Form 3160-3 (June 2015)					FORM A OMB No Expires: Ja	o. 1004-0	137	
UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA	NTERI				5. Lease Serial No. NMNM138912			
APPLICATION FOR PERMIT TO D	RILL (or f	REENTER		6. If Indian, Allotee or Tribe Name			
Ia. Type of work: Image: Constraint of the second seco	EENTER	٤			7. If Unit or CA Agr	eement,	Name and No.	
	ther	_	_		8. Lease Name and	Well No.		
1c. Type of Completion: Hydraulic Fracturing ✔ Sin	ngle Zon	ne	Multiple Zone		DOGWOOD 25 36	6 20 FEE	D COM	
					122H			
2. Name of Operator AMEREDEV OPERATING LLC					9. API Well No. 30	0-025-	-53102	
3a. Address 5707 SOUTHWEST PARKWAY, BUILDING 1, SUITE 275			o. (include area code 700	e)	10. Field and Pool, o WC-025 G-09 S26	1	2	
4. Location of Well (Report location clearly and in accordance w			1 /		11. Sec., T. R. M. or SEC 20/T25S/R36		Survey or Area	
At surface SWSW / 200 FSL / 400 FWL / LAT 32.1091				20472	SEC 20/1255/R50			
At proposed prod. zone NWNW / 50 FNL / 850 FWL / LA 14. Distance in miles and direction from nearest town or post offi		07042	6 / LONG - 103.29	29473	12. County or Parish	1	13. State	
6 miles				-	LEA	1	NM	
15. Distance from proposed* 200 feet location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No	of act	res in lease	17. Spacin 640.0	ng Unit dedicated to th	his well		
 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 646 feet 		1	l Depth 22642 feet		BIA Bond No. in file IB001478			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3061 feet	22. Apj 05/31/2	-	nate date work will	start*	23. Estimated durati 90 days	on		
	24. A	Attacl	nments		1			
The following, completed in accordance with the requirements of (as applicable)	Onshore	e Oil a	and Gas Order No. 1	, and the H	lydraulic Fracturing r	ule per 4	3 CFR 3162.3-3	
 Well plat certified by a registered surveyor. A Drilling Plan. 				1	s unless covered by ar	n existing	bond on file (see	
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office)		, the	 Operator certific Such other site sp BLM. 		mation and/or plans as	may be r	equested by the	
25. Signature (Electronic Submission)			(Printed/Typed) CK KELLEY / Ph:	(737) 300)-4700	Date 10/12/2	2022	
Title Engineer								
Approved by (Signature)	N	Vame	(Printed/Typed)			Date		
(Electronic Submission)			LAYTON / Ph: (57	75) 234-59	959	05/17/2	2024	
Title Assistant Field Manager Lands & Minerals		Office Carlsb	ad Field Office					
Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.	t holds le	egal o	r equitable title to th	ose rights	in the subject lease wi	hich wou	ld entitle the	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of						iny depai	tment or agency	



(Continued on page 2)

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INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: SWSW / 200 FSL / 400 FWL / TWSP: 25S / RANGE: 36E / SECTION: 20 / LAT: 32.1091548 / LONG: -103.2943897 (TVD: 0 feet, MD: 0 feet) PPP: SWSW / 100 FSL / 850 FWL / TWSP: 25S / RANGE: 36E / SECTION: 20 / LAT: 32.1088804 / LONG: -103.2929364 (TVD: 11914 feet, MD: 12215 feet) PPP: NWNW / 1308 FNL / 850 FWL / TWSP: 25S / RANGE: 36E / SECTION: 20 / LAT: 32.1195104 / LONG: -103.2929405 (TVD: 11914 feet, MD: 16082 feet) BHL: NWNW / 50 FNL / 850 FWL / TWSP: 25S / RANGE: 36E / SECTION: 17 / LAT: 32.1375426 / LONG: -103.2929473 (TVD: 11914 feet, MD: 22642 feet)

BLM Point of Contact

Name: MARIAH HUGHES Title: Land Law Examiner Phone: (575) 234-5972 Email: mhughes@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

FORM C-102 Revised August 1, 2011

Submit one copy to appropriate District Office

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District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

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

811 S. First St., Artesia, NM 88210

District I

District II

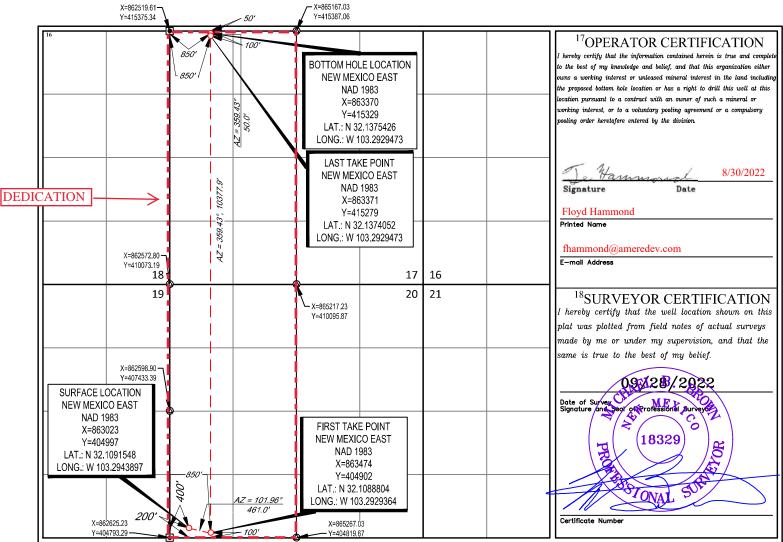
District III

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT ¹API Number ²Pool Code ³Pool Name 30-025-53102 JAL;WOLFCAMP, WEST 33813 Property Code ⁵Property Name Well Number 331686 DOGWOOD 25 36 20 FED COM 122H ⁸Operator Name ⁷OGRID No. ⁹Elevation 3061 372224 AMEREDEV OPERATING, LLC. ¹⁰Surface Location UL or lot no. Township Lot Idn Feet from the North/South line Feet from the East/West line County Section Range 20 25-S36-E 200' SOUTH 400' WEST LEA Μ ¹¹Bottom Hole Location If Different From Surface UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 50' 850' D 17 25-S 36-ENORTH WEST LEA ²Dedicated Acres ³Joint or Infill ⁴Consolidation Code ⁵Order No. 640 C

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



Released to Imaging: 6/26/2024 2:20:09 PM EDEV_OPERATING_LLC\DOGWOOD_FED_COM/FINAL_PRODUCTSILO_DOGWOOD_FED_COM_25_36_20_122H_REV1.DWG 10/3/2022 1:14:28 PM juliana.frankl

		Ener		te of New Me and Natural Re		tment	Submit Electronically Via E-permitting						
	Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505												
Т	'his Natural Gas Manage			AS MANA			new or recompleted well.						
				<u>1 1 – Plan E</u> Effective May 25									
I. C	Operator: Ameredev II, LLC OGRID: 372224 Date: 09/22/2023												
If C III.	Type: ⊠ Original □ A Other, please describe: _ Well(s): Provide the for recompleted from a sing	ollowing informa	ation for each	new or recomple	eted well or set o		ther.						
	Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D						
	Dogwood 25 36 20 Fed Com 108H	30025-		200' FSL & 846' FEL	564	1,114	555						
	Dogwood 25 36 20 Fed Com 111H	30025-		200' FSL & 360' FWL	564	1,114	555						
	Dogwood 25 36 20 Fed Com 113H	30025-		200' FSL & 1720' FWL	564	1,114	555						
	Dogwood 25 36 20 Fed Com 115H	30025-		200' FSL & 1780' FEL	564	1,114	555						
	Dogwood 25 36 20 Fed Com 117H	30025-		200' FSL & 906' FEL	564	1,114	555						
	Dogwood 25 36 20 Fed Com 122H	30025-		200' FSL & 400' FWL	564	1,114	555						

IV. Central Delivery Point Name: [See 19.15.27.9(D)(1) NMAC]

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V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Dogwood 25 36 20 Fed Com 108H	30025-	12/01/2023	12/20/2024	01/20/2024	02/10/2024	02/13/2024
Dogwood 25 36 20 Fed Com 111H	30025-	12/01/2023	12/20/2024	01/20/2024	02/10/2024	02/13/2024
Dogwood 25 36 20 Fed Com 113H	30025-	12/01/2023	12/20/2024	01/20/2024	02/10/2024	02/13/2024
Dogwood 25 36 20 Fed Com 115H	30025-	12/01/2023	12/20/2024	01/20/2024	02/10/2024	02/13/2024
Dogwood 25 36 20 Fed Com 117H	30025-	12/01/2023	12/20/2024	01/20/2024	02/10/2024	02/13/2024
Dogwood 25 36 20 Fed Com 122H	30025-	12/01/2023	12/20/2024	01/20/2024	02/10/2024	02/13/2024

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

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

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

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. \Box 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 \Box will \Box 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 \Box does \Box 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: \Box 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:

 \boxtimes 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

 \Box 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. \Box 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. \Box 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: Casca Gu
Printed Name: Cesca Yu
Title: Engineer
E-mail Address: cyu@ameredev.com
Date: 09/22/2023
Phone: 512-775-1417
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Approved By: Title:
Title:
Title: Approval Date:
Title: Approval Date:
Title: Approval Date:

<u>Natural Gas Management</u> <u>Plan</u>

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. <u>Operational Practices: Attach a complete description of the actions Operator will</u> 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 flowrates

