Form 3160-3 (June 2015) UNITED STATE DEPARTMENT OF THE 1	FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018							
BUREAU OF LAND MAN	AGEME	NT		NMNM138912				
	DRILL OI	R REENTER		6. If Indian, Allotee	or Tribe	Name		
1a. Type of work:     Image: DRILL     Image: Rest of the second	EENTER			7. If Unit or CA Agreement, Name and No.				
Le Type of Completion: Hydraulic Fracturing	8. Lease Name and Well No.							
	DOGWOOD 25 36 20 FED COM							
2. Name of Operator AMEREDEV OPERATING LLC [372224]	9. API Well No. 30	-025-	52016					
3a. Address	e No. (include area cod	le)	10. Field and Pool, o WC-025 G-09 S26	or Explo 3620C/	ratory <b>[33813]</b> 98231 WOLFCF			
4. Location of Well ( <i>Report location clearly and in accordance</i> At surface SWSE / 200 FSL / 1720 FEL / LAT 32.109	with any Sta 156 / LONG	ate requirements.*) 6 -103.2841679		11. Sec., T. R. M. or SEC 20/T25S/R36	<sup>.</sup> Blk. an E/NMP	d Survey or Area		
At proposed prod. zone NWNE / 50 FNL / 1672 FEL / LA	AT 32.1375	5024 / LONG -103.28	39903					
<ul><li>14. Distance in miles and direction from nearest town or post off</li><li>6 miles</li></ul>	ice*		1	12. County or Parish LEA	1	13. State NM		
<ul> <li>15. Distance from proposed*</li> <li>location to nearest</li> <li>property or lease line, ft.</li> <li>(Also to nearest drig. unit line, if any)</li> </ul>	16. No of	acres in lease	17. Spaci 640.0	17. Spacing Unit dedicated to this well 640.0				
18. Distance from proposed location*	19. Propo	sed Depth	20. BLM	0. BLM/BIA Bond No. in file				
applied for, on this lease, ft.	11265 fee	et / 21970 feet	FED: NN	123. Estimated duration				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3056 feet	22. Appro 05/31/202	oximate date work will 24	start*	23. Estimated durati 90 days	on			
	24. Att	achments		1025 of particular and a second se				
The following, completed in accordance with the requirements o (as applicable)	f Onshore O	il and Gas Order No. 1	, and the H	Hydraulic Fracturing ru	ule per 4	3 CFR 3162.3-3		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office</li> </ol>	m Lands, th ).	<ul> <li>4. Bond to cover th Item 20 above).</li> <li>5. Operator certific</li> <li>6. Such other site sp BL M</li> </ul>	e operatior ation. secific infor	ns unless covered by an mation and/or plans as	n existing may be	g bond on file (see requested by the		
25. Signature (Electronic Submission)	Nan PAT	ne (Printed/Typed) RICK KELLEY			Date 10/13/2	2022		
Title Engineer								
Approved by (Signature)	Nam COE	ne (Printed/Typed) DY LAYTON / Ph: (57	75) 234-59	959	Date 09,	122/2023		
Title Assistant Field Manager Lands & Minerals	Officient	<sup>ce</sup> sbad Field Office						
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon.	t holds lega	l or equitable title to th	ose rights	in the subject lease wh	nich wou	ild entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 n	nake it a crir	ne for any person know	vingly and	willfully to make to a	ny depai	tment or agency		
of the United States any false, fictitious or fraudulent statements of	or represent	ations as to any matter	within its j	urisdiction.				
NGMP Rec 09/27/2023		CONDIT	IONS	t	ζZ			
SL	VED W	TH COMPANY	A VACADO MARINE	• 09/. */!==		23		
d to Imaging: 9/27/2022 11:00:54 4M				- (Ins	auctic	ns on page 2)		

(Continued on page 2)

# 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: SWSE / 200 FSL / 1720 FEL / TWSP: 25S / RANGE: 36E / SECTION: 20 / LAT: 32.109156 / LONG: -103.2841679 (TVD: 0 feet, MD: 0 feet) PPP: SWSE / 100 FSL / 1672 FEL / TWSP: 25S / RANGE: 36E / SECTION: 20 / LAT: 32.1088811 / LONG: -103.2840131 (TVD: 11265 feet, MD: 11557 feet) BHL: NWNE / 50 FNL / 1672 FEL / TWSP: 25S / RANGE: 36E / SECTION: 17 / LAT: 32.1375024 / LONG: -103.2839903 (TVD: 11265 feet, MD: 21970 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.

Page 5 of 79

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT <sup>2</sup>Pool Code <sup>1</sup>API Number <sup>3</sup>Pool Name 30-025-52016 33813 JAL;WOLFCAMP, WEST <sup>4</sup>Property Code Property Name Well Number DOGWOOD 25 36 20 FED COM 106H 331686 <sup>8</sup>Operator Name <sup>9</sup>Elevation OGRID No. 3056 372224 AMEREDEV OPERATING, LLC. <sup>10</sup>Surface Location UL or lot no. Section Township Rang Lot Idn Feet from the North/South line Feet from the East/West line County 25-S36 - E200' SOUTH 1720' EAST LEA 0 20 <sup>11</sup>Bottom 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 1672' 50° B 17 25-S 36-ENORTH EAST LEA <sup>2</sup>Dedicated Acres <sup>3</sup>Joint or Infill <sup>4</sup>Consolidation Code <sup>5</sup>Order No. 640 С

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



Released to Imaging: 9/27/2023 11:00.54 AMFEDEV\_OPERATING\_LLCIDOGWOOD\_FED\_COMFINAL\_PRODUCTSILO\_DOGWOOD\_FED\_COM\_25\_36\_20\_106H\_REV1.DWG 9/30/2022 12:12:38 PM adisab

	Submit Electronically Via E-permitting											
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505												
This Natural Gas Manage	NA ment Plan must	<b>FURAL</b> G	SAS MANA	GEMENT	' <b>PLAN</b> to Drill (APD) for a r	new or recompleted well.						
		<u>Section</u> 1	n 1 – Plan D Effective May 25	Description 5, 2021								
I. Operator:	<b>Operator:</b> Ameredev II, LLC <b>OGRID:</b> 372224 <b>Date:</b> 09/22/2023											
III. Well(s): Provide the for be recompleted from a sing Well Name	ollowing inform gle well pad or c API	ation for each connected to a ULSTR	new or recomple central delivery Footages	ted well or set o point. Anticipated Oil BBL/D	of wells proposed to b Anticipated Gas MCF/D	oe drilled or proposed to Anticipated Produced Water BBL/D						
Dogwood 25 36 20 Fed Com 091H	30025-		200' FSL & 380' FWL	564	1,114	555						
Dogwood 25 36 20 Fed Com 093H	30025-		200' FSL & 1740' FWL	564	1,114	555						
Dogwood 25 36 20 Fed Com 095H	30025-		200' FSL & 1760' FEL	564	1,114	555						
Dogwood 25 36 20 Fed Com 097H	30025-		200' FSL & 886' FEL	564	1,114	555						
Dogwood 25 36 20 Fed Com 104H	30025-		200' FSL & 1780' FWL	564	1,114	555						
Dogwood 25 36 20 Fed Com 106H	30025-		200' FSL & 1720' FEL	564	1,114	555						

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

.

**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 091H	30025-	12/01/2023	12/20/2023	01/20/2024	02/10/2024	02/13/2024
Dogwood 25 36 20 Fed Com 093H	30025-	12/01/2023	12/20/2023	01/20/2024	02/10/2024	02/13/2024
Dogwood 25 36 20 Fed Com 095H	30025-	12/01/2023	12/20/2023	01/20/2024	02/10/2024	02/13/2024
Dogwood 25 36 20 Fed Com 097H	30025-	12/01/2023	12/20/2023	01/20/2024	02/10/2024	02/13/2024
Dogwood 25 36 20 Fed Com 104H	30025-	12/01/2023	12/20/2023	01/20/2024	02/10/2024	02/13/2024
Dogwood 25 36 20 Fed Com 106H	30025-	12/01/2023	12/20/2023	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
			Start Date	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:
Approved By:       Title:       Approval Date:
Approved By:   Title:   Approval Date:   Conditions of Approval:
Approved By:   Title:   Approval Date:   Conditions of Approval:
Approved By:   Title:   Approval Date:   Conditions of Approval:
Approved By: Title: Approval Date: Conditions of Approval:

# <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> <u>take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.</u>

# 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



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

APD ID: 10400088634

**Operator Name: AMEREDEV OPERATING LLC** 

Well Name: DOGWOOD 25 36 20 FED COM

Well Type: OIL WELL

# Well Number: 106H Well Work Type: Drill

Highlighted data reflects the most recent changes

09/22/2023

Drilling Plan Data Report

Show Final Text

# **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
12177765	RUSTLER ANHYDRITE	3056	1173	1173	ANHYDRITE	NONE	N
12177766	SALADO	1329	1727	1727	SALT	NONE	N
12177767	TANSILL	-296	3352	3352	LIMESTONE	NONE	N
12177768	CAPITAN REEF	-870	3926	3926	LIMESTONE	USEABLE WATER	N
12177769	LAMAR	-2024	5080	5080	LIMESTONE	NONE	N
12177770	BELL CANYON	-2181	5237	5237	SANDSTONE	NATURAL GAS, OIL	N
12177771	BRUSHY CANYON	-4043	7099	7099	SANDSTONE	NATURAL GAS, OIL	N
12177772	BONE SPRING LIME	-4949	8005	8005	LIMESTONE	NONE	N
12177773	BONE SPRING 1ST	-6395	9451	9451	SANDSTONE	NATURAL GAS, OIL	N
12177774	BONE SPRING 2ND	-6876	9932	9932	SANDSTONE	NATURAL GAS, OIL	N
12177775	BONE SPRING 3RD	-7395	10451	10451	LIMESTONE	NATURAL GAS, OIL	N
12177776	BONE SPRING 3RD	-7962	11018	11018	SANDSTONE	NATURAL GAS, OIL	N
12177777	WOLFCAMP	-8147	11203	11203	SHALE	NATURAL GAS, OIL	Y

# **Section 2 - Blowout Prevention**

Submission Date: 10/13/2022

**Operator Name:** AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 106H

### 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	1298	0	1298	3056	1758	1298	J-55	68	OTHER - BTC	7.07	1	DRY	10.3 7	DRY	12.1 2
2	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	10576	0	10576	3061	-7520	10576	HCL -80	29.7	OTHER - BTC	1.3	1.29	DRY	2.03	DRY	2.99
3	PRODUCTI ON	6.75	5.5	NEW	API	N	0	21970	0	11265	3061	-8209	21970	P- 110	23	OTHER - USS Eagle SFH	1.83	1.96	DRY	1.5	DRY	1.67

### **Casing Attachments**

Operator Name: AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 106H

Page 15 of 79

### Casing Attachments

Casing ID	: 1	String	SURFACE
Inspection	Document:		
Spec Doc	ument:		
Tapered S	tring Spec:		
Casing De	sign Assumpt	tions and Wo	orksheet(s):
Dog	wood_25_36_2	0_Fed_Com_	_106H_WBS_and_CDA_20221013104519.pdf
13.3	75 68 J55 SE	AH 2022101	2095127.pdf
Casing ID	2	String	INTERMEDIATE
Inspection	Document:		
Spec Doc	ument:		
Tapered S	tring Spec:		
Casing De	sign Assumpt	tions and Wo	orksheet(s):
Dogv	wood_25_36_2	0_Fed_Com_	_106H_WBS_and_CDA_20221013104631.pdf
7.62	5_29.70_L80H	C_BORUSAN	J_20221012112210.pdf
Casing ID	3	String	PRODUCTION
Inspection	Document:		
Spec Doc	ument:		
Tapered S	tring Spec:		
Casing De	sign Assumpt	tions and Wo	orksheet(s):
Dog	wood_25_36_2	0_Fed_Com_	_106H_WBS_and_CDA_20221013104605.pdf
0			

5.5\_23\_RYS110\_EAGLE\_SFH\_20221012112232.pdf

# Operator Name: AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 106H

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	912	871.3	1.76	13.5	1533. 6	100	Class C	Bentonite, Accelerator, Kolseal, Defoamer, Celloflake
SURFACE	Tail		912	1298	200	1.34	14.8	268	100	Class C	N/A
INTERMEDIATE	Lead	3352	0	2821	643.7	3.5	9	2252. 9	50	Class C	Bentonite, Salt, Kolseal, Defoamer, Celloclake
INTERMEDIATE	Tail		2821	3352	200	1.33	14.8	266	25	Class C	N/A
INTERMEDIATE	Lead	3352	3352	9356	916.1	2.47	11.9	2262. 9	50	Class H	Bentonite, Retarder, Kolseal, Defoamer, Celloflake, Anti-Settling
INTERMEDIATE	Tail		9356	1057 7	200	1.31	14.2	262	25	Class H	Salt, Bentonite, Retarder, Dispersant, Fluid Loss
PRODUCTION	Lead		0	2197 0	1710	1.34	14.2	2292	25	Class H	Salt, Bentonite, Fluid Loss, Dispersant, Retarder, Defoamer

# **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

**Circulating Medium Table** 

# **Operator Name: AMEREDEV OPERATING LLC**

# Well Name: DOGWOOD 25 36 20 FED COM

### Well Number: 106H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1298	WATER-BASED MUD	8.4	8.6							
1298	1057 6	OTHER : Diesel Brine Emulsion	7.5	9.4							
1057 6	1126 5	OIL-BASED MUD	10.5	12.5							

# Section 6 - Test, Logging, Coring

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

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

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

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

### Coring operation description for the well:

No coring will be done on this well.

# **Section 7 - Pressure**

 Anticipated Bottom Hole Pressure: 6151
 Anticipated Surface Pressure: 3672

 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
 YES

H2S\_Plan\_20230403\_20230512161958.pdf

Operator Name: AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 106H

Page 18 of 79

# **Section 8 - Other Information**

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

Dogwood\_Fed\_Com\_25\_36\_20\_106H\_PWP\_20221013104906.pdf

# Other proposed operations facets description:

Rig Skid Procedure

## Other proposed operations facets attachment:

Rig\_Skid\_Procedure\_20221013091522.pdf

# Other Variance attachment:

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 106H	Co. Well ID:	XXXXXX
SHL:	SEC. 20, T25S, R36E, 200' FSL, 1720' FEL	AFE No.:	XXXX-XXX
BHL:	SEC. 17, T25S, R36E, 50' FNL, 1672' FEL	API No.:	XXXXXXXXXXX
	Lea, NM	GL:	3056
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 XY
	C - 13-5/8" 10M x 13-5/8" 10M	TVD:	11265
	Tubing Spool - 7-1/16" 15M x 13-3/8" 10M	MD:	21970
Xmas Tree:	2-9/16" 10M	Rig:	TBD <b>KB</b> 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 1,173' 13.375" 68# J-55 BTC 1,298'		1,071 Sacks TOC 0' 100% Excess	8.4-8.6 ppg WBM
	Salado 1,727' DV Tool with ACP 3,352'		844 Sacks TOC 0' 50% Excess	
12 25"	Tansill 3,352'			
12.25	Capitan Reef 3,926'			
	Lamar 5,080'			Ilsio
	Bell Canyon 5,237'			ШШ
	No Casing 5,205'			rine
				elB
	Brushy Canyon 7,099'			Dies
	Bone Spring Lime 8,005'			5-9.4
9 875"	First Bone Spring 9,451'			7.5
0.070	Second Bone Spring 9,932'			
	Third Bone Spring Upper 10,451'		Sacks	
	7.625" 29.7# L-80HC BTC 10.576'		1,116 ( TOC 0 50% E	
6.75"	Third Bone Spring 11,018'			Σ
12° Build	Wolfcamp 11,203'			g OE
@ 10775				2 bb
thru	5.5" 23# P-110 USS-Eagle SFH 21970		cks ess	12
11557	Target Wolfcamp XY 11265 TVD // 21970 MD		D' Sa Txor	0.5
			1,710 FOC	-
		1		

Casing Specifications						
Segment	Hole ID	Depth	OD	Weight	Grade	Coupling
Surface	17.5	1,298'	13.375	68	J-55	BTC
Intermediate	9.875	10,576'	7.625	29.7	HCL-80	BTC
Prod Segment A	6.75	10775	5.5	23	P-110	SFH
Prod Segment B	6.75	21970	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	12.12	10.37	7.07	0.67	
	Check I	ntermedia	te Casing		
OD Cplg	Body	Joint	Collapse	Burst	
inches	1000 lbs	1000 lbs	psi	psi	
7.625	940	558	6700	9460	
	S	afety Facto	ors		
1.13	2.99	2.03	1.30	1.29	
	Check Pro	od Casing,	Segment A		
OD Cplg	Body	Joint	Collapse	Burst	
inches	1000 lbs	1000 lbs	psi	psi	
5.777	728	655	12780	14360	
	S	afety Facto	ors		
0.49	1.67	1.50	1.83	1.96	
Check Prod Casing, Segment B					
OD Cplg	Body	Joint	Collapse	Burst	
inches	1000 lbs	1000 lbs	psi	psi	
5.777	728	655	12780	14360	
	S	afety Facto	ors		
0.49	2.83	2.54	0.90	1.96	

# **PERFORMANCE DATA**

**API BTC Technical Data Sheet** 

13.375 in

68.00 lbs/ft

J-55

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

in²

in in in

in

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

Con	nection OD	14.3
Cou	pling Length	10.6
The	ada Day Inah	F 00

Nom. Pipe Body Area

Yield Load In Tension		lbs	
Min. Internal Yield Pressure	3,500	psi	

19.445

### Printed on: February-13-2015

NOTE:

The content of this Technical Data Sheet is for general information only and does not guarantee performance or imply fitness for a particular purpose, which only a competent drilling professional can determine considering the specific installation and operation parameters. Information that is printed or downloaded is no longer controlled by TMK IPSCO and might not be the latest information. Anyone using the information herein does so at their own risk. To verify that you have the latest TMK IPSCO technical information, please contact TMK IPSCO Technical Sales toll-free at 1-888-258-2000.



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
	Sizes
OD	7 5/8 in
Nominal Wall Thickness	0.375 in
Nominal Weight, T&C	29.70 lb/ft
Nominal Weight, PE	29.06 lb/ft
Nominal ID	6.875 in

	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
SECTION AREA	Pipe	USS-EAGLE SFH™	
Critical Area	6.630	5.507	sq. in.
Joint Efficiency		83.1	%
PERFORMANCE	Pipe	USS-EAGLE SFH™	
Minimum Collapse Pressure	14,540	14,540	psi
External Pressure Leak Resistance		10,000	psi
Minimum Internal Yield Pressure	14,520	14,520	psi
Minimum Pipe Body Yield Strength	729,000		lbs
Joint Strength		606,000	lbs
Compression Rating		606,000	lbs
Reference Length		17,909	ft
Maximum Uniaxial Bend Rating		76.2	deg/100 ft
MAKE-UP DATA	Pipe	USS-EAGLE SFH™	
Make-Up Loss		6.65	in.
Minimum Make-Up Torque		16,600	ft-lbs
Maximum Make-Up Torque		19,800	ft-lbs
Maximum Operating Torque		28,000	ft-lbs

#### Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

> 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 106H

OWB

Plan: PRELIM#1

# **Standard Planning Report - Geographic**

10 October, 2022



Database:

Company:

Wellbore:

Design:

Project

Map System:

Site Position:

Well Position

Wellbore

Magnetics

Geo Datum:

Map Zone:

Site

From:

Well

Project:

Site:

Well:

32.1091554

32.1091560

3,056.0 usft

-103.2841679

-103.2923681

#### Planning Report - Geographic AUS-COMPASS - EDM\_15 - 32bit Local Co-ordinate Reference: Well Dogwood Fed Com 25-36-20 106H Ameredev Operating **TVD Reference:** KB=26' @ 3082.0usft Lea County, NM (N83-NME) KB=26' @ 3082.0usft MD Reference: Dogwood\_AGI North Reference: Grid Dogwood Fed Com 25-36-20 106H **Survey Calculation Method:** Minimum Curvature OWB PRELIM#1 Lea County, NM (N83-NME) US State Plane 1983 System Datum: Mean Sea Level North American Datum 1983 New Mexico Eastern Zone Dogwood\_AGI Northing: 405,003.49 usft Latitude: Easting: 863,649.20 usft Longitude: Мар Slot Radius: **Position Uncertainty:** 0.0 usft 13-3/16 " Dogwood Fed Com 25-36-20 106H 0.0 usft Latitude: +N/-S Northing: 405,028.36 usft 0.0 usft 866,188.33 usft +E/-W Easting: Longitude: **Position Uncertainty** 3.0 usft Wellhead Elevation: usf Ground Level: 0.56° Grid Convergence: OWB Declination **Dip Angle Field Strength** Model Name Sample Date (°) (°) (nT) IGRF2020 10/10/2022 6.25 59.79 47,319.51276658

Design	PRELIM#1					
Audit Notes:						
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
		0.0	0.0	0.0	359.48	

Plan	Survey Tool P	rogram	Date	10/10/2022						
	Depth From (usft)	Depth To (usft)	Survey	/ (Wellbore)	r	Tool Name		Remarks		
1	0.0	21,969.8	3 PRELI	M#1 (OWB)	N C	/WD )WSG MWD - Sta	andard			

#### **Plan Sections**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,191.0	3.82	174.98	2,190.8	-6.3	0.6	2.00	2.00	0.00	174.98	
10,775.0	3.82	174.98	10,755.8	-576.0	50.6	0.00	0.00	0.00	0.00	
11,556.8	90.00	359.48	11,265.0	-99.5	48.9	12.00	11.02	-22.45	-175.49 F	TP (DW 106H)
21,919.8	90.00	359.48	11,265.0	10,263.0	-45.0	0.00	0.00	0.00	0.00 L	TP (DW 106H)
21,969.8	90.00	359.48	11,265.0	10,313.0	-45.4	0.00	0.00	0.00	0.00 E	3HL (DW 106H)

10/10/2022 8:26:52AM



# Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well Dogwood Fed Com 25-36-20 106H
Company:	Ameredev Operating	TVD Reference:	KB=26' @ 3082.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=26' @ 3082.0usft
Site:	Dogwood_AGI	North Reference:	Grid
Well:	Dogwood Fed Com 25-36-20 106H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB	-	
Design:	PRELIM#1		

