Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30-025-52600 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Date Name (Printed/Typed) Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



*(Instructions 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: SWSW / 200 FSL / 896 FWL / TWSP: 25S / RANGE: 36E / SECTION: 34 / LAT: 32.0801296 / LONG: -103.2586677 (TVD: 0 feet, MD: 0 feet)
PPP: SWSW / 100 FSL / 940 FWL / TWSP: 25S / RANGE: 36E / SECTION: 34 / LAT: 32.0798551 / LONG: -103.258525 (TVD: 11340 feet, MD: 11632 feet)
PPP: SWSW / 0 FSL / 940 FWL / TWSP: 25S / RANGE: 36E / SECTION: 27 / LAT: 32.09407 / LONG: -103.258527 (TVD: 11340 feet, MD: 16803 feet)
BHL: NWNW / 50 FNL / 940 FWL / TWSP: 25S / RANGE: 36E / SECTION: 27 / LAT: 32.1084582 / LONG: -103.2585268 (TVD: 11340 feet, MD: 22038 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.

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

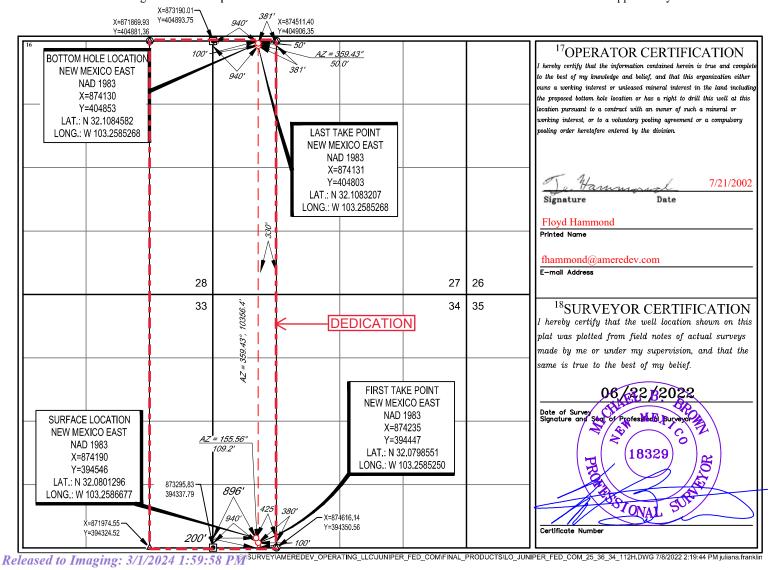
WELL LOCATION AND ACREAGE DEDICATION PLAT

4Property Code 5Property Name 6Well Number 325376 JUNIPER 25 36 34 FEDERAL COM 112H 7OGRID No. 8Operator Name 9Elevation 372224 AMEREDEV OPERATING, LLC. 2997'	30-025-52600						
7 OGRID No. Soperator Name Selevation	· · ·	⁵ Pr	operty Name	⁶ Well Number			
I The state of the	325376	JUNIPER 25 36	34 FEDERAL COM	112H			
372224 AMEREDEV OPERATING, LLC. 2997'	⁷ OGRID №.	⁸ O _F	perator Name	⁹ Elevation			
	372224	AMEREDEV	AMEREDEV OPERATING, LLC.				

¹⁰Surface Location

UL or lot no. M	Section 34	Township 25-S	36-E	Lot Idn —	Feet from the 200'	North/South line SOUTH	Feet from the 896'	East/West line WEST	County LEA		
	¹¹ 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		
D	27	25-S	36-E	_	50'	NORTH	940'	WEST	LEA		
¹² Dedicated Acres	¹³ Joint or l	nfill ¹⁴ Ce	onsolidation Co	de ¹⁵ Ord	er No.						
640			C								

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



State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: _____ Ameredev II, LLC_____ **OGRID:** _____ 372224 ____ **Date:** _____ 02/20/2024 ___

Type: ⊠ Original □ A	mendment due	to □ 19.15.27.	9.D(6)(a) NMA(C □ 19.15.27.9.	D(6)(b) NMAC □ C	Other.
Other, please describe:						
Well(s): Provide the following					of wells proposed to	be drilled or propos
Well Name	le well pad or c	ULSTR	Footages	Anticipated	Anticipated Gas	Anticipated
				Oil BBL/D	MCF/D	Produced Water BBL/D
Juniper 25 36 34 Fed Com #112H	30025-		200' FSL & 896' FWL	1,322	4,691	2,840
Juniper 25 36 34 Fed Com #114H	30025-		200' FSL & 1950' FWL	1,322	4,691	2,840
Juniper 25 36 34 Fed Com #116H	30025-		200' FSL & 1966' FEL	1,322	4,691	2,840
Juniper 25 36 34 Fed Com #118H	30025-		200' FSL & 620' FEL	1,322	4,691	2,840
Juniper 25 36 34 Fed Com #121H	30025-		200' FSL & 836' FWL	1,322	4,691	2,840
Juniper 25 36 34 Fed	30025-		200' FSL &	1,322	4,691	2,840

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

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
Juniper 25 36 34 Fed Com #112H	30025-	10/01/2024	10/15/2024	11/15/2024	12/01/2024	12/04/2024
Juniper 25 36 34 Fed Com #114H	30025-	10/01/2024	10/15/2024	11/15/2024	12/01/2024	12/04/2024
Juniper 25 36 34 Fed Com #116H	30025-	10/01/2024	10/15/2024	11/15/2024	12/01/2024	12/04/2024
Juniper 25 36 34 Fed Com #118H	30025-	10/01/2024	10/15/2024	11/15/2024	12/01/2024	12/04/2024
Juniper 25 36 34 Fed Com #121H	30025-	10/01/2024	10/15/2024	11/15/2024	12/01/2024	12/04/2024
Juniper 25 36 34 Fed Com #123H	30025-	10/01/2024	10/15/2024	11/15/2024	12/01/2024	12/04/2024

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

VII. Operational Practices:

☐ 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.

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

X. Natural Gas Gathering System (NGGS):

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

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

XII. Line Capacity. The natural gas gathering system \square will \square will not	ot 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 \square does \square does not anticipate that its existing well(s) confidence in the confidence of th	nected to the same segment, or portion,	of the
natura	al gas gathering system(s) described above will continue to meet anticipated increase	s in line pressure caused by the new wo	ell(s).

Attach O	perator's	plan to	manage	production	in resp	ponse to	the	increased	line	pressure

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information providence.	ded 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 of the	nation
for which confidentiality is asserted and the basis for such assertion.	

(i)

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, a	fter reasonable inquiry and based on the available information at the time of submittal:
one hundred percent of	to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the a into account the current	able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one nticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. box, Operator will select one of the following:
Well Shut-In. □ Opera D of 19.15.27.9 NMAC	tor will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection ; or
	lan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential
	es for the natural gas until a natural gas gathering system is available, including:
(a) (b)	power generation on lease; power generation for grid;
(b) (c)	compression on lease;
(c) (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

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (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: 02/20/2024
Phone: 512-775-1417
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan

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

- Separation equipment is sized to allow for retention time and velocity to adequately separate oil, gas, and water at anticipated peak rates.
- All central tank battery equipment is designed to efficiently capture the remaining gas from the liquid phase.
- Valves and meters are designed to service without flow interruption or venting of gas.

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

19.15.27.8 (A)

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

19.15.27.8 (B) Venting and Flaring during drilling operations

- A properly-sized flare stack will be located at a minimum 100' from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared. Venting will only occur if there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety, public health, or the environment.

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

- During all phases of flowback, wells will flow through a sand separator, or other appropriate flowback separation equipment, and the well stream will be directed to a central tank battery (CTB) through properly sized flowlines
- The CTB will have properly sized separation equipment for maximum anticipated flowrates
- Multiple stages of separation will be used to separate gas from liquids. All gas will be routed to a sales outlet. Fluids will be routed to tanks equipped with a closed loop system that will recover any residual gas from the tanks and route such gas to a sales outlet.

19.15.27.8 (D) Venting and Flaring during production operations.

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

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

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

19.15.27.8 (E) Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- Automatic gauging equipment is installed on all tanks to minimize venting
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- •Flares are equipped with continuous pilots and auto-ignitors along with remote monitoring of the pilot status
- Weekly AVOs and monthly LDAR inspections will be performed on all wells and facilities that produce more than 60 Mcfd.
- Gas/H2S detectors will be installed throughout the facilities and wellheads to detect leaks and enable timely repairs.

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

- All high pressure flared gas is measured by equipment conforming to API 14.10.
- No meter bypasses are installed.
- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated through flare flow curves with the assistance of air emissions consultants, as necessary.

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

Drilling Plan Data Report

Submission Date: 09/08/2022

Operator Name: AMEREDEV OPERATING LLC

Well Name: JUNIPER 25 36 34 FED COM

Well Number: 112H

Well Type: OIL WELL

APD ID: 10400087970

Well Work Type: Drill

Show Final Text

Highlighted data reflects the most

recent changes

Section 1 - Geologic Formations

Formation			True Vertical	Measured		Mineral Resources	Producing
ID	Formation Name	Elevation		Depth	Lithologies		Formatio
12954123	RUSTLER ANHYDRITE	2998	1396	1396	ANHYDŘITE	NONE	N
12954124	SALADO	1151	1847	1847	SALT	NONE	N
12954121	TANSILL	-317	3315	3315	LIMESTONE	NONE	N
12954122	CAPITAN REEF	-855	3853	3853	LIMESTONE	USEABLE WATER	N
12954126	LAMAR	-2157	5155	5155	LIMESTONE	NONE	N
12954127	BELL CANYON	-2238	5236	5236	SANDSTONE	NATURAL GAS, OIL	N
12954128	BRUSHY CANYON	-3666	6664	6664	SANDSTONE	NATURAL GAS, OIL	N
12954125	BONE SPRING LIME	-4584	7582	7582	LIMESTONE	NONE	N
12954129	BONE SPRING 1ST	-6342	9340	9340	SANDSTONE	NATURAL GAS, OIL	N
12954130	BONE SPRING 2ND	-6819	9817	9817	SANDSTONE	NATURAL GAS, OIL	N
12954131	BONE SPRING 3RD	-7452	10450	10450	LIMESTONE	NATURAL GAS, OIL	N
12954132	BONE SPRING 3RD	-8106	11104	11104	SANDSTONE	NATURAL GAS, OIL	N
12954141	WOLFCAMP	-8311	11309	11309	SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

Pressure Rating (PSI): 10M Rating Depth: 15000

Equipment: 10M BOPE SYSTEM WILL BE USED AFTER THE SURFACE CASING IS SET. A KELLY COCK WILL BE KEPT IN THE DRILL STRING AT ALL TIMES. A FULL OPENING DRILL PIPE STABBING VALVE WITH PROPER DRILL

PIPE CONNECTIONS WILL BE ON THE RIG FLOOR AT ALL TIMES.