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

• 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



Section 1 - Geologic Formations

Formation ID	Formation Nome	Elevation	True Vertical		Little de sie e	Mineral Resources	Producing
13451729	Formation Name RUSTLER ANHYDRITE	3061	1084	Depth 1084	Lithologies ANHYDRITE	NONE	Formatio N
13451730	SALADO	1407	1654	1654	SALT	NONE	N
13451731	TANSILL	-294	3355	3355	LIMESTONE	NONE	N
13451732	CAPITAN REEF	-794	3855	3855	LIMESTONE	USEABLE WATER	N
13451732	CAPITAN REEF	-794	3000	3035	LIMESTONE	USEABLE WATER	IN
13451733	LAMAR	-2084	5145	5145	LIMESTONE	NONE	N
13451734	BELL CANYON	-2172	5233	5233	SANDSTONE	NATURAL GAS, OIL	N
13451735	BRUSHY CANYON	-4074	7135	7135	SANDSTONE	NATURAL GAS, OIL	N
13451736	BONE SPRING LIME	-5094	8155	8155	LIMESTONE	NONE	N
13451730	BOINE SPRING LIME	-5094	6155	0100	LIMESTONE	NONE	IN
13451737	BONE SPRING 1ST	-6633	9694	9694	SANDSTONE	NATURAL GAS, OIL	N
13451738	BONE SPRING 2ND	-7161	10222	10222	SANDSTONE	NATURAL GAS, OIL	N
13451739	BONE SPRING 3RD	-7719	10780	10780	LIMESTONE	NATURAL GAS, OIL	N
13451740	BONE SPRING 3RD	-8285	11346	11346	SANDSTONE	NATURAL GAS, OIL	N
10401740		-0203	11340	11340	SANDOTONE		
13451741	WOLFCAMP	-8458	11519	11519	SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

Pressure Rating (PSI): 10M

Rating Depth: 15000

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

Variance request: Co-Flex Choke Line

Testing Procedure: See attachment

Choke Diagram Attachment:

10M_Choke_Manifold_REV_20221012094900.pdf

BOP Diagram Attachment:

5M_Annular_Preventer_Variance_and_Well_Control_Plan_20221012094915.pdf

Pressure_Control_Plan_Single_Well_MB4_3String_Big_Hole_BLM_20221012094915.pdf

5M_BOP_System_20221012094915.pdf

3_String_MB_Ameredev_Wellhead_Drawing_7.0625in_Spool_net_20221012094930.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	1209	0	1209	3061	1852	1209	J-55		OTHER - BTC	7.59	1	DRY	11.1 2	DRY	13.0 1
2	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	10905	0	10905	3061	-7844	10905	HCL -80		OTHER - BTC	1.26	1.22	DRY	1.97	DRY	2.9
3	PRODUCTI ON	6.75	5.5	NEW	API	N	0	22642	0	11914	3061	-8853	22642	P- 110	-	OTHER - USS Eagle SFH	1.72	1.86	DRY	1.46	DRY	1.62

Casing Attachments

Received by OCD: 6/3/2024 1:08:54 PM

Operator Name: AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

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Casing Attachments

Casing ID: 1	String	SURFACE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assumpt	ions and W	orksheet(s):
13.375_68_J55_SE	AH_202210	12095127.pdf
Dogwood_25_36_2	0_Fed_Com	_122H_WBS_and_CDA_20221012144738.pdf
Casing ID: 2	String	INTERMEDIATE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assumpt	ions and W	orksheet(s):
7.625_29.70_L80H0	C_BORUSAI	N_20221012124618.pdf
Dogwood_25_36_20	0_Fed_Com	_122H_WBS_and_CDA_20221012144905.pdf
Casing ID: 3	String	PRODUCTION
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assumpt	ions and W	orksheet(s):
Dogwood 25 36 20	0 Fed Com	122H WBS and CDA 20221012144823 pdf

gwood_25_36_20_Fed_Com_122H_WBS_and_CDA_20221012144823.pdf

5.5_23_RYS110_EAGLE_SFH_20221012144828.pdf

Operator Name: AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

Section	4 -	Cement
Section		Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	823	801.3	1.76	13.5	1410. 3	100	Class C	Bentonite, Accelerator, Kolseal, Defoamer, Celloflake
SURFACE	Tail		823	1209	200	1.34	14.8	268	100	Class C	N/A
INTERMEDIATE	Lead	3355	0	2824	644.2	3.5	9	2254. 8	50	Class C	Bentonite, Salt, Kolseal, Defoamer, Celloclake
INTERMEDIATE	Tail		2824	3355	200	1.33	14.8	266	25	Class C	N/A
INTERMEDIATE	Lead	3355	3355	9684	961.3	2.47	11.9	2374. 4	50	Class H	Bentonite, Retarder, Kolseal, Defoamer, Celloflake, Anti-Settling
INTERMEDIATE	Tail		9684	1090 5	200	1.31	14.2	262	25	Class H	Salt, Bentonite, Retarder, Dispersant, Fluid Loss
PRODUCTION	Lead		0	2264 2	1763	1.34	14.2	2362	25	Class H	Salt, Bentonite, Fluid Loss, Dispersant, Retarder, Defoamer

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

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	1209	WATER-BASED MUD	8.4	8.6							
1209	1090 5	OTHER : Diesel Brine Emulsion	7.5	9.4							
1090 5	1191 4	OIL-BASED MUD	10.5	12.5							

Section 6 - Test, Logging, Coring

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

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

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

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

Coring operation description for the well:

No coring will be done on this well.

Section 7 - Pressure

 Anticipated Bottom Hole Pressure: 6505
 Anticipated Surface Pressure: 3883

 Anticipated Bottom Hole Temperature(F): 165
 Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

 Describe:
 Contingency Plans geoharzards description:

 Contingency Plans geohazards
 Hydrogen Sulfide drilling operations plan required? YES

 Hydrogen sulfide drilling operations
 Estimate of the sulfide drilling operations

H2S_Plan_20221012101152.pdf

Operator Name: AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Dogwood_Fed_Com_25_36_20_122H_PWP_20221012145230.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Other Variance attachment:

5M_Annular_Preventer_Variance_and_Well_Control_Plan_20221012101237.pdf Generic_Wolfcamp_Contingency_PDF_REV2_20221012124928.pdf R616___CoC_for_hoses_12_18_17_20221012101226.pdf Requested_Exceptions___3_String_Revised_01312019_20221012101224.pdf

Wellbore Schematic

Well:	Dogwood 25 36 20 Fed Com 122H	Co. Well ID:	XXXXXX
SHL:	SEC. 20, T25S, R36E, 200' FSL, 400' FWL	AFE No.:	XXXX-XXX
BHL:	SEC. 17, T25S, R36E, 50' FNL, 850' FWL	API No.:	XXXXXXXXXXX
	Lea, NM	GL:	3061
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 B
	C - 13-5/8" 10M x 13-5/8" 10M	TVD:	11914
	Tubing Spool - 7-1/16" 15M x 13-3/8" 10M	MD:	22642
Xmas Tree:	2-9/16" 10M	Rig:	TBD KB 27'
Tubing:	2-7/8" L-80 6.5# 8rd EUE	E-Mail:	DrillingCR@ameredev.com

Hole Size	Formation Tops	Logs	Cement	Mud Weight
17.5"	Rustler 1,084' 13.375" 68# J-55 BTC 1,209'		1,001 Sacks TOC 0' 100% Excess	8.4-8.6 ppg WBM
	Salado 1,654' DV Tool with ACP 3,355'		844 Sacks 2 TOC 0' 50% Excess 2	
12.25"	Tansill 3,355'			
12.23	Capitan Reef 3,855'			_
	Lamar 5,145'			oislu
	Bell Canyon 5,233'			E
	No Casing 5,270'			srine
9.875"	Ite outling0,210Brushy Canyon7,135'Bone Spring Lime8,155'First Bone Spring9,694'Second Bone Spring10,222'Third Bone Spring Upper10,780'7.625" 29.7# L-80HC BTC10,905'		1,161 Sacks TOC 0' 50% Excess	7.5-9.4 Diesel Brine Emulsion
6.75" 12° Build	Third Bone Spring11,346'Wolfcamp11,519'			DBM DBM
@ 11435 thru 12215 Ta	5.5" 23# P-110 USS-Eagle SFH 22642 rget Wolfcamp B 11914 TVD // 22642 MD		1,763 Sacks TOC 0' 25% Excess	10.5-12.5 ppg

Casing Specifications						
Segment	Hole ID	Depth	OD	Weight	Grade	Coupling
Surface	17.5	1,209'	13.375	68	J-55	BTC
Intermediate	9.875	10,905'	7.625	29.7	HCL-80	BTC
Prod Segment A	6.75	11435	5.5	23	P-110	SFH
Prod Segment B	6.75	22642	5.5	23	P-110	SFH

Casing Design and Safety Factor Check

	Check Surface Casing					
OD Cplg	Body	Joint	Collapse	Burst		
inches	1000 lbs	1000 lbs	psi	psi		
14.375	1,069	915	4,100	3,450		
	S	afety Facto	ors			
1.56	13.01	11.13	7.59	0.65		
	Check I	ntermedia	te Casing			
OD Cplg	Body	Joint	Collapse	Burst		
inches	1000 lbs	1000 lbs	psi	psi		
7.625	940	558	6700	9460		
	Safety Factors					
1.13	2.90	1.97	1.26	1.22		
	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		
	Safety Factors					
0.49	1.62	1.46	1.72	1.86		
Check Prod Casing, Segment B						
OD Cplg	Body	Joint	Collapse	Burst		
inches	1000 lbs	1000 lbs	psi	psi		
5.777	728	655	12780	14360		
	Safety Factors					
0.49	2.82	2.54	0.87	1.86		

PERFORMANCE DATA

API BTC Technical Data Sheet

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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			

in

in

lbs

psi

Connection Parameters				
Connection OD	14.375			
Coupling Length	10.625			
Threads Per Inch	5.000			
Standoff Thread Turns	1.000			

Nom. Pipe Body Area	19.445	in²
Connection Parameters		
Connection OD	14.375	in
Coupling Length	10.625	in

4.513

3,500

•	•

Printed on: February-13-2015

NOTE:

Make-Up Loss

Yield Load In Tension

Min. Internal Yield Pressure

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Standard Drift

Alternate Drift



API 5CT Casing Performance Data Sheet

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

Grade	L80HC		
	Pipe Body Mechanical Properties		
Minimum Yield Strength	80,000 psi		
Maximum Yield Strength	95,000 psi		
Minimum Tensile Strength	95,000 psi		
Maximum Hardness	23.0 HRC		
	<u>Sizes</u>		
OD	7 5/8 in		
Nominal Wall Thickness	0.375 in		
Nominal Weight, T&C	29.70 lb/ft		
Nominal Weight, PE	29.06 lb/ft		
Nominal ID	6.875 in		

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

6.750 in

N/A

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

	<u>Color code</u>
Pipe ends	One red, one brown and one blue band
Couplings	Red with one brown band

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	%
ERFORMANCE	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
IAKE-UP DATA	Pipe	USS-EAGLE SFH™	
Make-Up Loss		6.65	in.
Minimum Make-Up Torque		16,600	ft-lbs
Minimum Make-op Torque			
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



American Resource Development LLC.