### **Planned Survey**

(init)         (r)         (usft)         (usft) <th>Measured Depth</th> <th>Inclination</th> <th>Azimuth</th> <th>Vertical Depth</th> <th>+N/-S</th> <th>+E/-W</th> <th>Map Northing</th> <th>Map Easting</th> <th></th> <th></th>	Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
0.0         0.00         0.00         0.00         405,028.36         666,188.33         32,1091560         -103,2841575           20.0         0.00         0.00         0.00         0.00         405,028.36         666,188.33         32,1091560         -103,2841575           30.0         0.00         0.00         400.0         0.00         405,028.36         666,188.33         32,1091560         -103,2841575           50.0         0.00         0.00         400.0         0.00         405,028.36         666,188.33         32,1091560         -103,2841575           60.00         0.00         0.00         400,028.36         666,188.33         32,1091560         -103,2841575           70.00         0.00         0.00         405,028.35         666,188.33         32,1091560         -103,2841575           90.00         0.00         0.00         405,028.35         666,188.33         32,1091560         -103,2841575           1,100.0         0.00         1,000.0         0.0         405,028.36         666,188.33         32,1091560         -103,2841575           1,100.0         0.00         0.00         400,028.36         666,188.33         32,1091560         -103,2841575           1,100.0         0.00         <	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
1000         0.00         0.00         0.00         0.00         400,028,36         866,188,33         32,1091660         -103,224167           300.0         0.00         0.00         400,028,36         866,188,33         32,1091660         -103,224167           400.0         0.00         0.00         400,028,36         866,188,33         32,1091660         -103,224167           500.0         0.00         600,028,36         866,188,33         32,1091660         -103,224167           600.0         0.00         600,00         0.0         405,028,36         866,188,33         32,1091660         -103,2241675           700.0         0.00         0.00         600,00         0.0         405,028,36         866,188,33         32,1091560         -103,2241675           100.0         0.00         0.00         405,028,36         866,188,33         32,1091560         -103,2241575           1,172.0         0.00         0.00         445,028,38         866,188,33         32,1091560         -103,2241575           1,00.0         0.00         1,012,0         0.0         445,028,38         866,188,33         32,1091560         -103,2241575           1,00.0         0.00         0.00         445,028,38         866,188,33	0.0	0.00	0.00	0.0	0.0	0.0	405,028.36	866,188.33	32.1091560	-103.2841679
20.0         0.00         1.00         2.00.0         0.00         400.0         0.00         400.028 56         866, 188.33         32.10191660         -1.03.284167           40.0         0.00         0.00         400.0         0.0         400.028 56         866, 188.33         32.10191660         -1.03.284167           500         0.00         0.00         60.0         0.0         400.028 56         866, 188.33         32.1019160         -1.03.284167           700         0.00         0.00         0.00         400.028 58         866, 188.33         32.1019160         -1.03.284167           800.0         0.00         0.00         0.00         400.028 58         866, 188.33         32.1019160         -1.03.284167           1.000.0         0.00         1.000.0         0.0         405.028 58         866, 188.33         32.1019160         -1.03.284167           1.120.0         0.00         0.00         405.028 58         866, 188.33         32.1019160         -1.03.284167           1.200.0         0.00         1.400.0         0.0         405.028 58         866, 188.33         32.1019160         -1.03.284167           1.200.0         0.00         1.400.0         0.0         405.028 58         866, 188.33	100.0	0.00	0.00	100.0	0.0	0.0	405,028.36	866,188.33	32.1091560	-103.2841679
30.0         0.00         0.00         0.00         0.00         400.028.36         8661.88.33         32.1091860         1.03.284167           90.0         0.00         0.00         500.0         0.0         460.028.36         8661.88.33         32.1091860         1.03.284167           90.0         0.00         0.00         0.00         400.028.36         8661.88.33         32.1091860         1.03.284167           90.0         0.00         0.00         400.028.36         8661.88.33         32.1091860         1.03.284167           90.0         0.00         0.00         405.028.36         8661.88.33         32.1091860         1.03.284167           1.000.0         0.00         0.00         0.00         405.028.36         8661.88.33         32.1091860         1.03.2841675           1.172.0         0.00         0.00         405.028.36         8661.88.33         32.1091860         1.03.2841675           1.172.0         0.00         0.00         405.028.36         866.188.33         32.1091860         1.03.2841675           1.172.0         0.00         0.00         445.028.36         866.188.33         32.1091860         1.03.2841675           1.172.0         0.00         0.00         445.028.36	200.0	0.00	0.00	200.0	0.0	0.0	405,028.36	866,188.33	32.1091560	-103.2841679
1000         0.00         1000         0.00         1000         0.00         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         10000         1000 </td <td>300.0</td> <td></td> <td>0.00</td> <td>300.0</td> <td>0.0</td> <td>0.0</td> <td>405,026.30</td> <td>000,100.33 866 188 33</td> <td>32.1091560</td> <td>-103.2041079</td>	300.0		0.00	300.0	0.0	0.0	405,026.30	000,100.33 866 188 33	32.1091560	-103.2041079
6000         000 <td>500.0</td> <td></td> <td>0.00</td> <td>400.0 500.0</td> <td>0.0</td> <td>0.0</td> <td>405,028.30</td> <td>866 188 33</td> <td>32.1091560</td> <td>-103.2041079</td>	500.0		0.00	400.0 500.0	0.0	0.0	405,028.30	866 188 33	32.1091560	-103.2041079
700.0         0.00         700.0         0.0         405 (22.86)         966 (18.8.3)         32 (190 (1560)         1.03 (224 (157))           900.0         0.00         0.00         900.0         0.00         405 (22.86)         866 (18.8.33)         32 (190 (1560)         1.103 (224 (157))           1.000.0         0.00         0.00         0.00         0.00         0.00         1.013 (224 (157))         1.113 (224 (157))         <	600.0	0.00	0.00	600.0	0.0	0.0	405,020.00	866 188 33	32 1091560	-103 2841679
900.0         0.00 <t< td=""><td>700.0</td><td>0.00</td><td>0.00</td><td>700.0</td><td>0.0</td><td>0.0</td><td>405.028.36</td><td>866,188,33</td><td>32.1091560</td><td>-103.2841679</td></t<>	700.0	0.00	0.00	700.0	0.0	0.0	405.028.36	866,188,33	32.1091560	-103.2841679
900.0 0.00 0.00 1.000 0.00 405.028.36 866,188.33 32.1091560 -103.2841675 1.000 0.00 0.00 1.100.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 1.172.0 0.00 0.00 1.172.0 0.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 1.200.0 0.00 0.00 1.200.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 1.300.0 0.00 0.00 1.300.0 0.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 1.400.0 0.00 0.00 1.400.0 0.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 1.500.0 0.00 0.00 1.400.0 0.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 1.500.0 0.00 0.00 1.700.0 0.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 1.700.0 0.00 0.00 1.700.0 0.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 1.700.0 0.00 0.00 1.776.0 0.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 1.700.0 0.00 0.00 1.776.0 0.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 1.700.0 0.00 0.00 1.776.0 0.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 1.800.0 0.00 0.00 1.776.0 0.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 2.100.0 0.00 0.00 1.776.0 0.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 2.100.0 0.00 0.00 1.800.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 2.100.0 0.00 0.00 1.800.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 2.100.0 0.00 0.00 1.800.0 0.0 405.028.36 866,188.33 32.1091560 -103.2841675 2.100.0 0.00 0.00 0.00 0.00 405.028.36 866,188.33 32.1091560 -103.2841675 2.100.0 0.00 0.00 0.00 0.00 405.028.36 866,188.33 32.1091560 -103.2841675 2.100.0 0.00 0.00 0.00 0.00 405.028.36 866,188.48 32.1091512 -103.2841675 2.100.0 3.82 174.98 2.199.8 -4.5 0.6 405.021.42 866,188.48 32.1091512 -103.2841675 2.100.0 3.82 174.98 2.199.8 -4.5 0.6 405.021.42 866,188.44 32.1091512 -103.2841675 2.100.0 3.82 174.98 2.989.6 -1.4 405.016.1 866,190.8 32.109139 -103.2841675 2.200.0 3.82 174.98 2.989.6 -1.4 405.016.1 866,190.8 32.109139 -103.2841675 2.300.0 3.82 174.98 2.989.6 -1.4 5. 4405.015.1 866,190.18 32.109139 -103.2841675 2.400.0 3.82 174.98 3.397.2 -86.8 2.4 404,936.1 866,191.8 32.1099594	800.0	0.00	0.00	800.0	0.0	0.0	405,028.36	866,188.33	32.1091560	-103.2841679
1,000.0       0.00       1,000.0       0.0       405,028.36       866,188.33       32,1091560       -103,2841675         1,172.0       0.00       0.00       1,172.0       0.00       405,028.36       866,188.33       32,1091560       -103,2841675         Rustler            -103,2841675       -103,2841675         1,200.0       0.00       0.00       1,300.0       0.00       405,028.36       866,188.33       32,1091560       -103,2841675         1,400.0       0.00       0.00       1,400.0       0.0       405,028.36       866,188.33       32,1091560       -103,2841675         1,600.0       0.00       0.00       1,600.0       0.0       405,028.36       866,188.33       32,1091560       -103,2841675         1,700.0       0.00       0.00       1,700.0       0.00       0.0       405,028.36       866,188.33       32,1091560       -103,2841675         1,700.0       0.00       0.00       1,700.0       0.00       0.0       405,028.36       866,188.33       32,1091560       -103,2841675         1,800.0       0.00       0.00       0.0       405,028.36       866,188.33       32,1091560       -103,2841675 <t< td=""><td>900.0</td><td>0.00</td><td>0.00</td><td>900.0</td><td>0.0</td><td>0.0</td><td>405,028.36</td><td>866,188.33</td><td>32.1091560</td><td>-103.2841679</td></t<>	900.0	0.00	0.00	900.0	0.0	0.0	405,028.36	866,188.33	32.1091560	-103.2841679
1,100.0       0.00       1,00.0       0.0       405,028.36       866,188.33       32.1091560       -103.2841675         Number         1,200.0       0.00       0.00       1,200.0       0.0       405,028.36       866,188.33       32.1091560       -103.2841675         1,300.0       0.00       0.00       1,300.0       0.0       0.0       405,028.36       866,188.33       32.1091560       -103.2841675         1,400.0       0.00       0.00       1,400.0       0.0       0.0       405,028.36       866,188.33       32.1091560       -103.2841675         1,500.0       0.00       0.00       1,600.0       0.0       0.0       405,028.36       866,188.33       32.1091560       -103.2841675         1,700.0       0.00       0.00       1,600.0       0.0       0.0       405,028.36       866,188.33       32.1091560       -103.2841675         5       5       5       5       5       5       5       5       5       6       6       188.33       32.1091560       -103.2841675         1,900.0       0.00       0.00       405,028.36       666,188.33       32.1091560       -103.2841675         2,1000.0       0.00       0.00	1,000.0	0.00	0.00	1,000.0	0.0	0.0	405,028.36	866,188.33	32.1091560	-103.2841679
1,172.0       0.00       1,172.0       0.0       0.0       405,028.36       866,188.33       32.1091560       -103.2841675         1,200.0       0.00       0.00       1,200.0       0.00       1,000.0       0.00       405,028.36       866,188.33       32.1091560       -103.2841675         1,400.0       0.00       0.00       1,400.0       0.0       0.0       405,028.36       866,188.33       32.1091560       -103.2841675         1,500.0       0.00       0.00       1,600.0       0.0       0.0       405,028.36       866,188.33       32.1091560       -103.2841675         1,700.0       0.00       0.00       1,700.0       0.00       0.00       405,028.36       866,188.33       32.1091560       -103.2841675         1,720.0       0.00       0.00       1,700.0       0.00       0.00       405,028.36       866,188.33       32.1091560       -103.2841675         1,800.0       0.00       0.00       0.00       405,028.36       866,188.33       32.1091560       -103.2841675         2,000.0       0.00       0.00       0.00       405,028.36       866,188.33       32.1091560       -103.2841675         2,000.0       0.00       0.00       0.00       0.00	1,100.0	0.00	0.00	1,100.0	0.0	0.0	405,028.36	866,188.33	32.1091560	-103.2841679
Rustler         1,200.0         0.00         1,200.0         0.00         1,200.0         0.00         405,028.36         866,188.33         32.1091560         -103.2841675           1,400.0         0.00         0.00         1,400.0         0.00         405,028.36         866,188.33         32.1091560         -103.2841675           1,500.0         0.00         1,600.0         0.0         405,028.36         866,188.33         32.1091560         -103.2841675           1,600.0         0.00         1,600.0         0.0         405,028.36         866,188.33         32.1091560         -103.2841675           1,700.0         0.00         0.00         1,700.0         0.00         405,028.36         866,188.33         32.1091560         -103.2841675           5         Slado            -103.2841675         -103.2841675           1,900.0         0.00         0.00         0.00         405,028.36         866,188.33         32.1091560         -103.2841675           2,100.0         0.00         0.00         0.00         405,028.36         866,188.33         32.1091580         -103.2841675           2,100.0         0.00         0.00         0.00         405,028.36         866,188.43         32.1	1,172.0	0.00	0.00	1,172.0	0.0	0.0	405,028.36	866,188.33	32.1091560	-103.2841679
1,200.0       0.00       0.00       1,200.0       0.0       405,028.36       866,188.33       32,1091560       -103,2841675         1,400.0       0.00       0.00       1,400.0       0.0       0.0       405,028.36       866,188.33       32,1091560       -103,2841675         1,500.0       0.00       0.00       1,600.0       0.0       0.045,028.36       866,188.33       32,1091560       -103,2841675         1,700.0       0.00       0.00       0.00       405,028.36       866,188.33       32,1091560       -103,2841675         1,726.0       0.00       0.00       405,028.36       866,188.33       32,1091560       -103,2841675         1,800.0       0.00       1,726.0       0.0       0.0       405,028.36       866,188.33       32,1091560       -103,2841675         2,000.0       0.00       0.00       1,800.0       0.0       0.0       405,028.36       866,188.33       32,1091560       -103,2841675         2,000.0       0.00       0.00       0.00       405,028.36       866,188.33       32,1091560       -103,2841675         2,000.0       0.00       1,74.98       2,190.0       -17       0.2       405,028.36       866,188.43       32,1091560       -103,2841675	Rustle	r							00 / 00 / 500	
1,300.0       0.00       0.00       1,300.0       0.0       405,128.36       866,188.33       32,1091560       -103,2841675         1,500.0       0.00       0.00       1,500.0       0.0       0.0       405,028.36       866,188.33       32,1091560       -103,2841675         1,700.0       0.00       0.00       1,600.0       0.0       0.045,028.36       866,188.33       32,1091560       -103,2841675         1,726.0       0.00       0.00       1,726.0       0.0       0.0       405,028.36       866,188.33       32,1091560       -103,2841675         1,900.0       0.00       0.00       1,800.0       0.0       0.0       405,028.36       866,188.33       32,1091560       -103,2841675         1,900.0       0.00       0.00       0.00       405,028.36       866,188.33       32,1091560       -103,2841675         2,100.0       2.00       1,74.98       2,100.0       -1.7       0.2       405,026.62       866,188.33       32,1091560       -103,2841675         2,100.0       2.00       174.98       2,100.0       -1.7       0.2       405,026.62       866,188.48       32,1091560       -103,2841675         2,100.0       3.82       174.98       2,190.8       -6.3<	1,200.0	0.00	0.00	1,200.0	0.0	0.0	405,028.36	866,188.33	32.1091560	-103.2841679
1,900.0       0.00       1,900.0       0.00       405,028,36       866,188,33       32,1091560       -103,2241675         1,600.0       0.00       1,600.0       0.0       0.0       405,028,36       866,188,33       32,1091560       -103,2241675         1,700.0       0.00       0.00       1,700.0       0.00       0.00       405,028,36       866,188,33       32,1091560       -103,2241675         1,728.0       0.00       0.00       1,776.0       0.0       0.0       405,028,36       866,188,33       32,1091560       -103,2241675         2,000.0       0.00       1,800.0       0.0       0.0       405,028,36       866,188,33       32,1091560       -103,2241675         2,000.0       0.00       0.00       0.00       0.00       405,028,36       866,188,33       32,1091560       -103,2241675         2,100.0       2.00       1,74,98       2,100.0       -1.7       0.2       405,028,62       866,188,48       32,1091560       -103,22416675         2,110.0       2.00       1,74,98       2,199.8       -6.3       0.6       405,022.02       866,188,48       32,1091580       -103,2241667         2,100.0       3.82       174,98       2,199.8       -6.3       0.6	1,300.0	0.00	0.00	1,300.0	0.0	0.0	405,028.36	866,188.33	32.1091560	-103.2841679
1,800.0       0.00       1,800.0       0.0       405,028,36       866,188,33       32,1091560       -103,2241675         1,700.0       0.00       1,700.0       0.0       1,00,028,36       866,188,33       32,1091560       -103,2241675         1,720.0       0.00       1,726.0       0.00       0.0       405,028,36       866,188,33       32,1091560       -103,2241675         1,800.0       0.00       1,800.0       0.0       0.0       405,028,36       866,188,33       32,1091560       -103,2841675         2,000.0       0.00       1,900.0       0.00       0.00       405,028,36       866,188,33       32,1091560       -103,2841675         2,100.0       2,000.0       0.00       0.00       405,028,36       866,188,33       32,1091560       -103,2841675         2,100.0       2,00       1,409,00       -1.7       0.2       405,028,62       866,188,48       32,1091560       -103,2841675         2,100.0       3,82       174,98       2,190.8       -6.3       0.6       405,022,02       866,188,48       32,1091560       -103,2841675         2,400.0       3,82       174,98       2,199.8       -6.0       0.6       405,021,42       866,198,49       32,1091369       -103,	1,400.0	0.00	0.00	1,400.0	0.0	0.0	405,028.36	800,188.33	32.1091560	-103.2841679
1,000.0 0.00 1,700.0 0.0 1,700.0 0.0 0.0 405,028.36 866,188.33 32.1091560 -103.2241677 1,726.0 0.00 0.00 1,726.0 0.0 0.0 405,028.36 866,188.33 32.1091560 -103.2241677 1,800.0 0.00 0.00 1,900.0 0.0 0.0 405,028.36 866,188.33 32.1091560 -103.2241677 1,900.0 0.00 0.00 1,900.0 0.0 0.0 405,028.36 866,188.33 32.1091560 -103.2241677 2,000.0 0.00 0.00 0.00 1,900.0 0.0 0.0 405,028.36 866,188.33 32.1091560 -103.2241677 2,000.0 0.00 0.00 0.00 -1.7 0.2 405,026.38 866,188.33 32.1091560 -103.2241677 2,100.0 2.00 174.98 2,100.0 -1.7 0.2 405,026.62 866,188.48 32.1091512 -103.2841675 2,100.0 3.82 174.98 2,190.8 -6.3 0.6 405,022.02 866,188.88 32.1091586 -103.2241675 2,200.0 3.82 174.98 2,190.8 -6.9 0.6 405,021.42 866,189.52 32.1091386 -103.2841663 5tart 8584.1 hold at 2191.0 MD 2,200.0 3.82 174.98 2,299.6 -13.6 1.2 405,014.78 866,190.10 32.1091004 -103.2841662 2,400.0 3.82 174.98 2,299.6 -13.6 1.2 405,014.18 866,190.10 32.1091004 -103.2841662 2,600.0 3.82 174.98 2,499.2 -26.8 2.4 405,001.18 866,190.10 32.1091004 -103.2841628 2,600.0 3.82 174.98 2,499.2 -26.8 2.4 405,001.18 866,191.27 32.1090632 -103.2841628 2,600.0 3.82 174.98 2,699.7 -40.1 3.5 404,988.24 866,191.85 32.1090457 -103.284158 2,700.0 3.82 174.98 2,699.7 -40.1 3.5 404,988.24 866,191.85 32.1090457 -103.284158 3,000.0 3.82 174.98 3,097.8 -667 5.9 404,948.24 866,191.85 32.1090457 -103.284158 3,000.0 3.82 174.98 3,097.8 -667 5.9 404,961.70 866,194.18 32.1099274 -103.284154 3,000.0 3.82 174.98 3,097.8 -667 5.9 404,961.70 866,194.18 32.1099274 -103.2841494 3,000.0 3.82 174.98 3,097.8 -667 5.9 404,946.82 866,195.50 32.1089804 -103.2841484 3,000.0 3.82 174.98 3,097.8 -667 5.9 404,961.70 866,194.18 32.108977 -103.2841484 3,000.0 3.82 174.98 3,097.8 -667 5.9 404,961.70 866,194.18 32.108974 +103.2841484 3,000.0 3.82 174.98 3,097.8 -667 5.9 404,961.70 866,194.18 32.108974 +103.2841484 3,000.0 3.82 174.98 3,097.8 -667 5.9 404,961.86 86,195.65 32.1089261 -103.2841484 3,000.0 3.82 174.98 3,297.4 -79.9 7.0 404,948.8 866,195.63 32.10898261 -103.2841484 3,000.0	1,500.0		0.00	1,500.0	0.0	0.0	405,028.30	866 188 33	32.1091560	-103.2841679
1,726.0 0.00 0.00 1,726.0 0.0 0.0 405,028.36 866,188.33 32.1091560 -103.2841675 <b>Salado</b> 1,800.0 0.00 0.00 1,800.0 0.0 0.0 405,028.36 866,188.33 32.1091560 -103.2841675 2,000.0 0.00 0.00 2,000.0 0.0 0.0 405,028.36 866,188.33 32.1091560 -103.2841675 <b>Start Build 2.00</b> 2,100.0 2,000 149.90.8 -1.7 0.2 405,026.26 866,188.48 32.1091560 -103.2841675 2,191.0 3.82 174.98 2,190.8 -6.9 0.6 405,022.02 866,188.88 32.1091512 -103.28416675 2,200.0 3.82 174.98 2,199.8 -6.9 0.6 405,021.42 866,188.58 32.1091512 -103.2841662 2,200.0 3.82 174.98 2,299.6 -13.6 1.2 405,014.78 866,189.52 32.1091187 -103.2841642 2,400.0 3.82 174.98 2,299.4 -20.2 1.8 405,008.15 866,190.10 32.1091004 -103.2841642 2,500.0 3.82 174.98 2,299.4 -20.2 1.8 405,008.15 866,190.10 32.1091004 -103.2841642 2,600.0 3.82 174.98 2,299.4 -20.2 1.8 405,008.15 866,190.10 32.1091004 -103.2841642 2,600.0 3.82 174.98 2,299.4 -20.2 1.8 405,008.15 866,190.10 32.1091004 -103.2841642 2,600.0 3.82 174.98 2,499.2 -26.8 2.4 405,001.51 866,190.10 32.1091004 -103.2841642 2,600.0 3.82 174.98 2,499.2 -26.8 1.4 405,014.78 866,191.85 32.1090457 -103.2841642 2,600.0 3.82 174.98 2,698.3 -53.4 4.7 404,984.87 866,191.85 32.1090457 -103.2841561 2,600.0 3.82 174.98 2,698.3 -53.4 4.7 404,984.87 866,191.27 32.1090639 -103.2841561 2,600.0 3.82 174.98 3,097.8 -66.7 5.9 404,981.60 866,192.43 32.1090457 -103.2841561 2,600.0 3.82 174.98 3,397.6 -7.3 6.4 404,981.60 866,192.43 32.1090457 -103.2841541 3,000.0 3.82 174.98 3,397.6 -7.3 6.4 404,981.60 866,194.76 32.1089804 -103.2841474 3,300.0 3.82 174.98 3,397.2 -86.6 7.6 404,941.79 866,194.76 32.1089844 -103.2841474 3,400.0 3.82 174.98 3,397.2 -86.6 7.6 404,941.88 866,197.67 32.1089844 -103.2841474 3,500.0 3.82 174.98 3,397.2 -86.6 7.6 404,941.88 866,197.67 32.1089844 -103.2841474 3,500.0 3.82 174.98 3,397.2 -86.6 7.6 404,941.88 866,197.67 32.1088131 -103.28414474 3,500.0 3.82 174.98 3,397.2 -86.6 7.6 404,941.88 866,197.67 32.1088131 -103.2841474 3,500.0 3.82 174.98 3,395.0 -121.7 10.7 404,906.69 866,199.40 32.1089449 -103.284	1,000.0		0.00	1,000.0	0.0	0.0	405,028.30	866 188 33	32.1091560	-103.2041079
Salado         1.800         0.00         1.800         0.00         405,028.36         866,188.33         32.1091560         -103.2841675           1,900.0         0.00         0.00         1.900.0         0.0         0.00         405,028.36         866,188.33         32.1091560         -103.2841675           2,000.0         0.00         0.00         405,028.36         866,188.33         32.1091560         -103.2841675           2,100.0         2.00         174.98         2,190.8         -6.3         0.6         405,022.02         866,188.48         32.1091560         -103.2841667           2,100.0         3.82         174.98         2,199.6         -13.6         1.2         405,021.42         866,188.48         32.1091369         -103.2841663           2,300.0         3.82         174.98         2,399.4         -20.2         1.8         405,001.51         866,190.0         32.1091187         -103.2841642           2,600.0         3.82         174.98         2,699.0         -33.5         2.9         404,948.47         866,191.27         32.109104         -103.2841628           2,600.0         3.82         174.98         2,798.5         -46.8         4.1         404,981.60         866,191.77         32.1090639	1 726 (	0.00	0.00	1,700.0	0.0	0.0	405,028.30	866 188 33	32 1091560	-103 2841679
1,800.0       0.00       1,800.0       0.0       405,028.36       866,188.33       32.1091560       -103.2841675         2,000.0       0.00       0.00       0.00       0.00       1.03.2041675       -103.2841675         Start Build 2.00       2.00       0.00       0.00       0.00       405,028.36       866,188.33       32.1091560       -103.2841675         2,100.0       2.00       174.98       2,100.0       -1.7       0.2       405,022.02       866,188.48       32.1091560       -103.2841675         2,100.0       3.82       174.98       2,199.8       -6.9       0.6       405,022.02       866,188.48       32.1091369       -103.2841665         2,200.0       3.82       174.98       2,199.8       -6.9       0.6       405,021.42       866,188.54       32.1091369       -103.2841665         2,300.0       3.82       174.98       2,399.4       -20.2       1.8       405,001.51       866,190.63       21091004       -103.2841625         2,500.0       3.82       174.98       2,698.7       -40.1       3.5       404,984.87       866,191.85       32.1090639       -103.2841625         2,600.0       3.82       174.98       2,698.7       -40.1       3.5       40	Salado	)	0.00	.,0.0	0.0	0.0	,	,	02.100.000	10012011010
1,900.0       0.00       0.00       1,900.0       0.0       405,028.36       866,188.33       32.1091560       -103.2841675         2,000.0       0.00       0.00       405,028.36       866,188.33       32.1091560       -103.2841675         2,100.0       2.00       174.98       2,100.0       -1.7       0.2       405,028.62       866,188.48       32.1091512       -103.2841675         2,191.0       3.82       174.98       2,190.8       -6.3       0.6       405,022.02       866,188.48       32.1091366       -103.28416675         2,200.0       3.82       174.98       2,199.8       -6.9       0.6       405,021.42       866,189.52       32.1091369       -103.28416675         2,400.0       3.82       174.98       2,99.6       -3.6       1.2       405,014.78       866,199.52       32.109104       -103.2841626         2,600.0       3.82       174.98       2,99.6       -33.5       2.9       404,994.87       866,191.63       32.1090639       -103.2841626         2,600.0       3.82       174.98       2,698.7       -40.1       3.5       404,988.24       866,191.85       32.1090437       -103.2841562         2,600.0       3.82       174.98       2,698.1	1,800.0	0.00	0.00	1,800.0	0.0	0.0	405,028.36	866,188.33	32.1091560	-103.2841679
2,000.0         0.00         2,000.0         0.0         405,028.36         866,188.33         32.1091560         -103.2841675           Start Build 2.00         74.98         2,100.0         -1.7         0.2         405,026.62         866,188.48         32.1091560         -103.2841675           2,191.0         3.82         174.98         2,190.8         -6.3         0.6         405,022.02         866,188.48         32.1091386         -103.2841663           Start 858.1 hold at 2191.0 MD         2         20.00         3.82         174.98         2,299.6         -13.6         1.2         405,014.78         866,189.52         32.1091187         -103.2841661           2,000.0         3.82         174.98         2,399.4         -20.2         1.8         405,001.5         866,190.10         32.109004         -103.2841661           2,600.0         3.82         174.98         2,599.0         -33.5         2.9         404,994.87         866,191.27         32.1090639         -103.2841661           2,600.0         3.82         174.98         2,698.7         -40.1         3.5         404,981.4         866,191.27         32.1090639         -103.2841561           2,600.0         3.82         174.98         2,898.3         -53.4	1,900.0	0.00	0.00	1,900.0	0.0	0.0	405,028.36	866,188.33	32.1091560	-103.2841679
Start Build 2.00           2,100.0         2.00         174.98         2,190.8         -6.3         0.6         405,026.62         866,188.48         32.1091512         -103.2841675           2,191.0         3.82         174.98         2,199.8         -6.3         0.6         405,022.02         866,188.48         32.1091386         -103.2841665           Start 8584.1 hold at 2191.0 MD         2.200.0         3.82         174.98         2.299.6         -13.6         1.2         405,014.78         866,188.52         32.1091187         -103.2841664           2,400.0         3.82         174.98         2,499.2         -26.8         2.4         405,001.51         866,190.10         32.1090042         -103.2841664           2,600.0         3.82         174.98         2,599.0         -33.5         2.9         404,994.87         866,191.27         32.10900457         -103.2841564           2,600.0         3.82         174.98         2,698.7         -40.1         3.5         404,988.24         866,191.27         32.1090457         -103.2841564           2,600.0         3.82         174.98         2,898.3         -53.4         4.7         404,974.97         866,193.01         32.1090274         -103.2841564	2,000.0	0.00	0.00	2,000.0	0.0	0.0	405,028.36	866,188.33	32.1091560	-103.2841679