Requesting Variance? YES

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

Testing Procedure: See attachment

Choke Diagram Attachment:

10M_Choke_Manifold_REV_20220906135144.pdf

BOP Diagram Attachment:

5M_Annular_Preventer_Variance_and_Well_Control_Plan_20220906154132.pdf

5M_BOP_System_20220906135153.pdf

Pressure_Control_Plan_Single_Well_MB4_3String_Big_Hole_BLM_20220906135153.pdf

3_String_MB_Ameredev_Wellhead_Drawing_7.0625in_Spool_net_20220906135200.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	1521	0	1521	2997	1476	1521	J-55		OTHER - BTC	6.03	1	DRY	8.85	DRY	10.3 4
2	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	10575	0	10575	2905	-7578	10575	HCL -80		OTHER - BTC	1.3	1.28	DRY	2.03	DRY	2.99
3	PRODUCTI ON	6.75	5.5	NEW	API	N	0	22038	0	11340	2905	-8343	22038	P- 110		OTHER - USS Eagle SFH	1.81	1.95	DRY	1.5	DRY	1.67

Casing Attachments

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375_68_J55_SEAH_20220908140408.pdf

Juniper_25_36_34_Fed_Com_112H_WBS_and_CDA_20220908140414.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Juniper_25_36_34_Fed_Com_112H_WBS_and_CDA_20220908140457.pdf

7.625_29.70_L80HC_BORUSAN_20220908140505.pdf

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Juniper_25_36_34_Fed_Com_112H_WBS_and_CDA_20220908140324.pdf

5.5_23_RYS110_EAGLE_SFH_20220908140331.pdf

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1135	1047. 3	1.76	13.5	1843. 2	100	Class C	Bentonite, Accelerator, Kolseal, Defoamer, Celloflake
SURFACE	Tail		1135	1521	200	1.34	14.8	268	100	Class C	None
INTERMEDIATE	Lead	3315	0	2784	635.7	3.5	9	2225. 1	50	Class C	Bentonite, Salt, Kolseal, Defoamer, Celloflake
INTERMEDIATE	Tail		2784	3315	200	1.33	14.8	266	25	Class C	None
INTERMEDIATE	Lead	3315	3315	9354	925.6	2.47	11.9	2286. 2	50	Class H	Bentonite, Retarder, Kolseal, Defoamer, Celloflake, Anti-Settling Expansion Additive
INTERMEDIATE	Tail		9354	1057 5	200	1.31	14.2	262	25	Class H	Salt, Bentonite, Retarder, Dispersant, Fluid Loss
PRODUCTION	Lead		0	2203 8	1716	1.34	14.2	2299	25	Class H	Salt, Bentonite, Fluid Loss, Dispersant, Retarder, Defoamer

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1521	1057 5	OTHER : Diesel Brine Emulsion	7.5	9.4							
1057 5	1134 0	OIL-BASED MUD	10.5	12.5							
0	1521	WATER-BASED MUD	8.4	8.6							

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:

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

Coring operation description for the well:

No coring will be done on this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6192 Anticipated Surface Pressure: 3697

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

H2S_Plan_20220906140502.pdf

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Juniper_Fed_Com_25_36_34_112H_PWP1_20220908140805.pdf

Other proposed operations facets description:

SKID PROCEDURE ATTACHED

Other proposed operations facets attachment:

Rig_Skid_Procedure_20220906140612.pdf

Other Variance attachment:

5M_Annular_Preventer_Variance_and_Well_Control_Plan_20220906140631.pdf
R616___CoC_for_hoses_12_18_17_20220906140623.pdf
Requested_Exceptions___3_String_Revised_01312019_20220906140621.pdf

Wellbore Schematic

Lea, NM

Wellhead: A - 13-5/8" 10M x 13-5/8" SOW

B - 13-5/8" 10M x 13-5/8" 10M C - 13-5/8" 10M x 13-5/8" 10M

Tubing Spool - 7-1/16" 15M x 13-3/8" 10M

Xmas Tree: 2-9/16" 10M

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

GL: 2997
Field: Delaware
Objective: Wolfcamp A
TVD: 11340

MD: 22038

Rig: TBD KB 27'

E-Mail: <u>DrillingCR@ameredev.com</u>

Hole Size	Formation Tops	Logs	Cem	ent	Mud Weight
17.5"	Rustler 1,396' 13.375" 68# J-55 BTC 1,521'		1,247 Sacks TOC 0'	100% Excess	8.4-8.6 ppg WBM
	Salado 1,847' DV Tool with ACP 3,315'		836 Sacks TOC 0'	cess	
12.25"	Tansill 3,315'				1
12.25	Capitan Reef 3,853'				ے
	Lamar 5,155'				ulsio _l
	Bell Canyon 5,236'				Emr
	No Casing 5,280'				rine
					<u>В</u>
	Brushy Canyon 6,664'				Dies
	Bone Spring Lime 7,582'				7.5-9.4 Diesel Brine Emulsion
9.875"	First Bone Spring 9,340'				7.5
0.0.0	Second Bone Spring 9,817'			"	
	Third Bone Spring Upper 10,450'		sacks	xcess	
	7.625" 29.7# L-80HC BTC 10,575'		1,126 Sacks TOC 0'	50% Excess	
6.75"	Third Bone Spring 11,104'				>
12° Build	Wolfcamp 11,309'				OBM
@					10.5-12.5 ppg
10850 thru	5.5" 23# P-110 USS-Eagle SFH 22038	4	ks	SS	12.5
	Target Wolfcamp A 11340 TVD // 22038 MD		Sac)'	Xce	0.5-
			1,716 Sacks TOC 0'	25% Excess	=
			1, i	25	

Casing Design and Safety Factor Check

	Casing Specifications										
Segment	Hole ID	Depth	OD	Weight	Grade	Coupling					
Surface	17.5	1,521'	13.375	68	J-55	BTC					
Intermediate	9.875	10,575'	7.625	29.7	HCL-80	BTC					
Prod Segment A	6.75	10850	5.5	23	P-110	SFH					
Prod Segment B	6.75	22038	5.5	23	P-110	SFH					

	Chec	k Surface (Casing							
OD Cplg	Body	Joint	Collapse	Burst						
inches	1000 lbs	1000 lbs	psi	psi						
14.375	1,069	915	4,100	3,450						
	S	afety Facto	ors							
1.56	10.34	8.85	6.03	0.67						
	Check Intermediate Casing									
OD Cplg	Body	Joint	Collapse	Burst						
inches	1000 lbs	1000 lbs	psi	psi						
7.625	940	558	6700	9460						
Safety Factors										
1.13	2.99	2.03	1.30	1.28						
	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	1.81	1.95						
	Check Pro	od Casing,	Segment B							
OD Cplg	Body	Joint	Collapse	Burst						
inches	1000 lbs	1000 lbs	psi	psi						
5.777	728	655	12780	14360						
	5	afety Facto	ors							
0.49	2.83	2.55	0.89	1.95						

PERFORMANCE DATA

API BTC 13.375 in 68.00 lbs/ft J-55

Technical Data Sheet

Tubular Parameters					_
Size	13.375	in	Minimum Yield	55,000	
Nominal Weight	68.00	lbs/ft	Minimum Tensile	75,000	
Grade	J-55		Yield Load	1,069,000	
PE Weight	66.10	lbs/ft	Tensile Load	1,458,000	
Wall Thickness	0.480	in	Min. Internal Yield Pressure	3,500	
Nominal ID	12.415	in	Collapse Pressure	1,950	
Drift Diameter	12.259	in		I	l
Nom. Pipe Body Area	19.445	in²			
	1	<u>'</u>			
Connection Parameters					
Connection OD	14.375	in			
Coupling Length	10.625	in			
Threads Per Inch	5.000	in			
Standoff Thread Turns	1.000				
Make-Up Loss	4.513	in			
Yield Load In Tension		lbs			
Min. Internal Yield Pressure	3,500	psi			
	The second secon	1			

Printed on: February-13-2015

NOTE

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API 5CT Casing Performance Data Sheet

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

Grade	L80HC
	Pipe Body Mechanical Properties
Minimum Yield Strength	80,000 psi
Maximum Yield Strength	95,000 psi
Minimum Tensile Strength	95,000 psi
Maximum Hardness	23.0 HRC
	<u>Sizes</u>
OD	7 5/8 in
Nominal Wall Thickness	0.375 in
Nominal Weight, T&C	29.70 lb/ft
Nominal Weight, PE	29.06 lb/ft
Nominal ID	6.875 in
Standard Drift	6.750 in
Alternate Drift	N/A
	Minimum Performance
Callagae Passage	Minimum Performance
Collapse Pressure Internal Pressure Yield	5,780 psi
	6,880 psi
Pipe body Tension Yield	683,000 lbs
Internal pressure leak resistance STC/LTC connections Internal pressure leak resistance BTC connections	6,880 psi
nternal pressure leak resistance BTC connections	6,880 psi
	Inspection and Testing
Visual	OD Longitidunal and independent 3rd party SEA
	Independent 3rd party full body EMI after hydrotest
NDT	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
		76.2	-l: /400 ft
Maximum Uniaxial Bend Rating		70.2	deg/100 ft
Maximum Uniaxial Bend Rating MAKE-UP DATA	Pipe	USS-EAGLE SFH™	αeg/100 π
-	Pipe		deg/100 π
MAKE-UP DATA		USS-EAGLE SFH™	
MAKE-UP DATA Make-Up Loss		USS-EAGLE SFH™ 6.65	in.

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

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



American Resource Development LLC.

Ameredev Operating

Lea County, NM (N83-NME)
Juniper_Pimento
JUNIPER 25-36-34 FED COM 112H

OWB

Plan: PRELIM1

Survey Report - Geographic

25 July, 2022



TVD Reference:

MD Reference:

Company: Ameredev Operating Lea County, NM (N83-NME) Project:

Juniper Pimento Site:

Well: JUNIPER 25-36-34 FED COM 112H

Wellbore: **OWB** PRELIM1 Design:

Local Co-ordinate Reference:

Well JUNIPER 25-36-34 FED COM 112H

KB=27' @ 3024.0usft KB=27' @ 3024.0usft

North Reference:

Survey Calculation Method: Minimum Curvature

Database:

AUS-COMPASS - EDM_15 - 32bit

Project Lea County, NM (N83-NME)

US State Plane 1983 Map System: North American Datum 1983 Geo Datum: Map Zone: New Mexico Eastern Zone

Mean Sea Level **System Datum:**

Site Juniper Pimento

Northing: 394,110.00 usft Site Position: Latitude: 32.078948 Easting: From: Мар 873,548.00 usft Longitude: -103.260753 **Position Uncertainty:** Slot Radius: Grid Convergence: 0.57° 0.0 usft 13-3/16 "

Well JUNIPER 25-36-34 FED COM 112H

Well Position +N/-S 0.0 usft Northing: 394,546.00 usft Latitude: 32.080129 +E/-W 0.0 usft Easting: 874,190.00 usft Longitude: -103.258667 Wellhead Elevation: Ground Level: **Position Uncertainty** 0.0 usft usfi 2,997.0 usft

Wellbore **OWB**

Magnetics Model Name Sample Date Declination **Dip Angle** Field Strength (°) (°) (nT) 6.26 59.78 47,327.31580064 IGRF2020 7/25/2022

PRELIM1 Design

Audit Notes:

Version: PLAN 0.0 Phase: Tie On Depth:

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°)

0.0 0.0 0.0 359.42

Date 7/25/2022 **Survey Tool Program**

From To (usft) (usft) Survey (Wellbore) **Tool Name** Description

0.0 MWD OWSG MWD - Standard 22,038.1 PRELIM1 (OWB)

Planned Survey Measured Vertical Map Map Depth Inclination Azimuth Depth +N/-S +E/-W Northing Easting (usft) (usft) (usft) (usft) (usft) (usft) Latitude Longitude (°) (°) 0.0 0.00 0.00 0.0 0.0 0.0 394.546.00 874.190.00 32 080129 -103.258667 0.00 0.00 394,546.00 32.080129 -103.258667 100.0 100.0 0.0 0.0 874,190.00 200.0 0.00 0.00 200.0 0.0 0.0 394,546.00 874,190.00 32.080129 -103.258667 300.0 0.00 0.00 300.0 0.0 0.0 394,546.00 874,190.00 32.080129 -103.258667 400.0 0.00 0.00 400.0 0.0 0.0 394.546.00 874.190.00 32.080129 -103.258667 500.0 0.00 0.00 500.0 0.0 0.0 394,546.00 874,190.00 32.080129 -103.258667 600.0 0.00 0.00 600.0 0.0 0.0 394,546.00 874,190.00 32.080129 -103.258667 700.0 0.00 0.00 700.0 0.0 0.0 394,546.00 874.190.00 32.080129 -103.258667 800.0 0.00 0.00 800.0 0.0 0.0 394,546.00 874,190.00 32.080129 -103.258667 900.0 394,546.00 874,190.00 900.0 0.00 0.00 0.0 0.0 32.080129 -103.258667 0.00 0.00 1,000.0 0.0 394,546.00 874,190.00 -103.258667 1,000.0 0.0 32 080129 1,100.0 1,100.0 394,546.00 874,190.00 32.080129 -103.258667 0.00 0.00 0.0 0.0



Company: Ameredev Operating
Project: Lea County, NM (N83-NME)

Site: Juniper_Pimento

Well: JUNIPER 25-36-34 FED COM 112H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method: Minim

Database:

Well JUNIPER 25-36-34 FED COM 112H

KB=27' @ 3024.0usft KB=27' @ 3024.0usft

Grid

Minimum Curvature

AUS-COMPASS - EDM 15 - 32bit

Planned Surv	/ev								
i iaililea oai	, cy								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,200.0	0.00	0.00	1,200.0	0.0	0.0	394,546.00	874,190.00	32.080129	-103.258667
1,300.0		0.00	1,300.0	0.0	0.0	394,546.00	874,190.00	32.080129	-103.258667
1,396.0		0.00	1,396.0	0.0	0.0	394,546.00	874,190.00	32.080129	-103.258667
Rustle						221 - 12 22	074 400 00	00 000 100	400 05005
1,400.0		0.00	1,400.0	0.0	0.0	394,546.00	874,190.00	32.080129 32.080129	-103.258667
1,500.0 1,600.0		0.00 0.00	1,500.0 1,600.0	0.0 0.0	0.0 0.0	394,546.00 394,546.00	874,190.00 874,190.00	32.080129	-103.258667 -103.258667
1,700.0		0.00	1,700.0	0.0	0.0	394,546.00	874,190.00	32.080129	-103.258667
1,800.0		0.00	1,800.0	0.0	0.0	394,546.00	874,190.00	32.080129	-103.258667
1,847.0	0.00	0.00	1,847.0	0.0	0.0	394,546.00	874,190.00	32.080129	-103.258667
Salado									
1,900.0		0.00	1,900.0	0.0	0.0	394,546.00	874,190.00	32.080129	-103.258667
2,000.0		0.00	2,000.0	0.0	0.0	394,546.00	874,190.00	32.080129	-103.258667
2,100.0	Suild 2.00 2.00	175.29	2,100.0	-1.7	0.1	394,544.26	874,190.14	32.080124	-103.258666
2,189.1		175.29	2,188.9	- 6.2	0.5	394,539.78	874,190.51	32.080112	-103.258665
	661.1 hold a					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		
2,200.0		175.29	2,199.8	-6.9	0.6	394,539.06	874,190.57	32.080110	-103.258665
2,300.0		175.29	2,299.6	-13.5	1.1	394,532.49	874,191.11	32.080092	-103.258663
2,400.0		175.29	2,399.4	-20.1	1.7	394,525.92	874,191.65	32.080074	-103.258662
2,500.0		175.29	2,499.2	-26.7	2.2	394,519.35	874,192.19	32.080056	-103.258660
2,600.0 2,700.0		175.29 175.29	2,599.0 2,698.8	-33.2 -39.8	2.7 3.3	394,512.78 394,506.20	874,192.74 874,193.28	32.080037 32.080019	-103.258659 -103.258657
2,800.0		175.29	2,798.5	-46.4	3.8	394,499.63	874,193.82	32.0800019	-103.258656
2,900.0		175.29	2,898.3	-52.9	4.4	394,493.06	874,194.36	32.079983	-103.258654
3,000.0		175.29	2,998.1	-59.5	4.9	394,486.49	874,194.90	32.079965	-103.258653
3,026.0		175.29	3,024.0	-61.2	5.0	394,484.78	874,195.04	32.079960	-103.258652
Dewey		475.00	0.007.0	00.4		004 470 00	074 405 44	00.0700.47	100 050051
3,100.0		175.29 175.29	3,097.9	-66.1 -72.7	5.4	394,479.92	874,195.44 874,195.98	32.079947 32.079929	-103.258651
3,200.0 3,300.0		175.29	3,197.7 3,297.4	-72.7 -79.2	6.0 6.5	394,473.34 394,466.77	874,195.98 874,196.52	32.079929 32.079911	-103.258650 -103.258648
3,317.6		175.29	3,315.0	-80.4	6.6	394,465.62	874,196.62	32.079908	-103.258648
Tansill			2,21212				,		
3,400.0	3.78	175.29	3,397.2	-85.8	7.1	394,460.20	874,197.06	32.079893	-103.258646
3,500.0		175.29	3,497.0	-92.4	7.6	394,453.63	874,197.61	32.079875	-103.258645
3,600.0		175.29	3,596.8	-98.9	8.1	394,447.05	874,198.15	32.079857	-103.258643
3,700.0		175.29	3,696.6	-105.5	8.7	394,440.48	874,198.69	32.079839	-103.258642
3,800.0 3,856.8		175.29 175.29	3,796.4 3,853.0	-112.1 -115.8	9.2 9.5	394,433.91 394,430.18	874,199.23 874,199.54	32.079821 32.079810	-103.258640 -103.258639
Capita		170.20	0,000.0	110.0	0.0	004,400.10	014,100.04	02.070010	100.200000
3,900.0		175.29	3,896.1	-118.7	9.8	394,427.34	874,199.77	32.079802	-103.258639
4,000.0		175.29	3,995.9	-125.2	10.3	394,420.77	874,200.31	32.079784	-103.258637
4,100.0		175.29	4,095.7	-131.8	10.9	394,414.19	874,200.85	32.079766	-103.258636
4,200.0		175.29	4,195.5	-138.4	11.4	394,407.62	874,201.39	32.079748	-103.258634
4,300.0		175.29	4,295.3	-144.9 151.5	11.9 12.5	394,401.05	874,201.94	32.079730	-103.258633
4,400.0 4,500.0		175.29 175.29	4,395.1 4,494.8	-151.5 -158.1	12.5 13.0	394,394.48 394,387.91	874,202.48 874,203.02	32.079712 32.079694	-103.258631 -103.258630
4,600.0		175.29	4,494.6	-164.7	13.6	394,381.33	874,203.56	32.079676	-103.258628
4,700.0		175.29	4,694.4	-171.2	14.1	394,374.76	874,204.10	32.079658	-103.258627
4,800.0	3.78	175.29	4,794.2	-177.8	14.6	394,368.19	874,204.64	32.079640	-103.258625
4,900.0		175.29	4,894.0	-184.4	15.2	394,361.62	874,205.18	32.079622	-103.258623
5,000.0		175.29	4,993.7	-191.0	15.7	394,355.05	874,205.72	32.079604	-103.258622
5,100.0	3.78	175.29	5,093.5	-197.5	16.3	394,348.47	874,206.27	32.079585	-103.258620



Company: Ameredev Operating
Project: Lea County, NM (N83-NME)

Site: Juniper_Pimento

Well: JUNIPER 25-36-34 FED COM 112H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Database:

Well JUNIPER 25-36-34 FED COM 112H

KB=27' @ 3024.0usft KB=27' @ 3024.0usft

(D-27 @ 30 Grid

Minimum Curvature

AUS-COMPASS - EDM_15 - 32bit

Planned Surv	'ev								
· iaiiiioa cai i	٠,								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,161.6	3.78	175.29	5,155.0	-201.6	16.6	394,344.42	874,206.60	32.079574	-103.258619
Lamar									
5,200.0		175.29	5,193.3	-204.1	16.8	394,341.90	874,206.81	32.079567	-103.258619
5,242.8		175.29	5,236.0	-206.9	17.0	394,339.09	874,207.04	32.079560	-103.258618
Bell Ca 5,300.0		175.29	5,293.1	-210.7	17.3	394,335.33	874,207.35	32.079549	-103.258617
5,400.0		175.29	5,392.9	-217.2	17.9	394,328.76	874,207.89	32.079531	-103.258616
5,500.0		175.29	5,492.7	-223.8	18.4	394,322.18	874,208.43	32.079513	-103.258614
5,600.0		175.29	5,592.4	-230.4	19.0	394,315.61	874,208.97	32.079495	-103.258613
5,700.0		175.29	5,692.2	-237.0	19.5	394,309.04	874,209.51	32.079477	-103.258611
5,800.0		175.29 175.29	5,792.0	-243.5 -250.1	20.1	394,302.47 394,295.90	874,210.05	32.079459 32.079441	-103.258610 -103.258608
5,900.0 6,000.0		175.29	5,891.8 5,991.6	-250.1 -256.7	20.6 21.1	394,289.32	874,210.59 874,211.14	32.079423	-103.258607
6,100.0		175.29	6,091.3	-263.2	21.7	394,282.75	874,211.68	32.079405	-103.258605
6,200.0		175.29	6,191.1	-269.8	22.2	394,276.18	874,212.22	32.079387	-103.258603
6,300.0		175.29	6,290.9	-276.4	22.8	394,269.61	874,212.76	32.079369	-103.258602
6,400.0		175.29	6,390.7	-283.0	23.3	394,263.04	874,213.30	32.079350	-103.258600
6,500.0		175.29	6,490.5	-289.5	23.8	394,256.46	874,213.84	32.079332	-103.258599
6,600.0		175.29	6,590.3	-296.1	24.4	394,249.89	874,214.38	32.079314	-103.258597
6,673.9		175.29	6,664.0	-301.0	24.8	394,245.03	874,214.78	32.079301	-103.258596
6,700.0	Canyon 3.78	175.29	6,690.0	-302.7	24.9	394,243.32	874,214.92	32.079296	-103.258596
6,800.0		175.29	6,789.8	-309.3	25.5	394,236.75	874,215.47	32.079278	-103.258594
6,900.0		175.29	6,889.6	-315.8	26.0	394,230.17	874,216.01	32.079260	-103.258593
7,000.0		175.29	6,989.4	-322.4	26.5	394,223.60	874,216.55	32.079242	-103.258591
7,100.0		175.29	7,089.2	-329.0	27.1	394,217.03	874,217.09	32.079224	-103.258590
7,200.0 7,300.0		175.29 175.29	7,189.0 7,288.7	-335.5 -342.1	27.6 28.2	394,210.46 394,203.89	874,217.63 874,218.17	32.079206 32.079188	-103.258588 -103.258587
7,300.0		175.29	7,288.5	-342.1 -348.7	28.7	394,203.69	874,218.71	32.079170	-103.258585
7,500.0		175.29	7,488.3	-355.3	29.3	394,190.74	874,219.25	32.079152	-103.258584
7,593.9		175.29	7,582.0	-361.4	29.8	394,184.57	874,219.76	32.079135	-103.258582
Bone S	pring Lime								
7,600.0		175.29	7,588.1	-361.8	29.8	394,184.17	874,219.80	32.079134	-103.258582
7,700.0		175.29	7,687.9	-368.4	30.3	394,177.60	874,220.34	32.079115	-103.258580
7,800.0 7,900.0		175.29 175.29	7,787.6 7,887.4	-375.0 -381.5	30.9 31.4	394,171.03 394,164.45	874,220.88 874,221.42	32.079097 32.079079	-103.258579 -103.258577
8,000.0		175.29	7,007.4	-388.1	32.0	394,157.88	874,221.42	32.079079	-103.258576
8,100.0		175.29	8,087.0	-394.7	32.5	394,151.31	874,222.50	32.079043	-103.258574
8,200.0		175.29	8,186.8	-401.3	33.0	394,144.74	874,223.04	32.079025	-103.258573
8,300.0		175.29	8,286.6	-407.8	33.6	394,138.17	874,223.58	32.079007	-103.258571
8,400.0		175.29	8,386.3	-414.4	34.1	394,131.59	874,224.12	32.078989	-103.258570
8,500.0		175.29	8,486.1	-421.0	34.7	394,125.02	874,224.67 874,225.21	32.078971 32.078953	-103.258568
8,600.0 8,700.0		175.29 175.29	8,585.9 8,685.7	-427.6 -434.1	35.2 35.7	394,118.45 394,111.88	874,225.75	32.078935	-103.258567 -103.258565
8,800.0		175.29	8,785.5	-440.7	36.3	394,111.00	874,226.29	32.078917	-103.258564
8,900.0		175.29	8,885.3	-447.3	36.8	394,098.73	874,226.83	32.078899	-103.258562
9,000.0	3.78	175.29	8,985.0	-453.8	37.4	394,092.16	874,227.37	32.078880	-103.258560
9,100.0		175.29	9,084.8	-460.4	37.9	394,085.59	874,227.91	32.078862	-103.258559
9,200.0		175.29	9,184.6	-467.0	38.5	394,079.02	874,228.45	32.078844	-103.258557
9,300.0		175.29	9,284.4	-473.6	39.0 39.3	394,072.44 394,068.78	874,229.00 874,229.30	32.078826 32.078816	-103.258556
9,355.7 First B	one Spring	175.29	9,340.0	-477.2	39.3	394,000.70	014,229.30	32.070010	-103.258555
9,400.0		175.29	9,384.2	-480.1	39.5	394,065.87	874,229.54	32.078808	-103.258554
9,500.0		175.29	9,483.9	-486.7	40.1	394,059.30	874,230.08	32.078790	-103.258553
•									



Company: Ameredev Operating
Project: Lea County, NM (N83-NME)

Site: Juniper_Pimento

Well: JUNIPER 25-36-34 FED COM 112H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Database:

Well JUNIPER 25-36-34 FED COM 112H

KB=27' @ 3024.0usft KB=27' @ 3024.0usft

Grid

Minimum Curvature

AUS-COMPASS - EDM_15 - 32bit

Planned Surv	ey								
Measured Depth (usft)	Inclination (°)	(°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,600.0 9,700.0 9,800.0 9,833.8	3.78 3.78	175.29 175.29 175.29 175.29	9,583.7 9,683.5 9,783.3 9,817.0	-493.3 -499.8 -506.4 -508.6	40.6 41.2 41.7 41.9	394,052.73 394,046.16 394,039.58 394,037.36	874,230.62 874,231.16 874,231.70 874,231.88	32.078772 32.078754 32.078736 32.078730	-103.258551 -103.258550 -103.258548 -103.258548
Second	l Bone Sprir	ng							
9,900.0 10,000.0 10,100.0 10,200.0 10,300.0 10,400.0 10,468.2	3.78 3.78 3.78 3.78 3.78 3.78	175.29 175.29 175.29 175.29 175.29 175.29 175.29	9,883.1 9,982.9 10,082.6 10,182.4 10,282.2 10,382.0 10,450.0	-513.0 -519.6 -526.1 -532.7 -539.3 -545.8 -550.3	42.2 42.8 43.3 43.9 44.4 44.9 45.3	394,033.01 394,026.44 394,019.87 394,013.29 394,006.72 394,000.15 393,995.67	874,232.24 874,232.78 874,233.33 874,233.87 874,234.41 874,234.95 874,235.32	32.078718 32.078700 32.078682 32.078664 32.078645 32.078627 32.078615	-103.258547 -103.258545 -103.258544 -103.258542 -103.258541 -103.258539 -103.258538
	Third Bone		10 101 0	550.4	45.5	202 202 52	074 005 40	00.070000	100 050507
10,500.0 10,600.0 10,700.0 10,800.0 10,850.1	3.78 3.78	175.29 175.29 175.29 175.29 175.29	10,481.8 10,581.6 10,681.3 10,781.1 10,831.1	-552.4 -559.0 -565.6 -572.1 -575.4	45.5 46.0 46.6 47.1 47.4	393,993.58 393,987.01 393,980.43 393,973.86 393,970.57	874,235.49 874,236.03 874,236.57 874,237.11 874,237.39	32.078609 32.078591 32.078573 32.078555 32.078546	-103.258537 -103.258536 -103.258534 -103.258533 -103.258532
KOP-S	tart DLS 12.0								
11,150.0	2.23 5.22 8.22 11.22 14.22 17.22 20.22 23.22 26.21 29.21 30.38 sone Spring 32.21	160.30 6.44 2.41 1.31 0.80 0.50 0.30 0.16 0.06 359.98 359.91 359.89	10,856.0 10,881.0 10,905.9 10,930.8 10,955.4 10,979.8 11,003.8 11,027.5 11,050.7 11,073.4 11,095.6 11,104.0	-576.4 -576.1 -574.5 -571.6 -567.3 -561.8 -555.1 -547.1 -537.8 -527.4 -515.7 -510.9	47.5 47.6 47.7 47.8 47.9 48.0 48.0 48.1 48.1 48.0 48.0	393,969.58 393,969.89 393,971.51 393,974.44 393,978.65 393,984.16 393,990.93 393,998.95 394,008.20 394,018.65 394,030.27 394,035.10	874,237.51 874,237.63 874,237.73 874,237.82 874,237.89 874,237.96 874,238.00 874,238.03 874,238.05 874,238.04 874,238.03	32.078543 32.078544 32.078549 32.078557 32.078568 32.078583 32.078602 32.078624 32.078649 32.078678 32.078710 32.078723	-103.258532 -103.258531 -103.258531 -103.258530 -103.258530 -103.258529 -103.258529 -103.258529 -103.258528 -103.258528 -103.258528
11,175.0 11,200.0 11,225.0 11,250.0 11,275.0 11,300.0 11,325.0 11,375.0 11,475.0 11,450.0 11,458.6	38.21 41.21 44.21 50.21 53.21 56.21 59.21 62.21 68.21 69.24	359.81 359.77 359.73 359.70 359.67 359.65 359.63 359.60 359.58 359.57 359.55 359.53 359.53	11,137.9 11,157.9 11,177.1 11,195.5 11,212.9 11,229.4 11,244.9 11,259.4 11,272.7 11,284.9 11,296.0 11,305.9 11,309.0	-489.1 -474.1 -458.2 -441.2 -423.3 -404.5 -384.9 -364.5 -343.4 -321.6 -299.2 -276.2 -268.2	48.0 47.9 47.8 47.8 47.7 47.6 47.4 47.3 47.1 47.0 46.8 46.6	394,056.92 394,071.86 394,087.83 394,104.79 394,122.68 394,141.47 394,161.09 394,181.49 394,202.62 394,224.42 394,246.84 394,269.80 394,277.77	874,237.97 874,237.92 874,237.85 874,237.76 874,237.56 874,237.43 874,237.29 874,237.15 874,236.98 874,236.63 874,236.63	32.078783 32.078824 32.078868 32.078915 32.078964 32.079016 32.079126 32.079126 32.079184 32.079244 32.079305 32.079368 32.079390	-103.258527 -103.258527 -103.258527 -103.258527 -103.258526 -103.258526 -103.258526 -103.258526 -103.258525 -103.258525 -103.258525 -103.258525 -103.258525
11,475.0		359.51	11,314.6	-252.8	46.4	394,293.24	874,236.43	32.079433	-103.258525
11,573.0 11,500.0 11,525.0 11,550.0 11,575.0 11,600.0	74.21 77.21 80.21 83.21 86.21	359.50 359.48 359.47 359.45 359.44 359.43	11,314.0 11,322.0 11,328.2 11,333.1 11,336.7 11,339.0 11,340.0	-232.6 -228.9 -204.7 -180.2 -155.4 -130.5 -105.6	46.2 46.0 45.8 45.6 45.3 45.1	394,293.24 394,317.11 394,341.33 394,365.85 394,390.58 394,415.47 394,440.45	874,236.22 874,236.01 874,235.79 874,235.55 874,235.31 874,235.07	32.079498 32.079565 32.079632 32.079700 32.079769 32.079837	-103.258525 -103.258525 -103.258525 -103.258524 -103.258524 -103.258524



Company: Ameredev Operating
Project: Lea County, NM (N83-NME)

Site: Juniper_Pimento

Well: JUNIPER 25-36-34 FED COM 112H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well JUNIPER 25-36-34 FED COM 112H