Ameredev Operating

Lea County, NM (N83-NME) Dogwood_AGI Dogwood Fed Com 25 36 20 122H

OWB

Plan: PRELIM#1

Standard Planning Report - Geographic

10 October, 2022



	American Resour	ce Development LLC.								
Database: Company: Project: Site: Well: Wellbore: Design:	AUS-COMPASS - EDM_15 - 32bit Ameredev Operating Lea County, NM (N83-NME) Dogwood_AGI Dogwood Fed Com 25 36 20 122H OWB PRELIM#1				Local Co-ordinate Reference:Well Dogwood Fed Com 25 36 20 122TVD Reference:KB=26' @ 3087.0usftMD Reference:KB=26' @ 3087.0usftNorth Reference:GridSurvey Calculation Method:Minimum Curvature					36 20 122H
Project	Lea Co	ounty, NM (N	83-NME)							
Map System: Geo Datum: Map Zone:	North Ar	e Plane 1983 nerican Datu xico Eastern	ım 1983		System Datum: Mean Sea Level					
Site	Dogwo	od_AGI								
Site Position: From: Position Uncert	Map ainty:	0.0	North Easti usft Slot I	•	863,0	003.49 usft 649.20 usft 3-3/16 "	Latitude: Longitude:			32.1091554 -103.2923681
Well	Dogwo	od Fed Com	25 36 20 122	2H						
Well Position Position Uncert	+N/-S +E/-W ainty	0	0.0 usft Ea	orthing: asting: /ellhead Ele	vation:	404,997.26 863,023.22	usft Lo	titude: ngitude: ound Level:		32.109154 -103.294389 3,061.0 us
Grid Convergen			55 °		luioni					0,001.0 40
Wellbore	OWB									
Magnetics	Мос	lel Name	Sampl	e Date	Declin (°)			Angle °)		trength IT)
		IGRF2020	1(0/10/2022		6.25		59.79	47,31	8.47185710
Design	PRELI	M#1								
Audit Notes: Version:			Phas	se:	PROTOTYPE	E Tie	e On Depth:		0.0	
Vertical Section	:	D	epth From (T (usft)	'VD)	+N/-S (usft)		/-W sft)	Dir	ection (°)	
			0.0		0.0	•	.0	3	59.43	
Plan Survey To	ol Program	Date	10/10/2022							
Depth From (usft)	-	То	y (Wellbore)		Tool Name)	Remarks			
1 0	.0 22,6	642.4 PRELI	M#1 (OWB)		MWD OWSG MW	′D - Standard				
Plan Sections										
						Dogleg	Build	Turn	TEO	
Measured	clination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	TFO (°)	Target
Measured Depth Ind (usft) 0.0	(°) 0.00	(°) 0.00	Depth (usft) 0.0	(usft) 0.0	(usft) 0.0	Rate (°/100usft) 0.00	(°/100usft) 0.00	(°/ 100usft) 0.00	(°) 0.00	Target
Measured Depth (usft) Ind 0.0 2,000.0	(°) 0.00 0.00	(°) 0.00 0.00	Depth (usft) 0.0 2,000.0	(usft) 0.0 0.0	(usft) 0.0 0.0	Rate (°/100usft) 0.00 0.00	(°/100usft) 0.00 0.00	(°/100usft) 0.00 0.00	(°) 0.00 0.00	Target
Measured Depth (usft) Ind 2,000.0 2,220.6	(°) 0.00 0.00 4.41	(°) 0.00 0.00 142.92	Depth (usft) 0.0 2,000.0 2,220.4	(usft) 0.0 0.0 -6.8	(usft) 0.0 0.0 5.1	Rate (°/100usft) 0.00 0.00 2.00	(°/100usft) 0.00 0.00 2.00	(°/100usft) 0.00 0.00 0.00	(°) 0.00 0.00 142.92	Target
Measured Depth (usft) Ind 0.0 2,000.0	(°) 0.00 0.00	(°) 0.00 0.00	Depth (usft) 0.0 2,000.0	(usft) 0.0 0.0	(usft) 0.0 0.0	Rate (°/100usft) 0.00 0.00	(°/100usft) 0.00 0.00	(°/100usft) 0.00 0.00 0.00 0.00	(°) 0.00 0.00 142.92 0.00	
Measured Depth (usft) Inc 0.0 2,000.0 2,220.6 11,435.1	(°) 0.00 0.00 4.41 4.41	(°) 0.00 0.00 142.92 142.92	Depth (usft) 0.0 2,000.0 2,220.4 11,407.5	(usft) 0.0 0.0 -6.8 -572.2	(usft) 0.0 0.0 5.1 432.5	Rate (°/100usft) 0.00 0.00 2.00 0.00	(°/100usft) 0.00 0.00 2.00 0.00	(*/100usft) 0.00 0.00 0.00 0.00 -18.41	(°) 0.00 142.92 0.00 -143.41	Target FTP (DW 122H) LTP (DW 122H)

10/10/2022 9:28:06AM

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Database:	AUS-COMPASS - EDM 15 - 32bit	Local Co-ordinate Reference:	Well Dogwood Fed Com 25 36 20 122H
Company:	Ameredev Operating	TVD Reference:	KB=26' @ 3087.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=26' @ 3087.0usft
Site:	Dogwood_AGI	North Reference:	Grid
Well:	Dogwood Fed Com 25 36 20 122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PRELIM#1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
. ,						. ,			-
0.0		0.00	0.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
100.0		0.00	100.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
200.0		0.00	200.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
300.0		0.00	300.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
400.0		0.00	400.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
500.0		0.00	500.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
600.0		0.00	600.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
700.0		0.00	700.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
800.0	0.00	0.00	800.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
900.0	0.00	0.00	900.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
1,000.0		0.00	1,000.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
1,083.0	0.00	0.00	1,083.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
Rustle	r								
1,100.0	0.00	0.00	1,100.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
1,200.0		0.00	1,200.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
1,300.0		0.00	1,300.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
1,400.0		0.00	1,400.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
1,500.0		0.00	1,500.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
1,600.0		0.00	1,600.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
1,653.0		0.00	1,653.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
Salado		0100	1,00010	010	010		000,020.22	02.100.1010	10012010001
1,700.0		0.00	1,700.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
1,800.0		0.00	1,800.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
1,900.0		0.00	1,900.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
2,000.0		0.00	2,000.0	0.0	0.0	404,997.26	863,023.22	32.1091548	-103.2943897
	uild 2.00	0.00	2,000.0	0.0	0.0	404,007.20	000,020.22	32.1031340	-100.2040007
2,100.0		142.92	2,100.0	-1.4	1.1	404,995.87	863,024.28	32.1091510	-103.2943863
2,200.0		142.92	2,100.0	-5.6	4.2	404,991.69	863,027.43	32.1091394	-103.2943763
2,220.0		142.92	2,199.0	-6.8	5.1	404,990.49	863,028.34	32.1091361	-103.2943734
	214.5 hold a			-0.0	5.1	404,330.43	000,020.04	32.1091301	-103.2343734
2,300.0		142.92	2,299.5	-11.6	8.8	404,985.61	863,032.03	32.1091226	-103.2943616
2,300.0		142.92	2,299.3	-17.8	13.4	404,985.01	863,036.66	32.1091220	-103.2943468
2,400.0		142.92	2,399.3	-17.8	18.1	404,973.34	863,041.30	32.1091050	-103.2943321
2,600.0		142.92	2,499.0 2,598.7	-23.9	22.7	404,973.34 404,967.20	863,045.94	32.1090886	-103.2943321
2,000.0		142.92	2,598.7	-36.2	22.7	404,967.20	863,050.58	32.1090710	-103.2943173
2,700.0		142.92	2,098.4 2,798.1	-30.2	32.0	404,951.07	863,055.22	32.1090376	-103.2943025
· · ·				-42.3 -48.5		404,954.95			
2,900.0		142.92 142.92	2,897.8		36.6	'	863,059.85	32.1090206 32.1090037	-103.2942729 -103.2942581
3,000.0			2,997.5	-54.6	41.3	404,942.66	863,064.49		
3,100.0		142.92	3,097.2	-60.7	45.9	404,936.52	863,069.13	32.1089867	-103.2942433
3,200.0		142.92	3,196.9	-66.9	50.5	404,930.38	863,073.77	32.1089697	-103.2942286
3,300.0		142.92	3,296.6	-73.0	55.2	404,924.25	863,078.41	32.1089527	-103.2942138
3,357.6		142.92	3,354.0	-76.5	57.9	404,920.71	863,081.08	32.1089429	-103.2942053
Tansill		440.00	0.000.0	70.0	50.0	404 040 44	000.000.04	00 4000057	400.0044000
3,400.0		142.92	3,396.3	-79.2	59.8	404,918.11	863,083.04	32.1089357	-103.2941990
3,500.0		142.92	3,496.0	-85.3	64.5	404,911.97	863,087.68	32.1089187	-103.2941842
3,600.0		142.92	3,595.7	-91.4	69.1	404,905.84	863,092.32	32.1089017	-103.2941694
3,700.0		142.92	3,695.4	-97.6	73.7	404,899.70	863,096.96	32.1088847	-103.2941546
3,800.0		142.92	3,795.1	-103.7	78.4	404,893.56	863,101.59	32.1088677	-103.2941398
3,859.1		142.92	3,854.0	-107.3	81.1	404,889.94	863,104.33	32.1088577	-103.2941311
Capita									
3,900.0		142.92	3,894.8	-109.8	83.0	404,887.43	863,106.23	32.1088507	-103.2941251
4,000.0		142.92	3,994.5	-116.0	87.6	404,881.29	863,110.87	32.1088338	-103.2941103
4,100.0		142.92	4,094.2	-122.1	92.3	404,875.15	863,115.51	32.1088168	-103.2940955
4,200.0	4.41	142.92	4,193.9	-128.2	96.9	404,869.01	863,120.15	32.1087998	-103.2940807
10/10/2022 0/1									