2,100.0 2.00 174.98 2,100.0 -1.7 0.2 405,026.62 866,188.48 32.1091512 -103.2841675 2,191.0 3.82 174.98 2,190.8 -6.3 0.6 405,021.02 866,188.88 32.1091386 -103.2841663 32,00.0 3.82 174.98 2,299.6 -13.6 1.2 405,014.78 866,189.52 32.1091369 -103.2841645 2,400.0 3.82 174.98 2,399.4 -20.2 1.8 405,008.18 866,190.10 32.1091004 -103.2841645 2,500.0 3.82 174.98 2,399.4 -20.2 1.8 405,008.15 866,190.16 32.1091004 -103.2841645 2,500.0 3.82 174.98 2,599.0 -33.5 2.9 404,994.87 866,191.27 32.1090639 -103.2841565 2,700.0 3.82 174.98 2,698.7 -40.1 3.5 404,984.87 866,191.27 32.1090639 -103.2841565 2,800.0 3.82 174.98 2,698.7 -40.1 3.5 404,984.87 866,191.85 32.1090457 -103.2841565 2,800.0 3.82 174.98 2,798.5 -46.8 4.1 404,981.60 866,192.43 32.1090274 -103.2841565 2,800.0 3.82 174.98 2,988.3 -53.4 4.7 404,974.97 866,193.10 32.1090092 -103.2841545 3,100.0 3.82 174.98 3,097.8 -66.7 5.9 404,961.70 866,193.10 32.1090092 -103.2841545 3,100.0 3.82 174.98 3,097.8 -66.7 5.9 404,961.70 866,194.18 32.108909 -103.2841545 3,100.0 3.82 174.98 3,097.8 -66.7 5.9 404,961.70 866,194.18 32.1089727 -103.2841545 3,100.0 3.82 174.98 3,097.8 -66.7 5.9 404,961.70 866,194.18 32.1089544 -103.284154 3,000.0 3.82 174.98 3,097.8 -66.7 5.9 404,961.70 866,194.18 32.1089544 -103.284154 3,300.0 3.82 174.98 3,397.6 -73.3 6.4 404,955.06 866,194.76 32.1089544 -103.284154 3,300.0 3.82 174.98 3,397.6 -73.3 6.4 404,955.06 866,195.34 32.1089544 -103.2841454 3,300.0 3.82 174.98 3,397.6 -79.9 7.0 404,948.48 866,195.56 32.1089544 -103.2841444 3,600.0 3.82 174.98 3,397.0 -93.2 8.2 404,955.15 866,196.51 32.1088961 -103.2841444 3,600.0 3.82 174.98 3,397.0 -93.2 8.2 404,935.15 866,197.67 32.1088541 -103.2841467 3,500.0 3.82 174.98 3,965.5 -106.5 9.3 404,968.52 866,197.67 32.1088414 -103.2841467 3,500.0 3.82 174.98 3,965.5 -106.5 9.3 404,925.25 866,197.67 32.1088611 -103.2841427 3,700.0 3.82 174.98 3,995.8 -126.4 11.1 404,901.97 866,198.48 32.1088611 -103.2841437 3,900.0 3.82 174.98 3,995.8 -126.4 11.1 404,901.97 866,199.42 32.1088084 -103.2841347 4,000.0 3.82 174.98 3,995.8 -1	Start B	Build 2.00								
2,191.0       3.82       174.98       2,190.8       -6.3       0.6       405,022.02       866,188.88       32.1091386       -103.2841663         2,200.0       3.82       174.98       2,299.6       -13.6       1.2       405,014.78       866,188.94       32.1091386       -103.2841661         2,300.0       3.82       174.98       2,299.6       -13.6       1.2       405,014.78       866,189.52       32.109104       -103.2841661         2,400.0       3.82       174.98       2,499.2       -26.8       2.4       405,001.51       866,190.68       32.1090822       -103.2841611         2,600.0       3.82       174.98       2,698.7       -40.1       3.5       404,984.87       866,191.85       32.1090639       -103.2841561         2,600.0       3.82       174.98       2,698.3       -53.4       4.7       404,981.60       866,191.85       32.1090274       -103.2841561         2,900.0       3.82       174.98       2,998.1       -60.0       5.3       404,968.33       866,193.60       32.1089099       -103.2841544         3,000.0       3.82       174.98       3,97.6       -73.3       6.4       404,961.70       866,194.18       32.1089544       -103.2841444	2,100.0	) 2.00	174.98	2,100.0	-1.7	0.2	405,026.62	866,188.48	32.1091512	-103.2841675
Start 8584.1 hold at 2191.0 MD           2,200.0         3.82         174.98         2,199.8         -6.9         0.6         405,021.42         866,188.94         32.1091369         -103.2841645           2,400.0         3.82         174.98         2,399.4         -20.2         1.8         405,008.15         866,190.10         32.1091187         -103.2841645           2,400.0         3.82         174.98         2,399.4         -20.2         1.8         405,008.15         866,190.10         32.1091004         -103.2841645           2,500.0         3.82         174.98         2,599.0         -33.5         2.9         404,994.87         866,190.68         32.1090632         -103.2841565           2,700.0         3.82         174.98         2,698.7         -40.1         3.5         404,984.87         866,191.85         32.1090457         -103.2841561           2,800.0         3.82         174.98         2,988.3         -53.4         4.7         404,974.97         866,192.43         32.1090092         -103.2841561           2,900.0         3.82         174.98         3,097.8         -66.7         5.9         404,965.06         866,192.43         32.1089029         -103.2841542           3,100.0         3.82	2,191.0	) 3.82	174.98	2,190.8	-6.3	0.6	405,022.02	866,188.88	32.1091386	-103.2841663
2,200.0       3.82       174.96       2,199.6       -13.6       1.2       405,021.42       806,189.52       32.10918369       -103.2841645         2,400.0       3.82       174.98       2,399.4       -20.2       1.8       405,008.15       866,190.10       32.1091004       -103.2841645         2,500.0       3.82       174.98       2,499.2       -26.8       2.4       405,001.51       866,190.68       32.1090639       -103.2841645         2,600.0       3.82       174.98       2,698.7       -40.1       3.5       404,994.87       866,191.27       32.1090639       -103.2841576         2,800.0       3.82       174.98       2,698.7       -40.1       3.5       404,988.24       866,191.25       32.1090457       -103.2841576         2,800.0       3.82       174.98       2,988.3       -53.4       4.7       404,981.60       866,192.43       32.1090274       -103.2841574         2,900.0       3.82       174.98       2,998.1       -60.0       5.3       404,968.33       866,193.01       32.1089909       -103.2841574         3,000.0       3.82       174.98       3,097.8       -66.7       5.9       404,961.70       866,193.66       32.1089954       -103.2841464      3	Start 8	584.1 hold a	t 2191.0 ME	<b>)</b>	6.0	0.6	405 001 40	966 199 04	22 1001260	102 0044664
2,400.0       3.82       174.98       2,399.4       -20.2       1.8       405,014.76       566,190.10       32.1091004       -103.2841622         2,500.0       3.82       174.98       2,499.2       -26.8       2.4       405,001.51       866,190.10       32.1091004       -103.2841622         2,600.0       3.82       174.98       2,599.0       -33.5       2.9       404,948.27       866,191.27       32.1090039       -103.2841595         2,700.0       3.82       174.98       2,798.5       -46.8       4.1       404,981.60       866,192.43       32.10900274       -103.2841516         2,900.0       3.82       174.98       2,798.5       -46.7       5.9       404,974.97       866,193.01       32.1090092       -103.2841516         3,000.0       3.82       174.98       2,998.1       -60.0       5.3       404,961.30       32.1089009       -103.2841516         3,000.0       3.82       174.98       3,907.8       -66.7       5.9       404,961.70       866,194.18       32.1089361       -103.2841424         3,300.0       3.82       174.98       3,97.4       -79.9       7.0       404,944.82       866,195.66       32.1089361       -103.2841444         3,600.0	2,200.0	) 3.02	174.90	2,199.0	-0.9	0.0	405,021.42	000,100.94 866 180 52	32.1091309	-103.2041001
2,400.5       5.02       174.98       2,593.4       -26.8       2.4       405,001.51       806,190.16       32.10910822       -103.2841611         2,600.0       3.82       174.98       2,698.7       -40.1       3.5       2.9       404,994.87       866,191.85       32.1090639       -103.2841611         2,600.0       3.82       174.98       2,698.7       -40.1       3.5       404,988.24       866,191.85       32.10900457       -103.2841547         2,800.0       3.82       174.98       2,698.7       -40.1       3.5       404,988.24       866,192.43       32.1090027       -103.2841544         2,900.0       3.82       174.98       2,998.1       -60.0       5.3       404,967.37       866,193.01       32.1090092       -103.2841544         3,000.0       3.82       174.98       3,097.8       -66.7       5.9       404,961.70       866,194.16       32.1089544       -103.2841474         3,200.0       3.82       174.98       3,977.6       -73.3       6.4       404,955.06       866,194.76       32.1089544       -103.2841474         3,300.0       3.82       174.98       3,397.2       -86.6       7.6       404,941.79       866,195.66       32.1089179       -103.2841474	2,300.0	) 3.02	174.90	2,299.0	-13.0	1.2	405,014.78	866 100 10	32.1091107	-103.2041043
2,600.0       3.82       174.98       2,599.0       -33.5       2.9       404,994.87       866,191.27       32.1090639       -103.2841595         2,700.0       3.82       174.98       2,698.7       -40.1       3.5       404,988.24       866,191.27       32.1090639       -103.2841595         2,800.0       3.82       174.98       2,798.5       -46.8       4.1       404,981.60       866,193.01       32.10900274       -103.2841544         2,900.0       3.82       174.98       2,998.1       -60.0       5.3       404,961.70       866,193.01       32.1090092       -103.2841524         3,000.0       3.82       174.98       3,097.8       -66.7       5.9       404,961.70       866,194.18       32.1089909       -103.28414544         3,200.0       3.82       174.98       3,197.6       -73.3       6.4       404,955.06       866,194.76       32.1089361       -103.2841494         3,300.0       3.82       174.98       3,397.2       -86.6       7.6       404,941.79       866,195.34       32.1089361       -103.2841444         3,600.0       3.82       174.98       3,596.7       -99.8       8.8       404,925.5       866,197.67       32.1088944       -103.2841424      3	2,400.0	) 3.82	174.90	2,399.4	-20.2	2.4	405,000.13	866 190 68	32 109 1004	-103 2841611
2,700.0       3.82       174.98       2,698.7       -40.1       3.5       404,988.24       866,191.85       32.1090457       -103.2841576         2,800.0       3.82       174.98       2,798.5       -46.8       4.1       404,981.60       866,192.43       32.1090274       -103.2841561         2,900.0       3.82       174.98       2,998.3       -53.4       4.7       404,974.97       866,193.01       32.1090092       -103.2841544         3,000.0       3.82       174.98       2,998.1       -60.0       5.3       404,968.33       866,193.01       32.1089099       -103.2841514         3,000.0       3.82       174.98       3,097.8       -66.7       5.9       404,961.70       866,194.18       32.108977       -103.28414228         3,200.0       3.82       174.98       3,297.4       -79.9       7.0       404,948.42       866,195.34       32.1089361       -103.2841447         3,300.0       3.82       174.98       3,397.0       -83.5       7.3       404,941.79       866,195.66       32.1089263       -103.2841446         3,600.0       3.82       174.98       3,497.0       -93.2       8.2       404,935.15       866,196.51       32.1089361       -103.2841444	2,000.0	) 3.82	174.00	2,400.2	-33.5	2.4	404 994 87	866 191 27	32 1090639	-103 2841595
2,800.0       3.82       174.98       2,798.5       -46.8       4.1       404,981.60       866,192.43       32.1090274       -103.2841561         2,900.0       3.82       174.98       2,898.3       -53.4       4.7       404,974.97       866,193.01       32.1090092       -103.2841544         3,000.0       3.82       174.98       2,998.1       -60.7       5.9       404,968.33       866,193.60       32.1089909       -103.2841528         3,100.0       3.82       174.98       3,097.8       -66.7       5.9       404,965.06       866,194.18       32.1089727       -103.2841572         3,200.0       3.82       174.98       3,197.6       -73.3       6.4       404,955.06       866,195.64       32.1089544       -103.2841474         3,300.0       3.82       174.98       3,297.4       -79.9       7.0       404,948.42       866,195.66       32.1089361       -103.2841474         3,500.0       3.82       174.98       3,397.2       -86.6       7.6       404,941.79       866,195.93       32.1089179       -103.2841444         3,600.0       3.82       174.98       3,696.7       -99.8       8.8       404,928.52       866,197.69       32.1088631       -103.2841444	2,700.0	) 3.82	174.98	2.698.7	-40.1	3.5	404.988.24	866.191.85	32.1090457	-103.2841578
2,900.0       3.82       174.98       2,898.3       -53.4       4.7       404,974.97       866,193.01       32.1090092       -103.2841544         3,000.0       3.82       174.98       2,998.1       -60.0       5.3       404,968.33       866,193.60       32.1089909       -103.2841528         3,100.0       3.82       174.98       3,097.8       -66.7       5.9       404,961.70       866,194.18       32.1089727       -103.2841511         3,200.0       3.82       174.98       3,197.6       -73.3       6.4       404,955.06       866,194.76       32.1089544       -103.2841494         3,300.0       3.82       174.98       3,297.4       -79.9       7.0       404,944.86       866,195.54       32.1089361       -103.2841494         3,300.0       3.82       174.98       3,397.2       -86.6       7.6       404,941.79       866,195.66       32.1089263       -103.2841461         3,500.0       3.82       174.98       3,497.0       -93.2       8.2       404,935.15       866,196.51       32.1088149       -103.28414427         3,600.0       3.82       174.98       3,596.7       -99.8       8.8       404,928.52       866,197.67       32.1088631       -103.28414427	2,800.0	3.82	174.98	2,798.5	-46.8	4.1	404,981.60	866,192.43	32.1090274	-103.2841561
3,000.0       3.82       174.98       2,998.1       -60.0       5.3       404,968.33       866,193.60       32.1089909       -103.2841528         3,100.0       3.82       174.98       3,097.8       -66.7       5.9       404,961.70       866,194.18       32.1089727       -103.2841511         3,200.0       3.82       174.98       3,197.6       -73.3       6.4       404,955.06       866,194.76       32.1089544       -103.2841494         3,300.0       3.82       174.98       3,297.4       -79.9       7.0       404,948.42       866,195.34       32.1089361       -103.2841468         3,351.7       3.82       174.98       3,397.2       -86.6       7.6       404,944.86       866,195.66       32.1089263       -103.2841468         Tansill       9	2,900.0	) 3.82	174.98	2,898.3	-53.4	4.7	404,974.97	866,193.01	32.1090092	-103.2841544
3,100.0       3.82       174.98       3,097.8       -66.7       5.9       404,961.70       866,194.18       32.1089727       -103.2841511         3,200.0       3.82       174.98       3,197.6       -73.3       6.4       404,955.06       866,194.76       32.1089544       -103.2841494         3,300.0       3.82       174.98       3,297.4       -79.9       7.0       404,948.42       866,195.34       32.1089361       -103.2841468         Tansill         3,400.0       3.82       174.98       3,397.2       -86.6       7.6       404,941.79       866,195.93       32.1089179       -103.2841468         3,600.0       3.82       174.98       3,497.0       -93.2       8.2       404,935.15       866,196.51       32.108996       -103.2841468         3,600.0       3.82       174.98       3,596.7       -99.8       8.8       404,928.52       866,197.09       32.108814       -103.2841441         3,600.0       3.82       174.98       3,696.5       -106.5       9.3       404,921.88       866,197.67       32.1088631       -103.2841441         3,800.0       3.82       174.98       3,796.3       -113.1       9.9       404,915.25       866,198.26 <t< td=""><td>3,000.0</td><td>) 3.82</td><td>174.98</td><td>2,998.1</td><td>-60.0</td><td>5.3</td><td>404,968.33</td><td>866,193.60</td><td>32.1089909</td><td>-103.2841528</td></t<>	3,000.0	) 3.82	174.98	2,998.1	-60.0	5.3	404,968.33	866,193.60	32.1089909	-103.2841528
3,200.0       3.82       174.98       3,197.6       -73.3       6.4       404,955.06       866,194.76       32.1089544       -103.2841494         3,300.0       3.82       174.98       3,297.4       -79.9       7.0       404,948.42       866,195.34       32.1089361       -103.2841477         3,353.7       3.82       174.98       3,351.0       -83.5       7.3       404,944.86       866,195.66       32.1089263       -103.2841468         7       3,400.0       3.82       174.98       3,397.2       -86.6       7.6       404,941.79       866,195.93       32.1089179       -103.2841461         3,500.0       3.82       174.98       3,497.0       -93.2       8.2       404,935.15       866,196.51       32.1089179       -103.2841461         3,600.0       3.82       174.98       3,596.7       -99.8       8.8       404,928.52       866,197.67       32.1088631       -103.28414427         3,700.0       3.82       174.98       3,696.5       -106.5       9.3       404,921.88       866,197.67       32.1088631       -103.28414141         3,800.0       3.82       174.98       3,796.3       -113.1       9.9       404,915.25       866,198.26       32.1088449       -103.2841360	3,100.0	) 3.82	174.98	3,097.8	-66.7	5.9	404,961.70	866,194.18	32.1089727	-103.2841511
3,300.0       3.82       174.98       3,297.4       -79.9       7.0       404,948.42       866,195.34       32.1089361       -103.2841477         3,353.7       3.82       174.98       3,351.0       -83.5       7.3       404,948.42       866,195.66       32.1089263       -103.2841468 <b>Tansill</b> 3,400.0       3.82       174.98       3,397.2       -86.6       7.6       404,941.79       866,195.93       32.1089179       -103.2841461         3,500.0       3.82       174.98       3,497.0       -93.2       8.2       404,935.15       866,196.51       32.1088996       -103.2841444         3,600.0       3.82       174.98       3,596.7       -99.8       8.8       404,928.52       866,197.09       32.1088631       -103.2841447         3,600.0       3.82       174.98       3,696.5       -106.5       9.3       404,921.88       866,197.67       32.1088631       -103.2841427         3,700.0       3.82       174.98       3,796.3       -113.1       9.9       404,915.25       866,198.26       32.1088449       -103.2841377         3,900.0       3.82       174.98       3,925.0       -121.7       10.7       404,908.61       866,199.01       32.1	3,200.0	) 3.82	174.98	3,197.6	-73.3	6.4	404,955.06	866,194.76	32.1089544	-103.2841494
3,353.7       3.82       174.98       3,351.0       -83.5       7.3       404,944.86       866,195.66       32.1089263       -103.2841468         Tansill       3,400.0       3.82       174.98       3,397.2       -86.6       7.6       404,941.79       866,195.93       32.1089179       -103.2841461         3,500.0       3.82       174.98       3,497.0       -93.2       8.2       404,935.15       866,196.51       32.1088996       -103.2841444         3,600.0       3.82       174.98       3,596.7       -99.8       8.8       404,928.52       866,197.09       32.1088631       -103.2841444         3,600.0       3.82       174.98       3,696.5       -106.5       9.3       404,921.88       866,197.67       32.1088631       -103.2841441         3,800.0       3.82       174.98       3,796.3       -113.1       9.9       404,915.25       866,198.26       32.1088631       -103.2841394         3,900.0       3.82       174.98       3,896.1       -119.7       10.5       404,908.61       866,199.01       32.1088266       -103.2841377         3,929.0       3.82       174.98       3,995.0       -121.7       10.7       404,906.69       866,199.01       32.1088213       -103.2841	3,300.0	) 3.82	174.98	3,297.4	-79.9	7.0	404,948.42	866,195.34	32.1089361	-103.2841477
Tansill         3,400.0       3.82       174.98       3,397.2       -86.6       7.6       404,941.79       866,195.93       32.1089179       -103.2841461         3,500.0       3.82       174.98       3,497.0       -93.2       8.2       404,935.15       866,196.51       32.1088996       -103.2841444         3,600.0       3.82       174.98       3,596.7       -99.8       8.8       404,928.52       866,197.09       32.1088814       -103.2841444         3,600.0       3.82       174.98       3,696.5       -106.5       9.3       404,921.88       866,197.67       32.1088631       -103.2841441         3,800.0       3.82       174.98       3,796.3       -113.1       9.9       404,915.25       866,198.26       32.1088631       -103.2841394         3,900.0       3.82       174.98       3,896.1       -119.7       10.5       404,908.61       866,198.26       32.1088266       -103.2841377         3,929.0       3.82       174.98       3,925.0       -121.7       10.7       404,906.69       866,199.01       32.1088213       -103.2841372         Capitan         4,000.0       3.82       174.98       3,995.8       -126.4       11.1	3,353.7	3.82	174.98	3,351.0	-83.5	7.3	404,944.86	866,195.66	32.1089263	-103.2841468
3,400.0       3.62       174.98       3,397.2       -80.6       7.6       404,941.79       806,195.93       32.1089179       -103.2841444         3,500.0       3.82       174.98       3,497.0       -93.2       8.2       404,935.15       866,196.51       32.1088996       -103.2841444         3,600.0       3.82       174.98       3,596.7       -99.8       8.8       404,928.52       866,197.09       32.1088814       -103.28414427         3,700.0       3.82       174.98       3,696.5       -106.5       9.3       404,921.88       866,197.67       32.1088631       -103.2841441         3,800.0       3.82       174.98       3,796.3       -113.1       9.9       404,915.25       866,198.26       32.1088649       -103.2841394         3,900.0       3.82       174.98       3,896.1       -119.7       10.5       404,908.61       866,198.26       32.1088266       -103.2841377         3,929.0       3.82       174.98       3,995.0       -121.7       10.7       404,906.69       866,199.01       32.1088264       -103.2841367         4,000.0       3.82       174.98       3,995.8       -126.4       11.1       404,901.97       866,199.42       32.1088084       -103.2841360	Tansill		174.00	2 207 2	96.6	7.6	404 044 70	966 10F 02	22 1020170	102 2041461
3,500.0       3.62       174.98       3,497.0       -93.2       6.2       404,933.13       500,193.11       32.1086990       -103.2841427         3,600.0       3.82       174.98       3,596.7       -99.8       8.8       404,928.52       866,197.09       32.1088814       -103.2841427         3,700.0       3.82       174.98       3,696.5       -106.5       9.3       404,921.88       866,197.67       32.1088631       -103.2841411         3,800.0       3.82       174.98       3,796.3       -113.1       9.9       404,915.25       866,198.26       32.1088631       -103.2841394         3,900.0       3.82       174.98       3,896.1       -119.7       10.5       404,908.61       866,198.26       32.1088266       -103.2841377         3,929.0       3.82       174.98       3,925.0       -121.7       10.7       404,906.69       866,199.01       32.1088213       -103.2841372         Capitan         4,000.0       3.82       174.98       3,995.8       -126.4       11.1       404,901.97       866,199.42       32.1088084       -103.2841360         4,100.0       3.82       174.98       4,095.6       -133.0       11.7       404,895.34       866,200.00	3,400.0	) 3.02	174.90	3,397.2	-00.0	7.0	404,941.79	000, 190.93 866 106 51	32.1009179	-103.2041401
3,000.0       3.82       174.98       3,696.5       -106.5       9.3       404,921.88       866,197.67       32.1088631       -103.2841411         3,800.0       3.82       174.98       3,796.3       -113.1       9.9       404,915.25       866,198.26       32.1088631       -103.2841411         3,900.0       3.82       174.98       3,896.1       -119.7       10.5       404,908.61       866,198.26       32.1088266       -103.2841394         3,900.0       3.82       174.98       3,896.1       -119.7       10.5       404,908.61       866,198.26       32.1088266       -103.2841377         3,929.0       3.82       174.98       3,925.0       -121.7       10.7       404,906.69       866,199.01       32.1088213       -103.2841372         Capitan         4,000.0       3.82       174.98       3,995.8       -126.4       11.1       404,901.97       866,199.42       32.1088084       -103.2841360         4,100.0       3.82       174.98       3,095.6       -133.0       11.7       404,895.34       866,200.00       32.1087901       -103.2841344         4,200.0       3.82       174.98       4,095.6       -133.0       11.7       404,895.34       866,200.00	3,500.0	) 3.02	174.90	3,497.0	-95.2	8.8	404,933.13	866 197 09	32 1088814	-103.2041444
3,800.0       3.82       174.98       3,796.3       -113.1       9.9       404,915.25       866,198.26       32.1088449       -103.2841394         3,900.0       3.82       174.98       3,896.1       -119.7       10.5       404,915.25       866,198.26       32.1088449       -103.2841394         3,929.0       3.82       174.98       3,925.0       -121.7       10.7       404,906.69       866,199.01       32.1088213       -103.2841372         Capitan         4,000.0       3.82       174.98       3,995.8       -126.4       11.1       404,901.97       866,199.42       32.1088084       -103.2841360         4,100.0       3.82       174.98       4,095.6       -133.0       11.7       404,895.34       866,200.00       32.1087901       -103.2841360         4,200.0       3.82       174.98       4,095.6       -133.0       11.7       404,895.34       866,200.00       32.1087901       -103.2841344         4,200.0       3.82       174.98       4,195.4       -139.7       12.3       404,895.34       866,200.00       32.1087719       -103.2841344	3 700 0	) 3.82	174.00	3 696 5	-106.5	9.3	404,020.02	866 197 67	32 1088631	-103 2841411
3,900.0       3.82       174.98       3,896.1       -119.7       10.5       404,908.61       866,198.84       32.1088266       -103.2841377         3,929.0       3.82       174.98       3,925.0       -121.7       10.7       404,906.69       866,199.01       32.1088213       -103.2841372         Capitan         4,000.0       3.82       174.98       3,995.8       -126.4       11.1       404,901.97       866,199.42       32.1088084       -103.2841360         4,100.0       3.82       174.98       4,095.6       -133.0       11.7       404,895.34       866,200.00       32.1087901       -103.2841344         4,200.0       3.82       174.98       4,095.6       -133.0       11.7       404,895.34       866,200.00       32.1087901       -103.2841344	3 800 0	) 3.82	174.00	3 796 3	-113 1	9.9	404,915,25	866 198 26	32 1088449	-103 2841394
3,929.0       3.82       174.98       3,925.0       -121.7       10.7       404,906.69       866,199.01       32.1088213       -103.2841372         Capitan         4,000.0       3.82       174.98       3,995.8       -126.4       11.1       404,901.97       866,199.42       32.1088084       -103.2841360         4,100.0       3.82       174.98       4,095.6       -133.0       11.7       404,895.34       866,200.00       32.1087901       -103.2841344         4 200.0       3.82       174.98       4,195.4       -139.7       12.3       404.888.70       866.200.05       32.1087719       -103.2841372	3.900.0	) 3.82	174.98	3.896.1	-119.7	10.5	404.908.61	866.198.84	32.1088266	-103.2841377
Capitan           4,000.0         3.82         174.98         3,995.8         -126.4         11.1         404,901.97         866,199.42         32.1088084         -103.2841360           4,100.0         3.82         174.98         4,095.6         -133.0         11.7         404,895.34         866,200.00         32.1087901         -103.2841344           4,200.0         3.82         174.98         4,195.4         -139.7         12.3         404.888.70         866,200.05         32.1087719         -103.2841347	3,929.0	3.82	174.98	3,925.0	-121.7	10.7	404,906.69	866,199.01	32.1088213	-103.2841372
4,000.0       3.82       174.98       3,995.8       -126.4       11.1       404,901.97       866,199.42       32.1088084       -103.2841360         4,100.0       3.82       174.98       4,095.6       -133.0       11.7       404,895.34       866,200.00       32.1087901       -103.2841344         4 200.0       3.82       174.98       4.195.4       -139.7       12.3       404,888.70       866,200.59       32.1087719       -103.2841347	Capita	n								
4,100.0 3.82 174.98 4,095.6 -133.0 11.7 404,895.34 866,200.00 32.1087901 -103.2841344 4 200.0 3.82 174.98 4 195.4 -139.7 12.3 404.888.70 866.200.59 32.1087719 -103.2841327	4,000.0	) 3.82	174.98	3,995.8	-126.4	11.1	404,901.97	866,199.42	32.1088084	-103.2841360
4 200 0 3 82 174 98 4 195 4 -139 7 12 3 404 888 70 866 200 59 32 1087710 -103 2841327	4,100.0	) 3.82	174.98	4,095.6	-133.0	11.7	404,895.34	866,200.00	32.1087901	-103.2841344
1,2010 0.02 117100 7,100.7 100.7 12.0 707,000.70 000,200.00 02.1007/10 -100.204102	4,200.0	3.82	174.98	4,195.4	-139.7	12.3	404,888.70	866,200.59	32.1087719	-103.2841327

