18' 22.771 W
17,300.0	90.00	179.43	11,555.0	-5,691.3	2,038.4	32° 3' 50.152 N	103° 18' 22.770 W
17,400.0	90.00	179.43	11,555.0	-5,791.3	2,039.4	32° 3' 49.162 N	103° 18' 22.770 W
17,500.0	90.00	179.43	11,555.0	-5,891.3	2,040.4	32° 3' 48.173 N	103° 18' 22.769 W
17,600.0	90.00	179.43	11,555.0	-5,991.3	2,041.4	32° 3' 47.183 N	103° 18' 22.768 W

4/3/2020 2:10:44PM

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Lease Penetration Section Line Footages

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Golden Bell 093H
Project:	NAN/GB	TVD Reference:	KB @ 3045.0usft
Site:	NAN/GB #3.5N	MD Reference:	KB @ 3045.0usft
Well:	Golden Bell 093H	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	179.43	11,555.0	-6,091.3	2,042.4	32° 3' 46.194 N	103° 18' 22.768 W
17,800.0	90.00	179.43	11,555.0	-6,191.3	2,043.4	32° 3' 45.204 N	103° 18' 22.767 W
17,900.0	90.00	179.43	11,555.0	-6,291.3	2,044.4	32° 3' 44.214 N	103° 18' 22.767 W
18,000.0	90.00	179.43	11,555.0	-6,391.3	2,045.4	32° 3' 43.225 N	103° 18' 22.766 W
18,100.0	90.00	179.43	11,555.0	-6,491.2	2,046.4	32° 3' 42.235 N	103° 18' 22.766 W
18,200.0	90.00	179.43	11,555.0	-6,591.2	2,047.4	32° 3' 41.246 N	103° 18' 22.765 W
18,300.0	90.00	179.43	11,555.0	-6,691.2	2,048.4	32° 3' 40.256 N	103° 18' 22.764 W
18,400.0	90.00	179.43	11,555.0	-6,791.2	2,049.4	32° 3' 39.267 N	103° 18' 22.764 W
18,500.0	90.00	179.43	11,555.0	-6,891.2	2,050.4	32° 3' 38.277 N	103° 18' 22.763 W
18,600.0	90.00	179.43	11,555.0	-6,991.2	2,051.4	32° 3' 37.288 N	103° 18' 22.763 W
18,700.0	90.00	179.43	11,555.0	-7,091.2	2,052.4	32° 3' 36.298 N	103° 18' 22.762 W
18,800.0	90.00	179.43	11,555.0	-7,191.2	2,053.4	32° 3' 35.309 N	103° 18' 22.762 W
18,900.0	90.00	179.43	11,555.0	-7,291.2	2,054.4	32° 3' 34.319 N	103° 18' 22.761 W
19,000.0	90.00	179.43	11,555.0	-7,391.2	2,055.4	32° 3' 33.330 N	103° 18' 22.760 W
19,100.0	90.00	179.43	11,555.0	-7,491.2	2,056.4	32° 3' 32.340 N	103° 18' 22.760 W
19,200.0	90.00	179.43	11,555.0	-7,591.2	2,057.4	32° 3' 31.351 N	103° 18' 22.759 W
19,300.0	90.00	179.43	11,555.0	-7,691.2	2,058.4	32° 3' 30.361 N	103° 18' 22.759 W
19,400.0	90.00	179.43	11,555.0	-7,791.2	2,059.4	32° 3' 29.372 N	103° 18' 22.758 W