KB=27' @ 3024.0usft

KB=27' @ 3024.0usft

Minimum Curvature

AUS-COMPASS - EDM_15 - 32bit

14,700 90.00 359.42 11,340 69.4 43.3 394,615.44 874,234.31 32,080044 -103,25852 11,800.0 90.00 359.42 11,340.0 69.4 43.3 394,615.44 874,233.30 32,080319 -103,25852 12,000.0 90.00 359.42 11,340.0 69.4 43.3 394,615.44 874,232.29 32,0806981 -103,25852 12,000.0 90.00 359.42 11,340.0 369.4 41.3 394,615.43 874,231.28 32,080688 -103,25852 12,000.0 90.00 359.42 11,340.0 369.4 41.3 394,615.43 874,231.28 32,080688 -103,25852 12,200.0 90.00 359.42 11,340.0 469.4 39.3 395,115.41 874,222.29 32,08143 -103,25852 12,200.0 90.00 359.42 11,340.0 469.4 39.3 395,115.41 874,222.26 32,081693 -103,25852 12,200.0 90.00 359.42 11,340.0 669.4 37.2 395,215.41 874,222.26 32,081693 -103,25852 12,200.0 90.00 359.42 11,340.0 669.4 37.2 395,215.41 874,222.25 32,081693 -103,25852 12,200.0 90.00 359.42 11,340.0 669.4 36.2 395,315.40 874,226.24 32,082243 -103,25852 12,200.0 90.00 359.42 11,340.0 699.4 36.2 395,315.40 874,225.23 32,082617 -103,25852 12,200.0 90.00 359.42 11,340.0 699.4 34.2 395,515.39 874,223.23 32,082617 -103,25852 12,200.0 90.00 359.42 11,340.0 1,894 32.2 395,515.39 874,223.23 32,082617 -103,25852 12,200.0 90.00 359.42 11,340.0 1,894 32.2 395,515.39 874,223.23 32,083607 -103,25852 13,000.0 90.00 359.42 11,340.0 1,894 30.2 395,515.39 874,223.21 32,083607 -103,25852 13,000.0 90.00 359.42 11,340.0 1,894 30.2 395,515.39 874,223.21 32,083607 -103,25852 13,000.0 90.00 359.42 11,340.0 1,894 30.2 395,515.39 874,223.11 32,083607 -103,25852 13,000.0 90.00 359.42 11,340.0 1,694 32.2 395,515.39 874,223.17 32,084617 -103,25852 13,000.0 90.00 359.42 11,340.0 1,694 40.2 395,515.39 874,221.19 32,083617 -103,25852 13,000.0 90.00 359.42 11,340.0 1,694 40.2 39	Planned Surv	ey								
1,700 90 00 359 42 11,340 69 4 32 394,515 44 874,234,31 32,080044 -103,25852 11,800 90 00 359 42 11,340 69 4 43,3 394,615 44 874,233,30 32,080319 -103,25852 11,800 90 00 359 42 11,340 69 4 43,3 394,615 44 874,232,29 32,080693 -103,25852 12,000 90 00 359 42 11,340 69 4 41,3 394,615 43 874,231,28 32,080688 -103,25852 12,000 90 00 359 42 11,340 69 4 41,3 394,615 43 874,231,28 32,080688 -103,25852 12,000 90 00 359 42 11,340 69 4 43,3 394,615 43 874,231,28 32,080688 -103,25852 12,000 90 00 359 42 11,340 69 4 39,3 395,115 41 874,227,29 32,081693 -103,25852 12,000 90 90 359 42 11,340 66 4 37,2 395,215 41 874,227,25 32,081693 -103,25852 12,000 90 90 359 42 11,340 66 4 37,2 395,215 41 874,227,25 32,081693 -103,25852 12,000 90 90 359 42 11,340 66 4 36,2 395,315 40 874,226,24 32,082243 -103,25852 12,000 90 90 359 42 11,340 66 4 32,2 395,115 41 874,227,25 32,081693 -103,25852 12,000 90 90 359 42 11,340 66 4 32,2 395,115 41 874,227,25 32,082243 -103,25852 12,000 90 90 359 42 11,340 66 4 32,2 395,115 39,874,224 22 32,082792 -103,25852 12,000 90 90 359 42 11,340 169 4 32,2 395,115 39,874,224 22 32,082792 -103,25852 12,000 90 90 359 42 11,340 169 4 32,2 395,115 39,874,224 22 32,083067 -103,25852 12,000 90 90 359 42 11,340 1,694 32,2 395,115 39,874,224 23 32,083667 -103,25852 13,000 90 90 359 42 11,340 1,694 32,2 395,115 39,874,224 23 32,083677 -103,25852 13,000 90 90 359 42 11,340 1,694 43,2 395,115 39,874,224 23 32,083677 -103,25852 13,000 90 90 359 42 11,340 1,694 43,2 395,115 39,874,124 14 32,083677 -103,25852	Depth		(°)	Depth			Northing	Easting	Latitude	Longitude
11,700.0 90.00 359.42 11,340.0 694 43.3 394,515.44 874,233.30 32.080044 -103.288522 11,900.0 90.00 359.42 11,340.0 1694 42.3 394,615.43 874,231.28 32.080588 -103.288522 12,000.0 90.00 359.42 11,340.0 3694 41.3 394,815.43 874,231.28 32.080588 -103.288522 12,200.0 90.00 359.42 11,340.0 3694 41.3 394,815.42 874,230.27 32.08143 -103.288522 12,200.0 90.00 359.42 11,340.0 4694 39.3 395,015.42 874,229.26 32.081693 -103.288522 12,200.0 90.00 359.42 11,340.0 6694 39.3 395,015.42 874,229.26 32.081693 -103.288522 12,200.0 90.00 359.42 11,340.0 6694 37.2 395,515.41 874,227.25 32.081698 -103.288522 12,200.0 90.00 359.42 11,340.0 8694 37.2 395,515.34 874,227.25 32.081693 -103.288522 12,200.0 90.00 359.42 11,340.0 8694 34.2 395,515.39 874,223.2 32.082243 -103.288522 12,200.0 90.00 359.42 11,340.0 8694 34.2 395,515.39 874,224.22 32.082279 -103.288522 12,200.0 90.00 359.42 11,340.0 8694 34.2 395,515.39 874,224.22 32.082677 -103.288522 12,200.0 90.00 359.42 11,340.0 1,6694 32.2 395,615.39 874,224.22 32.082677 -103.288522 12,200.0 90.00 359.42 11,340.0 1,6694 32.2 395,615.39 874,223.21 32.083067 -103.288522 13,200.0 90.00 359.42 11,340.0 1,269.4 31.2 395,615.39 874,221.21 32.083067 -103.288522 13,200.0 90.00 359.42 11,340.0 1,269.4 31.2 395,615.39 874,221.21 32.083067 -103.288522 13,200.0 90.00 359.42 11,340.0 1,269.4 31.2 395,615.39 874,221.21 32.083067 -103.288522 13,200.0 90.00 359.42 11,340.0 1,269.4 31.2 395,615.39 874,221.19 32.083617 -103.288522 13,200.0 90.00 359.42 11,340.0 1,269.4 31.2 395,615.39 874,221.19 32.083617 -103.288522 13,200.0 90.00 359.42 11,340.0 1,269.4 31.2 395,615.39 874,221.19 32.083617 -103.288522 13,200.0 90.00 359.42 11,340.0 1,269.4 31.2 395,615.39 874,221.19 32.083617 -103.288522 13,200.0 90.00 359.42 11,340.0 1,269.4 31.2 395,615.39 874,221.19 32.083617 -103.288522 13,200.0 90.00 359.42 11,340.0 1,269.3 31.300.0 90.00 359.42 11,340.0 1,269.3 31.300.0 90.00 359.42 11,340.0 1,269.3 31.300.0 90.00 359.42 11,340.0 1,269.3 31.300.0 90.00 359.42 11,340.0 1,269.3 31.300.0 90.00 359.42 11,340.0 1,269.3 31						45.0	394,447.00	874,235.00	32.079856	-103.258524
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14,900.0 90.00 359.42 11,340.0 3,169.3 12.0 397,715.28 874,202.02 32.088839 -103.258526 15,000.0 90.00 359.42 11,340.0 3,269.3 11.0 397,815.27 874,201.01 32.089114 -103.258526 15,100.0 90.00 359.42 11,340.0 3,369.3 10.0 397,915.27 874,200.00 32.089389 -103.258526 15,200.0 90.00 359.42 11,340.0 3,469.3 9.0 398,015.26 874,198.99 32.089664 -103.258526 15,300.0 90.00 359.42 11,340.0 3,569.3 8.0 398,115.26 874,197.99 32.089939 -103.258526 15,400.0 90.00 359.42 11,340.0 3,669.3 7.0 398,215.25 874,196.98 32.090214 -103.258526 15,500.0 90.00 359.42 11,340.0 3,769.2 6.0 398,315.25 874,195.97 32.090488 -103.258526 15,700.0 90.00 359.42 11,340.0 3,869.2 5.0 398,415.24 874,194.96 32.090763 -103.25852		90.00	359.42			14.0		•		-103.258526
15,000.0 90.00 359.42 11,340.0 3,269.3 11.0 397,815.27 874,201.01 32.089114 -103.258526 15,100.0 90.00 359.42 11,340.0 3,369.3 10.0 397,915.27 874,200.00 32.089389 -103.258526 15,200.0 90.00 359.42 11,340.0 3,469.3 9.0 398,015.26 874,198.99 32.089664 -103.258526 15,300.0 90.00 359.42 11,340.0 3,569.3 8.0 398,115.26 874,197.99 32.089939 -103.258526 15,400.0 90.00 359.42 11,340.0 3,669.3 7.0 398,215.25 874,196.98 32.090214 -103.258526 15,500.0 90.00 359.42 11,340.0 3,769.2 6.0 398,315.25 874,195.97 32.090488 -103.258526 15,600.0 90.00 359.42 11,340.0 3,869.2 5.0 398,415.24 874,194.96 32.090763 -103.258526 15,700.0 90.00 359.42 11,340.0 3,969.2 4.0 398,515.24 874,193.95 32.091038 -103.258526	14,800.0	90.00	359.42	11,340.0	3,069.3	13.0	397,615.28	874,203.03	32.088564	-103.258526
15,100.0 90.00 359.42 11,340.0 3,369.3 10.0 397,915.27 874,200.00 32.089389 -103.258526 15,200.0 90.00 359.42 11,340.0 3,469.3 9.0 398,015.26 874,198.99 32.089664 -103.258526 15,300.0 90.00 359.42 11,340.0 3,569.3 8.0 398,115.26 874,197.99 32.089939 -103.258526 15,400.0 90.00 359.42 11,340.0 3,669.3 7.0 398,215.25 874,196.98 32.090214 -103.258526 15,500.0 90.00 359.42 11,340.0 3,769.2 6.0 398,315.25 874,195.97 32.090488 -103.258526 15,600.0 90.00 359.42 11,340.0 3,869.2 5.0 398,415.24 874,194.96 32.090763 -103.258526 15,700.0 90.00 359.42 11,340.0 3,969.2 4.0 398,515.24 874,193.95 32.091038 -103.258526 15,800.0 90.00 359.42 11,340.0 4,069.2 2.9 398,615.23 874,192.94 32.091313 -103.258526<	14,900.0	90.00	359.42	11,340.0	3,169.3	12.0	397,715.28	874,202.02	32.088839	-103.258526
15,200.0 90.00 359.42 11,340.0 3,469.3 9.0 398,015.26 874,198.99 32.089664 -103.258526 15,300.0 90.00 359.42 11,340.0 3,569.3 8.0 398,115.26 874,197.99 32.089939 -103.258526 15,400.0 90.00 359.42 11,340.0 3,669.3 7.0 398,215.25 874,196.98 32.090214 -103.258526 15,500.0 90.00 359.42 11,340.0 3,769.2 6.0 398,315.25 874,195.97 32.090488 -103.258526 15,600.0 90.00 359.42 11,340.0 3,869.2 5.0 398,415.24 874,194.96 32.090763 -103.258526 15,700.0 90.00 359.42 11,340.0 3,969.2 4.0 398,515.24 874,193.95 32.091038 -103.258526 15,800.0 90.00 359.42 11,340.0 4,069.2 2.9 398,615.23 874,192.94 32.091313 -103.258526 15,900.0 90.00 359.42 11,340.0 4,169.2 1.9 398,715.23 874,191.93 32.091588 -103.258526	15,000.0	90.00	359.42	11,340.0		11.0	397,815.27	874,201.01	32.089114	-103.258526
15,300.0 90.00 359.42 11,340.0 3,569.3 8.0 398,115.26 874,197.99 32.089939 -103.258526 15,400.0 90.00 359.42 11,340.0 3,669.3 7.0 398,215.25 874,196.98 32.090214 -103.258526 15,500.0 90.00 359.42 11,340.0 3,769.2 6.0 398,315.25 874,195.97 32.090488 -103.258526 15,600.0 90.00 359.42 11,340.0 3,869.2 5.0 398,415.24 874,194.96 32.090763 -103.258526 15,700.0 90.00 359.42 11,340.0 3,969.2 4.0 398,515.24 874,193.95 32.091038 -103.258526 15,800.0 90.00 359.42 11,340.0 4,069.2 2.9 398,615.23 874,192.94 32.091313 -103.258526 15,900.0 90.00 359.42 11,340.0 4,169.2 1.9 398,715.23 874,191.93 32.091588 -103.258526	•							•		-103.258526
15,400.0 90.00 359.42 11,340.0 3,669.3 7.0 398,215.25 874,196.98 32.090214 -103.258526 15,500.0 90.00 359.42 11,340.0 3,769.2 6.0 398,315.25 874,195.97 32.090488 -103.258526 15,600.0 90.00 359.42 11,340.0 3,869.2 5.0 398,415.24 874,194.96 32.090763 -103.258526 15,700.0 90.00 359.42 11,340.0 3,969.2 4.0 398,515.24 874,193.95 32.091038 -103.258526 15,800.0 90.00 359.42 11,340.0 4,069.2 2.9 398,615.23 874,192.94 32.091313 -103.258526 15,900.0 90.00 359.42 11,340.0 4,169.2 1.9 398,715.23 874,191.93 32.091588 -103.258526	•							•		
15,500.0 90.00 359.42 11,340.0 3,769.2 6.0 398,315.25 874,195.97 32.090488 -103.258526 15,600.0 90.00 359.42 11,340.0 3,869.2 5.0 398,415.24 874,194.96 32.090763 -103.258526 15,700.0 90.00 359.42 11,340.0 3,969.2 4.0 398,515.24 874,193.95 32.091038 -103.258526 15,800.0 90.00 359.42 11,340.0 4,069.2 2.9 398,615.23 874,192.94 32.091313 -103.258526 15,900.0 90.00 359.42 11,340.0 4,169.2 1.9 398,715.23 874,191.93 32.091588 -103.258526					- ,					
15,600.0 90.00 359.42 11,340.0 3,869.2 5.0 398,415.24 874,194.96 32.090763 -103.258526 15,700.0 90.00 359.42 11,340.0 3,969.2 4.0 398,515.24 874,193.95 32.091038 -103.258526 15,800.0 90.00 359.42 11,340.0 4,069.2 2.9 398,615.23 874,192.94 32.091313 -103.258526 15,900.0 90.00 359.42 11,340.0 4,169.2 1.9 398,715.23 874,191.93 32.091588 -103.258526										
15,700.0 90.00 359.42 11,340.0 3,969.2 4.0 398,515.24 874,193.95 32.091038 -103.258526 15,800.0 90.00 359.42 11,340.0 4,069.2 2.9 398,615.23 874,192.94 32.091313 -103.258526 15,900.0 90.00 359.42 11,340.0 4,169.2 1.9 398,715.23 874,191.93 32.091588 -103.258526							•	•		
15,800.0 90.00 359.42 11,340.0 4,069.2 2.9 398,615.23 874,192.94 32.091313 -103.258526 15,900.0 90.00 359.42 11,340.0 4,169.2 1.9 398,715.23 874,191.93 32.091588 -103.258526				•						
15,900.0 90.00 359.42 11,340.0 4,169.2 1.9 398,715.23 874,191.93 32.091588 -103.258526	•			•				•		
				•			,	·		
16.000.0 90.00 359.42 11.340.0 4.269.2 0.9 398.815.22 874.190.92 32.091863 -103.258526	16,000.0	90.00	359.42	11,340.0	4,169.2	0.9	398,815.22	874,190.92	32.091863	-103.258526
				•	,					-103.258526
				•				,		-103.258526
				•			·	,		-103.258526
								•		-103.258526
								•		-103.258526
				11,340.0	4,869.2		399,415.19	•	32.093512	-103.258526
	16,700.0	90.00	359.42	11,340.0	4,969.2	-6.1			32.093787	-103.258526
16,800.0 90.00 359.42 11,340.0 5,069.2 -7.1 399,615.18 874,182.85 32.094062 -103.258527	16,800.0	90.00	359.42	11,340.0	5,069.2	-7.1	399,615.18	874,182.85	32.094062	-103.258527



