Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

BUR	EAU OF LAND MAN	5. Lease Serial No.							
Do not use this t	NOTICES AND REPO form for proposals t Use Form 3160-3 (A	to drill or to re-	enter an	6. If Indian, Allottee or Tribe Name					
SUBMIT IN	TRIPLICATE - Other instru	uctions on page 2		7. If Unit of CA/Agreement,	, Name and/or No.				
1. Type of Well			8. Well Name and No.						
Oil Well Gas V	Vell Other	9. API Well No.							
		3b. Phone No. (inclu	do anos codo						
3a. Address		10. Pieta and Foot of Exploi	atory Area						
4. Location of Well (Footage, Sec., T., F	R.,M., or Survey Description))		11. Country or Parish, State					
12. CHE	CK THE APPROPRIATE B	OX(ES) TO INDICAT	ΓE NATURE	OF NOTICE, REPORT OR O	THER DATA				
TYPE OF SUBMISSION			TYP	E OF ACTION					
Notice of Intent	Acidize	Deepen		Production (Start/Resume					
	Alter Casing	Hydraulic 1		Reclamation	Well Integrity				
Subsequent Report	Casing Repair	New Const		Recomplete	Other				
	Change Plans	Plug and A	bandon	Temporarily Abandon					
Final Abandonment Notice	Convert to Injection	Plug Back		Water Disposal					
is ready for final inspection.) 14. I hereby certify that the foregoing is	strue and correct. Name (Pr	inted/Tyned)							
14. I hereby certify that the foregoing is	true and correct. Name (Pri	intea/Typea) Title							
		Title							
Signature		Date	;						
	THE SPACE	FOR FEDERA	L OR STA	ATE OFICE USE					
Approved by									
			Title		Date				
Conditions of approval, if any, are attackerify that the applicant holds legal or which would entitle the applicant to con-	equitable title to those rights		Office						
Title 18 U.S.C Section 1001 and Title 4	3 U.S.C Section 1212, make	it a crime for any per	son knowingl	y 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)

CONDITIONS OF APPROVAL FOR APD EXTENSION

The Approved Application for Permit to Drill (AAPD) expires if only conductor or surface casing has been set, and the well is not being diligently drilled at the expiration date of the extension.

The APD extension is granted for a 2-year period, not exceed 4 years from the approval of the APD.

Additional Information

Batch Well Data

JUNIOR MINT FED 111H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 112H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 121H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 122H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 131H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 132H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 135H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 137H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 151H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 152H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 211H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 212H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 215H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 217H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609,

Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 221H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 222H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 113H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 133H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 213H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 117H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 118H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 123H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 124H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 134H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 138H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 156H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 158H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 214H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 216H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 218H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 223H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 224H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator: CIVITAS PERMIAN OPERATING LLC

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0137 Expires: December 31, 2024

BUREAU OF LAND MANAGEMEN	5. Lease Serial No. NMI	NM101609						
SUNDRY NOTICES AND REPORTS ON Do not use this form for proposals to drill or abandoned well. Use Form 3160-3 (APD) for s	6. If Indian, Allottee or T	ribe Name						
SUBMIT IN TRIPLICATE - Other instructions on pa	7. If Unit of CA/Agreema	ent, Name and/or No.						
1. Type of Well ☐ Gas Well ☐ Other	8. Well Name and No. Multiple - See Attached							
2. Name of Operator CIVITAS PERMIAN OPERATING, LLC (OGRID: 3321	9. API Well No.	 /						
	o. (include area code)	10. Field and Pool or Exp	5.					
(303) 293-8	9100	WC-02 H-08 S25353						
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) Multiple - See Attached		11. Country or Parish, St LEA COUNTY, NM	ate					
12. CHECK THE APPROPRIATE BOX(ES) TO I	NDICATE NATURE OF NOT	ICE, REPORT OR OTHE	R DATA					
TYPE OF SUBMISSION	TYPE OF AC	TION						
✓ Notice of Intent		luction (Start/Resume) lamation	Water Shut-Off Well Integrity					
Subsequent Report		omplete	Other					
	=	porarily Abandon er Disposal	SUCCESSOR OPERATOR					
the proposal is to deepen directionally or recomplete horizontally, give subsuthe Bond under which the work will be perfonned or provide the Bond No. of completion of the involved operations. If the operation results in a multiple of completed. Final Abandonment Notices must be filed only after all requirements ready for final inspection.) This is notification that CIVITAS PERMIAN OPERATING, LLC is taked CIVITAS PERMIAN OPERATING, LLC, as new operator, accepts all conducted on the leased land or portions thereof as described below. Bond Coverage: BLM Bond Number: NMB106332702 Change of Operator Effective: 01/30/2025 Former Operator: Tap Rock Operating, LLC (OGRID: 372043) Connor Wood, EVP Tap Rock Operating, LLC	on file with BLM/BIA. Required completion or recompletion in a ents, including reclamation, having over operations of the well applicable terms, conditions of	d subsequent reports must thew interval, a Form 316 we been completed and the tells referenced in Apper	0-4 must be filed once testing has been operator has detennined that the site adix A (Lea County, NM).					
Nathan S. Bennett	Director, Permitting	g & Compliance						
Signature AdSBV	Date	02/26/202	25					
THE SPACE FOR FE	DERAL OR STATE O	FICE USE						
Approved by JENNIFER SANCHEZ Date: 2025.03.03 05:39:54 -07'00'	_{Title} Petroleur	m Engineer _{Da}	03/03/2025					
Conditions of approval, if any, are attached. Approval of this notice does not warrant or ertify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office RFO								
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any false, fictitious or fraudulent statements or representations as to any matter v	or any person knowingly and wi	illfully to make to any dep	artment or agency of the United States					

(Instructions on page 2)

			APPENDIX A			
Lease Number	Legal Description	API Number	Well Name	Producing Reservoir	County	State
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 111H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 112H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 113H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 117H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 118H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 121H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 122H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 123H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 124H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 131H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 132H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 133H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 134H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 135H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 137H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 138H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 151H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 152H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 156H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 158H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 211H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 212H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 213H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 214H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 215H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 216H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 217H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 218H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 221H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 222H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 223H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 224H	AAPD	LEA	NM

Change of Operator Conditions of Approval

- 1. Tank battery must be bermed/diked (must be able to contain 1 1/2 times the volume of the largest tank) within 90 days.
- 2. Submit for approval of water disposal method within 60 days, if changes have been made from previously approved disposal method.
- 3. Review facility diagram on file, and submit updated facility diagrams, as per Onshore Order #3 within 60 day.
- 4. This agency shall be notified of any spill or discharge as required by NTL-3A.
- 5. All outstanding environmental issue must be addressed within 90 days. Contact Jim Amos for inspection and to resolve environmental issues. 575-234-5909
- 6. Install legible well sign on location with operator name, well name and number, lease number, unit number, 1/4 1/4, section, township, and range. NMOCD requires the API number on well signs.
- 7. Subject to like approval by NMOCD.
- 8. All Reporting to ONRR (OGOR Reports) must be brought current within 30 days of this approval including any past history.
- 9. If this well is incapable of producing in paying quantities submit NOI to plug and abandon this well or obtain approval to do otherwise within 90 days.

 10. Submit plan for approval of well operations for all TA/SI wells within 30 days of this approval to
- change operator.
- 11. If not in place acquire operating rights on this lease within 30 days with BLM office in Santa Fe, NM.

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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. NMNM101609 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 JUNIOR MINT FED 218H 2. Name of Operator 9. API Well No. TAP ROCK OPERATING LLC 30-025-55579 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 602 PARK POINT DRIVE SUITE 200, GOLDEN, CO 8040 (720) 460-3316 Dogie Draw; Wolfcamp 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 SEC 10/T25S/R35E/NMP At surface SWSE / 549 FSL / 1610 FEL / LAT 32.1391334 / LONG -103.3520685 At proposed prod. zone SESE / 5 FSL / 331 FEL / LAT 32.1085997 / LONG -103.3479335 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13 State LEA NM 9 miles 17. Spacing Unit dedicated to this well 15. Distance from proposed* 16. No of acres in lease 549 feet location to nearest property or lease line, ft. 1280.0 (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, 25 feet 12434 feet / 22921 feet FED: applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3224 feet 10/01/2022 90 days 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 BRIAN WOOD / Ph: (720) 460-3316 (Electronic Submission) 07/05/2022 Title Permitting Agent Approved by (Signature) Name (Printed/Typed) Date 02/08/2023 (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field 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)



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

Sundry Print Report

Well Name: JUNIOR MINT FED Well Location: T25S / R35E / SEC 10 / County or Parish/State: LEA /

SWSE / 32.1391334 / -103.3520685

Well Number: 218H Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

WELL

Lease Number: NMNM101609 Unit or CA Name: Unit or CA Number:

US Well Number: Operator: CIVITAS PERMIAN

OPERATING LLC

Notice of Intent

Sundry ID: 2874577

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 09/20/2025 Time Sundry Submitted: 12:08

Date proposed operation will begin: 10/15/2025

Procedure Description: Civitas Permian Operating, LLC would like to request the following changes to the previously approved surface hole location (SHL) and drill plan. Change SHL from 549' FSL & 1610' FEL, SWSE, Sec. 10, T.25S, R.35E to 328' FSL & 1463' FEL, SWSE, Sec. 10, T.25S, R.35E.nChanges to the drill plan and other variance requests are detailed in the attached revised drill plan. Also please see the attached revised C102 plat, directional plan, anticollision report, production casing spec sheets, offline cementing procedure and wellhead diagram for additional information. APD ID No. 10400086515.

NOI Attachments

Procedure Description

JM_218H_Sundry_Attachment_091825_20250920120715.pdf

Page 1 of 2

eceived by OCD: 11/17/2025 8:20:48 AM
Well Name: JUNIOR MINT FED

Well Location: T25S / R35E / SEC 10 /

SWSE / 32.1391334 / -103.3520685

County or Parish/State: LEA/ of 1

NM

Well Number: 218H

Type of Well: CONVENTIONAL GAS

WELL

Allottee or Tribe Name:

Lease Number: NMNM101609

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: CIVITAS PERMIAN

OPERATING LLC

Conditions of Approval

Additional

Sec 10 25S 35E NMP Sundry 2874578 Junior Mint Fed 218H COAs 20251029131504.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: CORY WALK Signed on: SEP 25, 2025 03:19 PM

Name: CIVITAS PERMIAN OPERATING LLC

Title: Permitting Agent

Street Address: 5 CALIENTE ROAD SUITE 3A

City: SANTA FE State: NM

Phone: (505) 466-8120

Email address: AFMSS@PERMITSWEST.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

Signature: Chris Walls

BLM POC Name: ALLISON MORENCY BLM POC Title: Contractor WO

BLM POC Phone: 2029127157 **BLM POC Email Address:** amorency@blm.gov

Disposition: Approved **Disposition Date:** 11/13/2025

Sposition: Approved Disposition Date: 11/10/202

Form 3160-5 (October 2024)

UNITED STATES

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

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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)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. 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 the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: SWSE / 549 FSL / 1610 FEL / TWSP: 25S / RANGE: 35E / SECTION: 10 / LAT: 32.1391334 / LONG: -103.3520685 (TVD: 0 feet, MD: 0 feet) PPP: NENE / 51 FNL / 323 FEL / TWSP: 25S / RANGE: 35E / SECTION: 15 / LAT: 32.1374905 / LONG: -103.3479125 (TVD: 12210 feet, MD: 12383 feet) BHL: SESE / 5 FSL / 331 FEL / TWSP: 25S / RANGE: 35E / SECTION: 22 / LAT: 32.1085997 / LONG: -103.3479335 (TVD: 12434 feet, MD: 22921 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Civitas Permian Operating LLC

WELL NAME & NO.: Junior Mint Fed 218H LOCATION: Sec 10-25S-35E-NMP

COUNTY: Lea County, New Mexico

Changes approved through engineering via **Sundry 2874577** on 10/29/2025. Any previous COAs not addressed within the updated COAs still apply.

Create COAs

H ₂ S	Cave / Karst	\	Vaste Prevention Rule
Not Reported	Low	APD	Submitted Prior to 06/10/24
Potash		R-111-Q Design	
None			
Wellhead Multibowl		Casing 3-String Well	
Wichioowi	☐ Liner	id Filled	Casing Clearance
✓ Flex Hose		Cementing	
✓ Break Testing	□ DV Tool	☐ Bradenhead	☐ Echometer
M Break Testing	Offline Cement	☐ Open Annulus	☐ Pilot Hole
	Special Requir	rements	
☐ Capitan Reef	☐ Water Disposal	\square COM	☐ Unit

THIS WELL HAS INTERVALS WITH A MASP OVER 5000 PSI. BREAK TESTING IS ONLY ALLOWED ON THOSE INTERVALS WHOSE MASP IS EXPECTED TO BE UNDER 5M PSI.

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 43 CFR 3176 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 11-3/4 inch surface casing shall be set between 990' to 1050' feet (a minimum of 70' into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. Set depth adjusted per BLM geologist.
 - 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 (including lead cement.)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is at least 300 feet into previous easing string. Operator shall provide method of verification.
 - If cement does not circulate to surface on the previous casing, this string must come to surface
 - String does not meet clearance requirement per 43 CFR 4172. Tieback increased by 100' and additional cement may be needed.

C. PRESSURE CONTROL

- 1. 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 **5000 (5M)** psi.
 - Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate 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.
- 2. 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).
- 3. Break testing has been approved for this well ONLY on those intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.) If in the event break testing is not utilized, then a full BOPE test would be conducted.
 - a. Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation. **BOPE Break Testing is NOT permitted to drill the production hole section.**
 - b. While in transfer between wells, BOPE shall be secured by the hydraulic carrier or cradle.
 - c. A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
 - d. As a minimum, a full BOPE test shall be performed at 21-day intervals.
 - e. In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172. Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.

D. SPECIAL REQUIREMENT(S)

Offline Cementing

Offline cementing has been approved for **all hole sections**, **excluding production**. Contact the BLM prior to the commencement of any offline cementing procedure.

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)

Contact Lea County Petroleum Engineering Inspection Staff:

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per **43** CFR **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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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 of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q 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 3172**.
- 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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. 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.
 - i. 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).
 - ii. 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.)
 - iii. 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 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. 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 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.