19,500.0	90.00	179.43	11,555.0	-7,891.2	2,060.4	32° 3' 28.382 N	103° 18' 22.757 W
19,600.0	90.00	179.43	11,555.0	-7,991.2	2,061.4	32° 3' 27.393 N	103° 18' 22.757 W
19,700.0	90.00	179.43	11,555.0	-8,091.2	2,062.4	32° 3' 26.403 N	103° 18' 22.756 W
19,800.0	90.00	179.43	11,555.0	-8,191.2	2,063.4	32° 3' 25.414 N	103° 18' 22.756 W
19,900.0	90.00	179.43	11,555.0	-8,291.2	2,064.4	32° 3' 24.424 N	103° 18' 22.755 W
20,000.0	90.00	179.43	11,555.0	-8,391.2	2,065.4	32° 3' 23.435 N	103° 18' 22.755 W
20,100.0	90.00	179.43	11,555.0	-8,491.1	2,066.4	32° 3' 22.445 N	103° 18' 22.754 W
20,200.0	90.00	179.43	11,555.0	-8,591.1	2,067.4	32° 3' 21.456 N	103° 18' 22.753 W
20,300.0	90.00	179.43	11,555.0	-8,691.1	2,068.4	32° 3' 20.466 N	103° 18' 22.753 W
20,400.0	90.00	179.43	11,555.0	-8,791.1	2,069.4	32° 3' 19.477 N	103° 18' 22.752 W
20,500.0	90.00	179.43	11,555.0	-8,891.1	2,070.4	32° 3' 18.487 N	103° 18' 22.752 W
20,600.0	90.00	179.43	11,555.0	-8,991.1	2,071.4	32° 3' 17.498 N	103° 18' 22.751 W
20,700.0	90.00	179.43	11,555.0	-9,091.1	2,072.4	32° 3' 16.508 N	103° 18' 22.751 W
20,800.0	90.00	179.43	11,555.0	-9,191.1	2,073.4	32° 3' 15.518 N	103° 18' 22.750 W
20,900.0	90.00	179.43	11,555.0	-9,291.1	2,074.4	32° 3' 14.529 N	103° 18' 22.749 W
21,000.0	90.00	179.43	11,555.0	-9,391.1	2,075.4	32° 3' 13.539 N	103° 18' 22.749 W
21,100.0	90.00	179.43	11,555.0	-9,491.1	2,076.4	32° 3' 12.550 N	103° 18' 22.748 W
21,200.0	90.00	179.43	11,555.0	-9,591.1	2,077.4	32° 3' 11.560 N	103° 18' 22.748 W
21,300.0	90.00	179.43	11,555.0	-9,691.1	2,078.5	32° 3' 10.571 N	103° 18' 22.747 W
21,400.0	90.00	179.43	11,555.0	-9,791.1	2,079.5	32° 3' 9.581 N	103° 18' 22.746 W
21,500.0	90.00	179.43	11,555.0	-9,891.1	2,080.5	32° 3' 8.592 N	103° 18' 22.746 W
21,600.0	90.00	179.43	11,555.0	-9,991.1	2,081.5	32° 3' 7.602 N	103° 18' 22.745 W
21,700.0	90.00	179.43	11,555.0	-10,091.1	2,082.5	32° 3' 6.613 N	103° 18' 22.745 W
21,800.0	90.00	179.43	11,555.0	-10,191.1	2,083.5	32° 3' 5.623 N	103° 18' 22.744 W
21,900.0	90.00	179.43	11,555.0	-10,291.1	2,084.5	32° 3' 4.634 N	103° 18' 22.744 W
22,000.0	90.00	179.43	11,555.0	-10,391.1	2,085.5	32° 3' 3.644 N	103° 18' 22.743 W