Company: Ameredev Operating
Project: Lea County, NM (N83-NME)

Site: Juniper_Pimento

Well: JUNIPER 25-36-34 FED COM 112H

Wellbore: OWB
Design: PRELIM1

MD Peference

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Local Co-ordinate Reference:

Database:

Well JUNIPER 25-36-34 FED COM 112H

KB=27' @ 3024.0usft

KB=27' @ 3024.0usft

Minimum Curvature

AUS-COMPASS - EDM 15 - 32bit

Planned Surv	'ey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,803.0	90.00	359.42	11,340.0	5,072.2	-7.2	399,618.15	874,182.82	32.094070	-103.258527
	136232 Entr								
16,900.0		359.42	11,340.0	5,169.2	-8.2	399,715.18	874,181.84	32.094336	-103.258527
17,000.0		359.42	11,340.0	5,269.2	-9.2	399,815.17	874,180.83	32.094611	-103.258527
17,100.0		359.42	11,340.0	5,369.2	-10.2	399,915.17	874,179.82	32.094886	-103.258527
17,200.0		359.42	11,340.0	5,469.2	-11.2	400,015.16	874,178.81	32.095161	-103.258527
17,300.0		359.42	11,340.0	5,569.2	-12.2	400,115.16	874,177.81	32.095436 32.095711	-103.258527
17,400.0 17,500.0		359.42 359.42	11,340.0 11,340.0	5,669.2 5,769.1	-13.2 -14.2	400,215.15 400,315.15	874,176.80 874,175.79	32.095711	-103.258527 -103.258527
17,600.0		359.42	11,340.0	5,869.1	-14.2	400,315.13	874,173.79 874,174.78	32.096260	-103.258527
17,700.0		359.42	11,340.0	5,969.1	-16.2	400,515.14	874,173.77	32.096535	-103.258527
17,800.0		359.42	11,340.0	6,069.1	-17.2	400,615.13	874,172.76	32.096810	-103.258527
17,900.0		359.42	11,340.0	6,169.1	-18.2	400,715.13	874,171.75	32.097085	-103.258527
18,000.0	90.00	359.42	11,340.0	6,269.1	-19.3	400,815.12	874,170.74	32.097360	-103.258527
18,100.0	90.00	359.42	11,340.0	6,369.1	-20.3	400,915.12	874,169.73	32.097635	-103.258527
18,200.0		359.42	11,340.0	6,469.1	-21.3	401,015.11	874,168.73	32.097910	-103.258527
18,300.0		359.42	11,340.0	6,569.1	-22.3	401,115.11	874,167.72	32.098185	-103.258527
18,400.0		359.42	11,340.0	6,669.1	-23.3	401,215.10	874,166.71	32.098459	-103.258527
18,500.0		359.42	11,340.0	6,769.1	-24.3	401,315.10	874,165.70	32.098734	-103.258527
18,600.0		359.42	11,340.0	6,869.1	-25.3	401,415.09	874,164.69	32.099009	-103.258527
18,700.0		359.42	11,340.0	6,969.1	-26.3	401,515.09	874,163.68 874,162.67	32.099284	-103.258527
18,800.0 18,900.0		359.42 359.42	11,340.0 11,340.0	7,069.1 7,169.1	-27.3 -28.3	401,615.08 401,715.08	874,162.67 874,161.66	32.099559 32.099834	-103.258527 -103.258527
19,000.0		359.42	11,340.0	7,109.1	-20.3	401,715.08	874,160.65	32.100109	-103.258527
19,100.0		359.42	11,340.0	7,369.1	-30.4	401,915.07	874,159.64	32.100383	-103.258527
19,200.0		359.42	11,340.0	7,469.1	-31.4	402,015.06	874,158.64	32.100658	-103.258527
19,300.0		359.42	11,340.0	7,569.1	-32.4	402,115.06	874,157.63	32.100933	-103.258527
19,400.0	90.00	359.42	11,340.0	7,669.1	-33.4	402,215.05	874,156.62	32.101208	-103.258528
19,500.0	90.00	359.42	11,340.0	7,769.0	-34.4	402,315.05	874,155.61	32.101483	-103.258528
19,600.0		359.42	11,340.0	7,869.0	-35.4	402,415.04	874,154.60	32.101758	-103.258528
19,700.0		359.42	11,340.0	7,969.0	-36.4	402,515.04	874,153.59	32.102033	-103.258528
19,800.0		359.42	11,340.0	8,069.0	-37.4	402,615.03	874,152.58	32.102307	-103.258528
19,900.0		359.42	11,340.0	8,169.0	-38.4	402,715.03	874,151.57	32.102582	-103.258528
20,000.0		359.42	11,340.0	8,269.0	-39.4	402,815.02	874,150.56	32.102857	-103.258528
20,100.0 20,200.0		359.42 359.42	11,340.0 11,340.0	8,369.0 8,469.0	-40.4 -41.5	402,915.01 403,015.01	874,149.55 874,148.55	32.103132 32.103407	-103.258528 -103.258528
20,200.0		359.42	11,340.0	8,569.0	-41.5 -42.5	403,015.01	874,146.55 874,147.54	32.103407	-103.258528
20,400.0		359.42	11,340.0	8,669.0	-42.5 -43.5	403,215.00	874,146.53	32.103957	-103.258528
20,500.0		359.42	11,340.0	8,769.0	-44.5	403,314.99	874,145.52	32.104231	-103.258528
20,600.0		359.42	11,340.0	8,869.0	-45.5	403,414.99	874,144.51	32.104506	-103.258528
20,700.0		359.42	11,340.0	8,969.0	-46.5	403,514.98	874,143.50	32.104781	-103.258528
20,800.0	90.00	359.42	11,340.0	9,069.0	-47.5	403,614.98	874,142.49	32.105056	-103.258528
20,900.0	90.00	359.42	11,340.0	9,169.0	-48.5	403,714.97	874,141.48	32.105331	-103.258528
21,000.0		359.42	11,340.0	9,269.0	-49.5	403,814.97	874,140.47	32.105606	-103.258528
21,100.0		359.42	11,340.0	9,369.0	-50.5	403,914.96	874,139.46	32.105881	-103.258528
21,200.0		359.42	11,340.0	9,469.0	-51.5	404,014.96	874,138.46	32.106155	-103.258528
21,300.0		359.42	11,340.0	9,569.0	-52.6	404,114.95	874,137.45	32.106430	-103.258528
21,400.0		359.42	11,340.0	9,668.9	-53.6	404,214.95	874,136.44 874,135,43	32.106705	-103.258528
21,500.0 21,600.0		359.42 359.42	11,340.0 11,340.0	9,768.9 9,868.9	-54.6 -55.6	404,314.94 404,414.94	874,135.43 874,134.42	32.106980 32.107255	-103.258528 -103.258528
21,700.0		359.42	11,340.0	9,968.9	-56.6	404,414.94	874,133.41	32.107233	-103.258528
21,800.0		359.42	11,340.0	10,068.9	-57.6	404,614.93	874,132.40	32.107805	-103.258528
21,900.0		359.42	11,340.0	10,168.9	-58.6	404,714.92	874,131.39	32.108080	-103.258528
21,988.1		359.42	11,340.0	10,257.0	-59.5	404,802.99	874,130.50	32.108322	-103.258529
Start 5	0.0 hold at 2	1988.1 MD	- LTP (J 112H)					