10/10/2022 8:26:52AM

COMPASS 5000.16 Build 100



Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well Dogwood Fed Com 25-36-20 106H
Company:	Ameredev Operating	TVD Reference:	KB=26' @ 3082.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=26' @ 3082.0usft
Site:	Dogwood_AGI	North Reference:	Grid
Well:	Dogwood Fed Com 25-36-20 106H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB	-	
Design:	PRELIM#1		

### Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
4,300.0	3.82	174.98	4,295.2	-146.3	12.8	404,882.07	866,201.17	32.1087536	-103.2841310
4,400.0	3.82	174.98	4,395.0	-152.9	13.4	404,875.43	866,201.75	32.1087354	-103.2841294
4,500.0	3.82	174.98	4,494.7	-159.6	14.0	404,868.80	866,202.33	32.1087171	-103.2841277
4,600.0	3.82	174.98	4,594.5	-166.2	14.6	404,862.16	866,202.92	32.1086988	-103.2841260
4,700.0	3.82	174.98	4,694.3	-172.8	15.2	404,855.52	866,203.50	32.1086806	-103.2841243
4,800.0	3.82	174.98	4,794.1	-179.5	15.8	404,848.89	866,204.08	32.1086623	-103.2841227
4,900.0	3.82	174.98	4,893.8	-186.1	16.3	404,842.25	866,204.66	32.1086441	-103.2841210
5,000.0	3.82	174.98	4,993.6	-192.7	16.9	404,835.62	866,205.25	32.1086258	-103.2841193
5,080.0	3.82	174.98	5,073.4	-198.0	17.4	404,830.31	866,205.71	32.1086112	-103.2841180
5 085 6	38912 Exit a	at 5080.0 M	D 5 070 0	108 /	17 /	404 820 04	866 205 74	32 1086102	103 28/1170
5,065.0	3.02	174.90	5,079.0	-190.4	17.4	404,029.94	000,205.74	32.1000102	-103.2041179
5 100 0	3 82	174 98	5 093 4	-199.4	17.5	404 828 98	866 205 83	32 1086076	-103 2841176
5 200 0	3.82	174.00	5 193 2	-206.0	18.1	404 822 34	866 206 41	32 1085893	-103 2841160
5 242 9	3.82	174.00	5 236 0	-208.9	18.3	404 819 50	866 206 66	32 1085815	-103 2841153
Bell Ca	nvon	114.00	0,200.0	200.0	10.0	404,010.00	000,200.00	02.1000010	100.2041100
5.300.0	3.82	174.98	5.293.0	-212.6	18.7	404.815.71	866.206.99	32.1085711	-103.2841143
5,400.0	3.82	174.98	5,392.7	-219.3	19.2	404,809.07	866,207.58	32.1085528	-103.2841126
5,500.0	3.82	174.98	5,492.5	-225.9	19.8	404,802.44	866,208.16	32.1085346	-103.2841110
5,600.0	3.82	174.98	5,592.3	-232.6	20.4	404,795.80	866,208.74	32.1085163	-103.2841093
5,700.0	3.82	174.98	5,692.1	-239.2	21.0	404,789.17	866,209.32	32.1084981	-103.2841076
5,800.0	3.82	174.98	5,791.8	-245.8	21.6	404,782.53	866,209.91	32.1084798	-103.2841059
5,900.0	3.82	174.98	5,891.6	-252.5	22.2	404,775.89	866,210.49	32.1084615	-103.2841043
6,000.0	3.82	174.98	5,991.4	-259.1	22.7	404,769.26	866,211.07	32.1084433	-103.2841026
6,100.0	3.82	174.98	6,091.2	-265.7	23.3	404,762.62	866,211.65	32.1084250	-103.2841009
6,200.0	3.82	174.98	6,191.0	-272.4	23.9	404,755.99	866,212.24	32.1084068	-103.2840992
6,300.0	3.82	174.98	6,290.7	-279.0	24.5	404,749.35	866,212.82	32.1083885	-103.2840976
6,400.0	3.82	174.98	6,390.5	-285.6	25.1	404,742.72	866,213.40	32.1083703	-103.2840959
6,500.0	3.82	174.98	6,490.3	-292.3	25.7	404,736.08	866,213.98	32.1083520	-103.2840942
6,600.0	3.82	174.98	6,590.1	-298.9	26.2	404,729.44	866,214.57	32.1083338	-103.2840926
6,700.0	3.82	174.98	6,689.8	-305.5	26.8	404,722.81	866,215.15	32.1083155	-103.2840909
6,800.0	3.82	174.98	6,789.6	-312.2	27.4	404,716.17	866,215.73	32.1082973	-103.2840892
6,900.0	3.82	174.98	6,889.4	-318.8	28.0	404,709.54	866,216.31	32.1082790	-103.2840875
7,000.0	3.82	174.98	6,989.2	-325.5	28.6	404,702.90	866,216.90	32.1082608	-103.2840859
7,100.0	3.82	174.98	7,089.0	-332.1	29.2	404,696.27	866,217.48	32.1082425	-103.2840842
7,109.1	3.82	174.98	7,098.0	-332.7	29.2	404,695.66	866,217.53	32.1082408	-103.2840840
Brushy	Canyon	474.00	7 400 7	000 <del>-</del>	00 7	101 000 00	000 040 00	00 40000 40	100 00 10005
7,200.0	3.82	174.98	7,188.7	-338.7	29.7	404,689.63	866,218.06	32.1082242	-103.2840825
7,300.0	3.82	174.98	7,288.5	-345.4	30.3	404,682.99	866,218.64	32.1082060	-103.2840809
7,400.0	3.82	174.98	7,388.3	-352.0	30.9	404,676.36	866,219.23	32.1081877	-103.2840792
7,500.0	3.82	174.98	7,488.1	-358.6	31.5	404,669.72	866,219.81	32.1081695	-103.2840775
7,600.0	3.82	174.98	7,587.8	-365.3	32.1	404,663.09	866,220.39	32.1081512	-103.2840758
7,700.0	3.82	174.98	7,687.6	-371.9	32.6	404,656.45	866,220.97	32.1081330	-103.2840742
7,800.0	3.82	174.98	7,787.4	-378.5	33.2	404,649.81	866,221.56	32.1081147	-103.2840725
7,900.0	3.82	174.98	7,887.2	-385.2	33.8	404,643.18	866,222.14	32.1080965	-103.2840708
8,000.0	3.82	174.98	7,987.0	-391.8	34.4	404,030.54	800,222.72	32.1080782	-103.2840691
Bono S	J.02	174.90	0,004.0	-392.9	34.5	404,035.41	000,222.02	32.1000751	-103.2040009
8 100 0	3.82	174 98	8 086 7	-398.4	35.0	404 629 91	866 223 30	32 1080600	-103 2840675
8 200 0	3.82	174.98	8 186 5	-405 1	35.6	404 623 27	866 223 89	32 1080417	-103 2840658
8,200.0	3.82	174.98	8 286 3	-411 7	36.1	404 616 64	866 224 47	32 1080234	-103 2840641
8,400.0	3 82	174 98	8,386 1	-418 4	36.7	404,610,00	866,225.05	32,1080052	-103 2840625
8,500.0	3.82	174.98	8,485.8	-425.0	37.3	404,603,36	866.225.63	32,1079869	-103.2840608
8,600.0	3.82	174.98	8,585.6	-431.6	37.9	404,596.73	866,226.22	32.1079687	-103.2840591
,						,			

10/10/2022 8:26:52AM

COMPASS 5000.16 Build 100



Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well Dogwood Fed Com 25-36-20 106H
Company:	Ameredev Operating	TVD Reference:	KB=26' @ 3082.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=26' @ 3082.0usft
Site:	Dogwood_AGI	North Reference:	Grid
Well:	Dogwood Fed Com 25-36-20 106H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB	-	
Design:	PRELIM#1		