4/3/2020 2:10:44PM

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Ameredev Operating, LLC

Lease Penetration Section Line Footages

Company: Project: Site: Well: Wellbore: Design:	Ameredev Operating, LLC. NAN/GB NAN/GB #3.5N Golden Bell 093H Wellbore #1 Design #1		NAN/GB TVD Reference: NAN/GB #3.5N MD Reference: Golden Bell 093H North Reference: Wellbore #1 Survey Calculation Method:				ence: nce: rence:	Well Golden Bell 093H KB @ 3045.0usft KB @ 3045.0usft Grid Minimum Curvature EDM5000		
Planned Survey										
MD (usft)		Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude		
22,07	76.4	90.00	179.43	11,555.0	-10,467.4	2,086.2	32° 3' 2.888 N	103° 18' 22.743 W		
GB093 LT	ſP									
22,10	0.0	90.00	179.43	11,555.0	-10,491.0	2,086.5	32° 3' 2.655 N	103° 18' 22.742 W		
22,12	26.4	90.00	179.43	11,555.0	-10,517.5	2,086.7	32° 3' 2.393 N	103° 18' 22.742 W		
GB093 B	HL									
Plan Annotations	5									
	Measured	Vertical	Local Co							
	Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment					
	11,005.0 11,594.8	11,000.0 11,487.7	. ,	105.0 -40.5	GB093 KOP GB093 into NMNN	M137471				

-12.7

GB093 into NMNM137472

Date:

Checked By: Approved By:

-5,510.8

11,555.0

Page 34 of 81

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Ameredev Operating, LLC.
	NMNM137471
LOCATION:	Section 31, T. 25 S., R. 36 E.
COUNTY:	Lea

Wells: Golden Bell Fed Com 26 36 06 103H

Surface Hole Location: 230' FSL & 1947' FWL, Section 31, T. 25 S., R. 36 E. Bottom Hole Location: 50' FSL & 1672' FWL, Section 7, T. 26 S., R. 36 E.

Golden Bell Fed Com 26 36 06 113H

Surface Hole Location: 230' FSL & 1967' FWL, Section 31, T. 25 S., R. 36 E. Bottom Hole Location: 50' FSL & 1672' FWL, Section 7, T. 26 S., R. 36 E.

Golden Bell Fed Com 26 36 06 104H

Surface Hole Location: 230' FSL & 1987' FWL, Section 31, T. 25 S., R. 36 E. Bottom Hole Location: 50' FSL & 2260' FWL, Section 7, T. 26 S., R. 36 E.

Golden Bell Fed Com 26 36 06 124H

Surface Hole Location: 230' FSL & 2007' FWL, Section 31, T. 25 S., R. 36 E. Bottom Hole Location: TBD

Golden Bell Fed Com 26 36 06 083H

Surface Hole Location: 230' FSL & 2027' FWL, Section 31, T. 25 S., R. 36 E. Bottom Hole Location: 50' FSL & 1980' FWL, Section 7, T. 26 S., R. 36 E.

Golden Bell Fed Com 26 36 06 093H

Surface Hole Location: 230' FSL & 2047' FWL, Section 31, T. 25 S., R. 36 E. Bottom Hole Location: 50' FSL & 1980' FWL, Section 7, T. 26 S., R. 36 E.

APD, Well Pad, and Buried Flowline

Environmental Assessment DOI-BLM-NM-P020-2020-0981-EA

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

 ☐ General Provisions ☐ Permit Expiration ☐ Archaeology, Paleontology, and Historical Sites ☐ Noxious Weeds
\boxtimes Special Requirements
Lesser Prairie-Chicken Timing Stipulations Ground-level Abandoned Well Marker Range Watershed Construction Notification Topsoil Closed Loop System

Page 1 of 17

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Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
Production (Post Drilling)
Well Structures & Facilities
Pipelines
Interim Reclamation
Final Abandonment & Reclamation

Approval Date: 05/27/2021

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See information below discussing NAGPRA.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

Page 3 of 17

Approval Date: 05/27/2021

Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Lesser Prairie Chicken:

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to avoid raptor perching:

Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Range:

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

Watershed:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

BURIED LINE(S):

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

VRM IV:

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim

Page 5 of 17

reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Page 6 of 17

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

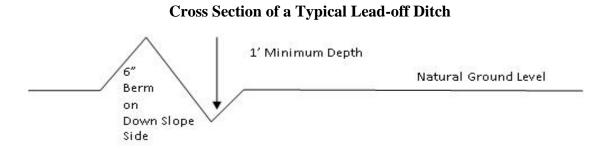
Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: $\underline{400'} + 100' = 200'$ lead-off ditch interval $\underline{4\%}$