Company: Ameredev Operating Project: Lea County, NM (N83-NME)

Site: Juniper Pimento

JUNIPER 25-36-34 FED COM 112H Well:

Wellbore: OWB PRELIM1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Database:

KB=27' @ 3024.0usft KB=27' @ 3024.0usft

Survey Calculation Method: Minimum Curvature

AUS-COMPASS - EDM 15 - 32bit

Well JUNIPER 25-36-34 FED COM 112H

Pla	nnec	l Sur	vev

N	leasured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
	22,000.0 22,038.1		359.42 359.42	11,340.0 11,340.0	10,268.9 10,307.0	-59.6 -60.0	404,814.92 404,853.00	874,130.38 874,130.00	32.108354 32.108459	-103.258529 -103.258529
	TD at 2	2038.1 - BHL	_ (J 112H)							

Des	ign	Targets	
-----	-----	---------	--

Target Name - hit/miss target D - Shape	ip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (J 112H) - plan misses target - Point	0.00 center by		11,340.0 1988.1usft	10,257.0 MD (11340.0	-59.0 TVD, 10257	404,803.00 7.0 N, -59.5 E)	874,131.00	32.108322	-103.258527
FTP (J 112H) - plan hits target cen - Point	0.00 iter	0.00	11,340.0	-99.0	45.0	394,447.00	874,235.00	32.079856	-103.258524
BHL (J 112H) - plan hits target cen - Point	0.00 iter	0.01	11,340.0	10,307.0	-60.0	404,853.00	874,130.00	32.108459	-103.258529

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,396.0	1,396.0	Rustler		0.00	
	1,847.0	1,847.0	Salado		0.00	
	3,026.0	3,024.0	Dewey Lake			
	3,317.6	3,315.0	Tansill			
	3,856.8	3,853.0	Capitan			
	5,161.6	5,155.0	Lamar			
	5,242.8	5,236.0	Bell Canyon			
	6,673.9	6,664.0	Brushy Canyon			
	7,593.9	7,582.0	Bone Spring Lime			
	9,355.7	9,340.0	First Bone Spring			
	9,833.8	9,817.0	Second Bone Spring			
	10,468.2	10,450.0	Upper Third Bone Spring			
	11,134.7	11,104.0	Third Bone Spring			
	11,458.6	11,309.0	Wolfcamp			



Company: Ameredev Operating
Project: Lea County, NM (N83-NME)

Site: Juniper_Pimento

Well: JUNIPER 25-36-34 FED COM 112H

Wellbore: OWB
Design: PRELIM1

Local Co-ordinate Reference:

TVD Reference:

North Reference: Survey Calculation Method:

Database:

Well JUNIPER 25-36-34 FED COM 112H

KB=27' @ 3024.0usft

KB=27' @ 3024.0usft

Minimum Curvature

AUS-COMPASS - EDM 15 - 32bit

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2000	2000	0	0	Start Build 2.00
2189	2189	-6	1	Start 8661.1 hold at 2189.1 MD
10,850	10,831	-575	47	KOP-Start DLS 12.00 TFO -175.86
11,632	11,340	-99	45	LP-Start 10356.5 hold at 11631.6 MD
16,803	11,340	5072	-7	NMNM 136232 Entry at 16803.0 MD
21,988	11,340	10,257	-59	Start 50.0 hold at 21988.1 MD
22,038	11,340	10,307	-60	TD at 22038.1

	Checked By:	Approved By:	Date	:
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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

Environmental Assessment DOI-BLM-NM-P020-2024-0232-EA

Pimento and Juniper MW Ameredev Operating, LLC NMNM136233

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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 Timing Stipulations
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
☐ Road Section Diagram
☐ Production (Post Drilling)
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Pipelines
Electric Lines
☐ Interim Reclamation
Final Ahandonment & 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 top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

<u>Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:</u>

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, 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 feet 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.

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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

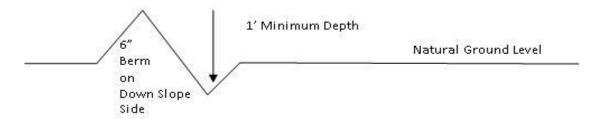
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

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.

Construction Steps

- 1. Salvage topsoil
- 3. Redistribute topsoil
- 2. Construct road
 - ct road 4. Revegetate slopes

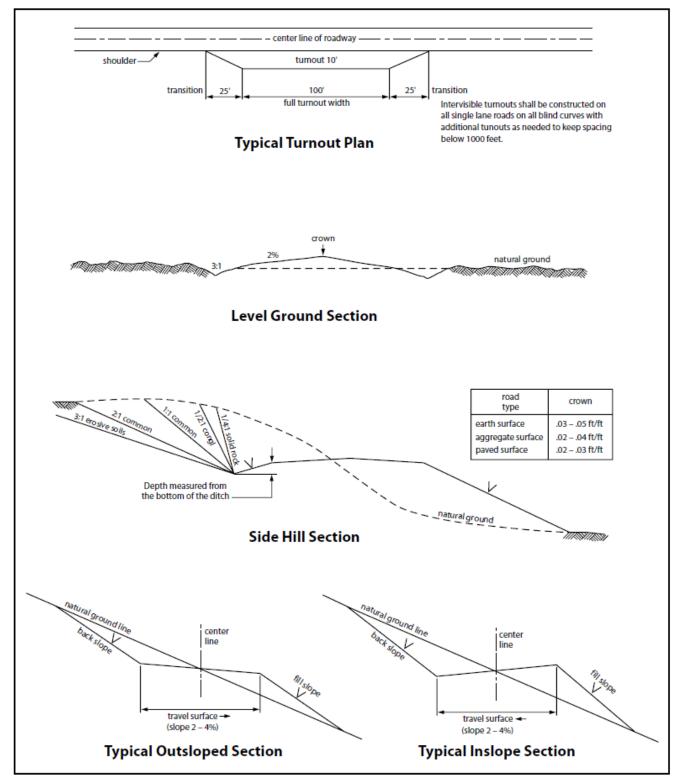


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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 1½ 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 1½ inches.

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

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

- 1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (*see* 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.
- 4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting
 - (4) Vandalism and sabotage;
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

- 5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.
- 6. All construction and maintenance activity shall be confined to the authorized right-of-way width of <u>30</u> feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.
- 7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.
- 8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.
- 9. The pipeline shall be buried with a minimum of ______ 6 ____ inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

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- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. 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 Stipulation 16 for more information.

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

16. 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."

- 17. 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.
- 18. 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, powerline 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.
- 19. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

BURIED PIPELINE STIPULATIONS

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

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

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

- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.
- 5. All construction and maintenance activity will be confined to the authorized right-of-way.
- 6. The pipeline will be buried with a minimum cover of ______ inches between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>20</u> feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of
 clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in
 this area. (Clearing is defined as the removal of brush while leaving ground vegetation
 (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6
 inches above the ground surface.)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
- 8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6__ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
- 9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the

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owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

- 10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

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

- 13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2.
- 14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
- 15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.
- 16. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

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

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

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

- 17. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."
- 18. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 19. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 20. <u>Escape Ramps</u> The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES.

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

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

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without

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liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. 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 Stipulation 11 for more information.

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

11. 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."

12. 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.

13. Special Stipulations:

For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

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

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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 #2 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:

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

^{*}Pounds of pure live seed:

Pounds of seed \mathbf{x} percent purity \mathbf{x} percent germination = pounds pure live seed

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Ameredev Operating LLC Juniper 25 36 34 Fed Com 112H WELL NAME & NO.: **LOCATION:** Sec 34-25S-36E-NMP **COUNTY:** Lea County, New Mexico

COA

H2S	O Yes	⊙ No		
Potash / WIPP	None	Secretary	© R-111-P	□WIPP
Cave / Karst	• Low	O Medium	C High	Critical
Wellhead	Conventional	• Multibowl	C Both	O 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

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 1521 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 **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead
 - 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).'

- 2. 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. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

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- 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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL
- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged

with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 Subpart 3172 must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug

(i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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



H₂S Drilling Operation Plan

1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:

- a. Characteristics of H₂S
- b. Physical effects and hazards
- c. Principal and operation of H₂s detectors, warning system and briefing areas
- d. Evacuation procedure, routes and first aid
- e. Proper use of safety equipment and life support systems
- **f.** Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

2. Briefing Area:

- a. Two perpendicular areas will be designated by signs and readily accessible.
- **b.** Upon location entry there will be a designated area to establish all safety compliance criteria (1.) has been met.

3. H₂S Detection and Alarm Systems:

- a. H_2S 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_2S detectors may be placed as deemed necessary. All detectors will be set to initiate visual alarm at 10 ppm and visual with audible at 14 ppm and all equipment will be calibrated every 30 days or as needed.
- **b.** An audio alarm will be installed on the derrick floor and in the top doghouse.

4. Protective Equipment for Essential Personnel:

a. Breathing Apparatus:

- i. Rescue Packs (SCBA) 1 Unit shall be placed at each briefing area.
- ii. Two (SCBA) Units will be stored in safety trailer on location.
- iii. Work/Escape packs 1 Unit will be available on rig floor in doghouse for emergency evacuation for driller.

b. Auxiliary Rescue Equipment:

- i. Stretcher
- ii. 2 OSHA full body harnesses
- iii. 100 ft. 5/8" OSHA approved rope
- iv. 1 20# class ABC fire extinguisher

5. Windsock and/or Wind Streamers:

- a. Windsock at mud pit area should be high enough to be visible.
- **b.** Windsock on the rig floor should be high enough to be visible.

6. Communication:

- a. While working under mask scripting boards will be used for communication where applicable.
- **b.** Hand signals will be used when script boards are not applicable.