### Planned Survey

Depth         Inclination Azimuth         Depth         +H/S         +E/W         Northing         Easting           8,700.0         3.82         174.98         8.865.4         -438.3         38.5         404.590.09         866.228.80         32.107350.4         -103.240578           8,800.0         3.82         174.98         8.876.0         -441.5         39.6         404.676.82         866.227.98         32.107393         -103.240574           9,000.0         3.82         174.98         8.984.7         -488.2         404.656.55         886.229.13         32.1078774         -103.240574           9,000.0         3.82         174.98         9.948.4         -444.8         40.8         404.656.18         862.229.17         32.1078702         -103.240474           9,400.0         3.82         174.98         9.248.1         477.4         40.455.08         868.231.28         32.1078409         -103.2404474           9,600.0         3.82         174.98         9.480.5         -491.3         43.1         404.537.01         866.231.28         32.1078641         -103.2404474           9,600.0         3.82         174.98         9.880.2         -501.4         43.1         404.537.01         866.237.12         21.1077641	Measured			Vertical			Мар	Мар		
(1.5)         (1.5) <th< th=""><th>Depth</th><th>Inclination</th><th>Azimuth</th><th>Depth</th><th>+N/-S</th><th>+E/-W</th><th>Northing</th><th>Easting</th><th></th><th></th></th<>	Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
8,700.0       3.82       174.98       8,865.4       -448.9       39.1       404,570.683       866,227.38       32.1078504       -103.2840558         8,000.0       3.82       174.98       8,865.0       -451.5       39.1       404,570.883       866,227.38       32.1078774       -103.2840554         9,000.0       3.82       174.98       8,865.0       -451.5       39.6       404,570.18       866,229.17       32.1078774       -103.2840641         9,000.0       3.82       174.98       9,044.5       -474.1       42.0       404,550.35       866,230.28       32.107852       -103.2840461         9,000.0       3.82       174.98       9,450.0       -481.1       42.5       404,530.44       866,231.46       32.107864       -103.2840441         9,000.0       3.82       174.98       9,483.6       -491.3       43.1       404,537.01       866,231.46       32.1077864       -103.2840441         9,000.0       3.82       174.98       9,831.0       -52.1.1       45.7       404,67.10       866,231.46       32.1077864       -103.2840442         9,000.0       3.82       174.98       9,831.0       -52.1.1       45.7       404,67.10       866,231.79       32.1077784       -103.2840278	(usit)	(*)	(*)	(usit)	(usn)	(usn)	(usit)	(usit)	Latitude	Longitude
8.800.0       3.82       174.98       8,785.2       -444.9       39.1       404,583.48       866,227.36       32.1073322       -103.2840541         9.000.0       3.82       174.98       8,984.7       -455.2       40.2       404,570.19       866,227.36       32.1073827       -103.2840548         9.000.0       3.82       174.98       9,944.3       -478.1       478.2       40.2       404,570.19       866,220.29       32.1073692       -103.2840644         9.300.0       3.82       174.98       9,343.8       -464.7       42.0       404,530.21       866,230.29       32.1078047       -103.2840444         9.400.0       3.82       174.98       9,483.4       -490.0       43.7       404,530.47       866,231.46       32.1078044       -103.2840441         9.800.0       3.82       174.98       9,483.4       -490.0       43.7       404,537.01       866,231.46       32.107804       -103.2840441         9.800.0       3.82       174.98       9,831.0       -511.3       44.3       404,537.41       866,231.46       32.107781       -103.2840441         9.800.0       3.82       174.98       9,893.0       -517.9       455.4       404,457.4       866,231.46       32.107714       -103	8,700.0	3.82	174.98	8,685.4	-438.3	38.5	404,590.09	866,226.80	32.1079504	-103.2840574
8 800.0       3 82       174 98       8,885.0       -451.5       39.6       404,576.82       866,229.55       32.1079877       -103.2840524         9,100.0       3 82       174.98       9,044.5       -468.8       40.8       404,563.05       866,229.17       32.1078774       -103.2840634         9,000.0       3 82       174.98       9,244.1       -471.4       42.0       404,550.28       866,230.28       32.1078692       -103.2840445         9,400.0       3 82       174.98       9,383.4       -447.4       42.5       404,530.24       866,231.26       32.1078044       -103.2840445         9,600.0       3 82       174.98       9,883.2       -50.64       443.7       404,530.7       866,232.04       32.1077801       -103.2840424         9,700.0       3 82       174.98       9,883.2       -50.64       443.3       404,503.7       866,232.04       32.1077861       -103.2840390         9,800.0       3 82       174.98       9,883.2       -50.64       443.3       404,503.7       866,234.07       32.1077361       -103.2840390         9,800.0       3 82       174.98       9,882.7       -51.7       45.7       404,507.75       866,234.07       32.1077361       -103.2840279     <	8,800.0	) 3.82	1/4.98	8,785.2	-444.9	39.1	404,583.46	866,227.38	32.1079322	-103.2840558
9,000.0       3.82       174.98       9,094.7       -406.2       402.4       404.570.19       966.228.13       32.1079897       -103.244058         9,000.0       3.82       174.98       9,104.3       -477.1       414.4       404.456.91       866.228.71       32.107852       -103.2440481         9,000.0       3.82       174.98       9,33.8       -464.7       42.0       404.550.28       866.230.29       32.107804       -103.2440474         9,400.0       3.82       174.98       9,33.8       -464.7       42.9       404.530.27       866.231.46       32.107804       -103.2440447         9,600.0       3.82       174.98       9,83.4       -498.0       43.7       404.530.27       866.231.46       32.107804       -103.2440447         9,600.0       3.82       174.98       9,83.0       -511.3       44.3       404.507.01       866.231.46       32.107784       -103.2440487         9,800.0       3.82       174.98       9,83.0       -521.4       44.5       404.507.26       866.234.67       32.107714       -103.2440487         9,800.0       3.82       174.98       9,83.0       -521.4       404.507.65       866.234.97       32.107714       -103.2440324         9,000.0	8,900.0	3.82	174.98	8,885.0	-451.5	39.6	404,576.82	866,227.96	32.1079139	-103.2840541
9,00.0       3.82       174.98       9,084.5       464.8       404,853.55       866,229.71       32.107/4/4       -103.2440419         9,200.0       3.82       174.98       9,284.1       477.1       42.0       404,556.91       866,229.71       32.1078409       -103.2440419         9,000.0       3.82       174.98       9,284.1       477.1       42.0       404,530.28       866,230.88       32.1078106       -103.2440451         9,660.0       3.82       174.98       9,480.0       449.1       42.1       404,530.78       866,231.46       32.1078106       -103.2440441         9,600.0       3.82       174.98       9,683.2       -504.6       44.3       404,503.78       866,231.47       32.1077109       -103.2440441         9,000.0       3.82       174.98       9,683.2       -504.6       44.3       404,503.78       866,234.37       32.1077140       -103.2440369         9,000.0       3.82       174.98       9,882.7       -517.9       45.5       404,417.07.25       866,234.37       32.1077131       -103.2440374         0,000.0       3.82       174.98       9,982.5       -524.5       46.0       404,490.725       866,234.37       32.1077131       -103.2440373	9,000.0	3.82	174.98	8,984.7	-458.2	40.2	404,570.19	866,228.55	32.1078957	-103.2840524
9,200.0 3.82 174,98 9,184.3 471,4 41,4 40,450.28 866,230.29 32.1078409 -103.2840481 9,400.0 3.82 174,98 9,283.8 484.7 42.5 404,560.28 866,230.29 32.1078409 -103.2840487 9,466.3 3.82 174,98 9,483.6 491.3 43.1 404,537.01 866,231.46 32.1078407 -103.2840481 9,500.0 3.82 174,98 9,483.6 491.3 43.1 404,537.01 866,231.46 32.1077847 -103.2840484 9,700.0 3.82 174,98 9,483.6 491.3 43.1 404,537.01 866,231.46 32.1077847 -103.2840448 9,700.0 3.82 174,98 9,883.4 498.0 43.7 404,537.41 866,232.42 32.1077694 -103.2840448 9,700.0 3.82 174,98 9,883.2 -504.6 44.3 404,537.47 866,232.42 32.1077694 -103.2840448 9,700.0 3.82 174,98 9,883.2 -504.6 44.3 404,537.47 866,233.79 32.1077486 -103.2840448 9,800.0 3.82 174,98 9,882.5 -521.1 45.7 404,510.48 866,233.79 32.1077346 -103.2840434 9,494.4 3.82 174.98 9,982.5 -524.5 46.0 404,503.8 866,234.37 32.1077246 -103.2840340 10,200.0 3.82 174,98 10,082.5 -537.8 47.2 404,497.18 866,234.37 32.1077131 -103.2840347 10,400.0 3.82 174.98 10,082.5 -537.8 47.2 404,480.56 866,234.7 32.1077746 -103.2840350 10,400.0 3.82 174.98 10,182.1 -537.8 47.2 404,480.56 866,234.17 32.1077676 -103.2840340 10,200.0 3.82 174.98 10,182.1 -537.8 47.2 404,480.56 866,237.10 32.107664 -103.2840340 10,200.0 3.82 174.98 10,381.6 -551.1 48.4 404,477.28 866,236.71 32.107666 -103.2840320 10,468.5 3.82 174.98 10,481.4 -557.7 49.0 404,470.68 866,237.2 32.107666 -103.2840207 10,500.0 3.82 174.98 10,481.0 -576.0 50.4 404,472.48 866,238.70 32.107664 -103.2840207 10,500.0 3.82 174.98 10,481.4 -557.7 49.0 404,470.68 866,237.2 32.107666 -103.2840207 10,500.0 3.82 174.98 10,481.0 -576.0 50.4 404,472.8 866,237.10 32.107664 -103.2840207 10,500.0 3.82 174.98 10,581.5 -576.0 50.6 404,452.40 866,238.45 33.1076216 -103.2840227 10,500.0 3.82 174.98 10,481.4 -557.7 140.0 404,470.68 866,237.2 32.1075647 -103.2840227 10,500.0 3.82 174.98 10,481.4 -557.7 140.0 404,470.68 866,237.2 32.1075647 -103.2840242 10,500.0 3.82 174.98 10,481.4 -557.7 140.0 404,470.8 866,238.73 32.1075647 -103.2840242 10,500.0 3.82 174.98 10,481.4 -557.7 140.0 404,470.8 866,238	9,100.0	3.82	174.98	9,084.5	-464.8	40.8	404,563.55	866,229.13	32.1078774	-103.2840508
9, 90.00 3.82 174,98 9,284,1 476,1 42,0 404,502,8 866,230,28 32,1078409 -103,284046 9, 466,3 3.82 174,98 9,483,6 491,3 43,1 404,537,01 866,231,46 32,107827 -103,284046 First Bons Spring 9,500,0 3.82 174,98 9,483,6 491,3 43,1 404,537,01 866,231,46 32,107861 -103,284044 9,700,0 3.82 174,98 9,883,2 504,6 44,3 404,533,7 866,232,24 32,1077861 -103,2840447 9,800,0 3.82 174,98 9,883,2 504,6 44,3 404,571,01 866,231,21 23,1077861 -103,2840497 9,800,0 3.82 174,98 9,883,2 504,6 44,3 404,571,01 866,233,21 32,1077769 -103,2840497 9,800,0 3.82 174,98 9,983,0 -551,3 44,9 404,571,01 866,231,21 23,107748 -103,2840397 10,000,3 82 174,98 9,982,5 -524,5 46,0 404,503,8 866,234,07 33,107726 -103,2840397 10,000,3 82 174,98 9,981,0 -521,1 45,7 404,507,25 866,234,07 33,107726 -103,2840397 10,000,3 82 174,98 10,982,5 -524,5 46,0 404,503,8 866,234,07 33,107726 -103,2840397 10,000,3 82 174,98 10,982,1 -537,8 47,2 404,490,56 866,235,54 33,1078766 -113,2840394 10,200,3 82 174,98 10,281,8 -544,4 47,8 404,493,58 866,236,12 32,1077654 -103,2840397 10,000,3 82 174,98 10,281,8 -544,4 47,8 404,447,18 866,237,10 32,1076764 -103,2840397 10,400,3 82 174,98 10,281,8 -544,4 47,8 404,447,28 866,237,10 32,107658 +103,2840297 10,600,3 82 174,98 10,281,8 -544,4 47,8 404,447,28 866,237,10 32,107658 +103,2840297 10,600,3 82 174,98 10,581,2 -564,3 49,5 404,447,14 866,237,70 32,1076276 +103,2840297 10,600,3 82 174,98 10,581,2 -564,3 49,5 404,446,41 866,237,82 32,107658 +103,2840297 10,600,0 8,7 159,23 10,780,8 -577,0 50,7 404,4451,98 866,238,6 32,1076249 +03,2840297 10,600,0 8,7 159,23 10,780,8 -577,0 50,7 404,4451,98 866,238,6 32,107589 +03,2840297 10,600,0 8,7 159,23 10,780,8 -577,0 50,8 404,451,98 866,239,51 32,21077639 +03,2840297 10,600,0 8,7 159,23 10,780,8 -577,0 50,7 404,4451,98 866,239,73 32,1077639 +03,2840297 10,600,0 8,7 159,23 10,780,8 -577,0 50,7 404,4451,98 866,239,73 32,1077639 +03,2840297 10,600,0 8,7 159,23 10,780,8 -577,0 50,7 404,4451,98 866,239,73 32,107759 +03,2840297 10,600,0 1,19 10,0 10,880,2 -567,9 51,1 404,45	9,200.0	3.82	174.98	9,184.3	-4/1.4	41.4	404,556.91	866,229.71	32.1078592	-103.2840491
9,400.0 3,82 174,98 9,483.8 444,7 42.5 404,593.04 806,231.26 32.107861 -103.2840445 First Bone Spring 9,500.0 3,82 174,98 9,483.6 491.3 43.1 404,537.01 866,231.26 32.107861 -103.2840441 9,500.0 3,82 174,98 9,883.4 498.0 43.7 404,537.01 866,232.04 32.1077861 -103.2840447 9,700.0 3,82 174,98 9,883.2 -504.6 44.3 404,537.4 866,232.04 32.1077861 -103.284047 9,800.0 3,82 174,98 9,883.2 -504.6 44.3 404,537.4 866,232.04 32.1077861 -103.284047 9,800.0 3,82 174,98 9,883.2 -504.6 44.3 404,537.4 866,232.04 32.10777861 -103.284037 9,900.0 3,82 174,98 9,983.2 -504.6 44.3 404,537.4 866,232.04 32.10777861 -103.284037 9,900.0 3,82 174,98 9,983.2 -551.1 45.7 404,507.25 866,234.07 32.107726 -103.284037 10,000.0 3,82 174,98 9,982.5 -524.5 46.6 404,497.19 866,234.97 32.10777131 -103.284037 10,000.0 3,82 174,98 10,882. 551.1 48.7 404,400.56 866,234.97 32.1077731 -103.284038 10,200.0 3,82 174,98 10,182.1 -537.8 47.2 404,490.56 866,236.12 32.1076766 -103.284039 10,408.3 8.2 174.98 10,281.8 -554.4 47.8 404,477.28 866,236.12 32.1076766 -103.284039 10,400.0 3,82 174.98 10,281.8 -554.4 47.8 404,477.28 866,237.0 32.1076766 -103.2840329 10,400.0 3,82 174.98 10,281.8 -554.4 47.8 404,477.28 866,237.0 32.1076761 -103.2840329 10,400.0 3,82 174.98 10,581.6 -557.1 49.0 404,470.6 866,237.87 32.1076764 -103.2840229 10,500.0 3,82 174.98 10,581.2 -564.3 49.5 404,445.19 866,238.89 32.1075717 -103.2840229 10,500.0 3,82 174.98 10,581.0 -577.0 50.7 404,451.39 866,238.9 32.1075717 -103.2840229 10,500.0 3,82 174.98 10,581.0 -577.1 50.1 404,457.39 866,238.9 32.1075717 -103.2840220 10,775.0 3,82 174.98 10,581.0 -577.1 50.1 404,457.39 866,238.9 32.1075717 -103.2840220 10,775.0 3,82 174.98 10,581.0 -577.1 50.1 404,457.39 866,238.9 32.1075717 -103.2840220 10,750.2 1,91.0 30.1 1,50 10,865.5 -577.1 50.1 404,457.39 866,238.9 32.1075717 -103.2840220 10,925.0 2,11 4,98 10,450.5 5-57.5 50.8 404,451.9 866,238.9 32.1075871 -103.2840240 10,975.0 2,11 4,00 0,00 0,07 159.2 10,775.8 -576.5 50.6 404,451.9 866,238.9 32.1075821 -103.2840240 10,975.0 2,	9,300.0	3.82	174.98	9,284.1	-478.1	42.0	404,550.28	866,230.29	32.1078409	-103.2840474
9,465.3       3.82       174.98       9,450.0       -499.1       42.9       404,539.24       806,231.26       32.1078106       -103.2840444         9,500.0       3.82       174.98       9,483.6       -491.3       43.1       404,537.01       866,232.04       32.1077816       -103.2840424         9,700.0       3.82       174.98       9,783.0       -511.3       44.9       404,537.1       866,232.62       32.10777817       -103.2840390         9,900.0       3.82       174.98       9,783.0       -511.3       45.7       404,517.10       866,233.27       32.10777314       -103.2840374         9,948.4       3.82       174.98       9,882.5       -517.9       45.5       404,510.46       866,233.37       32.10777314       -103.2840374         10,000.0       3.82       174.98       10,082.3       -531.2       46.6       404,407.19       866,234.97       32.1077649       -103.2840374         10,200.0       3.82       174.98       10,281.6       -544.4       47.8       404,490.5       866,235.64       32.1076544       -103.2840374         10,460.5       3.82       174.98       10,810.0       -555.6       48.8       404,477.28       866,237.10       32.1076634       -103.2840273 <td>9,400.0</td> <td>3.82</td> <td>174.98</td> <td>9,383.8</td> <td>-484.7</td> <td>42.5</td> <td>404,543.64</td> <td>866,230.88</td> <td>32.1078227</td> <td>-103.2840457</td>	9,400.0	3.82	174.98	9,383.8	-484.7	42.5	404,543.64	866,230.88	32.1078227	-103.2840457
Prist Bone Spring         9,500.0         3.82         174.98         9,483.6         -491.3         43.1         404,537.01         866,231.46         32.1077861         -103.2840441           9,600.0         3.82         174.98         9,683.4         -498.0         43.7         404,533.7         866,232.04         32.10777861         -103.2840477           9,800.0         3.82         174.98         9,882.7         -511.3         44.9         404,517.10         866,232.04         32.10777496         -103.2840374           9,948.4         3.82         174.98         9,982.7         -511.9         45.5         404,503.83         866,234.07         32.10777131         -103.2840376           10,000.0         3.82         174.98         9,982.5         -524.5         46.6         404,407.19         866,234.95         32.10776766         -103.2840326           10,200.0         3.82         174.98         10,82.5         -531.8         47.2         446.4         404,497.19         866,233.54         32.10776766         -103.2840327           10,400.0         3.82         174.98         10,816.5         -551.4         48.4         47.8         404,472.74         866,237.10         32.1076766         -103.2840227           10,460.0 </td <td>9,466.3</td> <td>3 3.82</td> <td>174.98</td> <td>9,450.0</td> <td>-489.1</td> <td>42.9</td> <td>404,539.24</td> <td>866,231.26</td> <td>32.1078106</td> <td>-103.2840446</td>	9,466.3	3 3.82	174.98	9,450.0	-489.1	42.9	404,539.24	866,231.26	32.1078106	-103.2840446
9,500.0       3.82       174.98       9,483.4       -481.3       43.1       404,537.01       806,232.04       32,1077691       -103,240,424         9,700.0       3.82       174.98       9,683.2       -504.6       44.3       404,523.74       806,232.02       32,1077691       -103,2440,424         9,900.0       3.82       174.98       9,880.7       -517.9       45.5       404,510.46       806,233.27       32,1077314       -103,2240,334         9,900.0       3.82       174.98       9,981.0       -521.1       45.7       404,501.28       806,234.07       32,1077314       -103,2240,335         10,000.0       3.82       174.98       10,982.5       -524.5       46.6       404,497.19       806,234.67       32,107696       -103,2240,335         10,000.0       3.82       174.98       10,281.8       -531.2       46.6       404,493.92       806,235.64       32,107696       -103,2240,335         10,400.0       3.82       174.98       10,281.6       -551.1       48.4       404,472.48       806,236.12       32,107646       -103,2240,235         10,400.3       3.22       174.98       10,481.4       -557.7       49.0       404,470.65       866,237.67       32,107666       -103,2240,2	First B	Sone Spring	474.00	0 400 0	404.2	40.4	404 507 04	000 004 40	20 4070044	402 2040444
9,0000 3,82 174,98 9,683 2, 504 437 404,537,4 86,232,44 22,107769 -103,284047 9,8000 3,82 174,98 9,783 0, 511,3 44.9 404,517.10 866,233,7 32,1077496 -103,284047 9,9000 3,82 174,98 9,982,7 5,719 45,5 404,510.46 866,233,7 32,1077496 -103,284037 9,948,4 3,82 174,98 9,982,7 5,719 45,5 404,510.46 866,233,7 32,1077496 -103,284037 10,000 3,82 174,98 9,982,5 5,24,5 46.0 404,507,25 866,234,37 32,1077131 -103,284038 10,200 3,82 174,98 10,182,1 -537,8 47,2 404,490,56 866,234,37 32,1077131 -103,284038 10,200 3,82 174,98 10,182,1 -537,8 47,2 404,490,56 866,234,37 32,1077666 -103,2840340 10,200 3,82 174,98 10,182,1 -537,8 47,2 404,490,56 866,235,54 32,1076768 -103,2840340 10,400 3,82 174,98 10,381,6 -551,1 48,4 404,497,728 866,236,70 32,107668 -103,2840320 10,400 3,82 174,98 10,381,6 -551,1 48,4 404,477,28 866,237,10 32,1076654 -103,2840320 10,400 3,82 174,98 10,451,0 -555,6 48,8 404,477,28 866,237,10 32,1076056 -103,2840329 10,400 3,82 174,98 10,51,2 -564,3 49,5 404,464,10 866,237,80 32,107660 -103,2840279 10,500,0 3,82 174,98 10,51,2 -564,3 49,5 404,464,01 866,237,80 32,1076050 -103,2840279 10,600 0,82 174,98 10,581,2 -564,3 49,5 404,464,01 866,237,80 32,1076651 -103,2840279 10,600 0,82 174,98 10,581,2 -564,3 49,5 404,464,20 866,238,4 32,1075654 -103,2840279 10,600 0,87 174,98 10,581,2 -564,3 49,5 404,464,20 866,238,4 32,1075654 -103,2840227 10,800 0,87 174,98 10,588 -576,5 50,6 404,452,18 866,239,4 32,1075689 -103,2840227 10,800 0,87 174,98 10,588 -577,5 50,7 404,451,59 866,239,4 32,1075684 -103,2840228 10,875,0 8,19 1,56 10,855,5 -577,5 50,7 404,451,59 866,239,4 32,1075689 -103,2840227 10,800 0,87 174,98 10,58 -577,5 50,7 404,451,98 866,239,4 32,1075689 -103,2840228 10,850,0 2,21 7,29 10,805,8 -577,5 50,7 404,451,98 866,239,4 32,1075689 -103,2840228 10,850,0 2,11 0,0 10,800,2 -577,1 51,1 404,460,42 866,239,4 32,1075689 -103,284028 10,950,0 17,19 0,45 10,924,6 -557,7 51,3 404,471,67 866,239,4 32,1075689 -103,284028 10,950,0 17,19 0,45 10,924,6 -555,7 51,3 404,451,98 866,239,4 32,1075689 -103,284018	9,500.0	J 3.02	174.90	9,403.0	-491.3	43.1	404,537.01	000,231.40	32.1070044	-103.2040441
9,800.0 3,82 174,98 9,783.0 -511.3 44.9 404,517.1 866,233.2 2,22,107.03 -103,2240,374 99,90.0 3,82 174,98 9,882.7 -517.9 45.5 404,510.46 866,233.7 32,1077.314 -103,2240,374 99,982.5 -524.5 46.6 404,503.83 866,234.07 32,1077.226 -103,2240,376 10,000 3,82 174,98 10,082.3 -531.2 46.6 404,497.19 866,234.5 32,1076,66 -103,2240,376 10,000 3,82 174,98 10,082.3 -531.2 46.6 404,497.19 866,234.5 32,1076,766 -103,2240,336 10,200 0,382 174,98 10,082.3 -531.2 46.6 404,497.19 866,234.5 32,1076,66 -103,2240,336 10,200 0,382 174,98 10,281.8 -544.4 47.8 404,497.19 866,234.5 32,1076,66 -103,2240,330 10,200 0,382 174,98 10,281.8 -544.4 47.8 404,497.12 866,236.7 32,1076,64 -103,2240,320 10,480.5 3.82 174.98 10,381.6 -551.1 48.4 404,477.28 866,237.7 32,1076,64 -103,2240,239 10,488.5 3.82 174.98 10,581.6 -551.1 48.4 404,477.28 866,237.7 32,1076,64 -103,2240,229 10,488.5 3.82 174.98 10,581.2 -564.3 40,4472.74 866,237.6 32,1076,276 -103,2240,229 10,500 0,3.82 174.98 10,581.2 -564.3 49.5 404,444.01 866,237.6 32,1076,219 -103,2840,229 10,500 0,3.82 174.98 10,581.2 -564.3 49.5 404,4464.01 866,237.67 32,1076,219 -103,2840,227 10,700.0 3.82 174.98 10,581.2 -564.3 49.5 404,451.69 866,238.49 32,10756,84 -103,2840,229 10,500 0,570 159.2 174.98 10,581.0 -575.0 50.6 404,451.69 866,239.5 32,10756,84 -103,2840,229 10,800 0,87 159.2.2 174.98 10,581.0 -575.1 50.9 404,451.39 866,239.13 32,10765,171 -103,2840,227 10,800 0,520 2,21 7.29 10,805.8 -576.7 50.8 404,451.69 866,239.37 32,21075717 -103,2840,229 10,850.0 5.20 2,21 7.29 10,805.8 -576.7 50.8 404,451.69 866,239.37 32,21075717 -103,2840,229 10,800 0,87 159.2.3 10,780.8 -577.0 50.7 404,451.39 866,239.13 32,107689 -103,2840,220 10,950.0 11.19 10,010,80.2 -557.7 50.8 404,451.69 866,239.37 32,21075717 -103,2840,229 10,800 0,87 159.2.3 10,780.8 -576.7 50.8 404,451.69 866,239.37 32,2107564 -103,2840,229 10,800 0,87 159.2 10,950.0 15,95 11,404,460.48 866,239.37 32,2107564 -103,2840,219 10,900.0 11.19 0,00 10,982.2 -527.5 50.1 404,450.8 866,239.37 32,2107564 -103,2840,124 11,900.7 149,809.5 96 11,102.0 4	9,600.0	J 3.02	174.90	9,000.4	-490.0	43.7	404,000.07	000,232.04 966 222 62	32.1077670	-103.2040424
9,900.0 3.82 174.98 9,882.7 -517.9 45.5 404,510.46 866,233.21 32.107734 -103.2840345 9,900.0 3.82 174.98 9,982.5 -524.5 404,507.25 866,234.07 32.107734 -103.2840345 10,000.0 3.82 174.98 9,082.3 -531.2 46.6 404,497.19 866,234.37 32.107734 -103.2840347 10,100.0 3.82 174.98 10,082.3 -531.2 46.6 404,497.19 866,234.97 32.1077649 -103.2840357 10,100.0 3.82 174.98 10,082.3 -531.2 46.6 404,497.19 866,234.97 32.1077649 -103.2840347 10,400.0 3.82 174.98 10,281.8 -544.4 47.8 404,472.8 866,236.12 32.107654 -103.2840307 10,400.0 3.82 174.98 10,451.0 -555.6 48.8 404,477.28 866,236.12 32.107654 -103.28402079 Upper Third Bone Spring 10,600.0 3.82 174.98 10,451.2 -557.7 49.0 404,470.65 866,237.10 32.107624 -103.28402079 10,600.0 3.82 174.98 10,681.2 -564.3 49.9 404,446.1 866,237.87 32.107624 -103.28402079 10,600.0 3.82 174.98 10,681.2 -564.3 49.0 404,470.65 866,237.87 32.1076236 -103.2840273 10,600.0 3.82 174.98 10,681.2 -564.3 49.0 404,476.5 866,238.8 32.107624 -103.2840207 10,700.0 3.82 174.98 10,681.0 -571.0 50.1 404,457.38 866,238.8 32.107624 -103.2840202 10,775.0 3.82 174.98 10,681.0 -577.0 50.7 404,451.39 866,239.02 32.1075641 -103.2840202 10,775.0 3.82 174.98 10,685.5 -572.1 51.0 404,456.2 866,238.9 32.1075717 -103.2840202 10,800.0 0.87 159.23 10,780.8 -577.0 50.7 404,451.98 866,239.02 32.1075689 -103.2840202 10,850.0 5.20 2.78 10,805.8 -577.5 50.9 404,451.98 866,239.02 32.1075689 -103.2840202 10,850.0 5.20 2.78 10,805.8 -577.1 50.9 404,451.98 866,239.73 32.1075681 -103.2840202 10,900.0 11.19 1.00 10,805.5 -575.1 50.9 404,451.98 866,239.73 32.1077541 -103.2840202 10,850.0 5.20 2.78 10,805.8 -575.1 50.9 404,451.98 866,239.73 32.1077561 -103.2840215 10,875.0 8.19 1.65 10,855.5 -575.1 31.404,450.8 866,239.73 32.1077581 -103.2840128 10,975.0 2.19 0.30 10,952.3 -547.7 51.3 404,472.6 866,239.73 32.1077584 -103.2840128 10,950.0 17.19 0.45 10,928.6 -555.7 51.4 404,503.8 866,239.73 32.107755 -103.2840128 11,050.0 2.19 0.00 10,992.5 -528.0 51.4 404,503.8 866,239.73 32.107735 -103.2840128 11,050.0 2.919 359.	9,700.0	J 3.02	174.90	9,003.2	-304.0	44.5	404,525.74	000,232.02	32.1077079	-103.2040407
s. 900.5         0.02         174.99         9.902.1         -501.3         40.5         404.507.25         866.234.07         32.1077226         -103.2404364           Second Bone Spring         -	9,000.0	J 3.02	174.90	9,703.0	-311.3	44.9	404,517.10	000,233.21 866 233 70	32.1077314	-103.2040390
systex       43.7       40.7	9,900.0	J J.02	174.90	9,002.7	-517.9	45.5	404,510.40	000,233.79 966 224 07	22.1077314	102 2040266
Second Bole         Source         So	9,940.4 Socon	+ J.OZ	174.90	9,931.0	-321.1	45.7	404,507.25	000,234.07	32.1077220	-103.2040300
10,100.0       3.82       174.98       10,023       531.2       46.6       404,497.19       866,234.95       32.107694       -103.240340         10,200.0       3.82       174.98       10,281.8       534.4       47.2       404,490.56       866,235.12       32.107666       -103.240324         10,400.0       3.82       174.98       10,281.8       554.4       47.8       404,485.92       866,236.70       32.10766401       -103.240239         10,400.0       3.82       174.98       10,450.0       -555.6       48.8       404,477.24       866,237.07       32.1076219       -103.240279         Upper Third Bone Spring       10,500.0       3.82       174.98       10,681.0       -571.0       50.1       404,464.01       866,237.87       32.1076036       -103.2402279         10,600.0       3.82       174.98       10,681.0       -577.0       50.7       404,457.38       866,238.45       32.107564       -103.240227         10,600.0       0.87       179.93       10,755.8       -576.0       50.6       404,457.38       866,238.45       32.107564       -103.240227         10,800.0       0.47       159.23       10,760.8       -577.0       50.7       404,451.39       866,238.45       32.1075	10 000 (	u Done Sprii	174.08	9 982 5	-524.5	46.0	404 503 83	866 234 37	32 1077131	-103 2840357
10,200       3,82       174,98       10,182,1       -537,8       47,2       40,490,56       566,235,54       32,1076766       -103,2840324         10,300,0       3,82       174,98       10,281,8       -544,4       47,8       404,490,56       566,236,12       32,1076564       -103,2840320         10,468,5       3,82       174,98       10,450,0       -555.6       48.8       404,477,28       866,237,10       32,1076276       -103,2840229         Upper Third Bone Spring       10,500,0       3,82       174,98       10,681,0       -557,7       49,0       404,467,05       866,237,87       32,1076219       -103,2840229         10,600,0       3,82       174,98       10,681,0       -571,0       50,1       404,457,38       866,237,87       32,1076036       -103,2840224         10,775,0       3,82       174,98       10,758,8       -576,0       50,6       404,451,39       866,239,45       32,1075697       -103,2840227         Start DLS 12.00 TFO -175,49       10,780,8       -577,0       50,7       404,451,39       866,239,12       32,1075697       -103,2840223         10,850,0       5,20       2,78       10,830,7       575,1       50,9       404,451,39       866,239,27       32,1075697	10,000.0	3.82	174.00	10 082 3	-524.0	46.6	404,303.03	866 234 95	32 1076949	-103 2840340
10,300       3,82       174,98       10,281,8       -544,4       47,8       404,483,92       666,236,12       32,1076584       -103,2840307         10,400,0       3,82       174,98       10,381,6       -551,1       48,8       404,472,74       866,237,10       32,1076584       -103,2840279         Upper Third Bone Spring       10,450,0       -555,6       48,8       404,472,74       866,237,78       32,1076219       -103,2840273         10,600,0       3,82       174,98       10,681,0       -571,0       50,1       404,450,10       866,237,87       32,1076219       -103,28402267         10,770,0       3,82       174,98       10,681,0       -571,0       50,1       404,452,40       866,238,45       32,1075654       -103,2840227         10,775,0       3,82       174,98       10,780,8       -577,0       50,7       404,451,49       866,239,02       32,1075697       -103,2840227         10,775,0       3,82       174,98       10,805,8       -576,7       50,8       404,451,49       866,239,02       32,1075697       -103,2840227         10,805,0       5,20       2,78       10,805,5       -577,1       50,8       404,451,49       866,239,13       32,1075697       -103,2840228       10,825,5	10,100.0	) 3.82	174.00	10,002.0	-537.8	47.2	404 490 56	866 235 54	32 1076766	-103 2840324
10,400.0       3.82       174.98       10,381.6       -551.1       48.4       404,477.28       866,236.70       32.1076401       -103.2840290         Upper Third Bone Spring       -       -       -       -       -       -       -       -       -       -       -       103.2840279         Upper Third Bone Spring       -       -       -       -       -       -       -       -       -       103.2840273         10,500.0       3.82       174.98       10,481.4       -       -       -       -       0.404,457.38       866,237.28       32.1076036       -       103.28402073         10,600.0       3.82       174.98       10,755.8       -       576.0       50.6       404,451.39       866,238.49       32.107564       -       103.2840227         10,775.0       3.82       174.98       10,780.8       -       577.0       50.7       404,451.39       866,239.15       32.1075697       -       103.2840227         10,800.0       0.87       159.23       10,780.8       -577.0       50.7       404,451.39       866,239.15       32.1075697       -       103.2840226         10,800.0       5.05       -572.1       51.0       404,452.14	10,200.0	) 3.82	174.00	10,102.1	-544 4	47.8	404 483 92	866 236 12	32 1076584	-103 2840307
10.465.5       3.82       174.98       10.450.0       -555.6       48.8       404.472.74       866.237.10       32.1076276       -103.2840279         Upper Third Bone Spring	10,000.0	3.82	174.00	10,201.0	-551 1	48.4	404,400.02	866 236 70	32 1076401	-103 2840290
Upper Third Bone Spring         0.401         0.401         404,470.65         866,237.28         32.1076219         -103.2840273           10,600.0         3.82         174.98         10,681.0         -557.7         49.0         404,470.65         866,237.28         32.1076219         -103.2840257           10,700.0         3.82         174.98         10,681.0         -571.0         50.1         404,457.38         866,238.45         32.1076354         -103.2840227           10,700.0         3.82         174.98         10,755.8         -576.0         50.6         404,452.40         866,238.45         32.1075617         -103.2840221           10,800.0         0.87         159.23         10,780.8         -577.0         50.7         404,451.69         866,239.15         32.1075649         -103.2840219           10,800.0         5.20         2.78         10,805.5         -572.1         51.0         404,451.69         866,239.37         32.1075841         -103.2840210           10,900.0         11.19         1.00         10,880.2         -567.9         51.1         404,465.21         866,239.46         32.1075937         -103.2840216           10,925.0         14.19         0.67         10.924.6         -552.7         51.3         4	10,100.0	5 3.82	174 98	10,001.0	-555.6	48.8	404 472 74	866 237 10	32 1076276	-103 2840279