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WELL LOCATION AND ACREAGE DEDICATION PLAT								As Diffied				
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Α	15	25-S	35-E	-	100' N	331' E	N 32.13	73419	W 10	03.3479290	LEA	
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UL or lot no.	Section	Township	Range	Lot Idn		Feet from the E/W	Latitu	de		Longitude	County	
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UL or lot no.	Section	Township	Range	Lot Idn	Last Take I	Point (LTP) Feet from the E/W	Latitu	de		Longitude	County	
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pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has										24500		
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DRILLING AND OPERATIONS PLAN

Civitas Permian Operating LLC

Section 1: Well Information

Well Name and Number: Junior Mint Fed 218

Proposed TD (ft MD): 22769 Proposed TD (ft TVD): 12434

Section 2:

Casing Design

String Type	Hole Size	Casing Size	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Weight (lbs/ft)	Grade	Joint Type	Pressure Test (psi)	Collapse SF	BurstSF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	14.75	11.75	surface	1,076	surface	1,075	42	J55	BTC		1.13	1.15	BUOY	1.80	BUOY	1.80
Intermediate	9.875	7.625	surface	11,786	surface	11,659	29.7	P110	BTC		1.13	1.15	BUOY	1.80	BUOY	1.80
Production	6.75	5.5	surface	22,769	surface	12,434	20	P110RY	GBCD		1.13	1.15	BUOY	1.80	BUOY	1.80
											Safety	Factors w	II Meet or F	xceed		

Centralization Plan:

Surface casing: centralizers run on bottom 3 joints. On subsequent strings of casing centralizers will be run as needed to ensure effective cement placement and zonal isolation.

NMOCD Casing Information:

Is casing new? If used, attach certification as required in 43 CFR 3172.

Does casing meet API specifications? If no, attach casing specification sheet.

Is premium or uncommon casing planned? If yes attach casing specification sheet.

Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).

Will intermediate pipe be kept at least 1/3 fluid filled until cement tops are verified? (collapse safety requirement)

Capitan Reef:

Is well located within Capitan Reef?

If yes, does production casing cement tie back a minimum of 50' above the Reef?

Is proposed well within the designated four string boundary?

R-111-Q and SOPA

Is well located in R-111-Q and SOPA?

Is the second string set 100' to 600' below the base of salt?

SOPA but not R-111-Q

Is well located in SOPA but not in R-111-Q?

If yes, are the first 2 strings cemented to surface and third string cement tied back 500' into previous casing?

High Cave / Karst

Is well located in high Cave/Karst?

If yes, are there two strings cemented to surface?

If yes, is there a contingency casing if lost circulation occurs?

Critical Cave / Karst

Is well located in critical Cave/Karst?

If yes, are there three strings cemented to surface?

Section 3:

Cement Program

String Type	Lead/Tail	Top MD	Density (ppg)	Quantity (sks)	Yield (ft³/sks)	Excess (%)	Cement Type	Additives
Surface	Lead	0	13.5	391	1.72	100	Class C	Additives + LCM
Surface	Tail	776	14.8	196	1.33	100	Class C	Additives + LCM
Intermediate	Lead	0	10.5	816	3.98	25	Class C	Additives + LCM
Intermediate	Tail	10786	13.2	231	1.61	25	Class C	Additives + LCM
Production	Lead	na	10.5	na	3.93	na	Class H	Additives + LCM
Production	Tail	11436	13.2	789	1.44	20	Class H	Fluid Loss + Dispersant + Retarder + LCM

Cementing Procedure

Spacers will be used ahead of cement to ensure mud removal. Slurries will be designed to provide adequate compressive strength, fluid loss control, and bonding. Offline cementing may be performed on surface and intermediate casing strings when set above the Wolfcamp formation (variance request). BOPE will be installed and tested prior to drilling out the shoe, and cement job quality will be verified before resuming operations. This variance improves operational efficiency while maintaining full compliance with 43 CFR 3172 and BLM conditions of approval. If required to achieve top of cement on the intermediate casing, a second-stage cement job may be performed by bradenhead squeeze (variance request). This method will only be used as necessary to ensure zonal isolation and full compliance with 43 CFR 3172 and BLM conditions of approval. All WOC times will be 8 hours on surface and intermediate casing or until cement has reached 500 psi compressive strength, prior to resuming drilling or completion operations on the well.

Civitas Permian Operating LLC Drilling & Operations Plan - Page 2 of 3

Section 4: Mud Program

 Mud System Type:
 Closed Loop

 Will an air or gas system be used?
 No

Describe what will be on location to control well or mitigate other conditions:

The necessary mud products for additional weight and fluid loss control will be on location at all times.

 $\underline{\text{Describe}}\,\underline{\text{the mud monitoring system utilized:}}$

Losses or gains in the mud system will be monitored visually/manually as well as with an electronic PVT.

Circulating Medium Table:

Top Depth	Bottom Depth	Mud Type	Min. Weight	Max Weight
0	1076	Water Based Mud	8.4	8.8
1076	11786	Brine or Oil Based Mud	9.2	10.0
11786	22769	Brine or Oil Based Mud	11.5	13.0

Section 5:

BOPE & Wellhead

Hole Section	Hole Size	Casing Size	Stack Size	MAASP (psi)	Min. Required WP	BOPE Type & Components	Test Pressures (psi)	Notes / Variance Reference
Int 1	9 7/8	7 5/8	13-5/8", 10M	480	5M	Annular, Blind Ram, Double Pipe Ram	250 / 5,000	Variance – 10M stack tested to 5M for this section; Variance – 5M Annular tested to 70% WP (3,500 psi)
Production	6 3/4	5 1/2	13-5/8", 10M	7095	10M	Annular, Blind Ram, Double Pipe Ram	250 / 10,000	Variance – 5M Annular tested to 70% WP (3,500 psi)

Testing Procedure:

The BOPE will be installed and tested on the surface casing and prior to drilling out each casing shoe. Tests will include a 250 psi low-pressure test and a high-pressure test to the required working pressure for each hole section. Due to MASP values lower than 5M, a variance is requested to test the installed 10M BOPE stack to 250 psi low and 5,000 psi high. For the production section the installed 10M BOP stack will be tested to 250 psi low and 10,000 psi high. A variance is also requested to utilize a 5M annular preventer and test to 70% of rated working pressure for both 5M and 10M sections which is consistent with guidance from the API (variance request). A variance is requested for break testing of BOPE on the intermediate section only. A variance is requested to utilize a coflexchoke line in place of a steel line. A variance is requested to utilize a multibowl wellhead system. The accumulator system will be sized to close the largest ram and annular preventers with 200 psi remaining. BOPE will be re-tested every 21 days as required by 43 CFR 3172. The remote kill line and 3rd choke (with remote control) will be installed as required.

Wellhead Information:

Manufacturer / Type	Multibowl	
Pressure Rating	10M	
Installation / Testing	Wellhead will be instal	$lled \ and \ tested \ by \ manufacturer's \ representative. \ Manufacturer \ representative \ shall \ install \ the \ test \ plug \ for \ the \ initial \ BOP \ test. \ For \ plug \ for \ the \ initial \ BOP \ test.$
mstattation/ resting	contingency top out ce	ementing, wellhead has slot that will allow 1" string access to surface annulus.

Section 8:

Geological Prognosis

Estimated Tops of Important Geological Markers:

Formation	TVD (#1)	Lithologica	Mineral	Producing
Formation	TVD (ft)	Lithologies	Resources	Formation?
Rustler	660	Salt	Salt	No
Top Salt	1100	Salt	Salt	No
Base Salt	4920	Salt	Salt	No
DMG	5160	Sandstone	None	No
Lamar	5165	Sandstone	Hydrocarbon	No
Bell Canyon	5185	Sandstone	Hydrocarbon	No
Ramsey Sand	5205	Sandstone	Hydrocarbon	Yes
Cherry Canyon	6150	Limestone	Hydrocarbon	Yes
Brushy Canyon	7620	Sandstone	Hydrocarbon	Yes
Bone Spring Lime	8930	Carbonate	Hydrocarbon	Yes
Upper Avalon	8955	Carbonate	Hydrocarbon	Yes
Middle Avalon	9185	Carbonate	Hydrocarbon	Yes
1st BS Sand	10165	Sandstone	Hydrocarbon	Yes
2nd BS Carb	10330	Carbonate	Hydrocarbon	Yes
2nd BS Sand	10715	Sandstone	Hydrocarbon	Yes
3rd BS Carb	11265	Carbonate	Hydrocarbon	Yes
3rd BS Sand	11895	Sandstone	Hydrocarbon	Yes
Wolfcamp A	12210	Sandstone	Hydrocarbon	Yes
Wolfcamp B	12635	Sandstone	Hydrocarbon	Yes

Anticipated Bottom Hole Pressure: Anticipated Static Bottom Hole Temperature: Anticipated Abnormal Pressure? Potential Hazards:

8405	Р
199	°F
No	
None	

Civitas Permian Operating LLC

Section 9:

H2S

Drilling & Operations Plan - Page 3 of 3

Anticipated concentration:	0	ppm
Denth of first occurance	na	ft TV/

Additional Comments:

H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the BLM. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. See attached H2S Contingency Plan.

Section 10: Drilling Operations

Batch drilling may be conducted on this pad to improve operational efficiency. Surface and/or intermediate hole sections may be drilled and cased on multiple wells prior to proceeding with deeper drilling operations. Each casing string will be cemented and BOPE installed and tested on each well before drilling ahead. All wells will maintain full compliance with 43 CFR 3172 and applicable COAs Surface and intermediate casing will be cemented to surface, with offline cementing utilized on approved strings set above the Wolfcamp formation (variance). If required to achieve TOC, a second-stage cement job on the intermediate string may be performed by braidenhead squeeze through the casing (variance). Mud programs will be adjusted per hole section to maintain well control and borehole stability.

Section 11:

Testing, Logging, Coring

All casing strings will be tested in accordance with 43 CFR 3172.

Casing strings will be pressure tested after cementing per 43 CFR 3172 and NMOCD requirements.

FIT/LOT will be performed at the surface and intermediate casing shoes to confirm integrity prior to drilling ahead.

GR will be run from surface to TD.

No cores or additional testing / logging planned.

Section 12: Variance Requests

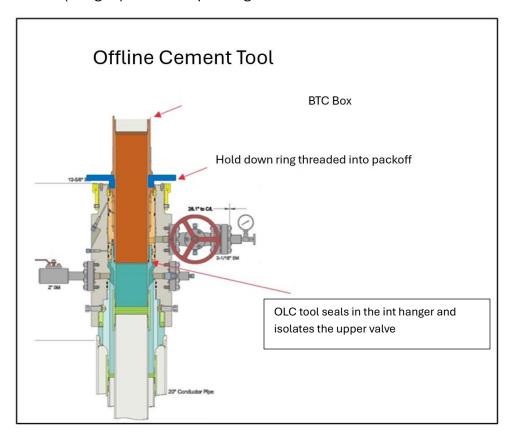
Var#	Туре	Description of Request
4	Offline Cementing	Request to perform offline cementing of surface and intermediate casing when strings are set above the Wolfcamp formation. This allows rig
1	Online Cementing	operations to continue while cement sets. (see attached plan).
0	Intermediate Second-Stage	Request to perform a second-stage cement job on intermediate casing by bullheading through the casing rather than circulating through drill pipe, if
	Bullheading	needed to achieve planned TOC.
3	Coflex Choke Line	Request to use a flexible choke line from the BOP to the choke manifold in place of rigid steel line, per manufacturer specifications.
	Durali Tanting	Request to perform break testing of BOPE components on the intermediate hole section only, rather than full pressure tests, to verify integrity
4	Break Testing	without over-testing.
5	5M Test on 10M BOPE	Request to test a 10,000 psi BOPE system to 5,000 psi for the intermediate hole section (MASP ~500 psi) rather than to full rating. Production section
5		will be tested to 10,000 psi.
6	Annular Test Pressure	Request to test annular preventer to 70% of rated working pressure instead of full working pressure, consistent with API guidance.
7	Multibowl Wellhead	Request to utilize a multibowl wellhead system in lieu of a conventional wellhead.
8		
9		
10		

Section 13: List of Attachments

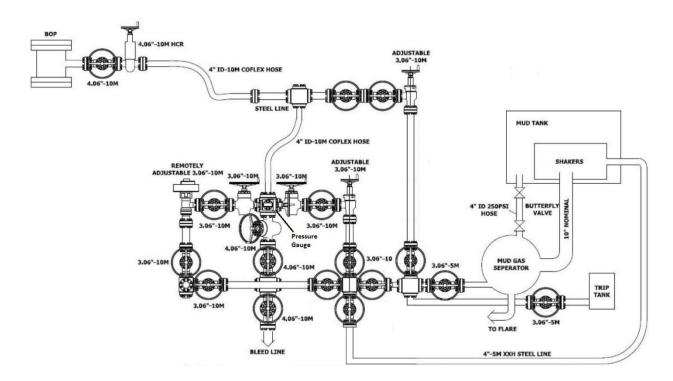
1	Directional Plan
2	Offline Cementing and Well control attachment
3	H2S Contingency Plan

Offline Cementing: Civitas requests a variance for the option to offline cement surface and intermediate casing strings set higher than Wolfcamp formations. To execute offline cement jobs safely, the following precautions and equipment are detailed below:

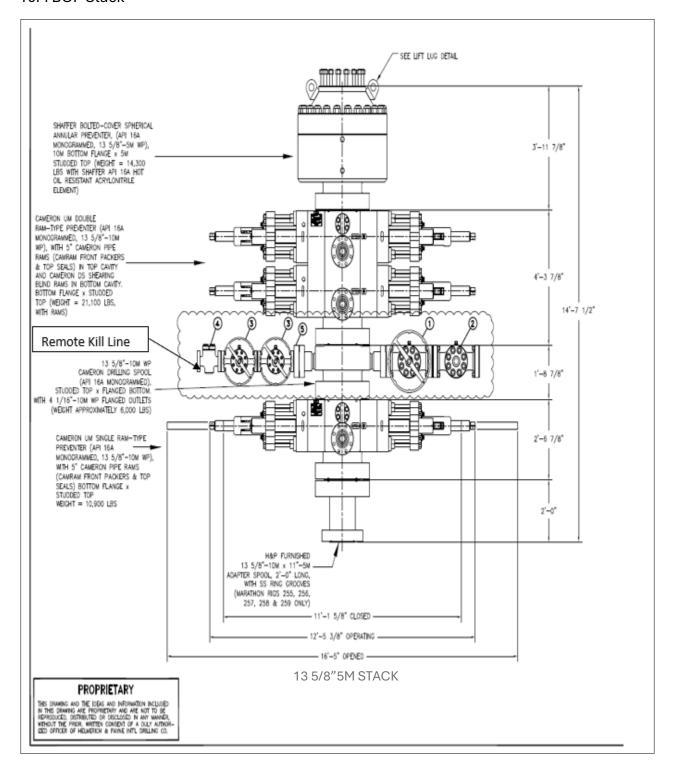
- For surface casing, no change to cement procedures to offline cement surface casing is anticipated.
- For intermediate casing, during the drilling of the intermediate hole section (all intermediate strings will be TD'd above the WCA top), hole conditions will be monitored and addressed to ensure for a successful casing run. In the event hole conditions change after running casing and/or the well is not in a static state, Civitas Resources can elect to pump the cement job online.
- Equipment for the offline cement job will include a tested/charted 5M working pressure dual manifold cement head system will be used with a standard offline cement tool that is packed off and tested through a port between the upper valve and packoff assembly (diagram below). Returns from the manifold will be taken to an auxiliary mudgas separator during cement job. The operational scope is described in the following steps: the casing will be landed on the mandrel, pull tested, packoff installed and tested to 80% of collapse of casing on the top and bottom seals, nipple down BOP and install offline cement tool/manifold. The offline cement tool screws into the top of the packoff assembly. During the cement job, all returns will be taken through the A-Section valve (flanged). An example diagram of the tool is shown below:

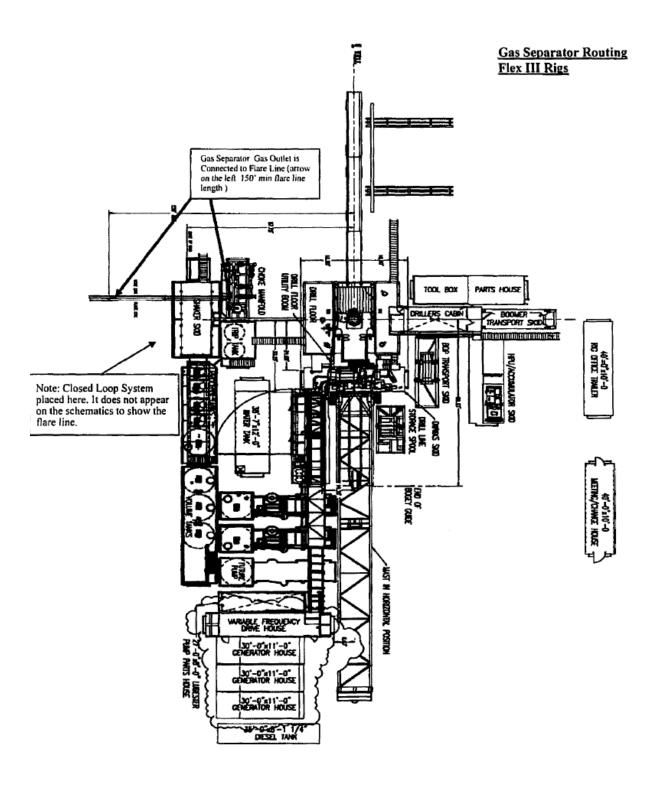


10M Choke Layout

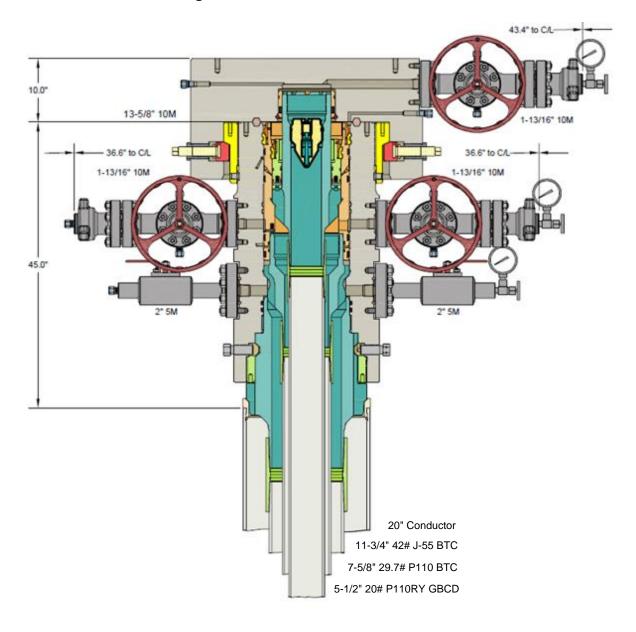


10M BOP Stack





Multi-bowl Wellhead Design





GB Connection Performance Properties Sheet

Rev. 0 (04/29/2025)

NGINEERING THE RIGHT CONNECTIONS™

Casing: 5.5 OD, 20 ppf Connection: GB CD Butt 6.300
Casing Grade: Benteler P110 RY (95% RBW) Coupling Grade: API P-110

PIPE BODY GEOMETRY					
Nominal OD (in.)	5 1/2	Wall Thickness (in.)	0.361	Drift Diameter (in.)	4.653
Nominal Weight (ppf)	20.00	Nominal ID (in.)	4.778	API Alternate Drift Dia. (in.)	N/A
Plain End Weight (ppf)	19.83	Plain End Area (in.²)	5.828		

PIPE BODY PERFORMANCE**						
Material Specification	Benteler P110 RY (95% RBW)	Min. Yield Str. (psi)	110,000	Min. Ultimate Str. (psi)	125,000	
Collapse		Tension		Pressure		
API (psi)	11,106	Pl. End Yield Str. (kips)	641	Min. Int. Yield Press. (psi)	13,720	
High Collapse (psi) -		Torque		Bending		
		Yield Torque (ft-lbs)	74,420	Build Rate to Yield (°/100 ft)	91.7	

	GB CD Butt 6.300 COUPLING GEOMETRY			
Coupling OD (in.)	6.300	Makeup Loss (in.)	4.2500	
Coupling Length (in.)	8.500	Critical Cross-Sect. (in. ²)	8.527	

GB CD Butt 6.300 CONNECTION PERFORMANCE RATINGS/EFFICIENCIES							
Material Specification	API P-110	Min. Yield Str. (psi)	110,000	Min. Ultimate Str. (psi)	125,000		
Tension		Efficience	y	Bending			
Thread Str. (kips)	667	Internal Pressure (%)	100%	Build Rate to Yield (°/100 ft)	80.0		
Min. Tension Yield (kips)	891	External Pressure (%)	100%	00% Yield Torque			
Min. Tension Ult. (kips)	1,013	Tension (%)	100%	Yield Torque (ft-lbs)	31,180		
Joint Str. (kips)	667	Compression (%)	100%				
		Ratio of Areas (Cplg/Pipe)	1.46				

MAKEUP TORQUE									
Min. MU Tq. (ft-lbs)	10,000	Max. MU Tq. (ft-lbs)	20,000	Running Tq. (ft-lbs)	See GBC RP				
				Max. Operating Tq. (ft-lbs)*	29,620				

Units: US Customary (lbm, in., °F, lbf)

1 kip = 1,000 lbs

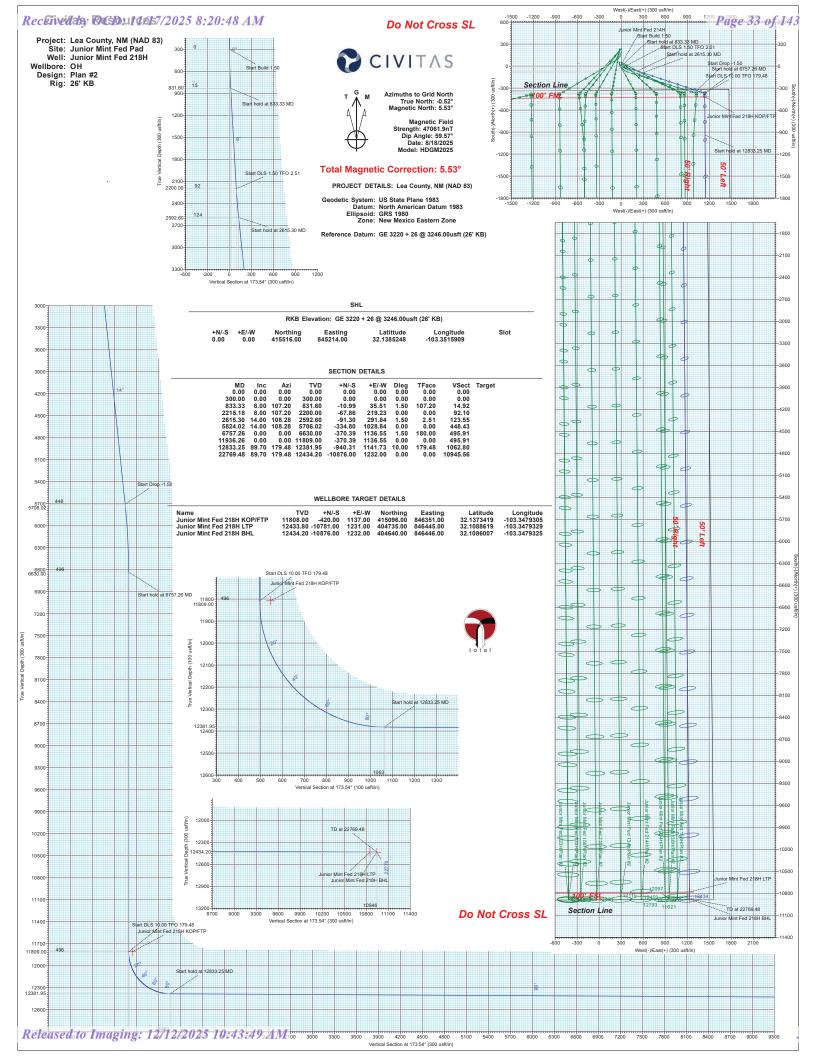
See attached: Notes for GB Connection Performance Properties.

GBC Running Procedure (GBC RP): www.gbconnections.com/resources/running-procedures/Blanking Dimensions: www.gbconnections.com/resources/documentation/#blanking-dimensions

Connection yield torque rating based on physical testing or extrapolation therefrom

** Casing properties applicable to Benteler P110 RY (95% RBW) grade with min. yield 110 ksi.

^{*} See Running Procedure for description and limitations.



Civitas Resources

Lea County, NM (NAD 83)
Junior Mint Fed Pad
Junior Mint Fed 218H

OH

Plan: Plan #2



Standard Plan Report

18 August, 2025

Total Report Version 1.80

COMPASS 5000.16 Build 97

ATTENTION

All annotation callouts related to distances are uncertified and are approximated footages using available software and measurement tools. They should not be mistaken as an official record, which can only be obtained via a certified land surveyor.

8/18/2025 4:43:59PM Page 1

Total Directional

Planned Survey Report



Company: Civitas Resources

Lea County, NM (NAD 83)

Junior Mint Fed Pad Site:

Well: Junior Mint Fed 218H

Wellbore: ОН Plan #2 Design:

Project:

Local Co-ordinate Reference: Well Junior Mint Fed 218H

GE 3220 + 26 @ 3246.00usft (26' KB) **TVD Reference:** MD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference:

Minimum Curvature **Survey Calculation Method:**

Database: .Total Directional Production DB

Project Lea County, NM (NAD 83)

US State Plane 1983 Map System:

North American Datum 1983 Geo Datum: Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Junior Mint Fed Pad

Site Position: Northing: 414,635.00 usft Latitude: 32.1361627 842,835.00 usft -103.3593016 From: Мар Easting: Longitude:

0.00 usft 13-3/16 " **Position Uncertainty:** Slot Radius:

Well Junior Mint Fed 218H

32.1385248 **Well Position** +N/-S 0.00 usft Northing: 415,516.00 usfl Latitude:

+E/-W 0.00 usft Easting: 845,214.00 usfl Longitude: -103.3515909

Position Uncertainty 0.50 usft Wellhead Elevation: usf **Ground Level:** 3,220.00 usft

Grid Convergence: 0.52°

Wellbore ОН

Declination Field Strength **Magnetics Model Name** Sample Date Dip Angle (°) (°) (nT)

> 6.05 47,061.90000000 HDGM2025 8/18/2025 59.57

Design Plan #2

Audit Notes:

Version: PLAN 0.00 Phase: Tie On Depth:

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

(usft) (usft) (usft) (°)

0.00 173.54 0.00 0.00

Date 8/12/2025 **Survey Tool Program**

To From

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

MWD+HRGM+SAG+FDIF OWSG MWD + HRGM + SAG + FDIR Correction 0.00 22,769.48 Plan #2 (OH)

8/18/2025 4:43:59PM Page 2

Total Directional

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)

Site: Junior Mint Fed Pad

Well: Junior Mint Fed 218H
Wellbore: OH

Design: Plan #2

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

MD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: .Total Directional Production DB

Plan Summary											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
300.00	0.00	0.01	300.00	0.00	0.00	0.00	0.00	0.00	0.01		
833.33	8.00	107.20	831.60	-10.99	35.51	1.50	1.50	0.00	107.20		
2,215.18	8.00	107.20	2,200.00	-67.86	219.23	0.00	0.00	0.00	0.00		
2,615.30	14.00	108.28	2,592.60	-91.30	291.84	1.50	1.50	0.27	2.51		
5,824.02	14.00	108.28	5,706.02	-334.80	1,028.84	0.00	0.00	0.00	0.00		
6,757.26	0.00	0.00	6,630.00	-370.39	1,136.55	1.50	-1.50	0.00	180.00		
11,936.26	0.00	0.00	11,809.00	-370.39	1,136.55	0.00	0.00	0.00	0.00		
12,833.25	89.70	179.48	12,381.95	-940.31	1,141.73	10.00	10.00	20.01	179.48		
22,769.48	89.70	179.48	12,434.20	-10,876.00	1,232.00	0.00	0.00	0.00	0.00		

Planned Survey													
Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coo +N/-S (usft)	rdinates +E/-W (usft)	Map Coor Northing (usft)	dinates Easting (usft)	Geo Coord Latitude	inates Longituge (°)	Vertical Section (usft)		Rate	Rate
0.00	0.00	0.00	0.00	0.00	0.00	415,516.00	845,214.00	32.1385248	-103.3515909	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	415,516.00	845,214.00	32.1385248	-103.3515909	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	415,516.00	845,214.00	32.1385248	-103.3515909	0.00	0.00	0.00	0.00
300.00	0.00	0.01	300.00	0.00	0.00	415,516.00	845,214.00	32.1385248	-103.3515909	0.00	0.00	0.00	0.00
400.00	1.50	107.20	399.99	-0.39	1.25	415,515.61	845,215.25	32.1385237	-103.3515869	0.53	1.50	1.50	0.00
500.00	3.00	107.20	499.91	-1.55	5.00	415,514.45	845,219.00	32.1385205	-103.3515748	2.10	1.50	1.50	0.00
600.00	4.50	107.20	599.69	-3.48	11.25	415,512.52	845,225.25	32.1385150	-103.3515547	4.73	1.50	1.50	0.00
700.00	6.00	107.20	699.27	-6.19	19.99	415,509.81	845,233.99	32.1385073	-103.3515265	8.40	1.50	1.50	0.00
800.00	7.50	107.20	798.57	-9.66	31.22	415,506.34	845,245.22	32.1384975	-103.3514904	13.11	1.50	1.50	0.00
833.33	8.00	107.20	831.60	-10.99	35.51	415,505.01	845,249.51	32.1384937	-103.3514765	14.92	1.50	1.50	0.00
900.00	8.00	107.20	897.62	-13.74	44.37	415,502.26	845,258.37	32.1384860	-103.3514480	18.64	0.00	0.00	0.00
1,000.00	8.00	107.20	996.65	-17.85	57.67	415,498.15	845,271.67	32.1384743	-103.3514051	24.23	0.00	0.00	0.00
1,100.00	8.00	107.20	1,095.67	-21.97	70.96	415,494.03	845,284.96	32.1384627	-103.3513623	29.81	0.00	0.00	0.00
1,200.00	8.00	107.20	1,194.70	-26.08	84.26	415,489.92	845,298.26	32.1384510	-103.3513195	35.40	0.00	0.00	0.00
1,300.00	8.00	107.20	1,293.73	-30.20	97.55	415,485.80	845,311.55	32.1384394	-103.3512767	40.98	0.00	0.00	0.00
1,400.00	8.00	107.20	1,392.75	-34.31	110.85	415,481.69	845,324.85	32.1384278	-103.3512338	46.57	0.00	0.00	0.00
1,500.00	8.00	107.20	1,491.78	-38.43	124.14	415,477.57	845,338.14	32.1384161	-103.3511910	52.15	0.00	0.00	0.00
1,600.00	8.00	107.20	1,590.81	-42.54	137.44	415,473.46	845,351.44	32.1384045	-103.3511482	57.74	0.00	0.00	0.00
1,700.00	8.00	107.20	1,689.83	-46.66	150.73	415,469.34	845,364.73	32.1383928	-103.3511054	63.32	0.00	0.00	0.00
1,800.00	8.00	107.20	1,788.86	-50.78	164.03	415,465.22	845,378.03	32.1383812	-103.3510625	68.91	0.00	0.00	0.00
1,900.00	8.00	107.20	1,887.89	-54.89	177.32	415,461.11	845,391.32	32.1383695	-103.3510197	74.49	0.00	0.00	0.00
2,000.00	8.00	107.20	1,986.91	-59.01	190.62	415,456.99	845,404.62	32.1383579	-103.3509769	80.08	0.00	0.00	0.00
2,100.00	8.00	107.20	2,085.94	-63.12	203.91	415,452.88	845,417.91	32.1383462	-103.3509341	85.66	0.00	0.00	0.00
2,200.00	8.00	107.20	2,184.97	-67.24	217.21	415,448.76	845,431.21	32.1383346	-103.3508912	91.25	0.00	0.00	0.00