H₂S Drilling Operation Plan

- c. Two way radios will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at Drilling Foreman's Office.
- 7. <u>Drill Stem Testing:</u> No Planned DST at this time.

8. Mud program:

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

9. Metallurgy:

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



H₂S Contingency Plan

Emergency Procedures

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

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

Ignition of Gas Source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

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



H₂S Contingency Plan

Ameredev Operating LLC – Emergency Phone 737-300-4799			
Key Personnel:			
Name	Title	Office	Mobile
Floyd Hammond	Chief Operating officer	737-300-4724	512-783-6810
Shane McNeely	Operations Engineer	737-300-4729	432-413-8593
Joe Bob Jones	Construction Foreman		432-260-9261

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



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT SUPO Data Report

APD ID: 10400087970

Submission Date: 09/08/2022

Operator Name: AMEREDEV OPERATING LLC

Well Name: JUNIPER 25 36 34 FED COM

Well Type: OIL WELL

Well Number: 112H

Well Work Type: Drill

Highlighted data reflects the most recent changes Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

EP_NORTH_ROAD_EASEMENT_SEC_3_REV3_S_20220906140702.pdf

JUNIPER_25_36_34_FED_COM_112H___ACCESS_MAP_REV_20230419135845.pdf

Existing Road Purpose: ACCESS Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

EP_NORTH_ROAD_EASEMENT_SEC_3_REV3_S_20220906141043.pdf

JUNIPER_25_36_34_FED_COM_112H___ACCESS_MAP_REV_20230419135930.pdf

New road type: RESOURCE

Length: 5182 Feet Width (ft.): 30

Max slope (%): 2

Max grade (%): 2

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

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

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:

JUNIPER_25_36_34_FED_COM_112H___ONE_MILE_RADIUS_20220908140925.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: The multiple well pad JUN/PIM #1N will be located on Section 34 and will measure approximately 400' x 500'. The top 6" of soil and brush will be stockpiled to the east of the well pad. Should any type of production facilities be located on the well pad, they will be strategically placed to allow for maximum interim reclamation, recontouring, and revegetation of the well location. Produced oil and water from the proposed well will be transported from a satellite battery shared by well pads JUN/PIM #1N & #2N to an existing production facility named Firethorn CTB, southwest of the well pad. The Firethorn CTB is a 525'x500' pad located in the NWNE of Section 04-T26S-R36E. Produced gas is also collected at the satellite and tied directly into an existing adjacent gas sales line. A 4" buried Shawcor FP301 flowline (750 psi maximum) will run from each wellhead on the JUN/PIM #1N well pad to the satellite battery Juniper #2N

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

Satellite on the JUN/PIM #2N well pad, carrying oil, gas, and water, for a distance of approximately 599'. 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 to the Firethorn CTB. A 12" buried HDPE SDR 11 gathering line (100 psi maximum) will carry crude oil from the satellite to the CTB. A 12" buried HDPE SDR 11 gathering line (160 psi maximum) will carry produced water from the satellite to the CTB. These gathering lines run approximately 5,812' 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 pads. Gas lift will be provided to the JUN/PIM #1N well pad via a single buried 6" steel line (1440 psi maximum) that runs 451' to the south, where it ties into an existing gas lift line. All electrical lines will be primary 12,740 volt to properly run expected production equipment. To serve this project area, approximately 7,553' of overhead electrical lines will be run within a 30 ROW north of the well pads from the anticipated tie-in point at the JUN/PIM #4N pad on section 34 west through section 34 and into section 33, where they tie in with existing overhead lines. Approximately 3,742' of this electrical line length serves the JUN/PIM #1 well pad. These distances are a maximum approximation and may vary based on lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical lines/easement is attached.

Production Facilities map:

EP_HYDROCARBON_HP_GLL_FL_SEC34_S_20230419140109.pdf

EP_MULTILINE_EASEMENT_OIL_LPGAS_WATER_SEC4_S_20230419140110.pdf

EP_NORTH_ELECTRIC_SEC_33_20230419140111.pdf

EP_NORTH_ELECTRIC_JUNIPER_SEC34_S_20230419140112.pdf

EP_TO_FIR_MULTI_USE_EASEMENT_T26S_R36E_SEC_4_REV1_S_20230419140117.pdf

BO_FIRETHORN_FED_COM_BATTERY_SITE_REV2_S_20230419140117.pdf

EP_MULTILINE_EASEMENT_OIL_LPGAS_WATER_SEC3_S_20230419140118.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: GW WELL

Water source use type: DUST CONTROL

SURFACE CASING

INTERMEDIATE/PRODUCTION

CASING

STIMULATION

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

PIPELINE

Source land ownership: PRIVATE

Source transportation land ownership: FEDERAL

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

Water source volume (barrels): 20000 Source volume (acre-feet): 2.57786193

Source volume (gal): 840000

Water source and transportation

JUNIPER_25_36_34_FED_COM_112H___WATER_WELLS_LIST_20220908141000.pdf JUNIPER_25_36_34_FED_COM_112H___WATER_WELL_MAP_20220908141000.pdf

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

New water well? N

New Water Well Info

Well latitude: Well Longitude: Well datum:

Well target aquifer:

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

Aquifer comments:

Aquifer documentation:

Well depth (ft): Well casing type:

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

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

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

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: NM One Call (811) will be notified before construction start. Top 6" of soil and brush will be stockpiled east 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

JUNIPER_25_36_34_FED_COM_112H___CALICHE_MAP_20220908141014.pdf JUNIPER_25_36_34_FED_COM_112H___WELLSITE_20220908141022.pdf BO_JUNIPER_FED_COM_1N_PAD_S_20220908141022.pdf Received by OCD: 2/21/2024 4:23:02 PM

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Operator Name: AMEREDEV OPERATING LLC

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

Section 7 - Methods for Handling

Waste type: DRILLING

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

Amount of waste: 2000 gallons

Waste disposal frequency: Daily

Safe containment description: Steel Tanks on pad

Safe containment attachment:

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

FACILITY

Disposal type description:

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location Steel tanks on pad

Cuttings area length (ft.) Cuttings area 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

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

JUNIPER_25_36_34_FED_COM_112H___WELLSITE_20220908141049.pdf BO_JUNIPER_FED_COM_1N_PAD_S_20220908141049.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: JUN/PIM

Multiple Well Pad Number: 1N

Recontouring

JUNIPER_25_36_34_FED_COM_112H___WELLSITE_20220908141102.pdf

Drainage/Erosion control construction: Crowned and ditched

Drainage/Erosion control reclamation: Harrowed on the contour

Well pad proposed disturbance

(acres): 4.59

Road proposed disturbance (acres):

Powerline proposed disturbance

(acres): 2.58

Pipeline proposed disturbance

(acres): 4.73

Other proposed disturbance (acres): 0 Other interim reclamation (acres): 0

Well pad interim reclamation (acres):

Road interim reclamation (acres): 0

Powerline interim reclamation (acres): Powerline long term disturbance

Pipeline interim reclamation (acres): 0 Pipeline long term disturbance

(acres): 4.73

Well pad long term disturbance

(acres): 4.22

(acres): 2.58

3.57

Other long term disturbance (acres): 0

Road long term disturbance (acres):

Total interim reclamation: 0.37 Total proposed disturbance: 15.47 Total long term disturbance: 15.1

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 east side of the pad. This will leave 4.22 acres for producing five wells, with tractor-trailer turn around. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the surface owner's requirements. All topsoil for the battery will be reseeded in place for the life of the battery.

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

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

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 Contact/Responsible Official

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

First Name: PATRICK Last Name: KELLEY

Phone: (404)402-9980 Email: PKELLEY@AMEREDEV.COM

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: To BLM standards

Weed treatment plan

Monitoring plan description: To BLM standards

Monitoring plan

Success standards: To BLM satisfaction

Pit closure description: No pit

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

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 (SUA) IN PLACE.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: PIPELINE

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

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:

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

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 (SUA) 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:

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:

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

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 (SUA) IN PLACE.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: OTHER

Describe: POWER 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:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

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 (SUA) IN PLACE.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW

SUPO Additional Information:

Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

Juniper_25_36_34_Fed_Com_112H_SUPO_REV_20230419140537.pdf



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

PWD Data Report

PWD disturbance (acres):

APD ID: 10400087970 **Submission Date:** 09/08/2022

Operator Name: AMEREDEV OPERATING LLC

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

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

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

Lined pit Monitor description:

Lined pit Monitor

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

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

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

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:

PWD surface owner: PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: Injection well name:

Assigned injection well API number? Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

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):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Well Name: JUNIPER 25 36 34 FED COM Well Number: 112H

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

Wellbore Schematic

 Well:
 Juniper 25 36 34 Fed Com 112H
 Co. Well ID:

 SHL:
 SEC. 34, T. 25-S, R. 36-E, 200' FSL, 896' FWL
 AFE No.:

 BHL:
 SEC. 27, T. 25-S, R. 36-E, 50' FNL, 940' FWL
 API No.:

Lea, NM

Wellhead: A - 13-5/8" 10M x 13-5/8" SOW

B - 13-5/8" 10M x 13-5/8" 10M C - 13-5/8" 10M x 13-5/8" 10M

Tubing Spool - 7-1/16" 15M x 13-3/8" 10M

Xmas Tree: 2-9/16" 10M

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

API No.: XXXXXXXXXXXXXXX GL: 2997
Field: Delaware
Objective: Wolfcamp A

TVD: 11340 **MD**: 22038

Rig: TBD KB 27'

XXXXXX

XXXX-XXX

E-Mail: <u>DrillingCR@ameredev.com</u>

Hole Size	Formation Tops	Logs	Cem	ent	Mud Weight
17.5"	Rustler 1,396' 13.375" 68# J-55 BTC 1,521'		1,247 Sacks TOC 0'	100% Excess	8.4-8.6 ppg WBM
	Salado 1,847' DV Tool with ACP 3,315'		836 Sacks TOC 0'	20% Excess	
12.25"	Tansill 3,315'				1
12.25	Capitan Reef 3,853'				
	Lamar 5,155'				ulsio _l
	Bell Canyon 5,236'				Emr
	No Casing 5,280'				rine
		1			<u>В</u>
	Brushy Canyon 6,664'				Dies
	Bone Spring Lime 7,582'				7.5-9.4 Diesel Brine Emulsion
9.875"	First Bone Spring 9,340'				7.5
0.0.0	Second Bone Spring 9,817'			"	
	Third Bone Spring Upper 10,450'		sacks	xcess	
	7.625" 29.7# L-80HC BTC 10,575'		1,126 Sacks TOC 0'	50% Excess	
6.75"	Third Bone Spring 11,104'				>
12° Build	Wolfcamp 11,309'				OBM
@					10.5-12.5 ppg
10850 thru	5.5" 23# P-110 USS-Eagle SFH 22038	4	ks	SS	12.5
	Target Wolfcamp A 11340 TVD // 22038 MD		Sac)'	Xce	0.5-
			1,716 Sacks TOC 0'	25% Excess	=
			1,i	25	



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

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

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



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.</p>
- 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.

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

CONDITIONS

Action 316456

CONDITIONS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	316456
	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	3/1/2024
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	3/1/2024
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	3/1/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	3/1/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	3/1/2024