COMPASS 5000.16 Build 100



Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well Dogwood Fed Com 25 36 20 122H
Company:	Ameredev Operating	TVD Reference:	KB=26' @ 3087.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=26' @ 3087.0usft
Site:	Dogwood_AGI	North Reference:	Grid
Well:	Dogwood Fed Com 25 36 20 122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PRELIM#1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitudo
		()	(usit)	(usit)		(usit)	(usit)		Longitude
4,300.0		142.92	4,293.6	-134.4	101.6	404,862.88	863,124.78	32.1087828	-103.2940659
4,400.0		142.92	4,393.3	-140.5	106.2	404,856.74	863,129.42	32.1087658	-103.2940511
4,500.0		142.92	4,493.0	-146.7	110.8	404,850.60	863,134.06	32.1087488	-103.2940363
4,600.0		142.92	4,592.7	-152.8	115.5	404,844.47	863,138.70	32.1087318	-103.2940216
4,700.0		142.92	4,692.4	-158.9	120.1	404,838.33	863,143.34	32.1087148	-103.2940068
4,800.0		142.92	4,792.1	-165.1	124.7	404,832.19	863,147.97	32.1086978	-103.2939920
4,900.0 5,000.0		142.92 142.92	4,891.8 4,991.5	-171.2 -177.3	129.4 134.0	404,826.06 404,819.92	863,152.61 863,157.25	32.1086808 32.1086639	-103.2939772 -103.2939624
5,100.0		142.92	4,991.3 5,091.3	-177.5	134.0	404,813.78	863,161.89	32.1086469	-103.2939624
5,152.9		142.92	5,144.0	-186.7	141.1	404,810.54	863,164.34	32.1086379	-103.2939398
Lamar		112.02	0,111.0	100.1		101,010.01	000,101.01	02.1000010	100.2000000
5,200.0	4.41	142.92	5,191.0	-189.6	143.3	404,807.65	863,166.53	32.1086299	-103.2939328
5,241.2		142.92	5,232.0	-192.1	145.2	404,805.12	863,168.43	32.1086229	-103.2939268
Bell Ca			,						
5,250.0		142.92	5,240.8	-192.7	145.6	404,804.58	863,168.84	32.1086214	-103.2939255
NMNM	138912 Exit a)						
5,300.0	4.41	142.92	5,290.7	-195.7	147.9	404,801.51	863,171.16	32.1086129	-103.2939181
5,400.0	4.41	142.92	5,390.4	-201.9	152.6	404,795.37	863,175.80	32.1085959	-103.2939033
5,500.0		142.92	5,490.1	-208.0	157.2	404,789.24	863,180.44	32.1085789	-103.2938885
5,600.0		142.92	5,589.8	-214.2	161.9	404,783.10	863,185.08	32.1085619	-103.2938737
5,700.0		142.92	5,689.5	-220.3	166.5	404,776.96	863,189.72	32.1085449	-103.2938589
5,800.0		142.92	5,789.2	-226.4	171.1	404,770.83	863,194.35	32.1085279	-103.2938441
5,900.0		142.92	5,888.9	-232.6	175.8	404,764.69 404,758.55	863,198.99	32.1085109	-103.2938293
6,000.0 6,100.0		142.92 142.92	5,988.6 6,088.3	-238.7 -244.8	180.4 185.0	404,752.42	863,203.63 863,208.27	32.1084940 32.1084770	-103.2938146 -103.2937998
6,200.0		142.92	6,188.0	-251.0	189.7	404,746.28	863,212.90	32.1084600	-103.2937850
6,300.0		142.92	6,287.7	-257.1	194.3	404,740.14	863,217.54	32.1084430	-103.2937702
6,400.0		142.92	6,387.4	-263.3	199.0	404,734.01	863,222.18	32.1084260	-103.2937554
6,500.0		142.92	6,487.1	-269.4	203.6	404,727.87	863,226.82	32.1084090	-103.2937406
6,600.0		142.92	6,586.8	-275.5	208.2	404,721.73	863,231.46	32.1083920	-103.2937258
6,700.0	4.41	142.92	6,686.5	-281.7	212.9	404,715.59	863,236.09	32.1083750	-103.2937111
6,800.0		142.92	6,786.2	-287.8	217.5	404,709.46	863,240.73	32.1083580	-103.2936963
6,900.0		142.92	6,885.9	-293.9	222.1	404,703.32	863,245.37	32.1083410	-103.2936815
7,000.0		142.92	6,985.6	-300.1	226.8	404,697.18	863,250.01	32.1083241	-103.2936667
7,100.0		142.92 142.92	7,085.3	-306.2	231.4	404,691.05	863,254.65	32.1083071	-103.2936519 -103.2936447
7,148.8		142.92	7,134.0	-309.2	233.7	404,688.05	863,256.91	32.1082988	-103.2930447
7,200.0	Canyon 4.41	142.92	7,185.0	-312.3	236.1	404,684.91	863,259.28	32.1082901	-103.2936371
7,300.0		142.92	7,284.7	-318.5	240.7	404,678.77	863,263.92	32.1082731	-103.2936223
7,400.0		142.92	7,384.4	-324.6	245.3	404,672.64	863,268.56	32.1082561	-103.2936076
7,500.0		142.92	7,484.1	-330.8	250.0	404,666.50	863,273.20	32.1082391	-103.2935928
7,600.0	4.41	142.92	7,583.8	-336.9	254.6	404,660.36	863,277.84	32.1082221	-103.2935780
7,700.0		142.92	7,683.5	-343.0	259.2	404,654.23	863,282.47	32.1082051	-103.2935632
7,800.0		142.92	7,783.3	-349.2	263.9	404,648.09	863,287.11	32.1081881	-103.2935484
7,900.0		142.92	7,883.0	-355.3	268.5	404,641.95	863,291.75	32.1081711	-103.2935336
8,000.0		142.92	7,982.7	-361.4	273.2	404,635.82	863,296.39	32.1081542	-103.2935188
8,100.0		142.92	8,082.4	-367.6	277.8	404,629.68	863,301.03	32.1081372	-103.2935041
8,171.9		142.92	8,154.0	-372.0	281.1	404,625.27	863,304.36	32.1081250	-103.2934934
8,200.0	pring Lime 4.41	142.92	8,182.1	-373.7	282.4	404,623.54	863,305.66	32.1081202	-103.2934893
8,300.0		142.92	8,281.8	-379.9	287.1	404,623.54	863,310.30	32.1081202	-103.2934745
8,400.0		142.92	8,381.5	-386.0	291.7	404,611.27	863,314.94	32.1080862	-103.2934597
8,500.0		142.92	8,481.2	-392.1	296.4	404,605.13	863,319.58	32.1080692	-103.2934449
8,600.0		142.92	8,580.9	-398.3	301.0	404,599.00	863,324.21	32.1080522	-103.2934301

COMPASS 5000.16 Build 100



Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well Dogwood Fed Com 25 36 20 122H
Company:	Ameredev Operating	TVD Reference:	KB=26' @ 3087.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=26' @ 3087.0usft
Site:	Dogwood_AGI	North Reference:	Grid
Well:	Dogwood Fed Com 25 36 20 122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PRELIM#1		