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)
Site: Junior Mint Fed Pad

Well: Junior Mint Fed 218H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) **MD Reference:** GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Planned Su	rvey												
Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coo +N/-S (usft)	rdinates +E/-W (usft)	Map Coor Northing (usft)	dinates Easting (usft)	Geo Coordi Latitude (°)	inates Longituge (°)	Vertical Section (usft)	Rate	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,215.18	8.00	107.20	2,200.00	-67.86	219.23	415,448.14	845,433.23	32.1383328	-103.3508847	92.10	0.00	0.00	0.00
2,300.00	9.27	107.55	2,283.86	-71.67	231.38	415,444.33	845,445.38	32.1383221	-103.3508456	97.24	1.50	1.50	0.41
2,400.00	10.77	107.85	2,382.33	-76.96	247.96	415,439.04	845,461.96	32.1383071	-103.3507922	104.37	1.50	1.50	0.30
2,500.00	12.27	108.08	2,480.31	-83.12	266.95	415,432.88	845,480.95	32.1382897	-103.3507310	112.63	1.50	1.50	0.23
2,600.00	13.77	108.26	2,577.74	-90.15	288.35	415,425.85	845,502.35	32.1382698	-103.3506621	122.02	1.50	1.50	0.18
2,615.30	14.00	108.28	2,592.60	-91.30	291.84	415,424.70	845,505.84	32.1382666	-103.3506509	123.55	1.50	1.50	0.16
2,700.00	14.00	108.28	2,674.78	-97.73	311.30	415,418.27	845,525.30	32.1382484	-103.3505882	132.13	0.00	0.00	0.00
2,800.00	14.00	108.28	2,771.81	-105.32	334.26	415,410.68	845,548.26	32.1382270	-103.3505142	142.25	0.00	0.00	0.00
2,900.00	14.00	108.28	2,868.84	-112.90	357.23	415,403.10	845,571.23	32.1382056	-103.3504403	152.38	0.00	0.00	0.00
3,000.00	14.00	108.28	2,965.87	-120.49	380.20	415,395.51	845,594.20	32.1381841	-103.3503663	162.50	0.00	0.00	0.00
3,100.00	14.00	108.28	3,062.90	-128.08	403.17	415,387.92	845,617.17	32.1381627	-103.3502923	172.63	0.00	0.00	0.00
3,200.00	14.00	108.28	3,159.93	-135.67	426.14	415,380.33	845,640.14	32.1381413	-103.3502183	182.75	0.00	0.00	0.00
3,300.00	14.00	108.28	3,256.96	-143.26	449.11	415,372.74	845,663.11	32.1381198	-103.3501444	192.88		0.00	0.00
3,400.00	14.00	108.28	3,353.99	-150.85	472.08	415,365.15	845,686.08	32.1380984	-103.3500704	203.00	0.00	0.00	0.00
3,500.00	14.00	108.28	3,451.02	-158.44	495.04	415,357.56	845,709.04	32.1380770	-103.3499964	213.13	0.00	0.00	0.00
3,600.00	14.00	108.28	3,548.05	-166.03	518.01	415,349.97	845,732.01	32.1380555	-103.3499225	223.25	0.00	0.00	0.00
3,700.00	14.00	108.28	3,645.08	-173.61	540.98	415,342.39	845,754.98	32.1380341	-103.3498485	233.38	0.00	0.00	0.00
3,800.00	14.00	108.28	3,742.11	-181.20	563.95	415,334.80	845,777.95	32.1380127	-103.3497745	243.50	0.00	0.00	0.00
3,900.00	14.00	108.28	3,839.14	-188.79	586.92	415,327.21	845,800.92	32.1379912	-103.3497005	253.63	0.00	0.00	0.00
4,000.00	14.00	108.28	3,936.17	-196.38	609.89	415,319.62	845,823.89	32.1379698	-103.3496266	263.75	0.00	0.00	0.00
4,100.00	14.00	108.28	4,033.20	-203.97	632.86	415,312.03	845,846.86	32.1379483	-103.3495526	273.88	0.00	0.00	0.00
4,200.00	14.00	108.28	4,130.23	-211.56	655.82	415,304.44	845,869.82	32.1379269	-103.3494786	284.00	0.00	0.00	0.00
4,300.00	14.00	108.28	4,227.26	-219.15	678.79	415,296.85	845,892.79	32.1379055	-103.3494047	294.13	0.00	0.00	0.00
4,400.00	14.00	108.28	4,324.29	-226.74	701.76	415,289.26	845,915.76	32.1378840	-103.3493307	304.25	0.00	0.00	0.00
4,500.00	14.00	108.28	4,421.32	-234.32	724.73	415,281.68	845,938.73	32.1378626	-103.3492567	314.38	0.00	0.00	0.00
4,600.00	14.00	108.28	4,518.35	-241.91	747.70	415,274.09	845,961.70	32.1378412	-103.3491827	324.50	0.00	0.00	0.00
4,700.00	14.00	108.28	4,615.38	-249.50	770.67	415,266.50	845,984.67	32.1378197	-103.3491088	334.63	0.00	0.00	0.00
4,800.00	14.00	108.28	4,712.41	-257.09	793.64	415,258.91	846,007.64	32.1377983	-103.3490348	344.75	0.00	0.00	0.00
4,900.00	14.00	108.28	4,809.44	-264.68	816.60	415,251.32	846,030.60	32.1377769	-103.3489608	354.88	0.00	0.00	0.00
5,000.00	14.00	108.28	4,906.47	-272.27	839.57	415,243.73	846,053.57	32.1377554	-103.3488869	365.00	0.00	0.00	0.00
5,100.00	14.00	108.28	5,003.50	-279.86	862.54	415,236.14	846,076.54	32.1377340	-103.3488129	375.12	0.00	0.00	0.00
5,200.00	14.00	108.28	5,100.53	-287.45	885.51	415,228.55	846,099.51	32.1377126	-103.3487389	385.25	0.00	0.00	0.00
5,300.00	14.00	108.28	5,197.56	-295.04	908.48	415,220.96	846,122.48	32.1376911	-103.3486649	395.37	0.00	0.00	0.00
5,400.00	14.00	108.28	5,294.59	-302.62	931.45	415,213.38	846,145.45	32.1376697	-103.3485910	405.50	0.00	0.00	0.00
5,500.00	14.00	108.28	5,391.62	-310.21	954.42	415,205.79	846,168.42	32.1376483	-103.3485170	415.62	0.00	0.00	0.00
5,600.00	14.00	108.28	5,488.65	-317.80	977.38	415,198.20	846,191.38	32.1376268	-103.3484430	425.75	0.00	0.00	0.00
5,700.00	14.00	108.28	5,585.68	-325.39	1,000.35	415,190.61	846,214.35	32.1376054	-103.3483691	435.87	0.00	0.00	0.00

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)
Site: Junior Mint Fed Pad

Well: Junior Mint Fed 218H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) **MD Reference:** GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Planned Su	rvey												
Measured			Vertical	Local Cod	ordinates	Map Coor	dinates	Geo Coord	inates	Vertical	Dogleg	Build	Turn
Depth (usft)	INC (°)	AZI (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longituge (°)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
5,800.00	14.00	108.28	5,682.71	-332.98	1,023.32	415,183.02	846,237.32	32.1375840	-103.3482951	446.00	0.00	0.00	0.00
5,824.02	14.00	108.28	5,706.02	-334.80	1,028.84	415,181.20	846,242.84	32.1375788	-103.3482773	448.43	0.00	0.00	0.00
5,900.00	12.86	108.28	5,779.92	-340.34	1,045.59	415,175.66	846,259.59	32.1375632	-103.3482234	455.82	1.50	-1.50	0.00
6,000.00	11.36	108.28	5,877.69	-346.92	1,065.51	415,169.08	846,279.51	32.1375446	-103.3481592	464.60	1.50	-1.50	0.00
6,100.00	9.86	108.28	5,975.98	-352.69	1,082.99	415,163.31	846,296.99	32.1375283	-103.3481029	472.30	1.50	-1.50	0.00
6,200.00	8.36	108.28	6,074.72	-357.66	1,098.02	415,158.34	846,312.02	32.1375142	-103.3480545	478.93	1.50	-1.50	0.00
6,300.00	6.86	108.28	6,173.83	-361.81	1,110.59	415,154.19	846,324.59	32.1375025	-103.3480140	484.47	1.50	-1.50	0.00
6,400.00	5.36	108.28	6,273.26	-365.15	1,120.70	415,150.85	846,334.70	32.1374931	-103.3479815	488.92	1.50	-1.50	0.00
6,500.00	3.86	108.28	6,372.94	-367.67	1,128.33	415,148.33	846,342.33	32.1374860	-103.3479569	492.29	1.50	-1.50	0.00
6,600.00	2.36	108.28	6,472.79	-369.37	1,133.48	415,146.63	846,347.48	32.1374811	-103.3479403	494.56	1.50	-1.50	0.00
6,700.00	0.86	108.28	6,572.74	-370.26	1,136.14	415,145.74	846,350.14	32.1374787	-103.3479317	495.73	1.50	-1.50	0.00
6,757.26	0.00	0.00	6,630.00	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	1.50	-1.50	0.00
6,800.00	0.00	0.00	6,672.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
6,900.00	0.00	0.00	6,772.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
7,000.00	0.00	0.00	6,872.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
7,100.00	0.00	0.00	6,972.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
7,200.00	0.00	0.00	7,072.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
7,300.00	0.00	0.00	7,172.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
7,400.00	0.00	0.00	7,272.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
7,500.00	0.00	0.00	7,372.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
7,600.00	0.00	0.00	7,472.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
7,700.00	0.00	0.00	7,572.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
7,800.00	0.00	0.00	7,672.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
7,900.00	0.00	0.00	7,772.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
8,000.00	0.00	0.00	7,872.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
8,100.00	0.00	0.00	7,972.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
8,200.00	0.00	0.00	8,072.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
8,300.00	0.00	0.00	8,172.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
8,400.00	0.00	0.00	8,272.74	-370.39		415,145.61	846,350.55	32.1374783	-103.3479304	495.91		0.00	0.00
8,500.00	0.00	0.00	8,372.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
8,600.00	0.00	0.00	8,472.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91		0.00	0.00
8,700.00	0.00	0.00	8,572.74		1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91		0.00	0.00
8,800.00	0.00	0.00	8,672.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91		0.00	0.00
8,900.00	0.00	0.00	8,772.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91		0.00	0.00
9,000.00	0.00	0.00	8,872.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
9,100.00	0.00	0.00	8,972.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
9,200.00	0.00	0.00	9,072.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
9,300.00	0.00	0.00	9,172.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)
Site: Junior Mint Fed Pad

Well: Junior Mint Fed 218H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well Junior Mint Fed 218H

 TVD Reference:
 GE 3220 + 26 @ 3246.00usft (26' KB)

 MD Reference:
 GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Planned Su	rvov												
	ı vey										_		_
Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	+N/-S (usft)	rdinates +E/-W (usft)	Map Coord Northing (usft)	dinates Easting (usft)	Geo Coordi Latitude (°)	nates Longituge (°)	Vertical Section (usft)	Rate	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,400.00	0.00	0.00	9,272.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
9,500.00	0.00	0.00	9,372.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
9,600.00	0.00	0.00	9,472.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
9,700.00	0.00	0.00	9,572.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
9,800.00	0.00	0.00	9,672.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
9,900.00	0.00	0.00	9,772.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
10,000.00	0.00	0.00	9,872.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
10,100.00	0.00	0.00	9,972.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
10,200.00	0.00	0.00	10,072.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
10,300.00	0.00	0.00	10,172.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
10,400.00	0.00	0.00	10,272.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
10,500.00	0.00	0.00	10,372.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
10,600.00	0.00		10,472.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91		0.00	0.00
10,700.00	0.00		10,572.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91		0.00	0.00
10,800.00	0.00	0.00	10,672.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91		0.00	0.00
10,900.00	0.00		10,772.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91		0.00	0.00
·					·								
11,000.00	0.00	0.00	10,872.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
11,100.00	0.00	0.00	10,972.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
11,200.00	0.00	0.00	11,072.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
11,300.00	0.00	0.00	11,172.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
11,400.00	0.00	0.00	11,272.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
11,500.00	0.00	0.00	11,372.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
11,600.00	0.00	0.00	11,472.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
11,700.00	0.00	0.00	11,572.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
11,800.00	0.00	0.00	11,672.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
11,900.00	0.00	0.00	11,772.74	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
11,935.26	0.00	0.00	11,808.00	-370.39	1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304	495.91	0.00	0.00	0.00
			H KOP/FTF										
11,936.26	0.00		11,809.00		1,136.55	415,145.61	846,350.55	32.1374783	-103.3479304		0.00	0.00	0.00
11,950.00			11,822.74		1,136.55	415,145.45	846,350.55	32.1374778	-103.3479304		10.00		0.00
12,000.00			11,872.61		1,136.58	415,142.07	846,350.58	32.1374685	-103.3479304		10.00		0.00
12,050.00	11.37	179.48	11,922.00	-381.64	1,136.65	415,134.36	846,350.65	32.1374474	-103.3479304	507.10	10.00	10.00	0.00
12,100.00	16.37	179.48	11,970.52	-393.63	1,136.76	415,122.37	846,350.76	32.1374144	-103.3479304	519.02	10.00	10.00	0.00
12,150.00	21.37	179.48	12,017.82	-409.80	1,136.91	415,106.20	846,350.91	32.1373700	-103.3479304	535.11	10.00	10.00	0.00
12,200.00	26.37	179.48	12,063.53	-430.03	1,137.09	415,085.97	846,351.09	32.1373144	-103.3479304	555.23	10.00	10.00	0.00
12,250.00	31.37	179.48	12,107.30	-454.16	1,137.31	415,061.84	846,351.31	32.1372480	-103.3479305	579.24	10.00	10.00	0.00
12,300.00	36.37	179.48	12,148.80	-482.02	1,137.56	415,033.98	846,351.56	32.1371714	-103.3479305	606.95	10.00	10.00	0.00