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Page 7 of 17

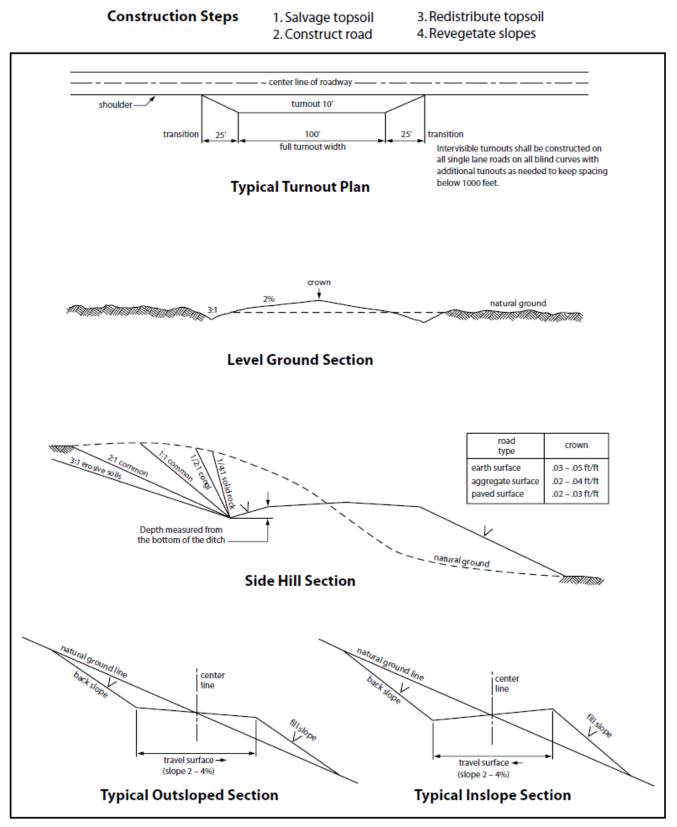
Approval Date: 05/27/2021

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Page 8 of 17





Page 9 of 17

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VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq.</u> (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, <u>et seq</u>.) on the

Page 11 of 17

Approval Date: 05/27/2021

Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of <u>36</u> inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>20</u> feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately <u>6</u> inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

Page 12 of 17

Approval Date: 05/27/2021

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	() seed mixture 3
(X) seed mixture 2	() seed mixture 4
() seed mixture 2/LPC	() Aplomado Falcon Mixture

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

Page 13 of 17

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 17 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

17. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

18. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer.

19. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

20. <u>Escape Ramps</u> - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.

Page 14 of 17

- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.
- 21. Special Stipulations:

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

Page 15 of 17

Approval Date: 05/27/2021

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species

	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

083PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Ameredev Operating LLC
WELL NAME & NO.:	Golden Bell Fed Com 26 36 06 093H
LOCATION:	Sec 31-25S-36E-NMP
COUNTY:	County, New Mexico

COA

H2S	C Yes	🖸 No	
Potash	None	C Secretary	© R-111-P
Cave/Karst Potential	• Low	C Medium	C High
Cave/Karst Potential	Critical		
Variance	C None	• Flex Hose	C Other
Wellhead	Conventional	Multibowl	C 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 <u>8</u> <u>hours</u> 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

Page 1 of 7

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).'
- 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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

Page 4 of 7

- 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.

Approval Date: 05/27/2021



H₂S Drilling Operation Plan

- 1. <u>All Company and Contract personnel admitted on location must be trained by a qualified H₂S</u> <u>safety instructor to the following:</u>
 - a. Characteristics of H₂S
 - **b.** Physical effects and hazards
 - c. Principal and operation of H_2s 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. <u>Protective Equipment for Essential Personnel:</u>

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/Escape 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. <u>Communication:</u>

- **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. <u>Drill Stem Testing:</u> 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:
 - $\circ \quad \text{Detection of } H_2S \text{ and} \\$
 - 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.