10,500.0       3.82       174.98       10,481.4       -557.7       49.0       404,470.65       866,237.28       32.1076219       -103.2840273         10,600.0       3.82       174.98       10,581.2       -564.3       49.5       404,464.01       866,237.87       32.1076036       -103.28402273         10,700.0       3.82       174.98       10,755.8       -576.0       50.6       404,452.40       866,238.49       32.1075854       -103.2840220         Start DLS 12.00 TFO -175.49         10,800.0       0.87       159.23       10,780.8       -577.5       50.8       404,451.69       866,239.02       32.1075697       -103.2840223         10,850.0       5.20       2.78       10,805.8       -575.1       50.9       404,453.30       866,239.47       32.1075621       -103.2840219         10,900.0       11.19       1.00       10,880.2       -567.9       51.1       404,456.21       866,239.46       32.1075824       -103.2840219         10,900.0       11.19       1.00       10,880.2       -567.9       51.1       404,460.42       866,239.46       32.1075824       -103.2840219         10,950.0       17.19       0.45       10.926.6       -555.7       51.3       404,450.91 <td>Upper</td> <td>Third Bone</td> <td>Spring</td> <td>10,100.0</td> <td>000.0</td> <td>10.0</td> <td>101,112.11</td> <td>000,201110</td> <td>02.1010210</td> <td>100.2010210</td>	Upper	Third Bone	Spring	10,100.0	000.0	10.0	101,112.11	000,201110	02.1010210	100.2010210
10,600.0       3.82       174.98       10,581.2       -564.3       49.5       404,464.01       866,237.87       32.1076036       -103.2840227         10,700.0       3.82       174.98       10,681.0       -571.0       50.1       404,457.38       866,238.45       32.1075854       -103.2840227         Start DLS 12.00 TFO -175.49         10,800.0       0.87       159.23       10,780.8       -577.0       50.7       404,451.39       866,239.02       32.1075741       -103.2840227         10,850.0       5.20       2.78       10,830.7       -575.1       50.9       404,453.30       866,239.15       32.1075821       -103.2840219         10,850.0       5.20       2.78       10,850.5       -572.1       51.0       404,456.21       866,239.46       32.1075881       -103.2840210         10,900.0       11.19       1.00       10,880.2       -567.5       51.3       404,456.21       866,239.46       32.1075884       -103.2840210         10,950.0       17.19       0.45       10,928.6       -555.7       51.3       404,476.61       866,239.46       32.1075088       -103.2840180         10,975.0       20.19       0.30       10,952.3       -547.7       51.3       404,472.67	10,500.0	3.82	174.98	10,481.4	-557.7	49.0	404,470.65	866,237.28	32.1076219	-103.2840273
10,700.0       3.82       174.98       10,681.0       -571.0       50.1       404,457.38       866,238.45       32.1075854       -103.2840240         10,775.0       3.82       174.98       10,755.8       -576.0       50.6       404,452.40       866,238.45       32.1075874       -103.2840227         Start DLS 12.00 TFO -175.49       -       -       10,800.0       0.87       159.23       10,780.8       -577.0       50.7       404,451.39       866,239.15       32.1075689       -103.2840223         10,825.0       2.21       7.29       10,805.8       -576.7       50.8       404,451.39       866,239.15       32.1075671       -103.2840219         10,875.0       8.19       1.56       10,855.5       -572.1       51.0       404,456.21       866,239.46       32.1075688       -103.2840210         10,900.0       11.19       1.00       10,880.2       -567.9       51.1       404,460.42       866,239.46       32.107688       -103.2840280         10,925.0       14.19       0.67       10,924.6       -555.7       51.3       404,472.67       866,239.61       32.107648       -103.2840198         10,975.0       20.19       0.30       10,952.3       -547.7       51.3       404,472.67	10,600.0	3.82	174.98	10,581.2	-564.3	49.5	404,464.01	866,237.87	32.1076036	-103.2840257
10,775.0       3.82       174.98       10,755.8       -576.0       50.6       404,452.40       866,238.89       32.1075717       -103.2840227         Start DLS 12.00 TFO -175.49         10,800.0       0.87       159.23       10,760.8       -577.0       50.7       404,451.39       866,239.02       32.1075689       -103.2840227         10,850.0       5.20       2.21       7.29       10,805.7       575.1       50.9       404,453.30       866,239.27       32.1075741       -103.2840215         10,850.0       5.20       2.78       10,805.5       572.1       51.0       404,456.21       866,239.46       32.1075821       -103.2840216         10,900.0       11.19       1.00       10,880.2       -567.9       51.1       404,465.91       866,239.46       32.1076088       -103.2840202         10,950.0       7.19       0.45       10,928.6       -555.7       51.3       404,472.67       866,239.61       32.1076744       -103.2840198         10,950.0       23.19       0.18       10,975.5       -538.4       51.4       404,450.36       866,239.70       32.1076748       -103.2840184         11,050.0       29.19       0.02       11,017.0       -518.2       51.4       4	10,700.0	3.82	174.98	10,681.0	-571.0	50.1	404,457.38	866,238.45	32.1075854	-103.2840240
Start DLS 12.00 TFO -175.49           10,800.0         0.87         159.23         10,780.8         -577.0         50.7         404,451.39         866,239.02         32.1075689         -103.2840223           10,825.0         2.21         7.29         10,805.8         -576.7         50.8         404,451.69         866,239.15         32.1075687         -103.2840219           10,850.0         5.20         2.78         10,805.5         -572.1         51.0         404,455.21         866,239.27         32.1075821         -103.2840215           10,900.0         11.19         1.00         10,880.2         -567.9         51.1         404,465.21         866,239.46         32.1075821         -103.2840202           10,925.0         14.19         0.67         10,924.6         -555.7         51.3         404,465.91         866,239.61         32.1076274         -103.2840198           10,950.0         17.19         0.45         10,925.3         -547.7         51.3         404,480.68         866,239.70         32.1076748         -103.2840189           11,025.0         26.19         0.09         10,982.2         -528.0         51.4         404,480.92         866,239.73         32.1077354         -103.2840182           11,025.0	10,775.0	3.82	174.98	10,755.8	-576.0	50.6	404,452.40	866,238.89	32.1075717	-103.2840227
10,800.0       0.87       159.23       10,780.8       -577.0       50.7       404,451.39       866,239.02       32.1075689       -103.2840219         10,825.0       2.21       7.29       10,805.8       -576.7       50.8       404,451.39       866,239.15       32.1075697       -103.2840219         10,855.0       8.19       1.56       10,855.5       -572.1       51.0       404,456.21       866,239.37       32.1075821       -103.2840210         10,900.0       11.19       1.00       10,880.2       -567.9       51.1       404,460.42       866,239.46       32.1075937       -103.2840210         10,900.0       17.19       0.45       10,928.6       -555.7       51.3       404,472.67       866,239.61       32.1076948       -103.2840198         10,975.0       20.19       0.30       10,952.3       -547.7       51.3       404,480.68       866,239.70       32.1076494       -103.2840194         11,020.2       26.19       0.09       10,998.2       -528.0       51.4       404,450.36       866,239.73       32.1077048       -103.2840181         11,046.1       28.72       0.03       11,017.0       -518.2       51.4       404,510.11       866,239.73       32.1077354       -103.2840181 <td>Start D</td> <td>DLS 12.00 TF</td> <td>O -175.49</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Start D	DLS 12.00 TF	O -175.49							
10,825.0       2.21       7.29       10,805.8       -576.7       50.8       404,451.69       866,239.15       32.1075697       -103.2840219         10,850.0       5.20       2.78       10,805.5       -575.1       50.9       404,453.30       866,239.37       32.1075821       -103.2840216         10,900.0       11.19       1.00       10,880.2       -567.9       51.1       404,456.21       866,239.46       32.1075937       -103.2840206         10,925.0       14.19       0.67       10,904.6       -562.4       51.2       404,465.91       866,239.64       32.1076088       -103.2840202         10,950.0       17.19       0.45       10,926.6       -555.7       51.3       404,472.67       866,239.66       32.1076048       -103.2840198         10,975.0       20.19       0.30       10,952.3       -547.7       51.3       404,480.68       866,239.70       32.1076748       -103.2840189         11,046.1       28.72       0.03       11,017.0       -518.2       51.4       404,500.36       866,239.73       32.1077032       -103.2840181         11,050.0       29.19       0.02       11,020.4       -516.4       51.4       404,511.98       866,239.73       32.1077354       -103.2840181 <td>10,800.0</td> <td>0.87</td> <td>159.23</td> <td>10,780.8</td> <td>-577.0</td> <td>50.7</td> <td>404,451.39</td> <td>866,239.02</td> <td>32.1075689</td> <td>-103.2840223</td>	10,800.0	0.87	159.23	10,780.8	-577.0	50.7	404,451.39	866,239.02	32.1075689	-103.2840223
10,850.0       5.20       2.78       10,830.7       -575.1       50.9       404,453.30       866,239.27       32.1075741       -103.2840215         10,875.0       8.19       1.56       10,855.5       -572.1       51.0       404,456.21       866,239.37       32.1075821       -103.2840216         10,900.0       11.19       1.00       10,880.2       -567.9       51.1       404,465.21       866,239.46       32.1075937       -103.2840206         10,950.0       17.19       0.45       10,928.6       -555.7       51.3       404,480.81       866,239.61       32.107644       -103.2840198         10,975.0       20.19       0.30       10,952.3       -547.7       51.3       404,480.88       866,239.70       32.107644       -103.2840198         11,005.0       26.19       0.09       10,998.2       -528.0       51.4       404,500.36       866,239.73       32.1077354       -103.2840182         Third Bone Spring       11,020.4       -516.4       51.4       404,510.11       866,239.73       32.1077354       -103.2840181         11,075.0       32.19       359.96       11,020.4       -516.4       51.4       404,553.54       866,239.73       32.1077354       -103.2840182         1	10,825.0	) 2.21	7.29	10,805.8	-576.7	50.8	404,451.69	866,239.15	32.1075697	-103.2840219
10,875.0       8.19       1.56       10,855.5       -572.1       51.0       404,456.21       866,239.37       32.1075821       -103.2840206         10,900.0       11.19       1.00       10,880.2       -567.9       51.1       404,460.42       866,239.46       32.1075937       -103.2840206         10,925.0       14.19       0.67       10,904.6       -562.4       51.2       404,465.91       866,239.61       32.1076088       -103.2840202         10,950.0       17.19       0.45       10,928.6       -555.7       51.3       404,472.67       866,239.66       32.1076044       -103.2840198         10,975.0       20.19       0.30       10,952.3       -547.7       51.3       404,489.92       866,239.70       32.1076748       -103.2840198         11,025.0       26.19       0.09       10,998.2       -528.0       51.4       404,500.36       866,239.73       32.1077305       -103.2840185         11,046.1       28.72       0.03       11,017.0       -516.4       51.4       404,511.98       866,239.73       32.1077354       -103.2840181         11,075.0       29.19       0.02       11,020.4       -516.4       51.4       404,511.98       866,239.73       32.1077354       -103.2840176 <td>10,850.0</td> <td>5.20</td> <td>2.78</td> <td>10,830.7</td> <td>-575.1</td> <td>50.9</td> <td>404,453.30</td> <td>866,239.27</td> <td>32.1075741</td> <td>-103.2840215</td>	10,850.0	5.20	2.78	10,830.7	-575.1	50.9	404,453.30	866,239.27	32.1075741	-103.2840215
10,900.0       11.19       1.00       10,880.2       -567.9       51.1       404,460.42       866,239.46       32.1075937       -103.2840206         10,950.0       17.19       0.45       10,926.6       -555.7       51.3       404,472.67       866,239.61       32.1076028       -103.2840194         10,950.0       17.19       0.45       10,952.3       -547.7       51.3       404,472.67       866,239.66       32.1076748       -103.2840194         11,000.0       23.19       0.18       10,975.5       -538.4       51.4       404,480.68       866,239.70       32.1076748       -103.2840189         11,025.0       26.19       0.09       10,988.2       -528.0       51.4       404,510.11       866,239.73       32.1077035       -103.2840182         Third Bone Spring       11,046.1       28.72       0.03       11,017.0       -518.2       51.4       404,510.11       866,239.73       32.1077354       -103.2840181         11,050.0       29.19       0.02       11,020.4       -516.4       51.4       404,511.98       866,239.73       32.1077354       -103.2840181         11,075.0       32.19       359.96       11,042.7       -489.8       51.4       404,553.54       866,239.73       32.10	10,875.0	0 8.19	1.56	10,855.5	-572.1	51.0	404,456.21	866,239.37	32.1075821	-103.2840210
10,925.0       14.19       0.67       10,904.6       -562.4       51.2       404,465.91       866,239.54       32.1076088       -103.2840202         10,950.0       17.19       0.45       10,928.6       -555.7       51.3       404,472.67       866,239.61       32.1076274       -103.2840198         10,975.0       20.19       0.30       10,952.3       -547.7       51.3       404,480.68       866,239.66       32.1076494       -103.2840198         11,000.0       23.19       0.18       10,975.5       -538.4       51.4       404,480.92       866,239.70       32.1077035       -103.2840189         11,025.0       26.19       0.09       10,998.2       -528.0       51.4       404,510.11       866,239.73       32.107735       -103.2840182         Third Bone Spring         11,050.0       29.19       0.02       11,020.4       -516.4       51.4       404,511.98       866,239.73       32.1077354       -103.2840182         11,050.0       29.19       359.96       11,041.9       -503.6       51.4       404,553.54       866,239.73       32.1077354       -103.2840177         11,100.0       35.19       359.91       11,062.7       -489.8       51.4       404,553.54 <td< td=""><td>10,900.0</td><td>) 11.19</td><td>1.00</td><td>10,880.2</td><td>-567.9</td><td>51.1</td><td>404,460.42</td><td>866,239.46</td><td>32.1075937</td><td>-103.2840206</td></td<>	10,900.0	) 11.19	1.00	10,880.2	-567.9	51.1	404,460.42	866,239.46	32.1075937	-103.2840206
10,950.0       17.19       0.45       10,928.6       -555.7       51.3       404,472.67       866,239.61       32.1076274       -103.2840198         10,975.0       20.19       0.30       10,952.3       -547.7       51.3       404,480.68       866,239.66       32.1076494       -103.2840198         11,000.0       23.19       0.18       10,975.5       -538.4       51.4       404,489.92       866,239.70       32.1076748       -103.2840189         11,025.0       26.19       0.09       10,998.2       -528.0       51.4       404,510.11       866,239.73       32.107735       -103.2840185         11,046.1       28.72       0.03       11,017.0       -518.2       51.4       404,511.18       866,239.73       32.1077354       -103.2840181         11,050.0       29.19       0.02       11,020.4       -516.4       51.4       404,511.98       866,239.73       32.1077354       -103.2840181         11,075.0       32.19       359.96       11,041.9       -503.6       51.4       404,553.54       866,239.73       32.1077405       -103.2840177         11,100.0       35.19       359.96       11,042.7       -489.8       51.4       404,553.54       866,239.73       32.10778096       -103.28401	10,925.0	) 14.19	0.67	10,904.6	-562.4	51.2	404,465.91	866,239.54	32.1076088	-103.2840202
10,975.0       20.19       0.30       10,952.3       -547.7       51.3       404,480.68       866,239.66       32.1076494       -103.2840194         11,000.0       23.19       0.18       10,975.5       -538.4       51.4       404,480.92       866,239.70       32.1076484       -103.2840189         11,025.0       26.19       0.09       10,998.2       -528.0       51.4       404,500.36       866,239.72       32.1077035       -103.2840185         11,046.1       28.72       0.03       11,017.0       -518.2       51.4       404,510.11       866,239.73       32.1077354       -103.2840185         11,050.0       29.19       0.02       11,020.4       -516.4       51.4       404,511.98       866,239.73       32.1077354       -103.2840181         11,075.0       32.19       359.96       11,041.9       -503.6       51.4       404,553.64       866,239.73       32.107705       -103.2840174         11,105.0       35.19       359.91       11,062.7       -489.8       51.4       404,553.54       866,239.73       32.1078496       -103.2840174         11,125.0       38.19       359.86       11,082.7       -474.8       51.3       404,569.50       866,239.64       32.1078496       -103.2840	10,950.0	) 17.19	0.45	10,928.6	-555.7	51.3	404,472.67	866,239.61	32.1076274	-103.2840198
11,000.0       23.19       0.18       10,975.5       -538.4       51.4       404,489.92       866,239.70       32.1076748       -103.2840189         11,025.0       26.19       0.09       10,998.2       -528.0       51.4       404,500.36       866,239.72       32.1077035       -103.2840185         11,046.1       28.72       0.03       11,017.0       -518.2       51.4       404,510.11       866,239.73       32.1077302       -103.2840182         Third Bone Spring         11,050.0       29.19       0.02       11,020.4       -516.4       51.4       404,511.98       866,239.73       32.1077305       -103.2840181         11,075.0       32.19       359.96       11,041.9       -503.6       51.4       404,514.74       866,239.73       32.1077705       -103.2840174         11,100.0       35.19       359.91       11,062.7       -489.8       51.4       404,553.54       866,239.73       32.1077806       -103.2840174         11,150.0       41.19       359.86       11,082.7       -474.8       51.4       404,569.50       866,239.68       32.1078496       -103.2840166         11,175.0       44.19       359.79       11,120.3       -441.9       51.3       404,569.50	10,975.0	0 20.19	0.30	10,952.3	-547.7	51.3	404,480.68	866,239.66	32.1076494	-103.2840194
11,025.0       26.19       0.09       10,988.2       -528.0       51.4       404,500.36       866,239.72       32.1077035       -103.2840185         11,046.1       28.72       0.03       11,017.0       -518.2       51.4       404,510.11       866,239.73       32.1077302       -103.2840185         Third Bone Spring         11,050.0       29.19       0.02       11,020.4       -516.4       51.4       404,524.74       866,239.73       32.1077354       -103.2840181         11,075.0       32.19       359.96       11,041.9       -503.6       51.4       404,524.74       866,239.73       32.1077856       -103.2840177         11,100.0       35.19       359.91       11,062.7       -489.8       51.4       404,553.54       866,239.68       32.1078086       -103.2840170         11,150.0       41.19       359.86       11,082.7       -474.8       51.3       404,569.50       866,239.64       32.1078935       -103.2840170         11,175.0       44.19       359.79       11,120.3       -441.9       51.3       404,569.50       866,239.64       32.1078935       -103.2840163         11,200.0       47.19       359.76       11,137.8       -424.0       51.2       404,604.33	11,000.0	23.19	0.18	10,975.5	-538.4	51.4	404,489.92	866,239.70	32.1076748	-103.2840189
11,046.1       28.72       0.03       11,017.0       -518.2       51.4       404,510.11       866,239.73       32.1077302       -103.2840182         Third Bone Spring         11,050.0       29.19       0.02       11,020.4       -516.4       51.4       404,511.98       866,239.73       32.1077354       -103.2840181         11,075.0       32.19       359.96       11,041.9       -503.6       51.4       404,524.74       866,239.73       32.1077705       -103.2840177         11,100.0       35.19       359.91       11,062.7       -489.8       51.4       404,538.60       866,239.71       32.1078086       -103.2840174         11,125.0       38.19       359.86       11,082.7       -474.8       51.4       404,553.54       866,239.68       32.1078496       -103.2840170         11,150.0       41.19       359.82       11,102.0       -458.9       51.3       404,560.50       866,239.64       32.1079401       -103.2840163         11,20.0       47.19       359.79       11,120.3       -441.9       51.2       404,604.33       866,239.51       32.1079401       -103.2840163         11,200.0       47.19       359.76       11,137.8       -424.0       51.2       404,604.33	11,025.0	26.19	0.09	10,998.2	-528.0	51.4	404,500.36	866,239.72	32.1077035	-103.2840185
Third Bone Spring           11,050.0         29.19         0.02         11,020.4         -516.4         51.4         404,511.98         866,239.73         32.1077354         -103.2840181           11,075.0         32.19         359.96         11,041.9         -503.6         51.4         404,524.74         866,239.73         32.107705         -103.2840177           11,100.0         35.19         359.91         11,062.7         -489.8         51.4         404,538.60         866,239.71         32.1078086         -103.2840174           11,125.0         38.19         359.86         11,082.7         -474.8         51.4         404,553.54         866,239.68         32.1078086         -103.2840170           11,150.0         41.19         359.82         11,102.0         -458.9         51.3         404,569.50         866,239.64         32.1078035         -103.2840160           11,175.0         44.19         359.79         11,120.3         -441.9         51.2         404,604.33         866,239.51         32.1079401         -103.2840163           11,200.0         47.19         359.73         11,154.3         -405.2         51.1         404,604.33         866,239.51         32.1079401         -103.2840163           11,225.0	11,046.1	1 28.72	0.03	11,017.0	-518.2	51.4	404,510.11	866,239.73	32.1077302	-103.2840182
11,050.0       29.19       0.02       11,020.4       -516.4       51.4       404,511.98       866,239.73       32.1077354       -103.2840181         11,075.0       32.19       359.96       11,041.9       -503.6       51.4       404,524.74       866,239.73       32.107705       -103.2840177         11,100.0       35.19       359.91       11,062.7       -489.8       51.4       404,538.60       866,239.71       32.1078086       -103.2840174         11,125.0       38.19       359.86       11,082.7       -474.8       51.4       404,553.54       866,239.68       32.1078086       -103.2840170         11,150.0       41.19       359.82       11,102.0       -458.9       51.3       404,569.50       866,239.64       32.1078935       -103.2840166         11,175.0       44.19       359.79       11,120.3       -441.9       51.3       404,569.50       866,239.58       32.1079401       -103.2840163         11,200.0       47.19       359.76       11,137.8       -424.0       51.2       404,604.33       866,239.51       32.1079401       -103.2840163         11,225.0       50.19       359.73       11,154.3       -405.2       51.1       404,602.311       866,239.42       32.1080408		Bone Spring	0.00	44,000,4	<b>E40</b> 4	<b>F</b> 4 - 4	404 544 00	000 000 70	20 4077254	402 2040404
11,073.0       32.19       359.30       11,041.9       -303.0       51.4       404,524.74       806,239.73       32.107703       -103.2840174         11,100.0       35.19       359.91       11,062.7       -489.8       51.4       404,538.60       866,239.71       32.1078086       -103.2840174         11,125.0       38.19       359.86       11,082.7       -474.8       51.4       404,553.54       866,239.68       32.1078496       -103.2840170         11,150.0       41.19       359.82       11,102.0       -458.9       51.3       404,569.50       866,239.64       32.1078496       -103.2840166         11,175.0       44.19       359.79       11,120.3       -441.9       51.3       404,569.50       866,239.58       32.1079401       -103.2840163         11,200.0       47.19       359.76       11,137.8       -424.0       51.2       404,604.33       866,239.51       32.1079401       -103.2840159         11,225.0       50.19       359.73       11,154.3       -405.2       51.1       404,6023.11       866,239.42       32.1080408       -103.2840150         11,250.0       53.19       359.71       11,169.8       -385.6       51.0       404,623.11       866,239.42       32.1080408 <t< td=""><td>11,050.0</td><td>J 29.19</td><td>250.06</td><td>11,020.4</td><td>-010.4</td><td>51.4</td><td>404,511.90</td><td>000,239.73</td><td>32.1077304</td><td>-103.2040101</td></t<>	11,050.0	J 29.19	250.06	11,020.4	-010.4	51.4	404,511.90	000,239.73	32.1077304	-103.2040101
11,100.0       35.19       359.91       11,062.7       -4489.6       51.4       404,553.60       866,239.71       52.1078086       -103.2840174         11,125.0       38.19       359.86       11,082.7       -474.8       51.4       404,553.54       866,239.68       32.1078496       -103.2840170         11,150.0       41.19       359.82       11,102.0       -458.9       51.3       404,569.50       866,239.64       32.1078935       -103.2840166         11,175.0       44.19       359.79       11,120.3       -441.9       51.3       404,564.55       866,239.58       32.1079401       -103.2840163         11,200.0       47.19       359.76       11,137.8       -424.0       51.2       404,604.33       866,239.51       32.1079401       -103.2840159         11,225.0       50.19       359.73       11,154.3       -405.2       51.1       404,623.11       866,239.42       32.1080408       -103.2840150         11,250.0       53.19       359.71       11,169.8       -385.6       51.0       404,623.11       866,239.42       32.108048       -103.2840150         11,275.0       56.19       359.68       11,184.2       -365.2       50.9       404,663.12       866,239.10       32.108048 <td< td=""><td>11,075.0</td><td>J 32.19</td><td>359.90</td><td>11,041.9</td><td>-503.0</td><td>51.4</td><td>404,524.74</td><td>000,239.73</td><td>32.10770000</td><td>-103.2040177</td></td<>	11,075.0	J 32.19	359.90	11,041.9	-503.0	51.4	404,524.74	000,239.73	32.10770000	-103.2040177
11, 125.0       38.19       359.60       11,082.7       -474.6       51.4       404,535.54       806,239.66       32.1078490       -103.2840170         11,150.0       41.19       359.82       11,102.0       -458.9       51.3       404,569.50       866,239.64       32.1078495       -103.2840166         11,175.0       44.19       359.79       11,120.3       -441.9       51.3       404,569.50       866,239.58       32.1078935       -103.2840163         11,200.0       47.19       359.76       11,137.8       -424.0       51.2       404,604.33       866,239.51       32.1079401       -103.2840169         11,225.0       50.19       359.73       11,154.3       -405.2       51.1       404,623.11       866,239.42       32.1080408       -103.2840159         11,250.0       53.19       359.71       11,169.8       -385.6       51.0       404,623.11       866,239.42       32.1080408       -103.2840153         11,275.0       56.19       359.68       11,184.2       -365.2       50.9       404,663.12       866,239.10       32.1080408       -103.2840150         11,300.0       59.19       359.66       11,197.6       -344.1       50.8       404,684.25       866,239.10       32.1082089       <	11,100.0	J 30.19	250.91	11,002.7	-409.0	51.4	404,556.00	000,239.71	32.1070000	-103.2040174
11,130.0       41.19       359.02       11,102.0       441.9       51.3       404,585.0       500,239.04       52.1076935       103.2840160         11,175.0       44.19       359.79       11,120.3       -441.9       51.3       404,586.45       866,239.58       32.1079401       -103.2840163         11,200.0       47.19       359.76       11,137.8       -424.0       51.2       404,604.33       866,239.51       32.1079401       -103.2840163         11,225.0       50.19       359.73       11,154.3       -405.2       51.1       404,623.11       866,239.42       32.1080408       -103.2840159         11,250.0       53.19       359.71       11,169.8       -385.6       51.0       404,623.11       866,239.42       32.1080408       -103.2840153         11,275.0       56.19       359.68       11,184.2       -365.2       50.9       404,663.12       866,239.10       32.1080408       -103.2840150         11,300.0       59.19       359.66       11,197.6       -344.1       50.8       404,684.25       866,239.10       32.1082089       -103.2840148         11,308.7       60.23       359.65       11,202.0       -336.6       50.7       404,691.77       866,239.05       32.1082296       -	11,125.0	J 30.19	359.60	11,002.7	-474.0	51.4	404,555.54	866 230 64	32.1070490	-103.2040170
11,175.0       44.19       359.79       11,120.3       444.19       51.3       404,501.43       500,239.30       52.1079401       -103.2840169         11,200.0       47.19       359.76       11,137.8       -424.0       51.2       404,604.33       866,239.51       32.1079892       -103.2840169         11,225.0       50.19       359.73       11,154.3       -405.2       51.1       404,623.11       866,239.42       32.1080408       -103.2840156         11,250.0       53.19       359.71       11,169.8       -385.6       51.0       404,642.72       866,239.33       32.1080408       -103.2840153         11,275.0       56.19       359.68       11,184.2       -365.2       50.9       404,663.12       866,239.22       32.1080408       -103.2840150         11,300.0       59.19       359.66       11,197.6       -344.1       50.8       404,684.25       866,239.10       32.1082089       -103.2840148         11,308.7       60.23       359.65       11,202.0       -336.6       50.7       404,691.77       866,239.05       32.1082296       -103.2840147	11,150.0	) 41.19 ) 44.19	359.02	11,102.0	-430.9	51.3	404,509.50	866 230 58	32.1070933	103.2040100
11,205.0       47.15       305.70       11,151.3       4424.0       51.2       404,604.35       506,239.11       32.1079032       103.2840156         11,225.0       50.19       359.73       11,154.3       4405.2       51.1       404,623.11       866,239.42       32.1080408       -103.2840156         11,250.0       53.19       359.71       11,169.8       -385.6       51.0       404,62.72       866,239.33       32.1080948       -103.2840153         11,275.0       56.19       359.68       11,184.2       -365.2       50.9       404,663.12       866,239.22       32.1080948       -103.2840150         11,300.0       59.19       359.66       11,197.6       -344.1       50.8       404,684.25       866,239.10       32.1082089       -103.2840148         11,308.7       60.23       359.65       11,202.0       -336.6       50.7       404,691.77       866,239.05       32.1082296       -103.2840147	11 200 (	) <u>44.19</u>	350 76	11,120.3 11 137 9	-441.9	51.0	404,000.40	866 239 51	32.1079401	-103.2040103
11,250.0       53.19       359.71       11,169.8       -385.6       51.0       404,642.72       866,239.33       32.1080948       -103.2840153         11,275.0       56.19       359.68       11,184.2       -365.2       50.9       404,663.12       866,239.22       32.1081508       -103.2840150         11,300.0       59.19       359.66       11,197.6       -344.1       50.8       404,684.25       866,239.10       32.1082089       -103.2840148         11,308.7       60.23       359.65       11,202.0       -336.6       50.7       404,691.77       866,239.05       32.1082296       -103.2840147	11 200.0	5 47.19	350 72	11 154 2	-405.2	51.2	404 623 11	866 230 42	32 1080408	-103 2840156
11,275.0       56.19       359.68       11,184.2       -365.2       50.9       404,663.12       866,239.22       32.1081508       -103.2840150         11,300.0       59.19       359.66       11,197.6       -344.1       50.8       404,684.25       866,239.10       32.1082089       -103.2840148         11,308.7       60.23       359.65       11,202.0       -336.6       50.7       404,691.77       866,239.05       32.1082296       -103.2840147	11 250 0	) 53.10	359 71	11 169 8	-385.6	51.0	404 642 72	866 239 33	32 1080948	-103 2840153
11,300.0         59.19         359.66         11,197.6         -344.1         50.8         404,684.25         866,239.10         32.1082089         -103.2840148           11,308.7         60.23         359.65         11,202.0         -336.6         50.7         404,691.77         866,239.05         32.1082296         -103.2840147           Wolfcamp         Wolfcamp	11 275 (	56 10	359 68	11 184 2	-365.2	50.9	404 663 12	866 239 22	32 1081508	-103 2840150
11,308.7 60.23 359.65 11,202.0 -336.6 50.7 404,691.77 866,239.05 32.1082296 -103.2840147 Wolfcamp	11 300 0	) 59.19	359.66	11 197 6	-344 1	50.8	404 684 25	866 239 10	32 1082089	-103 2840148
Wolfcamp	11 308 7	7 60.23	359.65	11,202.0	-336.6	50.7	404,691 77	866,239.05	32,1082296	-103 2840147
	Wolfer	amp		,_00	200.0			,200.00		