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)
Site: Junior Mint Fed Pad

Well: Junior Mint Fed 218H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) **MD Reference:** GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Planned Sur	rvey												
Measured			Vertical	Local Coo	rdinates	Map Coor	dinates	Geo Coord	inates	Vertical	Dogleg	Build	Turn
Depth (usft)	INC (°)	AZI (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longituge (°)	Section (usft)		Rate (°/100usft)	Rate (°/100usft)
12,350.00	41.37	179.48	12,187.71	-513.39	1,137.85	415,002.61	846,351.85	32.1370852	-103.3479305	638.15	10.00	10.00	0.00
12,400.00	46.37	179.48	12,223.74	-548.03	1,138.16	414,967.97	846,352.16	32.1369900	-103.3479305	672.60	10.00	10.00	0.00
12,450.00	51.37	179.48	12,256.62	-585.68	1,138.51	414,930.32	846,352.51	32.1368865	-103.3479305	710.05	10.00	10.00	0.00
12,500.00	56.37	179.48	12,286.09	-626.05	1,138.87	414,889.95	846,352.87	32.1367755	-103.3479305	750.21	10.00	10.00	0.00
12,550.00	61.37	179.48	12,311.92	-668.84	1,139.26	414,847.16	846,353.26	32.1366579	-103.3479305	792.77	10.00	10.00	0.00
12,600.00	66.37	179.48	12,333.93	-713.71	1,139.67	414,802.29	846,353.67	32.1365346	-103.3479305	837.41	10.00	10.00	0.00
12,650.00	71.37	179.48	12,351.95	-760.34	1,140.09	414,755.66	846,354.09	32.1364064	-103.3479305	883.78	10.00	10.00	0.00
12,700.00	76.37	179.48	12,365.83	-808.35	1,140.53	414,707.65	846,354.53	32.1362744	-103.3479305	931.54	10.00	10.00	0.00
12,750.00	81.37	179.48	12,375.48	-857.39	1,140.97	414,658.61	846,354.97	32.1361396	-103.3479305	980.32	10.00	10.00	0.00
12,800.00	86.37	179.48	12,380.81	-907.09	1,141.43	414,608.91	846,355.43	32.1360030	-103.3479305	1,029.75	10.00	10.00	0.00
12,833.25	89.70	179.48	12,381.95	-940.31	1,141.73	414,575.69	846,355.73	32.1359117	-103.3479306	1,062.80	10.00	10.00	0.00
12,900.00	89.70	179.48	12,382.30	-1,007.06	1,142.33	414,508.94	846,356.33	32.1357282	-103.3479306	1,129.19	0.00	0.00	0.00
13,000.00	89.70	179.48	12,382.83	-1,107.06	1,143.24	414,408.94	846,357.24	32.1354534	-103.3479306	1,228.65	0.00	0.00	0.00
13,100.00	89.70	179.48	12,383.35	-1,207.05	1,144.15	414,308.95	846,358.15	32.1351785	-103.3479306	1,328.11	0.00	0.00	0.00
13,200.00	89.70	179.48	12,383.88	-1,307.05	1,145.06	414,208.95	846,359.06	32.1349036	-103.3479306	1,427.58	0.00	0.00	0.00
13,300.00	89.70	179.48	12,384.40	-1,407.04	1,145.97	414,108.96	846,359.97	32.1346288	-103.3479307	1,527.04	0.00	0.00	0.00
13,400.00	89.70	179.48	12,384.93	-1,507.03	1,146.88	414,008.97	846,360.88	32.1343539	-103.3479307	1,626.50	0.00	0.00	0.00
13,500.00	89.70	179.48	12,385.46	-1,607.03	1,147.79	413,908.97	846,361.79	32.1340790	-103.3479307	1,725.96	0.00	0.00	0.00
13,600.00	89.70	179.48	12,385.98	-1,707.02	1,148.69	413,808.98	846,362.69	32.1338042	-103.3479307	1,825.42	0.00	0.00	0.00
13,700.00	89.70	179.48	12,386.51	-1,807.02	1,149.60	413,708.98	846,363.60	32.1335293	-103.3479307	1,924.89	0.00	0.00	0.00
13,800.00	89.70	179.48	12,387.03	-1,907.01	1,150.51	413,608.99	846,364.51	32.1332545	-103.3479308	2,024.35	0.00	0.00	0.00
13,900.00	89.70	179.48	12,387.56	-2,007.01	1,151.42	413,508.99	846,365.42	32.1329796	-103.3479308	2,123.81	0.00	0.00	0.00
14,000.00	89.70	179.48	12,388.09	-2,107.00	1,152.33	413,409.00	846,366.33	32.1327047	-103.3479308	2,223.27	0.00	0.00	0.00
14,100.00	89.70	179.48	12,388.61	-2,207.00	1,153.24	413,309.00	846,367.24	32.1324299	-103.3479308	2,322.73		0.00	0.00
14,200.00	89.70	179.48	12,389.14	-2,306.99	1,154.15	413,209.01	846,368.15	32.1321550	-103.3479308	2,422.19	0.00	0.00	0.00
14,300.00	89.70	179.48	12,389.66	-2,406.98	1,155.05	413,109.02	846,369.05	32.1318802	-103.3479309	2,521.66	0.00	0.00	0.00
14,400.00	89.70	179.48	12,390.19	-2,506.98	1,155.96	413,009.02	846,369.96	32.1316053	-103.3479309	2,621.12	0.00	0.00	0.00
14,500.00	89.70	179.48	12,390.71	-2,606.97	1,156.87	412,909.03	846,370.87	32.1313304	-103.3479309	2,720.58	0.00	0.00	0.00
14,600.00	89.70	179.48	12,391.24	-2,706.97	1,157.78	412,809.03	846,371.78	32.1310556	-103.3479309	2,820.04	0.00	0.00	0.00
14,700.00	89.70	179.48	12,391.77	-2,806.96	1,158.69	412,709.04	846,372.69	32.1307807	-103.3479309	2,919.50	0.00	0.00	0.00
14,800.00	89.70	179.48	12,392.29	-2,906.96	1,159.60	412,609.04	846,373.60	32.1305058	-103.3479310	3,018.97	0.00	0.00	0.00
14,900.00	89.70	179.48	12,392.82	-3,006.95	1,160.50	412,509.05	846,374.50	32.1302310	-103.3479310	3,118.43	0.00	0.00	0.00
15,000.00	89.70	179.48	12,393.34	-3,106.95	1,161.41	412,409.05	846,375.41	32.1299561	-103.3479310	3,217.89	0.00	0.00	0.00
15,100.00	89.70	179.48	12,393.87	-3,206.94	1,162.32	412,309.06	846,376.32	32.1296813	-103.3479310	3,317.35	0.00	0.00	0.00
15,200.00	89.70	179.48	12,394.40	-3,306.94	1,163.23	412,209.07	846,377.23	32.1294064	-103.3479310	3,416.81	0.00	0.00	0.00
15,300.00	89.70	179.48	12,394.92	-3,406.93	1,164.14	412,109.07	846,378.14	32.1291315	-103.3479311	3,516.27	0.00	0.00	0.00
15,400.00			12,395.45	,	•	412,009.08	846,379.05	32.1288567	-103.3479311	3,615.74		0.00	0.00
15,500.00			12,395.97		•	411,909.08	846,379.96	32.1285818	-103.3479311	3,715.20		0.00	0.00

Planned Survey Report

North Reference:

Local Co-ordinate Reference:



Company: Civitas Resources

Project: Lea County, NM (NAD 83)
Site: Junior Mint Fed Pad

Well: Junior Mint Fed 218H

Wellbore: OH

bunty, NM (NAD 83)

TVD Reference:

Mint Fed Pad

MD Reference:

Survey Calculation Method: Minimum Curvature

Well Junior Mint Fed 218H

GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB)