Common Name	Chemical	Specific	Threshold	Hazardous	Lethal
	Formula	Gravity	Limit	Limit	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

Characteristics of H₂S and SO₂

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
Carlsbad	
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
Santa Fe	
New Mexico Emergency Response Commission (Santa Fe)	505-476-9600
New Mexico Emergency Response Commission (Santa Fe) 24 H	rs 505-827-9126
New Mexico State Emergency Operations Center	505-476-9635
National	
National Emergency Response Center (Washington, D.C.)	800-424-8802
Medical	
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, NI	M 505-842-4433
.'SB Air Med Service - 2505 Clark Carr Loop S.E.; Albuquerque, I	NM 505-842-4949

Received by OCD: 6/24/2021 1:58:39 PM

WAFMSS

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

APD ID: 10400056712

Operator Name: AMEREDEV OPERATING LLC Well Name: GOLDEN BELL FED COM 26 36 06 Well Type: OIL WELL

Submission Date: 04/29/2020

Well Number: 093H Well Work Type: Drill Highlighted data reflects the most recent changes

SUPO Data Report

Page 63 of 81

05/27/2021

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

GOLDEN_BELL_FED_COM_26_36_06_093H___WELL_PAD_ACCESS_20200429151209.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

GOLDEN_BELL_FED_COM_26_36_06_093H___1_MI_RADIUS_WELLS_20200429151241.pdf

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 093H

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: A 4 poly flowline (700 psi maximum) will be buried and run approximately 1,574 feet from the Golden Bell Fed Com 26 36 06 093H to the existing Nandina/Golden Bell CTB northeast of the well pad. Should any type of production facilities be located on the well pad itself, they will be strategically placed to allow for maximum interim reclamation, re-contouring, and revegetation of the well location. **Production Facilities map:**

NANDINA_GOLDEN_BELL_CTB_PLAT_20200429151317.pdf EP_NAN_GB_FED_COM_FL_SEC_31_S___4N_Pad_20200429151318.pdf

Section 5 - Location and Types of Water Supply

Water Source Tabl	е		
Water source type: GW WELL			
Water source use type:	SURFACE C	ASING	
	STIMULATIO	N	
	DUST CONT	ROL	
	INTERMEDIA CASING	TE/PRODUCTION	
Source latitude:			Source longitude:
Source datum:			
Water source permit type:	PRIVATE CO	NTRACT	
Water source transport method:	PIPEL	NE	
	TRUCI	KING	
Source land ownership: PRIVATE			
Source transportation land owners	ship: FEDERA	L	
Water source volume (barrels): 200	000		Source volume (acre-feet): 2.577862
Source volume (gal): 840000			

Received by OCD: 6/24/2021 1:58:39 PM

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 093H

Water source and transportation map:

GOLDEN_BELL_FED_COM_26_36_06_093H___WATER_WELLS_LIST_20200429151357.pdf GOLDEN_BELL_FED_COM_26_36_06_093H___WATER_MAP_20200429151359.pdf

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

New water well? N

New Water Well Info

Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of aquifer:	
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside diameter	' (in.):
New water well casing?	Used casing source:	
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth (ft.):	
Well Production type:	Completion Method:	
Water well additional information:		
State appropriation permit:		
Additional information attachment:		

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: NM One Call (811) will be notified before construction start. Top 6" of soil and brush will be stockpiled north of the pad. Closed loop drilling system will be used. Caliche will be hauled from an existing caliche pit on private (Dinwiddie Cattle Company) land in W2 08-25S-36E or an existing caliche pit on private (Dinwiddie Cattle Company) land in E2 17-25S-36E.

Construction Materials source location attachment:

GOLDEN_BELL_FED_COM_26_36_06_093H___CALICHE_MAP_20200429151435.pdf

Page 65 of 81

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 093H

Page 66 of 81

Section 7 - Methods for Handling Waste

Waste type: DRILLING

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

Amount of waste: 2000 barrels

Waste disposal frequency : Daily

Safe containment description: Steel tanks

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL FACILITY Disposal type description:

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO Are you storing cuttings on location? Y Description of cuttings location Steel tanks on pad

Cuttings area length (ft.)