10/10/2022 8:26:52AM



Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well Dogwood Fed Com 25-36-20 106H
Company:	Ameredev Operating	TVD Reference:	KB=26' @ 3082.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=26' @ 3082.0usft
Site:	Dogwood_AGI	North Reference:	Grid
Well:	Dogwood Fed Com 25-36-20 106H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB	-	
Design:	PRELIM#1		

### Planned Survey

Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
11,325.0	62.19	359.64	11,209.8	-322.3	50.6	404,706.04	866,238.96	32.1082688	-103.2840145
11,350.0	65.19	359.62	11,220.9	-299.9	50.5	404,728.45	866,238.82	32.1083304	-103.2840143
11.375.0	68.19	359.60	11,230.8	-277.0	50.3	404,751,41	866.238.66	32,1083935	-103.2840141
11,400.0	71.19	359.58	11,239.5	-253.5	50.2	404,774.85	866.238.50	32,1084579	-103.2840139
11,425.0	74.19	359.57	11.246.9	-229.6	50.0	404,798,71	866.238.32	32,1085235	-103.2840137
11,450.0	77.19	359.55	11,253,1	-205.4	49.8	404,822,93	866,238,13	32,1085901	-103,2840135
11,458.0	78.14	359.54	11.254.8	-197.6	49.7	404.830.72	866.238.07	32,1086115	-103.2840135
NMNM1	38912 Entry	/ at 11458.0	MD				,		
11,475.0	80.19	359.53	11,258.0	-180.9	49.6	404,847.44	866,237.93	32.1086575	-103.2840134
11,500.0	83.19	359.52	11.261.6	-156.2	49.4	404,872,18	866.237.73	32.1087254	-103.2840133
11.525.0	86.19	359.50	11.263.9	-131.3	49.2	404,897.06	866.237.52	32,1087939	-103.2840132
11,550.0	89.19	359.49	11,265.0	-106.3	49.0	404,922,04	866.237.29	32,1088625	-103,2840131
11.556.8	90.00	359.48	11.265.0	-99.5	48.9	404.928.81	866.237.23	32.1088811	-103.2840131
Start 10	0363.0 hold	at 11556.8 I	MD - FTP (DW	/ 106H)		- ,	,		
11,600.0	90.00	359.48	11,265.0	-56.3	48.5	404,972.04	866,236.84	32.1089999	-103.2840130
11,700.0	90.00	359.48	11.265.0	43.7	47.6	405.072.03	866.235.94	32,1092748	-103.2840128
11.800.0	90.00	359.48	11.265.0	143.7	46.7	405.172.03	866.235.03	32,1095497	-103.2840126
11 900 0	90.00	359 48	11 265 0	243 7	45.8	405 272 03	866 234 12	32 1098245	-103 2840123
12 000 0	90.00	359 48	11 265 0	343 7	44.9	405 372 02	866 233 22	32 1100994	-103 2840121
12 100 0	90.00	359 48	11 265 0	443 7	44 0	405 472 02	866 232 31	32 1103743	-103 2840119
12 200 0	90.00	359 48	11 265 0	543 7	43.1	405 572 01	866 231 41	32 1106491	-103 2840117
12 300 0	90.00	359 48	11 265 0	643 7	42.2	405 672 01	866 230 50	32 1109240	-103 2840115
12 400 0	90.00	359 48	11 265 0	743.6	41.3	405 772 01	866 229 59	32 1111988	-103 2840113
12 500 0	90.00	359 48	11 265 0	843.6	40.4	405 872 00	866 228 69	32 1114737	-103 2840110
12 600 0	90.00	359 48	11 265 0	943.6	39.5	405 972 00	866 227 78	32 1117486	-103 2840108
12,000.0	90.00	359 48	11 265 0	1 043 6	38.5	406 071 99	866 226 87	32 1120234	-103 2840106
12,800.0	90.00	359.48	11 265 0	1 143 6	37.6	406 171 99	866 225 97	32 1122983	-103 2840104
12,000.0	90.00	359.48	11 265 0	1 243 6	36.7	406 271 99	866 225 06	32 1125731	-103 2840102
13 000 0	90.00	359.48	11 265 0	1 343 6	35.8	406 371 98	866 224 16	32 1128480	-103 2840099
13 100 0	90.00	359.48	11 265 0	1 443 6	34.9	406 471 98	866 223 25	32 1131229	-103 2840097
13 200 0	90.00	359.48	11 265 0	1 543 6	34.0	406 571 97	866 222 34	32 1133977	-103 2840095
13 300 0	90.00	359.48	11 265 0	1 643 6	33.1	406 671 97	866 221 44	32 1136726	-103 2840093
13 400 0	90.00	359.48	11 265 0	1 743 6	32.2	406 771 96	866 220 53	32 1139475	-103 2840091
13 500 0	90.00	359.48	11 265 0	1 843 6	31.3	406 871 96	866 219 63	32 1142223	-103 2840089
13 600 0	90.00	359.48	11 265 0	1 943 6	30.4	406 971 96	866 218 72	32 1144972	-103 2840086
13 700 0	90.00	359.48	11 265 0	2 043 6	29.5	407 071 95	866 217 81	32 1147720	-103 2840084
13 800 0	90.00	359.48	11 265 0	2 143 6	28.6	407 171 95	866 216 91	32 1150469	-103 2840082
13,900,0	90.00	359 48	11 265 0	2 243 6	27.7	407 271 94	866 216 00	32 1153218	-103 2840080
14 000 0	90.00	359.48	11 265 0	2 343 6	26.8	407 371 94	866 215 10	32 1155966	-103 2840078
14 100 0	90.00	359.48	11 265 0	2 443 6	25.9	407 471 94	866 214 19	32 1158715	-103 2840075
14 200 0	90.00	359.48	11 265 0	2 543 6	25.0	407 571 93	866 213 28	32 1161464	-103 2840073
14 300 0	90.00	359.48	11 265 0	2 643 6	24.0	407 671 93	866 212 38	32 1164212	-103 2840071
14 400 0	90.00	359.48	11 265 0	2 743 6	23.1	407 771 92	866 211 47	32 1166961	-103 2840069
14 500 0	90.00	359.48	11 265 0	2 843 6	22.2	407 871 92	866 210 56	32 1169709	-103 2840067
14 600 0	90.00	359.48	11 265 0	2 943 6	21.3	407 971 92	866 209 66	32 1172458	-103 2840065
14 700 0	90.00	359.48	11 265 0	3 043 6	20.4	408 071 91	866 208 75	32 1175207	-103 2840062
14,700.0	90.00	359.48	11 265 0	3 143 6	19.5	408 171 91	866 207 85	32 1177955	-103 2840060
14 900 0	90.00	359 48	11 265 0	3 243 5	18.6	408 271 90	866 206 94	32 1180704	-103 2840058
15 000 0	QU UU	350 49	11 265 0	3 343 5	17.7	408 371 00	866 206 03	32 1183/153	-103 2840056
15,000.0	QU UU	350 49	11 265 0	3 4 4 3 5	16.8	408 471 80	866 205 13	32 1186201	-103 2840054
15,100.0	QU UU	350 49	11 265 0	3 543 5	15.0	408 571 80	866 204 22	32 1188050	-103 2840054
15 200.0	QU UU	350 49	11 265 0	3 643 5	15.0	408 671 80	866 203 32	32 1101608	-103 2840040
15 /00 0	00.00	350 / 2	11 265 0	37125	1/ 1	408 771 88	866 202 /1	32 110///7	-103.2040049
15,400.0	90.00	350 12	11,203.0	38135	14.1	400,771.00	866 201 50	32.1134447	-103.2040047
13,300.0	90.00	559.40	11,200.0	0,040.0	13.2	400,071.00	000,201.00	52.1197.190	-105.2040045



Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well Dogwood Fed Com 25-36-20 106H
Company:	Ameredev Operating	TVD Reference:	KB=26' @ 3082.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=26' @ 3082.0usft
Site:	Dogwood_AGI	North Reference:	Grid
Well:	Dogwood Fed Com 25-36-20 106H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PRELIM#1		

### Planned Survey

Measured			Vertical			Map	Map Faction		
Uepth (usft)	Inclination (°)	Azimuth (°)	Uepth (usft)	+N/-S (usft)	+E/-W (usft)	(usft)	Lasting (usft)	Latitude	Longitude
15 600 0	00.00	350.48	11 265 0	3 0/3 5	12.2	408 071 87	866 200 60	22 1100044	103 2840043
15,000.0	90.00	359.40	11 265 0	4 043 5	12.5	400,971.07	866 199 69	32 1202693	-103 2840043
15,700.0	90.00	359.48	11 265 0	4 143 5	10.5	409,071.07	866 198 78	32 1202033	-103 2840038
15,000.0	90.00	359 48	11 265 0	4 243 5	9.6	409 271 86	866 197 88	32 1208190	-103 2840036
16,000.0	90.00	359 48	11 265 0	4 343 5	8.6	409 371 86	866 196 97	32 1210939	-103 2840034
16,100.0	90.00	359.48	11.265.0	4,443.5	7.7	409.471.85	866.196.07	32.1213687	-103.2840032
16.200.0	90.00	359.48	11.265.0	4.543.5	6.8	409.571.85	866,195,16	32.1216436	-103.2840030
16,300.0	90.00	359.48	11,265.0	4,643.5	5.9	409,671.85	866,194.25	32.1219185	-103.2840027
16,400.0	90.00	359.48	11,265.0	4,743.5	5.0	409,771.84	866,193.35	32.1221933	-103.2840025
16,500.0	90.00	359.48	11,265.0	4,843.5	4.1	409,871.84	866,192.44	32.1224682	-103.2840023
16,600.0	90.00	359.48	11,265.0	4,943.5	3.2	409,971.83	866,191.54	32.1227430	-103.2840021
16,700.0	90.00	359.48	11,265.0	5,043.5	2.3	410,071.83	866,190.63	32.1230179	-103.2840019
16,740.0	90.00	359.48	11,265.0	5,083.4	1.9	410,111.79	866,190.27	32.1231278	-103.2840018
NMNM1	138912 Exit	at 16740.0 I	MD						
16,800.0	90.00	359.48	11,265.0	5,143.5	1.4	410,171.83	866,189.72	32.1232928	-103.2840016
16,900.0	90.00	359.48	11,265.0	5,243.5	0.5	410,271.82	866,188.82	32.1235676	-103.2840014
17,000.0	90.00	359.48	11,265.0	5,343.5	-0.4	410,371.82	866,187.91	32.1238425	-103.2840012
17,100.0	90.00	359.48	11,265.0	5,443.5	-1.3	410,471.81	866,187.01	32.1241174	-103.2840010
17,200.0	90.00	359.48	11,265.0	5,543.5	-2.2	410,571.81	866,186.10	32.1243922	-103.2840008
17,300.0	90.00	359.48	11,265.0	5,643.4	-3.1	410,671.80	866,185.19	32.1246671	-103.2840006
17,400.0	90.00	359.48	11,265.0	5,743.4	-4.0	410,771.80	866,184.29	32.1249419	-103.2840003
17,500.0	90.00	359.48	11,265.0	5,843.4	-4.9	410,871.80	866,183.38	32.1252168	-103.2840001
17,000.0	90.00	359.40	11,205.0	5,943.4	-5.9	410,971.79	000,102.47	32.1234917	-103.2039999
17,700.0	90.00	359.48	11,205.0	6 1 4 2 4	-0.8 7 7	411,071.79	800,181.57	32.125/005	-103.2839997
17,000.0	90.00	250.40	11,205.0	6 242 4	-1.1	411,171.70	000,100.00 966 170 76	32.1200414	103.2039993
18,000.0	90.00	359.40	11,205.0	0,243.4 6 3/3 /	-0.0	411,271.70	866 178 85	32.1203102	-103.2039992
18,000.0	90.00	350.40	11 265 0	6 4 4 3 4	-9.5	411,371.70	866 177 94	32.1203911	-103.2039390
18 200 0	90.00	359.48	11 265 0	6 543 4	-11.3	411 571 77	866 177 04	32 1271408	-103 2839986
18,300.0	90.00	359.48	11 265 0	6 643 4	-12.2	411 671 76	866 176 13	32 1274157	-103 2839984
18,400.0	90.00	359.48	11,265.0	6.743.4	-13.1	411.771.76	866.175.23	32.1276906	-103.2839981
18,500.0	90.00	359.48	11,265.0	6.843.4	-14.0	411.871.76	866.174.32	32.1279654	-103.2839979
18,600.0	90.00	359.48	11,265.0	6,943.4	-14.9	411,971.75	866,173.41	32.1282403	-103.2839977
18,700.0	90.00	359.48	11,265.0	7,043.4	-15.8	412,071.75	866,172.51	32.1285151	-103.2839975
18,800.0	90.00	359.48	11,265.0	7,143.4	-16.7	412,171.74	866,171.60	32.1287900	-103.2839973
18,900.0	90.00	359.48	11,265.0	7,243.4	-17.6	412,271.74	866,170.70	32.1290649	-103.2839970
19,000.0	90.00	359.48	11,265.0	7,343.4	-18.5	412,371.73	866,169.79	32.1293397	-103.2839968
19,100.0	90.00	359.48	11,265.0	7,443.4	-19.4	412,471.73	866,168.88	32.1296146	-103.2839966
19,200.0	90.00	359.48	11,265.0	7,543.4	-20.4	412,571.73	866,167.98	32.1298894	-103.2839964
19,300.0	90.00	359.48	11,265.0	7,643.4	-21.3	412,671.72	866,167.07	32.1301643	-103.2839962
19,400.0	90.00	359.48	11,265.0	7,743.4	-22.2	412,771.72	866,166.16	32.1304392	-103.2839959
19,500.0	90.00	359.48	11,265.0	7,843.4	-23.1	412,871.71	866,165.26	32.1307140	-103.2839957
19,600.0	90.00	359.48	11,265.0	7,943.4	-24.0	412,971.71	866,164.35	32.1309889	-103.2839955
19,700.0	90.00	359.48	11,265.0	8,043.4	-24.9	413,071.71	866,163.45	32.1312638	-103.2839953
19,800.0	90.00	359.48	11,265.0	8,143.3	-25.8	413,171.70	866,162.54	32.1315386	-103.2839951
19,900.0	90.00	359.48	11,265.0	8,243.3	-26.7	413,271.70	866,161.63	32.1318135	-103.2839948
20,000.0	90.00	359.48	11,265.0	8,343.3	-27.6	413,3/1.69	866,160.73	32.1320883	-103.2839946
20,100.0	90.00	359.48	11,265.0	8,443.3	-28.5	413,471.69	866,159.82	32.1323632	-103.2839944
20,200.0	90.00	359.48	11,265.0	8,543.3	-29.4	413,571.69	866,158.92	32.1326381	-103.2839942
20,300.0	90.00	359.48	11,265.0	0,043.3	-30.3	413,671.68	866 157 10	32.1329129	-103.2839940
20,400.0	90.00	359.48	11,205.0	0,143.3	-31.2	413,771.08	000,157.10	32.13318/8	-103.2839937
20,500.0	90.00	309.48 350 10	11,200.0	0,043.3 8 012 2	-32.1 _33.0	413,0/1.0/	000,100.20 866 155 20	32.1334020 32.1327275	-103.2039935
20,000.0	90.00	2220 10	11 265 0	0,943.3	-33.0	413,371.07	866 154 29	32.133/3/3	-103.2039933
20,700.0	90.00	559.40	11,205.0	3,045.5	-33.8	414,071.07	000,104.00	52.1540124	-100.2009901

10/10/2022 8:26:52AM



Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well Dogwood Fed Com 25-36-20 106H
Company:	Ameredev Operating	TVD Reference:	KB=26' @ 3082.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=26' @ 3082.0usft
Site:	Dogwood_AGI	North Reference:	Grid
Well:	Dogwood Fed Com 25-36-20 106H	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
20,800.0	90.00	359.48	11,265.0	9,143.3	-34.8	414,171.66	866,153.48	32.1342872	-103.2839929
20,900.0	90.00	359.48	11,265.0	9,243.3	-35.8	414,271.66	866,152.57	32.1345621	-103.2839926
21,000.0	90.00	359.48	11,265.0	9,343.3	-36.7	414,371.65	866,151.67	32.1348370	-103.2839924
21,100.0	90.00	359.48	11,265.0	9,443.3	-37.6	414,471.65	866,150.76	32.1351118	-103.2839922
21,200.0	90.00	359.48	11,265.0	9,543.3	-38.5	414,571.64	866,149.85	32.1353867	-103.2839920
21,300.0	90.00	359.48	11,265.0	9,643.3	-39.4	414,671.64	866,148.95	32.1356615	-103.2839918
21,400.0	90.00	359.48	11,265.0	9,743.3	-40.3	414,771.64	866,148.04	32.1359364	-103.2839915
21,500.0	90.00	359.48	11,265.0	9,843.3	-41.2	414,871.63	866,147.14	32.1362113	-103.2839913
21,600.0	90.00	359.48	11,265.0	9,943.3	-42.1	414,971.63	866,146.23	32.1364861	-103.2839911
21,700.0	90.00	359.48	11,265.0	10,043.3	-43.0	415,071.62	866,145.32	32.1367610	-103.2839909
21,800.0	90.00	359.48	11,265.0	10,143.3	-43.9	415,171.62	866,144.42	32.1370358	-103.2839907
21,900.0	90.00	359.48	11,265.0	10,243.3	-44.8	415,271.62	866,143.51	32.1373107	-103.2839904
21,919.8	90.00	359.48	11,265.0	10,263.0	-45.0	415,291.38	866,143.33	32.1373650	-103.2839904
Start 5	0.0 hold at 2	1919.8 MD	- LTP (DW 10	6H)					
21,969.8	90.00	359.48	11,265.0	10,313.0	-45.4	415,341.36	866,142.88	32.1375024	-103.2839903
TD at 2	1969.8 - BHI	L (DW 106H	I)						