Planned Survey

Measured Depth	Inclination		Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
8,700.0	4.41	142.92	8,680.6	-404.4	305.6	404,592.86	863,328.85	32.1080352	-103.2934154
8,800.0	4.41	142.92	8,780.3	-410.5	310.3	404,586.72	863,333.49	32.1080182	-103.2934006
8,900.0	4.41	142.92	8,880.0	-416.7	314.9	404,580.59	863,338.13	32.1080012	-103.2933858
9,000.0	4.41	142.92	8,979.7	-422.8	319.5	404,574.45	863,342.77	32.1079843	-103.2933710
9,100.0	4.41	142.92	9,079.4	-428.9	324.2	404,568.31	863,347.40	32.1079673	-103.2933562
9,200.0	4.41	142.92	9,179.1	-435.1	328.8	404,562.18	863,352.04	32.1079503	-103.2933414
9,300.0	4.41	142.92	9,278.8	-441.2	333.5	404,556.04	863,356.68	32.1079333	-103.2933266
9,400.0	4.41	142.92	9,378.5	-447.4	338.1	404,549.90	863,361.32	32.1079163	-103.2933119
9,500.0 9,600.0	4.41 4.41	142.92 142.92	9,478.2 9,577.9	-453.5 -459.6	342.7 347.4	404,543.76 404,537.63	863,365.96 863,370.59	32.1078993 32.1078823	-103.2932971
9,700.0	4.41	142.92	9,577.9 9,677.6	-459.0 -465.8	347.4	404,531.49	863,375.23	32.1078653	-103.2932823 -103.2932675
9,715.4	4.41	142.92	9,693.0	-466.7	352.0	404,530.54	863,375.95	32.1078627	-103.2932652
	one Spring	142.02	0,000.0	400.1	002.7	404,000.04	000,070.00	02.1070027	100.2002002
9,800.0	4.41	142.92	9,777.3	-471.9	356.6	404,525.35	863,379.87	32.1078483	-103.2932527
9,900.0	4.41	142.92	9,877.0	-478.0	361.3	404,519.22	863,384.51	32.1078313	-103.2932379
10,000.0	4.41	142.92	9,976.7	-484.2	365.9	404,513.08	863,389.15	32.1078144	-103.2932231
10,100.0	4.41	142.92	10,076.4	-490.3	370.6	404,506.94	863,393.78	32.1077974	-103.2932084
10,200.0	4.41	142.92	10,176.1	-496.5	375.2	404,500.81	863,398.42	32.1077804	-103.2931936
10,245.0	4.41	142.92	10,221.0	-499.2	377.3	404,498.05	863,400.51	32.1077727	-103.2931869
	Bone Sprir		10.075.0	500.0	070.0	404 404 07	000 400 00	00 1077001	100 000 1700
10,300.0	4.41	142.92	10,275.8	-502.6	379.8	404,494.67 404,488.53	863,403.06	32.1077634	-103.2931788
10,400.0 10,500.0	4.41 4.41	142.92 142.92	10,375.5 10,475.3	-508.7 -514.9	384.5 389.1	404,482.40	863,407.70 863,412.34	32.1077464 32.1077294	-103.2931640 -103.2931492
10,600.0	4.41	142.92	10,475.0	-521.0	393.7	404,482.40	863,416.97	32.1077124	-103.2931344
10,700.0	4.41	142.92	10,674.7	-527.1	398.4	404,470.12	863,421.61	32.1076954	-103.2931196
10,800.0	4.41	142.92	10,774.4	-533.3	403.0	404,463.99	863,426.25	32.1076784	-103.2931049
10,804.7	4.41	142.92	10,779.0	-533.6	403.2	404,463.70	863,426.46	32.1076776	-103.2931042
Upper 1	Third Bone S	Spring							
10,900.0	4.41	142.92	10,874.1	-539.4	407.7	404,457.85	863,430.89	32.1076614	-103.2930901
11,000.0	4.41	142.92	10,973.8	-545.5	412.3	404,451.71	863,435.52	32.1076445	-103.2930753
11,100.0	4.41	142.92	11,073.5	-551.7	416.9	404,445.58	863,440.16	32.1076275	-103.2930605
11,200.0	4.41	142.92	11,173.2	-557.8	421.6	404,439.44	863,444.80	32.1076105	-103.2930457
11,300.0 11,372.3	4.41 4.41	142.92 142.92	11,272.9 11,345.0	-564.0 -568.4	426.2 429.6	404,433.30 404,428.86	863,449.44 863,452.79	32.1075935 32.1075812	-103.2930309 -103.2930202
	one Spring	142.92	11,343.0	-300.4	429.0	404,420.00	003,432.79	32.1073012	-105.2950202
11,400.0	4.41	142.92	11,372.6	-570.1	430.9	404,427.17	863,454.08	32.1075765	-103.2930161
11,435.1	4.41	142.92	11,407.5	-572.2	432.5	404,425.01	863,455.70	32.1075705	-103.2930110
	art DLS 12.0					,			
11,450.0	3.16	123.15	11,422.4	-572.9	433.2	404,424.33	863,456.39	32.1075686	-103.2930087
11,475.0	2.91	64.03	11,447.4	-573.0	434.3	404,424.23	863,457.54	32.1075683	-103.2930050
11,500.0	4.99	31.12	11,472.4	-571.8	435.4	404,425.44	863,458.67	32.1075716	-103.2930014
11,525.0	7.71	19.26	11,497.2	-569.3	436.6	404,427.96	863,459.79	32.1075785	-103.2929977
11,546.0	10.12	14.33	11,518.0	-566.2	437.5	404,431.08	863,460.71	32.1075871	-103.2929946
Wolfca 11,550.0	mp 10.58	13.66	11,521.9	-565.5	437.7	404,431.77	863,460.88	32.1075890	-103.2929940
11,575.0	13.50	10.45	11,546.3	-560.4	437.7	404,431.77	863,461.96	32.1075030	-103.2929940
11,600.0	16.45	8.37	11,540.5	-554.0	439.8	404,443.24	863,463.00	32.1076204	-103.2929868
11,625.0	19.42	6.91	11,594.3	-546.4	440.8	404,450.87	863,464.02	32.1076414	-103.2929833
11,650.0	22.39	5.82	11,617.6	-537.5	441.8	404,459.74	863,465.00	32.1076657	-103.2929799
11,675.0	25.37	4.98	11,640.5	-527.4	442.7	404,469.81	863,465.95	32.1076934	-103.2929765
11,700.0	28.36	4.31	11,662.8	-516.2	443.6	404,481.07	863,466.86	32.1077243	-103.2929732
11,725.0	31.35	3.75	11,684.5	-503.8	444.5	404,493.49	863,467.73	32.1077584	-103.2929700
11,750.0 11,775.0	34.34	3.28	11,705.5	-490.2	445.3	404,507.02	863,468.56 863,469.34	32.1077956	-103.2929669
11,775.0	37.33	2.88	11,725.7	-475.6	446.1	404,521.63	003,409.34	32.1078357	-103.2929639
10/10/0000 0.0	0.00444								

COMPASS 5000.16 Build 100



Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well Dogwood Fed Com 25 36 20 122H
Company:	Ameredev Operating	TVD Reference:	KB=26' @ 3087.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=26' @ 3087.0usft
Site:	Dogwood_AGI	North Reference:	Grid
Well:	Dogwood Fed Com 25 36 20 122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PRELIM#1		

Planned Survey

Measured Depth (usft)	Inclination		Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latituda	Longitudo
	(°)	(°)						Latitude	Longitude
11,800.0		2.53	11,745.2	-460.0	446.9	404,537.28	863,470.08	32.1078787	-103.2929610
11,825.0		2.22	11,763.8	-443.3	447.5	404,553.93	863,470.77	32.1079245	-103.2929583
11,850.0		1.94	11,781.6	-425.7	448.2	404,571.54	863,471.41	32.1079728	-103.2929557
11,875.0 11,879.1		1.69 1.65	11,798.4 11,801.0	-407.2 -404.1	448.8 448.9	404,590.05 404,593.15	863,471.99 863,472.09	32.1080237 32.1080322	-103.2929532 -103.2929528
Wolfca		1.05	11,001.0	-404.1	440.9	404,595.15	003,472.09	32.1000322	-103.2929526
11,900.0		1.46	11,814.2	-387.8	449.3	404,609.41	863,472.53	32.1080769	-103.2929509
11,925.0		1.25	11,828.9	-367.7	449.8	404,629.57	863,473.00	32.1081323	-103.2929487
11,950.0		1.05	11,842.6	-346.8	450.2	404,650.48	863,473.42	32.1081898	-103.2929467
11,975.0	61.28	0.87	11,855.2	-325.2	450.6	404,672.08	863,473.79	32.1082491	-103.2929449
12,000.0	64.28	0.70	11,866.6	-303.0	450.9	404,694.31	863,474.09	32.1083102	-103.2929432
12,025.0		0.53	11,876.9	-280.2	451.1	404,717.10	863,474.33	32.1083729	-103.2929417
12,050.0		0.37	11,885.9	-256.9	451.3	404,740.40	863,474.51	32.1084369	-103.2929404
12,075.0		0.22	11,893.8	-233.1	451.4	404,764.14	863,474.64	32.1085021	-103.2929392
12,100.0		0.07	11,900.3	-209.0	451.5	404,788.26	863,474.70	32.1085684	-103.2929383
12,120.0		359.96	11,904.7	-189.5	451.5	404,807.76	863,474.70	32.1086220	-103.2929377
12,125.0	138912 Entry 79.26	359.93	11,905.6	-184.6	451.5	404,812.69	863,474.70	32.1086356	-103.2929375
12,120.0		359.79	11,909.6	-159.9	451.4	404,837.36	863,474.63	32.1087034	-103.2929370
12,175.0		359.65	11,912.4	-135.0	451.3	404,862.21	863,474.51	32.1087717	-103.2929366
12,200.0		359.51	11,913.8	-110.1	451.1	404,887.17	863,474.33	32.1088403	-103.2929364
12,214.6	90.00	359.43	11,914.0	-95.5	451.0	404,901.77	863,474.19	32.1088804	-103.2929364
LP-Sta	rt 10377.9 ho	old at 12214	.6 MD - FTP	(DW 122H)					
12,300.0		359.43	11,914.0	-10.1	450.1	404,987.16	863,473.34	32.1091151	-103.2929365
12,400.0		359.43	11,914.0	89.9	449.1	405,087.16	863,472.34	32.1093900	-103.2929366
12,500.0		359.43	11,914.0	189.9	448.1	405,187.15	863,471.34	32.1096649	-103.2929367
12,600.0		359.43	11,914.0	289.9	447.1	405,287.15	863,470.35	32.1099397	-103.2929368
12,700.0 12,800.0		359.43 359.43	11,914.0 11,914.0	389.9 489.9	446.1 445.1	405,387.14 405,487.14	863,469.35 863,468.35	32.1102146 32.1104895	-103.2929369 -103.2929370
12,900.0		359.43	11,914.0	489.9 589.9	444.1	405,587.13	863,467.35	32.1107643	-103.2929370
13,000.0		359.43	11,914.0	689.9	443.1	405,687.13	863,466.35	32.1110392	-103.2929372
13,100.0		359.43	11,914.0	789.9	442.1	405,787.12	863,465.36	32.1113140	-103.2929373
13,200.0		359.43	11,914.0	889.9	441.1	405,887.12	863,464.36	32.1115889	-103.2929374
13,300.0	90.00	359.43	11,914.0	989.9	440.1	405,987.11	863,463.36	32.1118638	-103.2929375
13,400.0	90.00	359.43	11,914.0	1,089.8	439.1	406,087.11	863,462.36	32.1121386	-103.2929376
13,500.0		359.43	11,914.0	1,189.8	438.1	406,187.10	863,461.36	32.1124135	-103.2929378
13,600.0		359.43	11,914.0	1,289.8	437.1	406,287.10	863,460.37	32.1126884	-103.2929379
13,700.0		359.43	11,914.0	1,389.8	436.1	406,387.09	863,459.37	32.1129632	-103.2929380
13,800.0		359.43	11,914.0	1,489.8	435.1	406,487.09	863,458.37	32.1132381	-103.2929381
13,900.0		359.43 359.43	11,914.0	1,589.8	434.1 433.1	406,587.08	863,457.37 863,456.37	32.1135129	-103.2929382 -103.2929383
14,000.0 14,100.0		359.43	11,914.0 11,914.0	1,689.8 1,789.8	433.1	406,687.08 406,787.07	863,455.38	32.1137878 32.1140627	-103.2929383
14,200.0		359.43	11,914.0	1,889.8	431.2	406,887.07	863,454.38	32.1143375	-103.2929385
14,300.0		359.43	11,914.0	1,989.8	430.2	406,987.06	863,453.38	32.1146124	-103.2929386
14,400.0		359.43	11,914.0	2,089.8	429.2	407,087.06	863,452.38	32.1148873	-103.2929387
14,500.0		359.43	11,914.0	2,189.8	428.2	407,187.05	863,451.38	32.1151621	-103.2929388
14,600.0	90.00	359.43	11,914.0	2,289.8	427.2	407,287.05	863,450.39	32.1154370	-103.2929389
14,700.0		359.43	11,914.0	2,389.8	426.2	407,387.04	863,449.39	32.1157118	-103.2929390
14,800.0		359.43	11,914.0	2,489.8	425.2	407,487.04	863,448.39	32.1159867	-103.2929391
14,900.0		359.43	11,914.0	2,589.8	424.2	407,587.03	863,447.39	32.1162616	-103.2929392
15,000.0		359.43	11,914.0	2,689.8	423.2	407,687.03	863,446.39	32.1165364	-103.2929393
15,100.0		359.43	11,914.0	2,789.8	422.2	407,787.02	863,445.40	32.1168113	-103.2929394
15,200.0 15,300.0		359.43 359.43	11,914.0 11,914.0	2,889.8 2,989.8	421.2 420.2	407,887.02 407,987.01	863,444.40 863,443.40	32.1170862 32.1173610	-103.2929395 -103.2929396
15,500.0	90.00	559.45	11,314.0	2,303.0	720.2	10.108,104	000,440.40	52.1175010	-100.2929090



Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well Dogwood Fed Com 25 36 20 122H
Company:	Ameredev Operating	TVD Reference:	KB=26' @ 3087.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=26' @ 3087.0usft
Site:	Dogwood_AGI	North Reference:	Grid
Well:	Dogwood Fed Com 25 36 20 122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB	-	
Design:	PRELIM#1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
									-
15,400.0	90.00	359.43	11,914.0	3,089.7	419.2	408,087.01	863,442.40	32.1176359	-103.2929397
15,500.0	90.00	359.43	11,914.0	3,189.7	418.2	408,187.00	863,441.40	32.1179107	-103.2929399
15,600.0	90.00	359.43	11,914.0 11,914.0	3,289.7	417.2	408,287.00	863,440.41	32.1181856	-103.2929400
15,700.0 15,800.0	90.00 90.00	359.43 359.43	11,914.0	3,389.7 3,489.7	416.2 415.2	408,386.99 408,486.99	863,439.41 863,438.41	32.1184605 32.1187353	-103.2929401 -103.2929402
15,900.0	90.00	359.43	11,914.0	3,489.7 3,589.7	415.2	408,586.98	863,437.41	32.1190102	-103.2929402
16,000.0	90.00	359.43	11,914.0	3,689.7	414.2	408,686.98	863,436.41	32.1192851	-103.2929403
16,082.0	90.00	359.43	11,914.0	3,771.7	412.4	408,768.94	863,435.60	32.1195104	-103.2929404
,	38912 Exit			0,771.7	712.7	400,700.04	000,400.00	02.1100104	100.2020400
16,100.0	90.00	359.43	11,914.0	3,789.7	412.2	408,786.97	863,435.42	32.1195599	-103.2929405
16,200.0	90.00	359.43	11,914.0	3,889.7	411.2	408,886.97	863,434.42	32.1198348	-103.2929406
16,300.0	90.00	359.43	11,914.0	3,989.7	410.2	408,986.96	863,433.42	32.1201096	-103.2929407
16,400.0	90.00	359.43	11,914.0	4,089.7	409.2	409,086.96	863,432.42	32.1203845	-103.2929408
16,500.0	90.00	359.43	11,914.0	4,189.7	408.2	409,186.95	863,431.42	32.1206594	-103.2929409
16,600.0	90.00	359.43	11,914.0	4,289.7	407.2	409,286.95	863,430.43	32.1209342	-103.2929410
16,700.0	90.00	359.43	11,914.0	4,389.7	406.2	409,386.94	863,429.43	32.1212091	-103.2929411
16,800.0	90.00	359.43	11,914.0	4,489.7	405.2	409,486.94	863,428.43	32.1214840	-103.2929412
16,900.0	90.00	359.43	11,914.0	4,589.7	404.2	409,586.93	863,427.43	32.1217588	-103.2929413
17,000.0	90.00	359.43	11,914.0	4,689.7	403.2	409,686.93	863,426.44	32.1220337	-103.2929414
17,100.0	90.00	359.43	11,914.0	4,789.7	402.2	409,786.92	863,425.44	32.1223085	-103.2929415
17,200.0	90.00	359.43	11,914.0	4,889.7	401.2	409,886.92	863,424.44	32.1225834	-103.2929416
17,300.0	90.00	359.43	11,914.0	4,989.7	400.2	409,986.91	863,423.44	32.1228583	-103.2929417
17,399.0	90.00	359.43	11,914.0	5,088.6	399.2	410,085.87	863,422.45	32.1231303	-103.2929418
	40359 Exit			E 000 0	000.0	440.000.04	000 400 44	00 4004004	400 0000 440
17,400.0	90.00	359.43	11,914.0	5,089.6	399.2	410,086.91	863,422.44	32.1231331	-103.2929418
17,500.0	90.00	359.43	11,914.0	5,189.6	398.2	410,186.90	863,421.45	32.1234080	-103.2929419
17,600.0 17,700.0	90.00 90.00	359.43 359.43	11,914.0 11,914.0	5,289.6 5,389.6	397.2 396.2	410,286.90 410,386.89	863,420.45 863,419.45	32.1236829 32.1239577	-103.2929421 -103.2929422
17,800.0	90.00	359.43	11,914.0	5,489.6	395.2	410,486.89	863,418.45	32.1239377	-103.2929422
17,900.0	90.00	359.43	11,914.0	5,589.6	394.2	410,586.88	863,417.45	32.1245074	-103.2929424
18,000.0	90.00	359.43	11,914.0	5,689.6	393.2	410,686.88	863,416.46	32.1247823	-103.2929425
18,100.0	90.00	359.43	11,914.0	5,789.6	392.2	410,786.87	863,415.46	32.1250572	-103.2929426
18,200.0	90.00	359.43	11,914.0	5,889.6	391.2	410,886.87	863,414.46	32.1253320	-103.2929427
18,300.0	90.00	359.43	11,914.0	5,989.6	390.2	410,986.86	863,413.46	32.1256069	-103.2929428
18,400.0	90.00	359.43	11,914.0	6,089.6	389.2	411,086.86	863,412.46	32.1258818	-103.2929429
18,500.0	90.00	359.43	11,914.0	6,189.6	388.2	411,186.85	863,411.47	32.1261566	-103.2929430
18,600.0	90.00	359.43	11,914.0	6,289.6	387.2	411,286.85	863,410.47	32.1264315	-103.2929431
18,700.0	90.00	359.43	11,914.0	6,389.6	386.2	411,386.84	863,409.47	32.1267063	-103.2929432
18,800.0	90.00	359.43	11,914.0	6,489.6	385.2	411,486.84	863,408.47	32.1269812	-103.2929433
18,900.0	90.00	359.43	11,914.0	6,589.6	384.2	411,586.83	863,407.47	32.1272561	-103.2929434
19,000.0	90.00	359.43	11,914.0	6,689.6	383.3	411,686.83	863,406.48	32.1275309	-103.2929435
19,100.0	90.00	359.43	11,914.0	6,789.6	382.3	411,786.82	863,405.48	32.1278058	-103.2929436
19,200.0 19,300.0	90.00 90.00	359.43 359.43	11,914.0 11,914.0	6,889.6 6,989.6	381.3 380.3	411,886.82 411,986.81	863,404.48 863,403.48	32.1280807 32.1283555	-103.2929437 -103.2929438
19,400.0	90.00	359.43	11,914.0	7,089.5	379.3	412,086.81	863,402.48	32.1286304	-103.2929439
19,500.0	90.00	359.43	11,914.0	7,189.5	378.3	412,186.80	863,401.49	32.1289052	-103.2929440
19,600.0	90.00	359.43	11,914.0	7,289.5	377.3	412,286.80	863,400.49	32.1203032	-103.2929441
19,700.0	90.00	359.43	11,914.0	7,389.5	376.3	412,386.79	863,399.49	32.1294550	-103.2929442
19,800.0	90.00	359.43	11,914.0	7,489.5	375.3	412,486.79	863,398.49	32.1297298	-103.2929443
19,900.0	90.00	359.43	11,914.0	7,589.5	374.3	412,586.78	863,397.49	32.1300047	-103.2929445
20,000.0	90.00	359.43	11,914.0	7,689.5	373.3	412,686.78	863,396.50	32.1302796	-103.2929446
20,100.0	90.00	359.43	11,914.0	7,789.5	372.3	412,786.77	863,395.50	32.1305544	-103.2929447
20,200.0	90.00	359.43	11,914.0	7,889.5	371.3	412,886.77	863,394.50	32.1308293	-103.2929448
20,300.0	90.00	359.43	11,914.0	7,989.5	370.3	412,986.76	863,393.50	32.1311041	-103.2929449



Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well Dogwood Fed Com 25 36 20 122H
Company:	Ameredev Operating	TVD Reference:	KB=26' @ 3087.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=26' @ 3087.0usft
Site:	Dogwood_AGI	North Reference:	Grid
Well:	Dogwood Fed Com 25 36 20 122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PRELIM#1		