Cuttings area depth (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 093H

Page 67 of 81

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

BO_NAN_GB_4N_PAD_SITE_S_20200429151930.pdf GOLDEN_BELL_FED_COM_26_36_06_093H___WELLSITE_20200429151940.pdf Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: NAN/GB

Multiple Well Pad Number: 4N

Recontouring attachment:

GOLDEN_BELL_FED_COM_26_36_06_093H___WELLSITE_20200429152117.pdf

Drainage/Erosion control construction: Crowned and ditched

Drainage/Erosion control reclamation: Harrowed on the contour

Well pad proposed disturbance (acres): 4.59	Well pad interim reclamation (acres): 0.46	Well pad long term disturbance (acres): 4.13
Road proposed disturbance (acres):	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0
Powerline proposed disturbance	Powerline interim reclamation (acres):	Powerline long term disturbance
(acres): 0	0	(acres): 0
Pipeline proposed disturbance	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance
(acres): 1.08		(acres): 1.08
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 5.67	Total interim reclamation: 0.46	Total long term disturbance: 5.21

Disturbance Comments:

Reconstruction method: If circumstances allow, interim reclamation and/or final reclamation actions will be completed no later than 6 months from when the final well on location has been completed or plugged. Ameredev will gain written permission from the BLM if more time is needed. Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking the pad 11% (.46 acre) by removing caliche and reclaiming a 40' wide swath on the north side of the pad. This will leave 4.13 acres for producing six wells, with tractor-trailer turn around. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the surface owner's requirements. All topsoil for the battery will be reseeded in place for the life of the battery.

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 093H

Topsoil redistribution: Enough stockpiled topsoil will be retained to cover the remainder of the pad when the well is plugged. New road will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled. **Soil treatment:** None

Existing Vegetation at the well pad: Sparse low brush and intermittent grasses

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Sparse low brush and intermittent grasses

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Sparse low brush and intermittent grasses

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Sparse low brush and intermittent grasses Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? $\ensuremath{\mathbb{N}}$

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

 Total pounds/Acre:

 Seed Type
 Pounds/Acre

 Seed reclamation attachment:
 Founds/Acre

Operator Contact/Responsible Official Contact Info

First Name: Christie

Last Name: Hanna

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 093H

Phone: (737)300-4700

Email: channa@ameredev.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: To BLM standards

Weed treatment plan attachment:

Monitoring plan description: To BLM standards

Monitoring plan attachment:

Success standards: To BLM satisfaction

Pit closure description: No pit

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Wilitary Local Office: USFWS Local Office: USFWS Local Office: USFS Region: USFS Forest/Grassland:

USFS Ranger District:

Received by OCD: 6/24/2021 1:58:39 PM		Page 7
Operator Name: AMEREDEV OPERATING LLC		
Well Name: GOLDEN BELL FED COM 26 36 06	Well Number: 093H	
Disturbance type: PIPELINE		
Describe:		
Surface Owner: BUREAU OF LAND MANAGEMENT		
Other surface owner description:		
BIA Local Office:		
BOR Local Office:		
COE Local Office:		
DOD Local Office:		
NPS Local Office:		
State Local Office:		
Military Local Office:		
USFWS Local Office:		
Other Local Office:		
USFS Region:		
USFS Forest/Grassland:	USFS Ranger District:	

Section 12 - Other Information

Right of Way needed? YUse APD as ROW? YROW Type(s): 288100 ROW – O&G Pipeline,289001 ROW- O&G Well Pad

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? Y

Previous Onsite information: An on-site meeting for Ameredevs Golden Bell Fed Com 26 36 06 093H was held on 2/25/2020. Attendees included Ben Kartchner (BLM), and Shane McNeely (Ameredev). Ameredev made a donation with the MOU fund in lieu of an archaeology report. (NOS #: 10400055352)