### **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 106H) - plan hits target c - Point	0.00 enter	0.00	11,265.0	10,313.0	-45.4	415,341.36	866,142.88	32.1375024	-103.2839903
FTP (DW 106H) - plan hits target c - Point	0.00 enter	0.00	11,265.0	-99.5	48.9	404,928.81	866,237.23	32.1088811	-103.2840131
LTP (DW 106H) - plan hits target c - Point	0.00 enter	0.00	11,265.0	10,263.0	-45.0	415,291.38	866,143.30	32.1373650	-103.2839905

### Formations

1	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,172.0	1,172.0	Rustler		0.00	
	1,726.0	1,726.0	Salado		0.00	
	3,353.7	3,351.0	Tansill			
	3,929.0	3,925.0	Capitan			
	5,085.6	5,079.0	Lamar			
	5,242.9	5,236.0	Bell Canyon			
	7,109.1	7,098.0	Brushy Canyon			
	8,017.1	8,004.0	Bone Spring Lime			
	9,466.3	9,450.0	First Bone Spring			
	9,948.4	9,931.0	Second Bone Spring			
	10,468.5	10,450.0	Upper Third Bone Spring			
	11,046.1	11,017.0	Third Bone Spring			
	11,308.7	11,202.0	Wolfcamp			

10/10/2022 8:26:52AM



# Planning Report - Geographic

AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well Dogwood Fed Com 25-36-20 106H
Ameredev Operating	TVD Reference:	KB=26' @ 3082.0usft
Lea County, NM (N83-NME)	MD Reference:	KB=26' @ 3082.0usft
Dogwood_AGI	North Reference:	Grid
Dogwood Fed Com 25-36-20 106H	Survey Calculation Method:	Minimum Curvature
OWB		
PRELIM#1		
	AUS-COMPASS - EDM_15 - 32bit Ameredev Operating Lea County, NM (N83-NME) Dogwood_AGI Dogwood Fed Com 25-36-20 106H OWB PRELIM#1	AUS-COMPASS - EDM_15 - 32bit Ameredev Operating Lea County, NM (N83-NME) Dogwood_AGI Dogwood Fed Com 25-36-20 106H OWB PRELIM#1 Local Co-ordinate Reference: TVD Reference: North Reference: Survey Calculation Method:

### Plan Annotations

Measured	Vertical	Local Coordinates		
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
2,191.0	2,190.8	-6.3	0.6	Start 8584.1 hold at 2191.0 MD
5,080.0	5,073.4	-198.0	17.4	NMNM138912 Exit at 5080.0 MD
10,775.0	10,755.8	-576.0	50.6	Start DLS 12.00 TFO -175.49
11,458.0	11,254.8	-197.6	49.7	NMNM138912 Entry at 11458.0 MD
11,556.8	11,265.0	-99.5	48.9	Start 10363.0 hold at 11556.8 MD
16,740.0	11,265.0	5,083.4	1.9	NMNM138912 Exit at 16740.0 MD
21,919.8	11,265.0	10,263.0	-45.0	Start 50.0 hold at 21919.8 MD
21,969.8	11,265.0	10,313.0	-45.4	TD at 21969.8

### PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Ameredev Operating LLC
LEASE NO.:	NMNM138912
COUNTY:	Lea

#### Wells:

Proposed Well Pad 4N Dogwood 25 36 20 Fed Com 104H Surface Hole Location: 200' FSL & 1780' FWL, Section 20, T. 25 S, R. 36 E. Bottom Hole Location: 50' FNL & 2260' FWL, Section 17, T. 25 S, R. 36 E.

Dogwood 25 36 20 Fed Com 124H Surface Hole Location: 200' FSL & 1760' FWL, Section 20, T. 25 S, R. 36 E. Bottom Hole Location: 50' FNL & 2105' FWL, Section 17, T. 25 S, R. 36 E.

Dogwood 25 36 20 Fed Com 093H Surface Hole Location: 200' FSL & 1740' FWL, Section 20, T. 25 S, R. 36 E. Bottom Hole Location: 50' FNL & 1790' FWL, Section 17, T. 25 S, R. 36 E.

Dogwood 25 36 20 Fed Com 113H Surface Hole Location: 200' FSL & 1720' FWL, Section 20, T. 25 S, R. 36 E. Bottom Hole Location: 50' FNL & 1615' FWL, Section 17, T. 25 S, R. 36 E.

<u>Proposed Well Pad 9N</u> Dogwood 25 36 20 Fed Com 108H Surface Hole Location: 200' FSL & 846' FEL, Section 20, T. 25 S, R. 36 E. Bottom Hole Location: 50' FNL & 380' FEL, Section 17, T. 25 S, R. 36 E.

Dogwood 25 36 20 Fed Com 128H Surface Hole Location: 200' FSL & 866' FEL, Section 20, T. 25 S, R. 36 E. Bottom Hole Location: 50' FNL & 535' FEL, Section 17, T. 25 S, R. 36 E.

Dogwood 25 36 20 Fed Com 097H Surface Hole Location: 200' FSL & 886' FEL, Section 20, T. 25 S, R. 36 E. Bottom Hole Location: 50' FNL & 850' FEL, Section 17, T. 25 S, R. 36 E.

Dogwood 25 36 20 Fed Com 117H Surface Hole Location: 200' FSL & 906' FEL, Section 20, T. 25 S, R. 36 E. Bottom Hole Location: 50' FNL & 1025' FEL, Section 17, T. 25 S, R. 36 E.

<u>Approved Well Pad 3N</u> Dogwood 25 36 20 Fed Com 111H Surface Hole Location: 200' FSL & 360' FWL, Section 20, T. 25 S, R. 36 E. Bottom Hole Location: 50' FNL & 380' FWL, Section 17, T. 25 S, R. 36 E.

Dogwood 25 36 20 Fed Com 122H Surface Hole Location: 200' FSL & 400' FWL, Section 20, T. 25 S, R. 36 E. Bottom Hole Location: 50' FNL & 850' FWL, Section 17, T. 25 S, R. 36 E.

Approved Well Pad 7N Dogwood 25 36 20 Fed Com 106H Surface Hole Location: 200' FSL & 1720' FEL, Section 20, T. 25 S, R. 36 E. Bottom Hole Location: 50' FNL & 1672' FEL, Section 17, T. 25 S, R. 36 E.

Dogwood 25 36 20 Fed Com 126H Surface Hole Location: 200' FSL & 1740' FEL, Section 20, T. 25 S, R. 36 E. Bottom Hole Location: 50' FNL & 1790' FEL, Section 17, T. 25 S, R. 36 E.

Dogwood 25 36 20 Fed Com 095H Surface Hole Location: 200' FSL & 1760' FEL, Section 20, T. 25 S, R. 36 E. Bottom Hole Location: 50' FNL & 2105' FEL, Section 17, T. 25 S, R. 36 E.

Dogwood 25 36 20 Fed Com 115H Surface Hole Location: 200' FSL & 1780' FEL, Section 20, T. 25 S, R. 36 E. Bottom Hole Location: 50' FNL & 2260' FEL, Section 17, T. 25 S, R. 36 E.

### TABLE OF CONTENTS

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

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Watershed
Lesser Prairie Chicken
Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
Production (Post Drilling)
Well Structures & Facilities
Interim Reclamation
Final Abandonment & Reclamation

### I. GENERAL PROVISIONS

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

### **II. PERMIT EXPIRATION**

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

### III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

### OR

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

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

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

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

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

### IV. NOXIOUS WEEDS

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

### V. SPECIAL REQUIREMENT(S)

### Watershed:

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

### Lesser Prairie Chicken:

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

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

### Timing Limitation Exceptions:

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

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

## VI. CONSTRUCTION

## A. NOTIFICATION

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

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

### B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

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

# C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

### D. FEDERAL MINERAL MATERIALS PIT

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

#### E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

# F. EXCLOSURE FENCING (CELLARS & PITS)

#### **Exclosure Fencing**

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is

free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

# G. ON LEASE ACCESS ROADS

### Road Width

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

### Surfacing

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

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

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

### Crowning

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

# Ditching

Ditching shall be required on both sides of the road.

#### Turnouts

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

#### Drainage

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

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

**Cross Section of a Typical Lead-off Ditch** 



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

### Formula for Spacing Interval of Lead-off Ditches

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

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

### Cattle guards

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

#### Fence Requirement

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

#### **Public Access**

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





## VII. PRODUCTION (POST DRILLING)

### A. WELL STRUCTURES & FACILITIES

#### **Placement of Production Facilities**

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

#### Exclosure Netting (Open-top Tanks)

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

#### Chemical and Fuel Secondary Containment and Exclosure Screening

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

#### **Open-Vent Exhaust Stack Exclosures**

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

#### **Containment Structures**

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

#### **Painting Requirement**

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

#### VIII. INTERIM RECLAMATION

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

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

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

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

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

## IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

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

### Seed Mixture for LPC Sand/Shinnery Sites

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

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

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

Species	<u>lb/acre</u>
Plains Bristlegrass Sand Bluestem Little Bluestem Big Bluestem Plains Coreopsis Sand Dropseed	5lbs/A 5lbs/A 3lbs/A 6lbs/A 2lbs/A 1lbs/A

\*Pounds of pure live seed:

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

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Ameredev Operating LLC
WELL NAME & NO.:	Dogwood 25 36 20 Fed Com 106H
LOCATION:	Sec 20-25S-36E-NMP
COUNTY:	Lea County, New Mexico

# COA

H <sub>2</sub> 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 1298 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

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

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

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office. 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:
  - 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.
- 3. 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 CountyCall 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 2<sup>nd</sup> 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

# B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **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, cutoff 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.



# H<sub>2</sub>S Drilling Operation Plan

- 1. <u>All Company and Contract personnel admitted on location must be trained by a qualified H<sub>2</sub>S</u> <u>safety instructor to the following:</u>
  - a. Characteristics of H<sub>2</sub>S
  - **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. H<sub>2</sub>S Detection and Alarm Systems:

- a. H<sub>2</sub>S 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 H<sub>2</sub>S 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.



# H<sub>2</sub>S 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 H<sub>2</sub>S service.
- **b.** Drilling Contractor supervisor will be required to be familiar with the effect H<sub>2</sub>S has on tubular goods and other mechanical equipment provided through contractor.



# H<sub>2</sub>S Contingency Plan

# **Emergency Procedures**

In the event of a release of H<sub>2</sub>S, 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 H<sub>2</sub>S 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:
  - $\circ$  Detection of H<sub>2</sub>S and
  - Measures for protection against the gas,
  - Equipment used for protection and emergency response.

### **Ignition of Gas Source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). 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 Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air=1	2 ppm	N/A	1000 ppm

# Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

#### **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)



# H<sub>2</sub>S Contingency Plan

Ameredev Operating LLC – Emergency Phone 737-300-4799				
Key Personnel:				
Name	Title	Office	Mobile	
Floyd Hammond	Chief Operating officer	737-300-4724	512-783-6810	
Shane McNeely	Operations Engineer	737-300-4729	432-413-8593	
Dayeed Khan	Construction Manager	737-300-4733	281-928-4692	

<u>Artesia</u>	
Ambulance	911
State Police	575-748-9718
City Police	575-746-5000
Sheriff's Office	575-887-7551
Fire Department	575-746-5051
Artesia General Hospital	575-748-3333
New Mexico Oil Conservation Division	575-626-0830
<u>Carlsbad</u>	
Ambulance	911
State Police	575-885-3138
City Police	575-885-2111
Sheriff's Office	575-887-7551
Fire Department	575-885-3125
Carlsbad Medical Center	575-887-4100
Hobbs Hospital	575-492-5000
BLM Hobbs Field Office	575-689-5981
BLM Carlsbad Field Office	575-361-2822
New Mexico Oil Conservation Division	575-626-0830
Santa Fe	
Department of Homeland Security and Emergency Management (Santa Fe)	505-476-9600
New Mexico State Emergency Operations Center	505-476-9635
National	
National Emergency Response Center (Washington, D.C.)	800-424-8802
Medical	
Aerocare - R3, Box 49F; Lubbock, TX	800-627-2376
Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM	505-842-4433
Lifeguard Air Emergency Services- 2505 Clark Carr Loop S.E.; Albuquerque, NM	505-243-2343

#### Received by OCD: 9/27/2023 9:19:39 AM

# **WAFMSS**

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

APD ID: 10400088634

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\_106H\_\_\_ACCESS\_MAP\_20221013104938.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? YES

Submission Date: 10/13/2022

Well Number: 106H

Well Work Type: Drill

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\_25\_36\_20\_FED\_COM\_106H\_\_\_ACCESS\_MAP\_20221013104951.pdf

Dogwood\_Road\_20221013092044.pdf

EP\_PEACH\_BATTERY\_ROAD\_SEC\_21\_S\_20221013092044.pdf

Feet

New road type: RESOURCE

Length: 2662

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

Page 56 of 79

09/22/2023

Highlighted data reflects the most

recent changes

Show Final Text

SUPO Data Repor

**Operator Name:** AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 106H

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\_106H\_\_\_ONE\_MILE\_RADIUS\_20230512162116.pdf

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

# Submit or defer a Proposed Production Facilities plan? SUBMIT

**Production Facilities description:** Produced oil, gas, and water from the proposed well will be transported for approximately 2,160' via buried flowlines in a 30' ROW from the Dogwood 25 36 20 Fed Com 106H to the Peach CTB northeast of the well pad. The Peach CTB is a 525'x500' pad located in the SWSW of Section 21-T25S-R36E. A 4" buried Shawcor FP301 flowline (750 psi maximum) will run from each wellhead to a satellite battery at the Peach CTB, carrying oil, gas, and water. The satellite battery consists of a 3-phase separator for each well flowing into location, along with a 2-phase scrubber. Gas is sold directly off the scrubber to an existing adjacent sales line and oil and water flow from the 3-phase separator into separate gathering lines on the Peach CTB location. A 12" buried HDPE SDR 11 gathering line (100 psi maximum) will carry produced

**Operator Name: AMEREDEV OPERATING LLC** 

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 106H

water from the satellite to the CTB. A 12" buried HDPE SDR 11 gathering line (100 psi maximum) will carry gas from the satellite to an existing gas sales line that runs in the flowline easement adjacent to the well pad. No flares independent of the proposed CTB location will be necessary for this project. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1.5 times the capacity of the largest tank and away from cut or fill areas. All electrical lines will be run from the well pad to tie into to existing electrical lines on the north side of the well pad. This distance is a maximum approximation and may vary based on lease road corridors, varying elevations and terrain in the area.

### **Production Facilities map:**

BO\_PEACH\_BATTERY\_SITE\_S\_20230512162202.pdf EP\_DOGWOOD\_FLOWLINE\_SEC\_21\_S\_20230512162201.pdf EP\_DOGWOOD\_FLOWLINE\_SEC\_20\_S\_20230512162203.pdf

Section 5 - Location an	nd Types of Water Supply	/
Water Source Tab	le	
Water source type: GW WELL		
Water source use type:	DUST CONTROL	
	SURFACE CASING	
	INTERMEDIATE/PRODUCTION CASING STIMULATION	
Source latitude:		Source
Source datum:		
Water source permit type:	PRIVATE CONTRACT	
Water source transport method:	PIPELINE	
	TRUCKING	
Source land ownership: PRIVATE		
Source transportation land owners	ship: FEDERAL	
Water source volume (barrels): 20	000	Source

Source volume (gal): 840000

#### Water source and transportation

 $\mathsf{DOGWOOD\_25\_36\_20\_FED\_COM\_106H\_\_WATER\_WELLS\_LIST\_20221013105219.pdf}$ 

DOGWOOD\_25\_36\_20\_FED\_COM\_106H\_\_\_WATER\_MAP\_20221013105219.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 Received by OCD: 9/27/2023 9:19:39 AM

**Operator Name: AMEREDEV OPERATING LLC** 

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 106H

# **New Water Well Info**

Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of a	quifer:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside d	iameter (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\_25\_36\_20\_FED\_COM\_106H\_\_\_CALICHE\_MAP\_20221013114436.pdf DOGWOOD\_25\_36\_20\_FED\_COM\_106H\_\_\_WELLSITE\_20230512162428.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: Well Name: DOGWOOD 25 36 20 FED COM

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

# **Reserve Pit**

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

**Reserve pit liner** 

Reserve pit liner specifications and installation description

# **Cuttings Area**

Cuttings Area being used? NO Are you storing cuttings on location? Y Description of cuttings location Steel tanks on pad Cuttings area length (ft.) Cuttings area width (ft.) Cuttings area depth (ft.) Cuttings area volume (cu. yd.) Is at least 50% of the cuttings area in cut? WCuttings area liner Cuttings area liner specifications and installation description

**Section 8 - Ancillary** 

Are you requesting any Ancillary Facilities?: N Ancillary Facilities

Comments:

# Section 9 - Well Site

# Well Site Layout Diagram:

DOGWOOD\_25\_36\_20\_FED\_COM\_106H\_\_\_WELLSITE\_20230512162456.pdf BO\_DOGWOOD\_7N\_PAD\_SITE\_S\_20230512162505.pdf **Comments:**  Received by OCD: 9/27/2023 9:19:39 AM

**Operator Name: AMEREDEV OPERATING LLC** 

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 106H

# Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: DW Multiple Well Pad Number: #7N

# Recontouring

DOGWOOD\_25\_36\_20\_FED\_COM\_106H\_\_\_WELLSITE\_20230512162528.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): 1.83	Road interim reclamation (acres): 0	Road long term disturbance (acres): 1.83
Powerline proposed disturbance (acres): 0.01	<b>Powerline interim reclamation (acres):</b> 0	Powerline long term disturbance (acres): 0.01
Pipeline proposed disturbance (acres): 1.49	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 1.49
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 7.92	Total interim reclamation: 0.37	Total long term disturbance: 7.55

# **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 four 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: 106H

# 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 Summary		Total pounds/Acre:	
	Seed Type	Pounds/Acre		
Seed	reclamation			
	Operator Co	ontact/Responsible	e Official	
Fir	st Name: Patrick		Last Name: Kelley	
Ph	one: (404)402-9980		Email: pkelley@ameredev.cor	
Seed	bed prep:			
Seed	BMP:			
Seed	method:			
Exist	ing invasive species? N	I		
Exist	ing invasive species tre	eatment description:		
Exist	ing invasive species tre	eatment		
Weed	l treatment plan descrip	otion: To BLM standards		
Weed	treatment plan			
Moni	toring plan description:	To BLM standards		
Moni	toring plan			

**Operator Name:** AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 106H

Success standards: To BLM satisfaction

Pit closure description: No Pit

Pit closure attachment:

# Section 11 - Surface

**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:

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 106H

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: NEW ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

**BIA Local Office:** 

Page 9 of 13

Operator Name: AMEREDEV OPERATING LLC Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 106H

**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: 106H

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:** 

**Operator Name: AMEREDEV OPERATING LLC** 

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 106H

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:

Surface Access Bond BEN OF FORESt Serv

**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?  $\ensuremath{\mathsf{N}}$ 

**Previous Onsite information:** 

# Other SUPO

Dogwood\_25\_36\_20\_Fed\_Com\_106H\_SUPO\_REV\_20230512162638.pdf

Received by OCD: 9/27/2023 9:19:39 AM

# Received by OCD: 9/27/2023 9:19:39 AM

# AFMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Page 69 of 79

PWD Data Report

09/22/2023 APD ID: 10400088634 Submission Date: 10/13/2022 **Operator Name: AMEREDEV OPERATING LLC** Well Name: DOGWOOD 25 36 20 FED COM Well Number: 106H Well Type: OIL WELL Well Work Type: Drill

Section 1 - General

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

# **Section 2 - Lined**

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):

# Operator Name: AMEREDEV OPERATING LLC

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 106H

# 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?

# **Operator Name: AMEREDEV OPERATING LLC**

Well Name: DOGWOOD 25 36 20 FED COM

Well Number: 106H

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):

# **Wellbore Schematic**

Well:	Dogwood 25 36 20 Fed Com 106H	Co. Well ID:	XXXXXX
SHL:	SEC. 20, T25S, R36E, 200' FSL, 1720' FEL	AFE No.:	XXXX-XXX
BHL:	SEC. 17, T25S, R36E, 50' FNL, 1672' FEL	API No.:	XXXXXXXXXXX
	Lea, NM	GL:	3056
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 XY
	C - 13-5/8" 10M x 13-5/8" 10M	TVD:	11265
	Tubing Spool - 7-1/16" 15M x 13-3/8" 10M	MD:	21970
Xmas Tree:	2-9/16" 10M	Rig:	TBD <b>KB</b> 27'
Tubing:	2-7/8" L-80 6.5# 8rd EUE	E-Mail:	DrillingCR@ameredev.com

Hole Size	Formation Tops		Logs	Cemen	t Mud Weight
17.5"	Rustler 13.375" 68# J-55 BTC	1,173' <b>1,298'</b>		1,071 Sacks TOC 0'	8.4-8.6 ppg WBM
	Salado	1,727' 3,352'		844 Sacks TOC 0'	DU % EXCESS
12 25"	Tansill	3,352'			
	Capitan Reef	3,926'			
	Lamar	5,080'			oislu
	Bell Canyon	5,237'			Ē
	No Casing	5,205'		srine	
	Brushy Canyon	7,099'			4 Diesel B
	Bone Spring Lime	8,005'			2-0.
9.875"	First Bone Spring	9,451'			7.5
	Second Bone Spring	Second Bone Spring9,932'Third Bone Spring Upper10,451'		(0	0
	Third Bone Spring Upper			Sack: 0' Exces:	See
	7.625" 29.7# L-80HC BTC	10,576'		1,116 TOC (	% 20
6.75"	Third Bone Spring	11,018'			Σ
12° Build	Wolfcamp	11,203'			g OB
@ 10775					.5 pp
thru 5	5" 23# P-110 USS-Eagle SFH	21970		acks	-12 -12
11557 Target	Wolfcamp XY 11265 TVD // 21970 MD			0 Sé	10.5
				1,711 TOC	% C7


# 5M Annular Preventer Variance Request and Well Control Procedures

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

## Dual Isolation Design for 5M Annular Exception

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

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

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

Drill Components	Size	Primary Barrier	Secondary Barrier	Third Barrier		
Drillpipe	3-1/2"-5-1/2"	Drilling Fluid	Upper Pipe Rams	Lower Pipe Rams		
HWDP Drillpipe	3-1/2"-5-1/2"	Drilling Fluid	Upper Pipe Rams	Lower Pipe Rams		
Drill Collars	3-1/2"-5-1/2"	Drilling Fluid	Upper Pipe Rams	Lower Pipe Rams		
Production Casing	3-1/2"-5-1/2"	Drilling Fluid	Upper Pipe Rams	Lower Pipe Rams		
0pen Hole	13-5/8	Drilling Fluid	Blind Rams			
All Drilling Components in 10M Environment will have OD that will allow full Operational RATED						
WORKING PRESSURE for system design. Kill line with minimum 2" ID will be available outside						
substructure with 10M Check Valve for OOH Kill Operations						

## **Well Control Procedures**

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

#### **Shutting In While Drilling**

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

#### **Shutting In While Tripping**

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

#### Shutting In While Running Casing

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

#### Shutting in while out of hole

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

#### Shutting in prior to pulling BHA through stack

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

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

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

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

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

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

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

If not possible to pick up high enough:

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



## **Pressure Control Plan**

#### Pressure Control Equipment

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



## **Pressure Control Plan**

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

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	269430
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/27/2023
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	9/27/2023
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	9/27/2023
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	9/27/2023
pkautz	IF ON ANY STRING CEMENT DOES NOT CIRCULATE, A RCBL MUST BE RUN ON THAT STRING OF CASING.	9/27/2023

Action 269430