Planned Survey

Measured Depth (usft)	Inclination		Vertical Depth (usft)	+N/-S (usft)	+E/-W	Map Northing (usft)	Map Easting (usft)		Longitude
(usit)	(°)	(°)	(usit)	(usit)	(usft)	(usit)	(usit)	Latitude	Longitude
20,400.0	90.00	359.43	11,914.0	8,089.5	369.3	413,086.76	863,392.50	32.1313790	-103.2929450
20,500.0	90.00	359.43	11,914.0	8,189.5	368.3	413,186.75	863,391.51	32.1316539	-103.2929451
20,600.0		359.43	11,914.0	8,289.5	367.3	413,286.75	863,390.51	32.1319287	-103.2929452
20,700.0	90.00	359.43	11,914.0	8,389.5	366.3	413,386.74	863,389.51	32.1322036	-103.2929453
20,800.0	90.00	359.43	11,914.0	8,489.5	365.3	413,486.74	863,388.51	32.1324785	-103.2929454
20,900.0	90.00	359.43	11,914.0	8,589.5	364.3	413,586.73	863,387.51	32.1327533	-103.2929455
21,000.0		359.43	11,914.0	8,689.5	363.3	413,686.73	863,386.52	32.1330282	-103.2929456
21,100.0		359.43	11,914.0	8,789.5	362.3	413,786.72	863,385.52	32.1333030	-103.2929457
21,200.0		359.43	11,914.0	8,889.5	361.3	413,886.72	863,384.52	32.1335779	-103.2929458
21,300.0		359.43	11,914.0	8,989.5	360.3	413,986.71	863,383.52	32.1338528	-103.2929459
21,400.0	90.00	359.43	11,914.0	9,089.4	359.3	414,086.71	863,382.52	32.1341276	-103.2929460
21,500.0	90.00	359.43	11,914.0	9,189.4	358.3	414,186.70	863,381.53	32.1344025	-103.2929461
21,600.0	90.00	359.43	11,914.0	9,289.4	357.3	414,286.70	863,380.53	32.1346773	-103.2929462
21,700.0	90.00	359.43	11,914.0	9,389.4	356.3	414,386.69	863,379.53	32.1349522	-103.2929463
21,800.0	90.00	359.43	11,914.0	9,489.4	355.3	414,486.69	863,378.53	32.1352271	-103.2929464
21,900.0	90.00	359.43	11,914.0	9,589.4	354.3	414,586.68	863,377.53	32.1355019	-103.2929465
22,000.0	90.00	359.43	11,914.0	9,689.4	353.3	414,686.68	863,376.54	32.1357768	-103.2929466
22,100.0	90.00	359.43	11,914.0	9,789.4	352.3	414,786.67	863,375.54	32.1360517	-103.2929467
22,200.0	90.00	359.43	11,914.0	9,889.4	351.3	414,886.67	863,374.54	32.1363265	-103.2929468
22,300.0	90.00	359.43	11,914.0	9,989.4	350.3	414,986.66	863,373.54	32.1366014	-103.2929469
22,400.0	90.00	359.43	11,914.0	10,089.4	349.3	415,086.66	863,372.54	32.1368762	-103.2929470
22,500.0	90.00	359.43	11,914.0	10,189.4	348.3	415,186.65	863,371.55	32.1371511	-103.2929471
22,592.5	90.00	359.43	11,914.0	10,281.8	347.4	415,279.10	863,370.62	32.1374052	-103.2929472
LTP (D	W 122H)								
22,592.5	90.00	359.43	11,914.0	10,281.9	347.4	415,279.18	863,370.62	32.1374054	-103.2929472
Start 4	9.9 hold at 2	2592.5 MD							
22,600.0	90.00	359.43	11,914.0	10,289.4	347.3	415,286.65	863,370.55	32.1374260	-103.2929472
22,642.4	90.00	359.43	11,914.0	10,331.8	346.9	415,329.09	863,370.13	32.1375426	-103.2929473
TD at 2	2642.4 - BH	L (DW 122H)						

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
BHL (DW 122H) - plan hits target ce - Point	0.00 enter	0.00	11,914.0	10,331.8	346.9	415,329.09	863,370.13	32.1375426	-103.2929473
LTP (DW 122H) - plan hits target ce - Point	0.00 enter	0.00	11,914.0	10,281.8	347.4	415,279.10	863,370.61	32.1374052	-103.2929473
FTP (DW 122H) - plan hits target ce - Point	0.00 enter	0.00	11,914.0	-95.5	451.0	404,901.77	863,474.19	32.1088804	-103.2929364

Received by OCD: 6/3/2024 1:08:54 PM



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well Dogwood Fed Com 25 36 20 122H
Company:	Ameredev Operating	TVD Reference:	KB=26' @ 3087.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=26' @ 3087.0usft
Site:	Dogwood_AGI	North Reference:	Grid
Well:	Dogwood Fed Com 25 36 20 122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PRELIM#1		

Formations

Measu Dept (usft	n Depth	Name	Lithology	Dip (°)	Dip Direction (°)
1,08	33.0 1,083.0	Rustler		0.00	
1,6	53.0 1,653.0	Salado		0.00	
3,3	57.6 3,354.0	Tansill			
3,8	59.1 3,854.0	Capitan			
5,1	52.9 5,144.0	Lamar	Lamar		
5,24	1.2 5,232.0	Bell Canyon	Bell Canyon		
7,14	48.8 7,134.0	Brushy Canyon			
8,1	71.9 8,154.0	Bone Spring Lime			
9,7	15.4 9,693.0	First Bone Spring			
10,24	10,221.0	Second Bone Spring			
10,80	04.7 10,779.0	Upper Third Bone Spring	Jpper Third Bone Spring		
11,3	72.3 11,345.0	Third Bone Spring	Third Bone Spring		
11,54	11,518.0	Wolfcamp			
11,8	79.1 11,801.0	Wolfcamp B			

Plan Annotations

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,220.6	2,220.4	-6.8	5.1	Start 9214.5 hold at 2220.6 MD
5,250.0	5,240.8	-192.7	145.6	NMNM138912 Exit at 5250.0 MD
11,435.1	11,407.5	-572.2	432.5	KOP-Start DLS 12.00 TFO -143.41
12,120.0	11,904.7	-189.5	451.5	NMNM138912 Entry at 12120.0 MD
12,214.6	11,914.0	-95.5	451.0	LP-Start 10377.9 hold at 12214.6 MD
16,082.0	11,914.0	3,771.7	412.4	NMNM138912 Exit at 16082.0 MD
17,399.0	11,914.0	5,088.6	399.2	NMNM140359 Exit at 17399.0 MD
22,592.5	11,914.0	10,281.9	347.4	Start 49.9 hold at 22592.5 MD
22,642.4	11,914.0	10,331.8	346.9	TD at 22642.4

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Ameredev Operating LLC
WELL NAME & NO.:	Dogwood 25 36 20 Fed Com 122H
LOCATION:	Sec 20-25S-36E-NMP
COUNTY:	Lea County, New Mexico

COA

H ₂ S	💿 No	C Yes					
Potash / WIPP	None	C Secretary	C R-111-P	□ WIPP			
Cave / Karst	• Low	C Medium	🗘 High	Critical			
Wellhead	Conventional	Multibowl	C Both	C Diverter			
Cementing	Primary Squeeze	🗖 Cont. Squeeze	EchoMeter	DV Tool			
Special Req	□ Break Testing	Water Disposal	COM	🗖 Unit			
Variance	Flex Hose	Casing Clearance	🗖 Pilot Hole	Capitan Reef			
Variance	□ Four-String	□ Offline Cementing	🗖 Fluid-Filled	Open Annulus			
Batch APD / Sundry							

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 1209 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) 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 8

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 *alternate* **10-3/4** inch intermediate casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
 - In <u>Capitan Reef Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - Special Capitan Reef Requirement: Ensure FW based mud used across the Capitan interval.
- 3. 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:
 - FOR PRIMARY THREE-STRING DESIGN: Cement to surface. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
 - FOR ALTERNATE FOUR-STRING DESIGN: Cement should tieback at least 50 feet on top of Capitan Reef top or 200 feet into the previous casing, whichever is greater. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
- In <u>Capitan Reef Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- Special Capitan Reef requirements. If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:

Page 2 of 8

(Use this for 3 string wells in the Capitan Reef, if 4 string well ensure FW based mud used across the capitan interval)

- Switch to freshwater mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
- Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **50 feet** on top of Capitan Reef top or **200 feet** into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above.

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. 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 43 CFR 3172 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- 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

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, **BLM_NM_CFO_DrillingNotifications@BLM.GOV** (575) 361-2822

- Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 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 **43 CFR part 3170 Subpart 3172** 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.
- Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24</u> <u>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 integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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

B. PRESSURE CONTROL

- All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 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 43
 CFR part 3170 Subpart 3172 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 cement), 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR part 3170 Subpart 3172 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 43 CFR part 3170 Subpart 3172.