Other SUPO Attachment

Well Name: GOLDEN BELL FED COM 26 36 06

Well Number: 093H

GOLDEN_BELL_FED_COM_26_36_06_093H___SURFACE_USE_PLAN_REV_20200429153658.pdf

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Contingency Wellbore Schematic

Well:	Golden Bell Fed Com 26-36-06 093H	Co. Well ID:	XXXXXX
SHL:	Sec. 31 25S-36E 230' FSL & 2047' FWL	AFE No.:	XXXX-XXX
BHL:	Sec. 07 26S-36E 50' FSL & 1980' FWL	API No.:	XXXXXXXXXXX
	Lea, NM	GL:	3,018'
Wellhead:	A - 13-5/8" 10M x 13-5/8" SOW	Field:	Delaware
	B - 13-5/8" 10M x 13-5/8" 10M	Objective:	Wolfcamp A
	C - 13-5/8" 10M x 13-5/8" 10M	TVD:	11,555'
	Tubing Spool - 7-1/16" 15M x 13-3/8" 10M	MD:	22,126'
Xmas Tree:	2-9/16" 10M	Rig:	TBD KB 27'
Tubing:	2-7/8" L-80 6.5# 8rd EUE	E-Mail:	Wellsite2@ameredev.com

Hole Size	Formation Tops	Logs	Cement	Mud Weight
17.5"	Rustler 1,037' 13.375" 68# J-55 BTC 1,162'		964 Sacks TOC 0' 100% Excess	8.4-8.6 ppg WBM
	Salado 1,342' DV Tool with ACP 3,235'		819 Sacks [TOC 0' 50% Excess	
12.25"	Tansill 3,235'			
12.25	Capitan Reef 3,649'			_
	Lamar 5,071'			oislr
	Bell Canyon 5,118'			EM
	No Casing 5,196'			trine
9.875"	No Casing 3,130 Brushy Canyon 7,230' Bone Spring Lime 8,387' First Bone Spring 9,725' Second Bone Spring 10,300' Third Bone Spring Upper 10,874' 7.625" 29.7# L-80HC BTC 10,999'		2,431 Sacks TOC 0' 50% Excess	8.5-9.4 Diesel Brine Emulsion
6.75" 12° Build @ 11,005' MD	Third Bone Spring 11,452'	1	<i>(</i>) <i>(</i>)	4 ppg OBM
thru 11,858' MD	5.5" 23# P110MS2 Anaconda GT 22,126' Target Wolfcamp A 11555 TVD // 22126 MD		1,722 Sacks TOC 0' 25% Excess	10.5-14 ppg





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			
0pen 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