 Design:
 Plan #2
 Database:
 .Total Directional Production DB

Measured Part	Diamond Cu													
	Planned Su	rvey												
15,000.00 179,48 12,396.50 3,706.91 1,168.06 411,009.00 846,380.86 32.1278070 -103.347811 3,914.12 0.00	Depth			Depth	+N/-S	+E/-W	Northing	Easting	Latitude	Longituge	Section	Rate	Rate	Rate
15,800,00 89.70 179.48 12,395.65 -3,906.90 1,168.68 411,609.10 846,382.68 32.127862 4103.3478012 4,013.58 0.00 0.00 0.00 16,000,00 89.70 179.48 12,398.06 4,106.89 1,170.50 411,509.10 846,383.59 32.127862 4103.3478012 4,113.05 0.00 0.00 0.00 16,000,00 89.70 179.48 12,399.13 4,006.88 1,171.41 411,309.11 846,385.41 32.128668 41,000.00 89.70 179.48 12,400.18 -4,406.87 1,173.22 411,209.12 846,386.32 32.128667 103.3478012 4,111.43 0.00 0.00 0.00 16,000.00 89.70 179.48 12,400.18 -4,406.87 1,173.22 411,109.13 846,387.22 32.128667 103.3478012 4,111.43 0.00 0.00 0.00 16,000.00 89.70 179.48 12,400.18 -4,068.87 1,174.13 411,009.11 846,389.41 32.128687 103.3478012 4,111.43 0.00 0.00 0.00 16,000.00 89.70 179.48 12,400.18 -4,706.88 1,175.95 410,009.11 846,389.50 32.128687 103.3478013 4,610.35 0.00 0.00 0.00 16,000.00 89.70 179.48 12,402.81 -4,006.85 1,175.05 410,009.11 846,389.50 32.128688 103.3478013 4,009.28 0.00 0.00 0.00 16,000.00 89.70 179.48 12,402.81 -4,006.85 1,175.68 1410,009.15 846,399.65 32.128683 103.3478013 4,908.42 0.00 0.00 0.00 16,000.00 89.70 179.48 12,402.81 -4,906.85 1,177.77 410,609.15 846,399.58 32.128683 103.3478013 4,908.42 0.00 0.00 0.00 17,000.00 89.70 179.48 12,403.34 -5,006.84 1,178.68 1410,009.15 846,399.58 32.128683 103.3478014 5,006.20 0.00 0.00 17,000.00 89.70 179.48 12,403.35 6,5106.84 1,178.68 410,009.15 846,399.58 32.128683 103.3478014 5,006.20 0.00 0.00 0.00 17,000.00 89.70 179.48 12,404.95 6,506.81 1,183.22 410,009.19 846,399.23 32.128689 103.3478014 5,006.20 0.00 0.00 0.00 17,000.00 89.70 179.48 12,404.95 6,506.81 1,183.47 410,009.15 846,395.60 32.128689 103.3478014 5,006.20 0.00 0.00 0.00 17,000.00 89.70 179.48 12,405.49 6,506.88 1,183.49 410,009.15 846,395.03 32.128689 103.3478014 5,006.20 0.00 0.00 0.00 17,000.00 89.70 179.48 12,406.49 6,506.88 1,183.49 410,009.15 846,395.03 32.128689 103.3478014 5,006.20 0.00 0.00 0.00 17,000.00 89.70 179.48 12,406.49 6,506.88 1,183.49 410,009.15 846,395.03 32.128689 103.3478014 5,006.20 0.00 0.00 0.00 17,000.00 89.70 179.48 12,406.49 6,506.88 1,183.49	15,600.00	89.70	179.48	12,396.50	-3,706.91	1,166.86	411,809.09	846,380.86	32.1283070	-103.3479311	3,814.66	0.00	0.00	0.00
15,900.00 89.70 179.48 12,398.60 4,106.80 1,169.59 411,509.10 846,383.59 32.1274824 410.30 179.48 12,398.60 4,106.80 1,170.50 4114.09.11 846,384.50 32.1272076 403.3479312 4,111.30 0.0 0.0 0.0 0.0 16,000.00 89.70 179.48 12,399.13 4,068.88 1,1712.32 4113,091.12 846,386.32 32.1286878 40103.3479312 4,411.43 0.0 0.0 0.0 0.0 0.0 16,000.00 89.70 179.48 12,400.18 4,406.87 1,173.22 411,109.13 846,387.22 32.1883829 4013.3479313 4,510.89 0.0 0.0 0.0 0.0 0.0 16,000.00 89.70 179.48 12,400.18 4,406.87 1,173.14 411.09.13 846,386.32 32.1286878 40103.3479313 4,510.89 0.0 0.0 0.0 0.0 0.0 16,000.00 89.70 179.48 12,401.23 4,606.86 1,175.04 410,909.14 846,389.59 32.128583 4013.3479313 4,510.89 0.0 0.0 0.0 0.0 16,000.00 89.70 179.48 12,401.23 4,006.85 1,175.86 410,709.15 846,398.58 32.125833 4013.3479313 4,509.20 0.0 0.0 0.0 0.0 16,000.00 89.70 179.48 12,402.81 4,906.85 1,177.77 410,009.15 846,399.58 32.125833 4013.3479313 4,909.20 0.0 0.0 0.0 0.0 16,000.00 89.70 179.48 12,403.34 5,006.84 1,178.68 410,099.15 846,399.58 32.125833 403.3479313 4,909.20 0.0 0.0 0.0 0.0 17,000.00 89.70 179.48 12,403.34 5,006.84 1,178.68 410,099.15 846,399.58 32.1287383 403.3479314 5,006.20 0.0 0.0 0.0 0.0 17,000.00 89.70 179.48 12,403.94 5,006.84 1,178.68 410,099.15 846,399.58 32.1287389 403.3479314 5,006.20 0.0 0.0 0.0 0.0 17,000.00 89.70 179.48 12,403.94 5,006.82 1,181.40 410,099.15 846,399.58 32.1287389 400.3479314 5,006.20 0.0 0.0 0.0 0.0 17,000.00 89.70 179.48 12,404.94 5,506.82 1,181.40 410,099.15 846,399.54 32.128589 400.33479314 5,006.59 0.0 0.0 0.0 0.0 17,000.00 89.70 179.48 12,404.94 5,506.82 1,181.40 410,099.15 846,399.54 32.128589 400.33479314 5,006.59 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15,700.00	89.70	179.48	12,397.03	-3,806.91	1,167.77	411,709.09	846,381.77	32.1280321	-103.3479311	3,914.12	0.00	0.00	0.00
16,000.00 17,000.00 18,70 179,46 12,398,60 4,106.89 1,170.50 411,409.11 846,384.50 32,1272075 103,347812 4,211.51 0,00 0,00 0,00 16,000.00 89.70 179.48 12,399.65 4,306.88 1,172.32 411,209.12 846,386.32 32,1288826 103,347812 4,311.97 0,00 0,00 0,00 16,000.00 89.70 179.48 12,400.18 4,406.87 1,173.22 411,109.13 846,386.13 32,1288826 103,347813 4,510.89 0,00 0,00 0,00 16,000.00 89.70 179.48 12,401.76 4,706.86 1,175.04 410,099.14 846,389.13 32,1281081 1,003,47813 4,510.89 0,00 0,00 0,00 16,000.00 89.70 179.48 12,401.76 4,706.86 1,175.05 410,099.14 846,389.04 32,1288826 1,003,47813 4,908.26 0,00 0,00 0,00 16,000.00 89.70 179.48 12,401.76 4,706.86 1,175.05 410,099.14 846,389.04 32,1288836 1,003,47813 4,908.26 0,00 0,00 0,00 16,000.00 89.70 179.48 12,402.81 4,906.85 1,177.77 410,609.15 846,399.26 32,1280836 32,1250838 1,003,47813 4,908.74 0,00 0,00 0,00 1,000 0,00	15,800.00	89.70	179.48	12,397.55	-3,906.90	1,168.68	411,609.10	846,382.68	32.1277572	-103.3479312	4,013.58	0.00	0.00	0.00
16,100.00 89.70 179.48 12,399.13 4,206.89 1,171.41 411,309.11 846,386.41 32,1286328 32,1286528 32,12	15,900.00	89.70	179.48	12,398.08	-4,006.90	1,169.59	411,509.10	846,383.59	32.1274824	-103.3479312	4,113.05	0.00	0.00	0.00
16,200.00 89.70 179.48 12,399.65 4,306.88 1,172.32 411,209.12 846,386.32 \$21266878 103.3479312 4,411.43 0.00 0.00 0.00 16,300.00 89.70 179.48 12,400.18 -4.406.87 1,175.14 11,009.13 846,388.13 32.1201813 103.3479313 4,510.89 0.00 0.00 0.00 16,500.00 89.70 179.48 12,401.74 -4,506.87 1,175.04 10,009.14 846,389.04 \$21268532 103.3479313 4,510.89 0.00 0.00 0.00 16,500.00 89.70 179.48 12,401.76 4,706.86 1,175.94 10,009.15 846,399.04 \$212658532 103.3479313 4,500.87 0 0.00 0.00 16,500.00 89.70 179.48 12,402.28 4,806.85 1,176.86 410,709.15 846,399.08 32.1255833 103.3479313 4,500.87 0 0.00 0.00 16,500.00 89.70 179.48 12,402.81 4,906.85 1,177.77 410,609.15 846,399.28 32.1255833 103.3479313 4,500.87 0 0.00 0.00 17,000.00 89.70 179.48 12,403.86 5,506.84 1,179.58 410,509.16 846,399.28 32.1245839 103.3479314 5,008.20 0.00 0.00 0.00 17,000.00 89.70 179.48 12,403.86 5,506.84 1,179.58 410,409.16 846,395.80 32.124589 103.3479314 5,306.59 0.00 0.00 0.00 17,000.00 89.70 179.48 12,404.93 5,506.81 1,189.24 410,309.17 846,395.40 32.124589 103.3479314 5,306.59 0.00 0.00 0.00 17,400.00 89.70 179.48 12,405.44 5,406.82 1,182.31 410,109.18 846,395.40 32.1236934 103.347931 5,505.51 0.00 0.00 0.00 17,500.00 89.70 179.48 12,405.44 5,506.82 1,182.31 410,109.18 846,395.40 32.1236934 103.347931 5,505.51 0.00 0.00 0.00 17,500.00 89.70 179.48 12,405.44 5,506.80 1,185.94 409,909.19 846,395.22 32.1236934 103.3479315 5,505.51 0.00 0.00 0.00 17,500.00 89.70 179.48 12,405.44 5,506.81 1,185.24 409,909.19 846,395.40 32.1236934 103.3479315 5,004.37 0.00 0.00 0.00 17,500.00 89.70 179.48 12,405.44 5,506.81 1,185.94 409,909.19 846,395.40 32.1236934 103.3479315 5,004.37 0.00 0.00 0.00 17,500.00 89.70 179.48 12,405.44 5,506.80 1,185.94 409,909.19 846,395.40 32.1236934 103.3479315 5,004.37 0.00 0.00 0.00 17,500.00 89.70 179.48 12,405.44 5,506.65 1,185.94 409,909.19 846,395.40 32.1236934 103.3479315 5,004.37 0.00 0.00 0.00 17,500.00 89.70 179.48 12,405.44 5,506.65 1,185.94 409,909.19 846,395.45 32.1236934 103.3479315 5,004.37 0.00 0.00 0.00 18,500.00 89.70 179.48	16,000.00	89.70	179.48	12,398.60	-4,106.89	1,170.50	411,409.11	846,384.50	32.1272075	-103.3479312	4,212.51	0.00	0.00	0.00
16,300.00 89,70 179,48 12,400.18 -4,406.87 1,173.22 411,109,13 846,387.22 32.12893829 -103.3478313 4,510.89 0.00 0.00 0.00 16,600.00 89,70 179,48 12,400.71 -4,506.87 1,175.14 411,009,13 846,389.13 22.1281081 -103.3478313 4,510.89 0.00 0.00 0.00 16,600.00 89,70 179,48 12,401.76 -4,706.86 1,175.95 410,809.14 846,389.05 32.1285332 -103.3478313 4,609.28 0.00 0.00 0.00 16,000.00 89,70 179,48 12,402.81 4,906.85 1,176.86 410,009.15 846,399.85 32.1285333 -103.3478313 4,609.28 0.00 0.00 0.00 16,000.00 89,70 179,48 12,402.81 4,906.85 1,176.86 410,009.15 846,399.86 32.1287338 -103.3478313 4,008.20 0.00 0.00 0.00 17,000.00 89,70 179,48 12,403.34 -5,006.84 1,176.86 410,009.15 846,393.86 32.1284389 -103.3478313 4,008.20 0.00 0.00 0.00 17,000.00 89,70 179,48 12,404.39 -5,206.83 1,180.49 410,309,17 846,394.89 32.1244389 -103.3478314 5,207.13 0.00 0.00 0.00 17,200.00 89,70 179,48 12,404.99 -5,306.82 1,182.31 410,109.18 846,395.40 32.1284394 -103.3478314 5,006.56 0.00 0.00 0.00 17,200.00 89,70 179,48 12,405.96 -5,506.81 1,183.21 410,109.18 846,395.40 32.1284394 -103.3478314 5,006.56 0.00 0.00 0.00 17,000.00 89,70 179,48 12,405.96 -5,506.81 1,184.13 410,109.18 846,395.40 32.1284394 -103.3478315 5,005.51 0.00 0.00 0.00 17,000.00 89,70 179,48 12,405.96 -5,506.81 1,184.13 409,090.91 846,397.22 32.1234394 -103.3478315 5,005.51 0.00 0.00 0.00 17,000.00 89,70 179,48 12,405.96 -5,066.81 1,184.13 409,090.91 846,399.34 32.1235494 -103.3478315 5,005.51 0.00 0.00 0.00 17,000.00 89,70 179,48 12,405.96 -5,066.81 1,184.13 409,090.91 846,399.34 32.1235494 -103.3478315 5,005.51 0.00 0.00 0.00 17,000.00 89,70 179,48 12,405.96 -5,066.81 1,184.13 409,090.91 846,399.34 32.1235494 -103.3478315 5,005.51 0.00 0.00 0.00 17,000.00 89,70 179,48 12,405.96 -5,066.81 1,184.13 409,090.28 846,303.83 32.1230494 -103.3478315 5,005.51 0.00 0.00 0.00 0.00 17,000 89,70 179,48 12,405.96 -5,066.81 1,184.13 409,090.82 846,303.83 32.1230494 -103.3478315 5,005.50 0.00 0.00 0.00 0.00 0.00 0.00	16,100.00	89.70	179.48	12,399.13	-4,206.89	1,171.41	411,309.11	846,385.41	32.1269326	-103.3479312	4,311.97	0.00	0.00	0.00
16,400.00 89.70 179.48 12,400.71 4,506.87 1,174.13 411,009.13 846,389.04 32.128832 1.03.3478313 4,009.25 0.00 0.00 0.00 16,600.00 89.70 179.48 12,401.76 4,706.86 1,175.95 410,909.14 846,389.05 32.128832 1.03.3478313 4,009.25 0.00 0.00 0.00 16,600.00 89.70 179.48 12,401.76 4,706.86 1,175.95 410,909.15 846,399.86 32.128832 1.03.3478313 4,009.25 0.00 0.00 0.00 16,700.00 89.70 179.48 12,402.28 4,806.85 1,176.86 410,709.15 846,390.86 32.1282832 1.03.3478313 4,009.25 0.00 0.00 0.00 16,600.00 89.70 179.48 12,403.45 -5,006.84 1,178.68 410,509.16 846,393.68 32.1282832 1.03.3478313 4,009.25 0.00 0.00 0.00 17,000.00 89.70 179.48 12,403.45 -5,006.84 1,178.68 410,509.16 846,393.68 32.1247338 1.03.3478314 5,107.66 0.00 0.00 0.00 17,000.00 89.70 179.48 12,403.95 -5,206.83 1,180.49 410,309.17 846,394.49 32.1241840 1.03.3478314 5,107.66 0.00 0.00 0.00 17,200.00 89.70 179.48 12,404.91 -5,306.82 1,181.40 410,209.18 846,395.40 32.1241840 1.03.3478314 5,006.59 0.00 0.00 0.00 17,400.00 89.70 179.48 12,405.45 -5,606.81 1,183.22 410,009.19 846,395.42 32.123384 1.03.3478315 5,505.51 0.00 0.00 0.00 17,600.00 89.70 179.48 12,405.40 -5,606.81 1,184.13 409,909.19 846,399.13 32.123844 1.03.3478315 5,003.69 0.00 0.00 0.00 17,600.00 89.70 179.48 12,405.40 -5,606.81 1,184.13 409,909.19 846,399.13 32.1238044 1.03.3478315 5,003.60 0.00 0.00 17,600.00 89.70 179.48 12,405.40 -5,606.81 1,185.03 409,809.20 846,399.03 32.1228040 1.03.3478315 5,003.60 0.00 0.00 17,600.00 89.70 179.48 12,405.40 -5,606.81 1,185.03 409,809.20 846,399.03 32.1228040 1.03.3478315 5,003.60 0.00 0.00 17,700.00 89.70 179.48 12,405.40 -5,606.81 1,185.03 409,809.20 846,399.03 32.1228040 1.03.3478315 5,003.60 0.00 0.00 17,700.00 89.70 179.48 12,405.40 -5,606.81 1,185.03 409,809.20 846,399.03 32.1228040 1.03.3478315 5,003.80 0.00 0.00 0.00 17,900.00 89.70 179.48 12,405.40 -5,606.87 1,185.85 409,809.20 846,309.30 32.1228040 1.03.3478315 6,000.80 0.00 0.00 0.00 18,000.00 89.70 179.48 12,405.40 -5,606.87 1,185.85 409,809.20 846,400.85 32.1228040 1.03.3478316 6,000.80 0.00 0.00 0.00 1	16,200.00	89.70	179.48	12,399.65	-4,306.88	1,172.32	411,209.12	846,386.32	32.1266578	-103.3479312	4,411.43	0.00	0.00	0.00