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: 05/17/2024



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. <u>Windsock and/or Wind Streamers:</u>

- 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:
 - $\circ \quad \text{Detection of } H_2S \text{ and} \\$
 - o 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	H₂S	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:	Key Personnel:				
Name	Title	Office	Mobile		
Floyd Hammond	Chief Operating officer	737-300-4724	512-783-6810		
Shane McNeely	Operations Engineer	737-300-4729	432-413-8593		
Joe Bob Jones	Construction Foreman		432-260-9261		

<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

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AFMSS

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

APD ID: 10400088620

Operator Name: AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Type: OIL WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

DOGWOOD_25_36_20_FED_COM_122H___ACCESS_MAP_20221012145247.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? YES

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? YES

New Road Map:

Dogwood_Road_20221012101422.pdf

EP_PEACH_BATTERY_ROAD_SEC_21_S_20221012101422.pdf

Feet

DOGWOOD_25_36_20_FED_COM_122H___ACCESS_MAP_20221012145301.pdf

New road type: RESOURCE

Length: 5817

Max slope (%): 2

Max grade (%): 2

Width (ft.): 30

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: Crowned and Ditched

New road access plan or profile prepared? N

New road access plan

05/29/2024 Submission Date: 10/12/2022 Highlighted data reflects the most recent changes Well Number: 122H Show Final Text Well Work Type: Drill

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Grader

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

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Crowned and Ditched

Road Drainage Control Structures (DCS) description: None

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

DOGWOOD_25_36_20_FED_COM_122H___ONE_MILE_RADIUS_20221012145354.pdf

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 will be buried and run approximately 5,316 from the Dogwood Fed Com 25 36 20 122H to the Peach CTB northeast of the well pad. A 30' pipeline ROW containing three 12 poly water lines will be run 964' from the Peach CTB to existing water lines. A power line will be run parallel to the pipeline corridor and connect to an existing power line. The power line will be approximately 14,673'. The Peach CTB will be 500x525 and will include a separator, Heat Exchanger, VRU, VRT, meter run and a tank battery. The new production facility will have a secondary containment structure that is constructed to hold the capacity of 1-1/2 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Received by OCD: 6/3/2024 1:08:54 PM

Operator Name: AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

Production Facilities map:

BO_PEACH_BATTERY_SITE_S_20221012104208.pdf Dogwood_Road_20221012104208.pdf EP_DOGWOOD_FLOWLINE_SEC_20_S_20221012104208.pdf EP_DOGWOOD_FLOWLINE_SEC_21_S_20221012104208.pdf EP_PEACH_BATTERY_ELECTRIC_SEC_21_S_20221012104208.pdf EP_PEACH_BATTERY_ROAD_SEC_21_S_20221012104208.pdf Peach_Singh_Water_Line_20221012104208.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: GW WELL

Water source use type:

DUST CONTROL SURFACE CASING

> INTERMEDIATE/PRODUCTION CASING STIMULATION

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method:

TRUCKING

PIPELINE

Source land ownership: PRIVATE

Source transportation land ownership: FEDERAL

Water source volume (barrels): 20000

Source volume (acre-feet): 2.57786193

Source volume (gal): 840000

Water source and transportation

DOGWOOD_25_36_20_FED_COM_122H___WATER_WELLS_LIST_20221012145607.pdf

DOGWOOD_25_36_20_FED_COM_122H___WATER_MAP_20221012145607.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 Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

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	er (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 west 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

DOGWOOD_1N___WELLSITE_20221012104357.pdf DOGWOOD_25_36_20_FED_COM_122H___CALICHE_MAP_20221012145619.pdf

Section 7 - Methods for Handling

Waste type: DRILLING

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

Amount of waste: 2000 barrels

Waste disposal frequency : Daily

Safe containment description: Steel tanks on pad

Safe containmant attachment:

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

Disposal type description:

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

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

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 depth (ft.) Is at least 50% of the cuttings area in cut? WCuttings area liner Cuttings area liner

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

BO_DOGWOOD_1N_PAD_SITE_S_20221012104453.pdf DOGWOOD_1N___WELLSITE_20221012104453.pdf Comments:

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: DW Multiple Well Pad Number: #1N

Recontouring

DOGWOOD_1N___WELLSITE_20221012104531.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): 0.37	Well pad long term disturbance (acres): 4.22
Road proposed disturbance (acres): 4.01	Road interim reclamation (acres): 0	Road long term disturbance (acres): 4.01
Powerline proposed disturbance (acres): 10.11	Powerline interim reclamation (acres):	Powerline long term disturbance (acres): 10.11
Pipeline proposed disturbance (acres): 3.66	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 3.66
Other proposed disturbance (acres):	0 Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 22.37	Total interim reclamation: 0.37	Total long term disturbance: 22

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 consist of shrinking the pad 8% (.37 acre) by removing caliche and reclaiming a 40' wide swath on the west side of the pad. This will leave 4.22 acres for producing three wells, with tractor-trailer turn around. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the surface owner's requirements. All topsoil for the battery will be reseeded in place for the life of the battery.

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

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

Existing Vegetation Community at the road

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

Existing Vegetation Community at the pipeline

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

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed S	ummary	Total pounds/Acre:
Seed Type	Pounds/Acre	
Seed reclamation	-	
Operator Co	ontact/Responsibl	e Official
First Name: Patrick		Last Name: Kelley
Phone: (404)402-9980		Email: pkelley@ameredev.co
Seedbed prep:		
Seed BMP:		
Seed method:		
Existing invasive species? N	1	
Existing invasive species tre	eatment description:	
Existing invasive species tre	eatment	
Weed treatment plan descrip	otion: To BLM standards	i
Weed treatment plan		
Monitoring plan description:	To BLM standards	
Monitoring plan		

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Operator Name: AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

Success standards: To BLM satisfaction

Pit closure description: No Pit

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

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:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: AGREEMENT

Surface Access Agreement Need description: Ameredev and the private surface owner have a surface use agreement in place. Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Operator Name: AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

25 36 20 FED COM

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

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:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: AGREEMENT

Surface Access Agreement Need description: Ameredev and the private surface owner have a surface use agreement in place. Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: PIPELINE Describe: Surface Owner: PRIVATE OWNERSHIP Other surface owner description: BIA Local Office: Operator Name: AMEREDEV OPERATING LLC Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

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:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: AGREEMENT

Surface Access Agreement Need description: Ameredev and the private surface owner have a surface use agreement in place. Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: OTHER Describe: POWERLINE Surface Owner: PRIVATE OWNERSHIP Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Operator Name: AMEREDEV OPERATING LLC Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: AGREEMENT

Surface Access Agreement Need description: Ameredev and the private surface owner have a surface use agreement in place. Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: OTHER Describe: WATER LINE Surface Owner: PRIVATE OWNERSHIP 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: USFWS Local Office: USFS Region: USFS Forest/Grassland:

USFS Ranger District:

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

Use APD as ROW?

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: AGREEMENT

Surface Access Agreement Need description: Ameredev and the private surface owner have a surface use agreement in place. Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other

Right of Way needed? N

ROW Type(s):

ROW

SUPO Additional Information:

Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

Dogwood_25_36_20_Fed_Com_122H_SUPO_20221012145831.pdf

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WAFMSS

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05/29/2024

PWD Data Report

APD ID: 10400088620

Operator Name: AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Type: OIL WELL

Submission Date: 10/12/2022

Well Number: 122H Well Work Type: Drill

Section 1 - General

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

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N Produced Water Disposal (PWD) Location: PWD surface owner: Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit Pit liner description: **Pit liner manufacturers** Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule Lined pit reclamation description: Lined pit reclamation Leak detection system description: Leak detection system

PWD disturbance (acres):

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

Lined pit Monitor description:

Lined pit Monitor

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

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

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

PWD disturbance (acres):

Injection well name:

Injection well API number:

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

PWD surface owner:

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

 Produced Water Disposal (PWD) Location:

 PWD surface owner:
 PWD disturbance (acres):

 Surface discharge PWD discharge volume (bbl/day):
 PWD disturbance (acres):

 Surface Discharge NPDES Permit?
 Surface Discharge NPDES Permit attachment:

 Surface Discharge site facilities information:
 Surface discharge site facilities map:

 Section 6 Section 6

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

Other PWD discharge volume (bbl/day):

PWD disturbance (acres):

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 122H

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

Wellbore Schematic

Well:	Dogwood 25 36 20 Fed Com 122H	Co. Well ID:	XXXXXX
SHL:	SEC. 20, T25S, R36E, 200' FSL, 400' FWL	AFE No.:	XXXX-XXX
BHL:	SEC. 17, T25S, R36E, 50' FNL, 850' FWL	API No.:	XXXXXXXXXXX
	Lea, NM	GL:	3061
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 B
	C - 13-5/8" 10M x 13-5/8" 10M	TVD:	11914
	Tubing Spool - 7-1/16" 15M x 13-3/8" 10M	MD:	22642
Xmas Tree:	2-9/16" 10M	Rig:	TBD KB 27'
Tubing:	2-7/8" L-80 6.5# 8rd EUE	E-Mail:	DrillingCR@ameredev.com

Hole Size	Formation Tops	Logs	Cement	Mud Weight
17.5"	Rustler 1,084' 13.375" 68# J-55 BTC 1,209'		1,001 Sacks TOC 0' 100% Excess	8.4-8.6 ppg WBM
	Salado 1,654' DV Tool with ACP 3,355'		844 Sacks 2 TOC 0' 50% Excess 2	
12.25"	Tansill 3,355'			
12.23	Capitan Reef 3,855'			_
	Lamar 5,145'			oislu
	Bell Canyon 5,233'			E
	No Casing 5,270'			srine
9.875"	Ite outling0,210Brushy Canyon7,135'Bone Spring Lime8,155'First Bone Spring9,694'Second Bone Spring10,222'Third Bone Spring Upper10,780'7.625" 29.7# L-80HC BTC10,905'		1,161 Sacks TOC 0' 50% Excess	7.5-9.4 Diesel Brine Emulsion
6.75" 12° Build	Third Bone Spring11,346'Wolfcamp11,519'			DBM DBM
@ 11435 thru 12215 Ta	5.5" 23# P-110 USS-Eagle SFH 22642 rget Wolfcamp B 11914 TVD // 22642 MD		1,763 Sacks TOC 0' 25% Excess	10.5-12.5 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					
HWDP Drillpipe 3-1/2"-5-1/2" Drilling Fluid Upper Pipe Rams Lower Pipe Rams					
Drill Collars 3-1/2"-5-1/2" Drilling Fluid Upper Pipe Rams Lower Pipe Rams					
Production Casing 3-1/2"-5-1/2" Drilling Fluid Upper Pipe Rams Lower Pipe Rams					
Open Hole 13-5/8 Drilling Fluid Blind Rams					
All Drilling Components in 10M Environment will have OD that will allow full Operational RATED					
WORKING PRESSURE for system design. Kill line with minimum 2" ID will be available outside					
substructure with 10M Check Valve for OOH Kill Operations					

Well Control Procedures

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

Shutting In While Drilling

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

Shutting In While Tripping

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

Shutting In While Running Casing

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

Shutting in while out of hole

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

Shutting in prior to pulling BHA through stack

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

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

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

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

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

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

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

If not possible to pick up high enough:

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



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	350358
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

CONDING		
Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/26/2024
pkautz	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	6/26/2024
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	6/26/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	6/26/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	6/26/2024

Action 350358

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