Pressure Control Plan

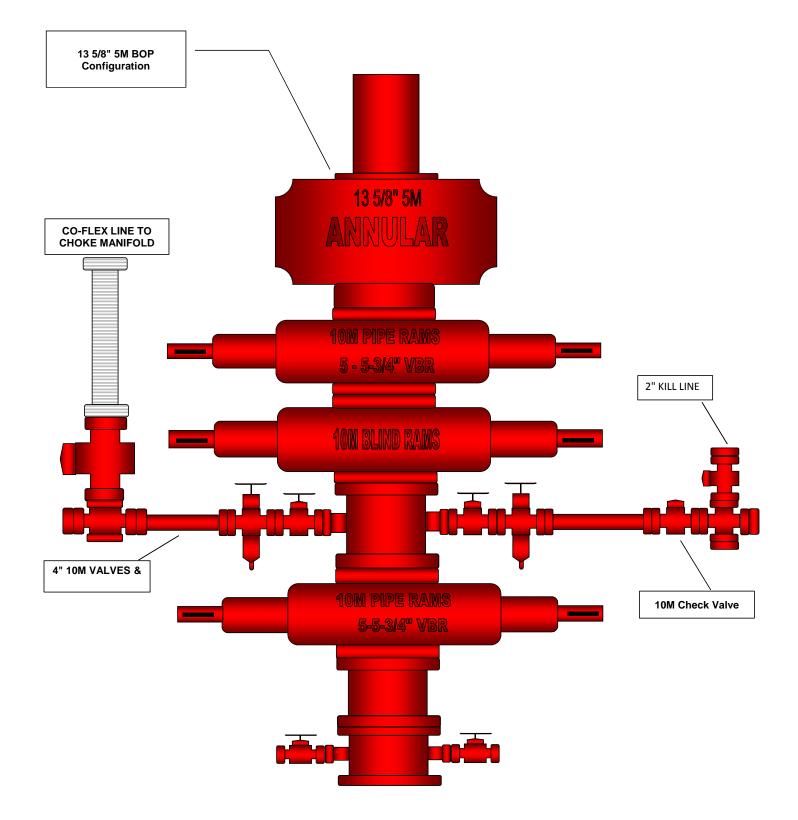
Pressure Control Equipment

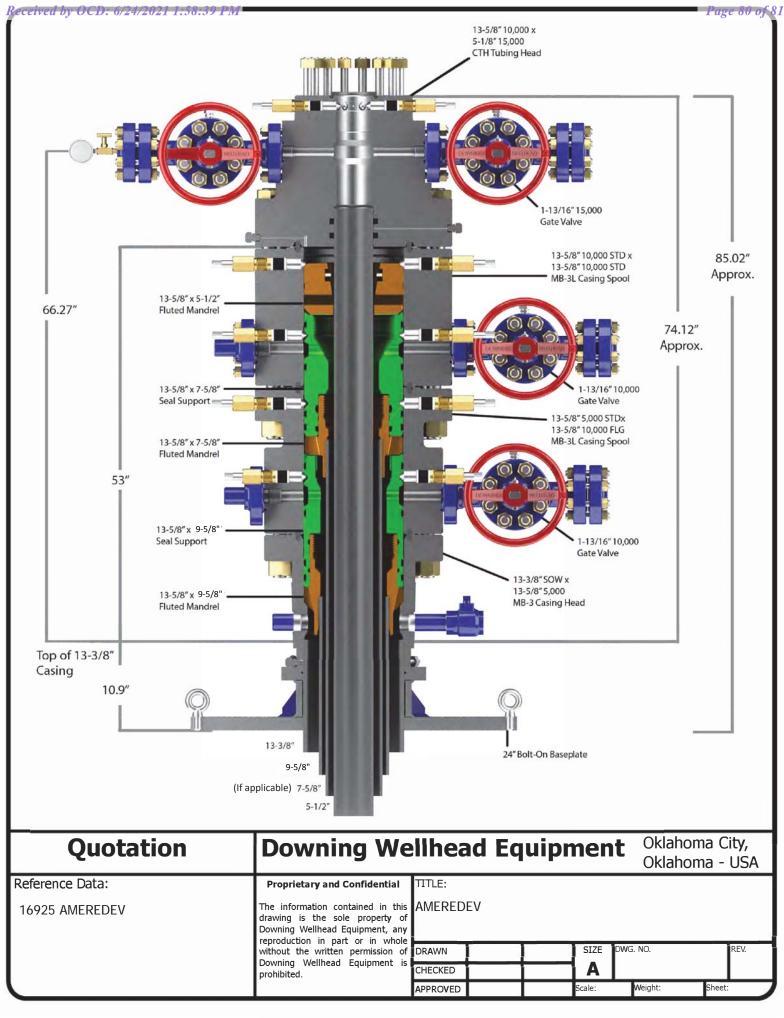
- Following setting of 13-3/8" Surface Casing Ameredev will install 13-5/8 MB4 Multi Bowl Casing Head by welding on a 13-5/8 SOW x 13-5/8" 5M in combination with 13-5/8 5M x 13-5/8 10M B-Sec to Land Intm #1 and a 13-5/8 10M x 13-5/8 10M shouldered to land C-Sec to Land Intm #2 (Installation procedure 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.





District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	33599
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/25/2021
	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	6/25/2021

Page 81 of 81