16,500.00 89.70 179.48 12,401.23 4,606.86 1,175.04 410,909.14 846,389.95 32.1258352 -103.3478313 4,809.82 0.00 0.00 0.00 0.00 16,700.00 89.70 179.48 12,402.28 4,806.85 1,176.86 410,709.15 846,390.86 32.1258353 -103.3478313 4,809.28 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	16,300.00	89.70	179.48	12,400.18	-4,406.87	1,173.22	411,109.13	846,387.22	32.1263829	-103.3479313	4,510.89	0.00	0.00	0.00
16,600.00 89.70 179.48 12,401.76 -4,706.86 1,175.95 410,809.14 846,389.95 32 1255883 -103.3479313 4,809.28 0.00 0.00 0.00 16,700.00 89.70 179.48 12,402.28 -4,806.85 1,177.77 410,609.15 846,390.86 32 1252885 -103.3479313 4,908.74 0.00 0.00 0.00 16,800.00 89.70 179.48 12,403.34 5,008.44 1,178.68 410,509.16 846,392.68 32 1247338 -103.3479314 5,107.66 0.00 0.00 0.00 17,000.00 89.70 179.48 12,403.66 -5,106.84 1,178.68 410,509.16 846,393.68 32 1247388 -103.3479314 5,107.66 0.00 0.00 0.00 17,100.00 89.70 179.48 12,403.86 -5,106.84 1,178.68 410,409.16 846,393.86 32 1244589 -103.3479314 5,207.13 0.00 0.00 0.00 17,200.00 89.70 179.48 12,403.66 -5,506.81 1,184.04 410,209.18 846,395.40 32 1241810 -103.3479314 5,008.20 0.00 0.00 0.00 17,400.00 89.70 179.48 12,405.40 -5,506.81 1,183.22 410,009.19 846,395.40 32 1238594 -103.3479315 5,505.51 0.00 0.00 0.00 17,400.00 89.70 179.48 12,405.96 -5,506.81 1,184.13 409,909.19 846,397.22 32 1238594 -103.3479315 5,008.20 0.00 0.00 0.00 17,600.00 89.70 179.48 12,407.02 -5,706.80 1,185.03 409,809.20 846,399.03 32 1228690 -103.3479315 5,803.90 0.00 0.00 0.00 17,700.00 89.70 179.48 12,407.02 -5,706.80 1,185.03 409,809.20 846,399.03 32 1228690 -103.3479315 5,803.90 0.00 0.00 0.00 17,700.00 89.70 179.48 12,408.07 -5,906.79 1,186.85 409,609.21 846,400.85 32 1222859 -103.3479316 6,002.82 0.00 0.00 0.00 17,900.00 89.70 179.48 12,409.65 -6,006.79 1,187.66 409,609.21 846,400.85 32 1222859 -103.3479316 6,002.82 0.00 0.00 0.00 18,000 89.70 179.48 12,401.70 -6,006.79 1,187.89 409,509.21 846,401.69 32 1217103 -103.3479316 6,002.82 0.00 0.00 0.00 18,000 89.70 179.48 12,410.70 -6,066.75 1,191.39 409,109.22 846,401.69 32 1216961 -103.3479316 6,500.13 0.00 0.00 0.00 18,000 89.70 179.48 12,410.70 -6,066.75 1,191.39 409,109.20 846,400.59 32 1216961 -103.3479316 6,500.13 0.00 0.00 0.00 18,000 89.70 179.48 12,410.70 -6,066.75 1,191.39 409,109.20 846,400.30 32 1216961 -103.3479316 6,500.50 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.75 -6,606.75 1,194.12 408,809.25 846,400.59 32 1216961 -103.3479316 6,500.50	16,400.00	89.70	179.48	12,400.71	-4,506.87	1,174.13	411,009.13	846,388.13	32.1261081	-103.3479313	4,610.35	0.00	0.00	0.00
16,700.00 89.70 179.48 12,402.28 -4,806.85 1,176.86 410,709.15 846,390.86 32.1228035 -103.3479313 4,908.74 0.00 0.00 0.00 16,800.00 89.70 179.48 12,403.34 -5,006.84 1,178.68 410,509.16 846,391.77 32.1250086 -103.3479314 5,008.20 0.00 0.00 0.00 17,000.00 89.70 179.48 12,403.34 -5,006.84 1,179.58 410,409.16 846,393.58 32.1244589 -103.3479314 5,006.59 0.00 0.00 0.00 17,000.00 89.70 179.48 12,404.39 -5,206.83 1,180.49 410,309.17 846,394.89 32.1241840 -103.3479314 5,306.59 0.00 0.00 0.00 17,200.00 89.70 179.48 12,404.91 -5,306.82 1,181.40 410,209.18 846,394.89 32.1241840 -103.3479314 5,406.05 0.00 0.00 0.00 17,400.00 89.70 179.48 12,405.49 -5,606.81 1,183.22 410,009.19 846,397.22 32.1236949 -103.3479315 5,604.97 0.00 0.00 0.00 17,500.00 89.70 179.48 12,405.40 -5,506.81 1,184.13 409,909.19 846,399.13 32.1228097 -103.3479315 5,604.97 0.00 0.00 0.00 17,700.00 89.70 179.48 12,407.02 -5,706.80 1,185.03 409,809.20 846,399.03 32.1228097 -103.3479315 5,604.97 0.00 0.00 0.00 17,700.00 89.70 179.48 12,407.54 -5,806.80 1,185.03 409,809.20 846,399.03 32.1228097 -103.3479315 5,003.60 0.00 0.00 0.00 17,700.00 89.70 179.48 12,407.54 -5,806.80 1,185.04 409,709.20 846,399.94 32.1225349 -103.3479315 5,003.80 0.00 0.00 0.00 17,700.00 89.70 179.48 12,409.54 -5,806.80 1,185.04 409,709.20 846,399.94 32.1228097 -103.3479315 6,002.82 0.00 0.00 0.00 17,800.00 89.70 179.48 12,409.54 -5,806.80 1,185.94 409,709.20 846,399.94 32.1228097 -103.3479316 6,002.82 0.00 0.00 0.00 18,000 0.870 179.48 12,409.12 -6,106.78 1,186.87 409,509.21 846,403.85 32.122800 -103.3479316 6,002.82 0.00 0.00 0.00 18,000 0.89.70 179.48 12,409.12 -6,106.78 1,186.87 409,509.21 846,403.85 32.122800 -103.3479316 6,002.82 0.00 0.00 0.00 18,000 0.89.70 179.48 12,401.7 -6,306.77 1,190.49 409,209.23 846,404.49 32.121805 -103.3479316 6,001.3 0.00 0.00 0.00 18,000 0.89.70 179.48 12,411.22 -6,506.76 1,192.30 409,009.24 846,403.85 32.121805 -103.3479316 6,000.87 0.00 0.00 0.00 18,000 0.89.70 179.48 12,411.22 -6,506.75 1,194.12 408,809.25 846,403.85 32.121805 -103.3479316 6,000.80 0	16,500.00	89.70	179.48	12,401.23	-4,606.86	1,175.04	410,909.14	846,389.04	32.1258332	-103.3479313	4,709.82	0.00	0.00	0.00
16,800.00 89.70 179.48 12,402.81 -4,906.85 1,177.77 410,609.15 846,391.77 32:1250086 -103.3479314 5,008.20 0.00 0.00 0.00 17,000.00 89.70 179.48 12,403.34 -5,006.84 1,178.68 410,509.16 846,392.68 32.1247338 -103.3479314 5,007.13 0.00 0.00 0.00 17,100.00 89.70 179.48 12,404.39 -5,206.83 1,180.49 410,309.17 846,394.49 32.1241840 -103.3479314 5,006.50 0.00 0.00 0.00 17,200.00 89.70 179.48 12,405.44 -5,406.82 1,182.31 410,109.18 846,395.40 32.1239092 -103.3479314 5,006.60 0.00 0.00 0.00 17,500.00 89.70 179.48 12,405.96 -5,506.81 1,183.22 410,009.19 846,397.22 32.1239394 -103.3479315 5,505.51 0.00 0.00 0.00 17,500.00 89.70 179.48 12,405.96 -5,506.81 1,185.03 409,809.20 846,399.03 32.1228097 -103.3479315 5,604.97 0.00 0.00 0.00 17,700.00 89.70 179.48 12,405.96 -5,506.80 1,185.03 409,809.20 846,399.03 32.1228097 -103.3479315 5,003.80 0.00 0.00 0.00 17,700.00 89.70 179.48 12,405.96 -5,506.80 1,185.03 409,809.20 846,399.94 32.1225949 -103.3479315 5,003.80 0.00 0.00 0.00 17,700.00 89.70 179.48 12,405.96 -5,506.81 1,183.22 400,90.919 846,399.94 32.1225949 -103.3479315 5,003.80 0.00 0.00 0.00 17,700.00 89.70 179.48 12,405.96 -5,506.80 1,185.03 409,809.20 846,399.94 32.1225949 -103.3479315 5,003.80 0.00 0.00 0.00 17,700.00 89.70 179.48 12,405.96 -5,906.79 1,186.85 409,809.21 846,402.67 32.127103 -103.3479315 5,002.82 0.00 0.00 0.00 17,900.00 89.70 179.48 12,409.50 -5,906.79 1,187.76 409,509.21 846,402.67 32.127103 -103.3479316 6,002.82 0.00 0.00 0.00 18,000 89.70 179.48 12,409.65 -6,206.78 1,189.58 409,309.22 846,402.67 32.127103 -103.3479316 6,002.82 0.00 0.00 0.00 18,000 89.70 179.48 12,410.70 -6,406.76 1,191.39 409,109.24 846,405.39 32.1219560 -103.3479316 6,000.76 0.00 0.00 0.00 89.70 179.48 12,410.70 -6,406.76 1,191.39 409,109.24 846,405.39 32.1219560 -103.3479316 6,000.76 0.00 0.00 0.00 18,000 89.70 179.48 12,411.75 -6,606.75 1,192.30 409,009.25 846,402.67 32.1219560 -103.3479316 6,000.76 0.00 0.00 0.00 18,000 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,909.25 846,402.67 32.1219560 -103.3479316 6,000.76 0.00 0.00 0.	16,600.00	89.70	179.48	12,401.76	-4,706.86	1,175.95	410,809.14	846,389.95	32.1255583	-103.3479313	4,809.28	0.00	0.00	0.00
16,900.00 89.70 179.48 12,403.86 -5,106.84 1,178.68 410,509.16 846,393.58 32.124738	16,700.00	89.70	179.48	12,402.28	-4,806.85	1,176.86	410,709.15	846,390.86	32.1252835	-103.3479313	4,908.74	0.00	0.00	0.00
17,000.00 89.70 179.48 12,404.39 -5,206.83 1,180.49 410,309.17 846,394.49 32.1241899 -103.3479314 5,306.59 0.00 0.00 0.00 17,200.00 89.70 179.48 12,404.91 -5,306.82 1,181.40 410,209.18 846,395.40 32.1238992 -103.3479314 5,306.59 0.00 0.00 0.00 17,300.00 89.70 179.48 12,405.94 -5,506.81 1,182.31 410,109.18 846,395.40 32.1238992 -103.3479315 5,505.51 0.00 0.00 0.00 17,400.00 89.70 179.48 12,405.94 -5,506.81 1,183.22 410,009.19 846,397.22 32.1238994 -103.3479315 5,505.51 0.00 0.00 0.00 17,600.00 89.70 179.48 12,406.49 -5,606.81 1,184.34 409,909.19 846,399.31 32.1238946 -103.3479315 5,604.97 0.00 0.00 0.00 17,700.00 89.70 179.48 12,407.02 -5,706.80 1,185.03 409,909.20 846,399.03 32.1228097 -103.3479315 5,803.30 0.00 0.00 0.00 17,900.00 89.70 179.48 12,408.07 -5,906.79 1,186.85 409,509.21 846,400.85 32.1228000 103.3479315 5,903.36 0.00 0.00 0.00 18,100.00 89.70 179.48 12,409.69 -6,066.79 1,187.76 409,509.21 846,401.65 32.1218086 -103.3479316 6,102.28 0.00 0.00 0.00 18,100.00 89.70 179.48 12,409.69 -6,066.79 1,187.76 409,509.21 846,401.65 32.1218086 -103.3479316 6,102.28 0.00 0.00 0.00 18,100.00 89.70 179.48 12,409.69 -6,066.79 1,187.76 409,509.21 846,401.65 32.1218086 -103.3479316 6,002.82 0.00 0.00 0.00 18,100.00 89.70 179.48 12,410.17 -6,306.77 1,190.49 409,209.23 846,403.58 32.121809 -103.3479316 6,002.82 0.00 0.00 0.00 18,200.00 89.70 179.48 12,410.17 -6,306.77 1,190.49 409,209.23 846,404.49 32.121605 -103.3479316 6,901.21 0.00 0.00 0.00 18,300.00 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,909.25 846,403.58 32.121605 -103.3479316 6,900.12 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,909.25 846,403.69 32.121606 -103.3479317 6,999.50 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,909.25 846,408.10 32.119586 -103.3479317 6,999.50 0.00 0.00 0.00 18,500.00 89.70 179.48 12,412.80 -6,506.75 1,193.21 408,909.25 846,409.30 32.119586 -103.3479317 6,999.50 0.00 0.00 0.00 18,500.00 89.70 179.48 12,412.80 -6,506.75 1,193.21 408,909.25 846,409.30 32.119586 -103.3479317 6,99	16,800.00	89.70	179.48	12,402.81	-4,906.85	1,177.77	410,609.15	846,391.77	32.1250086	-103.3479314	5,008.20	0.00	0.00	0.00
17,100.00 89.70 179.48 12,404.91 -5,306.82 1,182.31 410,109.18 846,394.49 32.1241840 -103.3479314 5,306.59 0.00 0.00 0.00 17,300.00 89.70 179.48 12,405.44 -5,406.82 1,182.31 410,109.18 846,395.40 32.1238992 -103.3479315 5,505.51 0.00 0.00 0.00 17,400.00 89.70 179.48 12,406.49 -5,606.81 1,183.22 410,009.19 846,397.22 32.1233894 -103.3479315 5,606.97 0.00 0.00 0.00 17,500.00 89.70 179.48 12,407.02 -5,706.80 1,185.03 409,809.20 846,399.30 32.1228097 -103.3479315 5,604.97 0.00 0.00 0.00 17,700.00 89.70 179.48 12,408.07 -5,906.79 1,186.85 409,609.21 846,400.85 32.1228097 -103.3479315 5,003.36 0.00 0.00 0.00 17,900.00 89.70 179.48 12,408.59 -6,006.79 1,187.76 409,509.21 846,401.76 32.1218951 -103.3479315 5,003.36 0.00 0.00 0.00 18,000 89.70 179.48 12,409.45 -6,506.78 1,188.54 409,409.22 846,402.67 32.1217403 -103.3479316 6,102.28 0.00 0.00 0.00 18,000 89.70 179.48 12,409.45 -6,506.78 1,189.58 409,309.22 846,404.49 32.121805 -103.3479316 6,201.74 0.00 0.00 0.00 18,000 89.70 179.48 12,410.17 -6,306.77 1,190.49 409,209.23 846,404.49 32.121805 -103.3479316 6,500.13 0.00 0.00 0.00 18,000 89.70 179.48 12,410.17 -6,306.77 1,190.49 409,209.23 846,405.39 32.1228087 -103.3479316 6,500.13 0.00 0.00 0.00 18,000 89.70 179.48 12,410.17 -6,306.77 1,190.49 409,209.23 846,404.49 32.121805 -103.3479316 6,500.13 0.00 0.00 0.00 18,000 89.70 179.48 12,410.17 -6,506.76 1,192.30 409,009.24 846,405.39 32.1228087 -103.3479316 6,500.13 0.00 0.00 0.00 18,500.00 89.70 179.48 12,410.17 -6,606.75 1,193.21 408,809.25 846,404.49 32.121805 -103.3479317 6,599.59 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.25 -6,506.76 1,192.30 409,009.24 846,405.39 32.1228081 -103.3479317 6,997.44 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.25 -6,506.76 1,192.30 409,009.24 846,405.39 32.1286808 -103.3479317 6,599.59 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.25 -6,506.76 1,192.30 409,009.24 846,405.39 32.1286808 -103.3479317 6,599.59 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.25 -6,506.75 1,193.21 408,809.25 846,408.59 32.1286808 -103.3479317 6,997.44 0.00 0.00	16,900.00	89.70	179.48	12,403.34	-5,006.84	1,178.68	410,509.16	846,392.68	32.1247338	-103.3479314	5,107.66	0.00	0.00	0.00
17,200.00 89.70 179.48 12,404.91 -5,306.82 1,181.40 410,209.18 846,395.40 92.1239092 -103.3479314 5,406.05 0.00 0.00 0.00 17,300.00 89.70 179.48 12,405.96 -5,506.81 1,182.31 410,109.18 846,396.31 32.1236343 -103.3479315 5,505.51 0.00 0.00 0.00 17,500.00 89.70 179.48 12,405.96 -5,506.81 1,182.31 410,109.18 846,396.31 32.1236344 -103.3479315 5,505.51 0.00 0.00 0.00 17,500.00 89.70 179.48 12,406.96 -5,506.81 1,182.31 409,909.19 846,398.13 32.1236946 -103.3479315 5,506.47 0.00 0.00 0.00 17,600.00 89.70 179.48 12,407.02 -5,706.80 1,185.03 409,809.20 846,399.03 32.1228097 -103.3479315 5,803.90 0.00 0.00 0.00 17,700.00 89.70 179.48 12,407.54 -5,806.80 1,185.94 409,709.20 846,399.94 32.12256349 -103.3479315 5,903.36 0.00 0.00 0.00 17,900.00 89.70 179.48 12,408.59 -6,006.79 1,187.76 409,509.21 846,400.85 32.1228600 -103.3479315 6,002.82 0.00 0.00 0.00 18,000.00 89.70 179.48 12,409.12 -6,106.78 1,188.67 409,409.22 846,402.67 32.1217103 -103.3479316 6,002.82 0.00 0.00 0.00 18,000.00 89.70 179.48 12,409.12 -6,106.78 1,189.58 409,309.22 846,403.58 32.121854 -103.3479316 6,301.21 0.00 0.00 0.00 18,200.00 89.70 179.48 12,410.17 -6,306.77 1,190.49 409,209.23 846,403.58 32.121855 -103.3479316 6,301.21 0.00 0.00 0.00 18,200.00 89.70 179.48 12,410.17 -6,306.77 1,190.49 409,209.23 846,403.58 32.121655 -103.3479316 6,500.13 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,909.25 846,403.59 32.120666 -103.3479317 6,599.59 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,809.25 846,407.21 32.123666 -103.3479317 6,997.44 0.00 0.00 0.00 18,600.00 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,809.25 846,407.21 32.123666 -103.3479317 6,997.44 0.00 0.00 0.00 18,600.00 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,809.25 846,407.21 32.123666 -103.3479317 6,999.50 0.00 0.00 0.00 18,600.00 89.70 179.48 12,413.85 -7,066.75 1,193.21 408,809.25 846,409.30 32.1197862 -103.3479317 6,999.50 0.00 0.00 0.00 18,600.00 89.70 179.48 12,413.85 -7,066.73 1,195.94 408,609.26 846,409.30 32.119686 -103.3479317 6,9	17,000.00	89.70	179.48	12,403.86	-5,106.84	1,179.58	410,409.16	846,393.58	32.1244589	-103.3479314	5,207.13	0.00	0.00	0.00
17,300.00 89.70 179.48 12,405.44 -5,406.82 1,182.31 410,109.18 846,396.31 32.1236343 -103.3479315 5,505.51 0.00 0.00 0.00 17,400.00 89.70 179.48 12,405.49 -5,606.81 1,184.13 409,909.19 846,397.22 32.1233594 -103.3479315 5,506.49 7.00 0.00 0.00 17,500.00 89.70 179.48 12,407.02 -5,706.80 1,185.03 409,809.20 846,399.03 32.12228097 -103.3479315 5,604.97 0.00 0.00 0.00 17,700.00 89.70 179.48 12,407.54 -5,806.80 1,185.94 409,709.20 846,399.94 32.1225097 -103.3479315 5,004.93 0.00 0.00 0.00 17,900.00 89.70 179.48 12,407.54 -5,806.80 1,185.94 409,709.20 846,399.94 32.1225097 -103.3479315 5,903.36 0.00 0.00 0.00 17,900.00 89.70 179.48 12,407.54 -5,806.80 1,185.76 409,509.21 846,400.85 32.1222600 -103.3479315 6,002.82 0.00 0.00 0.00 17,900.00 89.70 179.48 12,409.95 -6,206.79 1,186.85 409,609.21 846,400.85 32.1222600 -103.3479316 6,002.82 0.00 0.00 0.00 18,100.00 89.70 179.48 12,409.95 -6,206.78 1,189.58 409,409.22 846,403.58 32.1244954 -103.3479316 6,201.74 0.00 0.00 0.00 18,200.00 89.70 179.48 12,410.70 -6,406.76 1,190.49 409,209.23 846,404.49 32.121605 -103.3479316 6,500.13 0.00 0.00 0.00 18,300.00 89.70 179.48 12,410.70 -6,406.76 1,190.30 409,009.24 846,403.58 32.121605 -103.3479316 6,500.13 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.22 -6,506.76 1,192.30 409,009.24 846,403.03 32.1208657 -103.3479316 6,500.13 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.25 -6,506.75 1,194.12 408,809.25 846,407.21 32.120360 -103.3479317 6,599.59 0.00 0.00 0.00 18,600.00 89.70 179.48 12,411.25 -6,506.75 1,194.12 408,809.25 846,409.03 32.119618 -103.3479317 6,997.44 0.00 0.00 0.00 18,600.00 89.70 179.48 12,413.33 -6,906.74 1,195.04 408,609.26 846,409.03 32.119618 -103.3479317 6,997.44 0.00 0.00 0.00 18,600.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,609.26 846,409.03 32.119616 -103.3479317 6,997.44 0.00 0.00 0.00 18,600.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,609.26 846,409.03 32.119616 -103.3479317 6,997.44 0.00 0.00 0.00 18,600.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,609.26 846,409.03 32.119616 -103.3479318 7,0	17,100.00	89.70	179.48	12,404.39	-5,206.83	1,180.49	410,309.17	846,394.49	32.1241840	-103.3479314	5,306.59	0.00	0.00	0.00
17,400.00 89.70 179.48 12,405.96 -5,506.81 1,183.22 410.009.19 846,397.22 32.1233594 -103.3479315 5,604.97 0.00 0.00 0.00 17,500.00 89.70 179.48 12,407.02 -5,706.80 1,185.03 409,809.20 846,399.03 32.1228097 -103.3479315 5,704.43 0.00 0.00 0.00 17,700.00 89.70 179.48 12,407.04 -5,806.80 1,185.94 409,709.20 846,399.94 32.1225349 -103.3479315 5,803.90 0.00 0.00 0.00 17,900.00 89.70 179.48 12,408.07 -5,906.79 1,186.85 409,609.21 846,400.85 32.1225600 -103.3479315 5,903.36 0.00 0.00 0.00 18,000.00 89.70 179.48 12,409.12 -6,106.78 1,188.67 409,409.22 846,402.67 32.1217103 -103.3479316 6,002.82 0.00 0.00 0.00 18,000.00 89.70 179.48 12,409.65 -6,206.78 1,189.58 409,309.22 846,402.67 32.1217103 -103.3479316 6,201.74 0.00 0.00 0.00 18,000.00 89.70 179.48 12,410.17 -6,306.77 1,190.49 409,209.23 846,404.49 32.121605 -103.3479316 6,400.67 0.00 0.00 0.00 18,000.00 89.70 179.48 12,410.17 -6,306.77 1,190.49 409,209.23 846,404.49 32.121605 -103.3479316 6,500.13 0.00 0.00 0.00 18,000.00 89.70 179.48 12,411.25 -6,506.76 1,192.30 409,009.24 846,405.39 32.12266108 -103.3479316 6,500.13 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.25 -6,506.76 1,192.30 409,009.24 846,406.30 32.12066108 -103.3479317 6,599.59 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.25 -6,506.75 1,193.21 408,909.25 846,402.21 32.1208657 -103.3479317 6,599.59 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.25 -6,506.75 1,193.21 408,809.25 846,407.21 32.1208610 -103.3479317 6,599.59 0.00 0.00 0.00 18,500.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,408.12 32.1208610 -103.3479317 6,999.55 0.00 0.00 0.00 18,500.00 89.70 179.48 12,412.80 -6,806.74 1,195.94 408,609.26 846,409.94 32.1195114 -103.3479317 6,997.44 0.00 0.00 0.00 18,500.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,509.27 846,410.85 32.1195365 -103.3479318 7,096.90 0.00 0.00 0.00 19,000.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,509.27 846,410.85 32.1195366 -103.3479318 7,196.36 0.00 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,195.94 408,609.26 846,409.30 32.1195366 -103	17,200.00	89.70	179.48	12,404.91	-5,306.82	1,181.40	410,209.18	846,395.40	32.1239092	-103.3479314	5,406.05	0.00	0.00	0.00
17,500.00 89.70 179.48 12,406.49 -5,606.81 1,184.13 409,909.19 846,398.13 32,1230846 -103,3479315 5,704.43 0.00 0.00 17,600.00 89.70 179.48 12,407.02 -5,706.80 1,185.03 409,809.20 846,399.03 32,1228097 -103,3479315 5,803.90 0.00 0.00 17,700.00 89.70 179.48 12,407.54 -5,906.79 1,186.85 409,609.21 846,399.94 32,122600 -103,3479315 5,903.36 0.00 0.00 0.00 17,800.00 89.70 179.48 12,408.07 -5,906.79 1,187.76 409,609.21 846,400.85 32,122600 -103,3479315 6,002.82 0.00 0.00 0.00 18,000.00 89.70 179.48 12,409.65 -6,06.78 1,188.67 409,409.22 846,402.67 32,1214354 -103,3479316 6,002.82 0.00 0.00 0.00 18,200.00 89.70 179.48 12,410.17 -6,306.77 1,190.49 409,209.23 846,404.49 32,1214354 -103,3479316 6,500.13 0.00 0.00	17,300.00	89.70	179.48	12,405.44	-5,406.82	1,182.31	410,109.18	846,396.31	32.1236343	-103.3479315	5,505.51	0.00	0.00	0.00
17,600.00 89.70 179.48 12,407.02 -5,706.80 1,185.03 409,809.20 846,399.03 32.122600 -103.3479315 5,803.90 0.00 0.00 0.00 17,800.00 89.70 179.48 12,407.54 -5,806.80 1,185.94 409,709.20 846,399.94 32.122500 -103.3479315 5,903.36 0.00 0.00 0.00 17,800.00 89.70 179.48 12,408.59 -6,006.79 1,186.85 409,609.21 846,401.76 32.1218951 -103.3479315 6,002.82 0.00 0.00 0.00 18,000.00 89.70 179.48 12,408.59 -6,006.79 1,186.87 409,409.22 846,402.67 32.1217103 -103.3479316 6,201.74 0.00 0.00 0.00 18,100.00 89.70 179.48 12,409.12 -6,106.78 1,188.67 409,409.22 846,403.58 32.1214354 -103.3479316 6,301.21 0.00 0.00 0.00 18,200.00 89.70 179.48 12,410.17 -6,306.77 1,190.49 409,209.23 846,404.49 32.1211605 -103.3479316 6,400.67 0.00 0.00 0.00 18,300.00 89.70 179.48 12,410.70 -6,406.76 1,191.39 409,109.24 846,403.58 32.1208857 -103.3479316 6,500.13 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.22 -6,506.76 1,192.30 409,009.24 846,403.59 32.1208857 -103.3479316 6,500.13 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.27 -6,506.75 1,193.21 408,909.25 846,407.21 32.120360 -103.3479317 6,599.59 0.00 0.00 0.00 18,500.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,408.12 32.120611 -103.3479317 6,997.44 0.00 0.00 0.00 18,000 89.70 179.48 12,412.80 -6,806.74 1,195.03 408,709.26 846,409.03 32.119514 -103.3479317 6,997.44 0.00 0.00 0.00 18,000 89.70 179.48 12,412.80 -6,806.74 1,195.03 408,709.26 846,409.94 32.119514 -103.3479317 6,997.44 0.00 0.00 0.00 18,000 89.70 179.48 12,413.33 -6,906.74 1,195.94 408,609.26 846,409.94 32.119514 -103.3479317 6,997.44 0.00 0.00 0.00 18,000 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,509.27 846,410.85 32.119586 -103.3479318 7,096.90 0.00 0.00 0.00 19,000.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,509.27 846,410.85 32.119586 -103.3479318 7,196.36 0.00 0.00 0.00 0.00 19,000.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,509.27 846,410.85 32.119586 -103.3479318 7,196.36 0.00 0.00 0.00 0.00 0.00 0.00 0.00	17,400.00	89.70	179.48	12,405.96	-5,506.81	1,183.22	410,009.19	846,397.22	32.1233594	-103.3479315	5,604.97	0.00	0.00	0.00
17,700.00 89.70 179.48 12,407.54 -5,806.80 1,185.94 409,709.20 846,399.94 32.1225349 -103.3479315 5,903.36 0.00 0.00 0.00 17,800.00 89.70 179.48 12,408.59 -6,006.79 1,187.76 409,509.21 846,401.76 32.121851 -103.3479315 6,002.82 0.00 0.00 0.00 18,000.00 89.70 179.48 12,409.12 -6,106.78 1,188.67 409,409.22 846,402.67 32.1217103 -103.3479316 6,201.74 0.00 0.00 0.00 18,100.00 89.70 179.48 12,409.65 -6,206.78 1,189.58 409,309.22 846,403.58 32.1214354 -103.3479316 6,301.21 0.00 0.00 0.00 18,200.00 89.70 179.48 12,410.70 -6,406.76 1,191.39 409,109.24 846,405.39 32.121605 -103.3479316 6,500.13 0.00 0.00 0.00 18,400.00 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,809.25 846,407.21 32.1208657 -103.3479317 6,599.59 0.00 0.00 0.00 18,600.00 89.70 179.48 12,411.75 -6,606.75 1,194.12 408,809.25 846,409.03 32.1206108 -103.3479317 6,699.05 0.00 0.00 0.00 18,700.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,409.03 32.1206108 -103.3479317 6,699.05 0.00 0.00 0.00 18,700.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,409.03 32.1206111 -103.3479317 6,897.98 0.00 0.00 0.00 18,800.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,409.03 32.1206111 -103.3479317 6,897.98 0.00 0.00 0.00 18,800.00 89.70 179.48 12,412.80 -6,806.74 1,195.03 408,709.26 846,409.03 32.1197862 -103.3479317 6,897.98 0.00 0.00 0.00 18,800.00 89.70 179.48 12,413.33 -6,906.74 1,195.94 408,609.26 846,409.93 32.1197862 -103.3479317 6,997.44 0.00 0.00 0.00 18,800.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,509.27 846,410.85 32.1195616 -103.3479318 7,096.90 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,195.94 408,609.26 846,409.94 32.1195616 -103.3479318 7,096.90 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,195.94 408,609.26 846,409.94 32.1195616 -103.3479318 7,096.90 0.00 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,195.94 408,609.26 846,409.94 32.1195616 -103.3479318 7,096.90 0.00 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,196.85 408,509.27 846,411.75 32.1186688 -	17,500.00	89.70	179.48	12,406.49	-5,606.81	1,184.13	409,909.19	846,398.13	32.1230846	-103.3479315	5,704.43	0.00	0.00	0.00
17,800.00 89.70 179.48 12,409.67 -6,006.79 1,186.85 409,609.21 846,400.85 32.1222600 -103.3479315 6,002.82 0.00 0.00 0.00 18,000.00 89.70 179.48 12,409.65 -6,206.78 1,189.58 409,309.22 846,402.67 32.1211605 -103.3479316 6,201.74 0.00 0.00 0.00 18,200.00 89.70 179.48 12,410.17 -6,306.77 1,190.49 409,209.23 846,404.49 32.1211605 -103.3479316 6,500.13 0.00 0.00 0.00 18,400.00 89.70 179.48 12,410.70 -6,406.76 1,191.39 409,109.24 846,405.39 32.1208857 -103.3479316 6,500.13 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.22 -6,506.76 1,192.30 409,009.24 846,406.30 32.1206108 -103.3479316 6,500.13 0.00 0.00 0.00 18,600.00 89.70 179.48 12,411.27 -6,706.75 1,194.12 408,809.25 846,408.12 32.1206108 -103.3479317 6,599.59 0.00 0.00 0.00 18,700.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,408.12 32.1206101 -103.3479317 6,997.54 0.00 0.00 0.00 18,800.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,408.12 32.120611 -103.3479317 6,997.54 0.00 0.00 0.00 18,800.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,408.12 32.120611 -103.3479317 6,997.54 0.00 0.00 0.00 18,800.00 89.70 179.48 12,412.80 -6,806.74 1,195.03 408,709.26 846,409.03 32.1197862 -103.3479317 6,997.44 0.00 0.00 0.00 18,800.00 89.70 179.48 12,413.33 -6,906.74 1,195.03 408,709.26 846,409.93 32.1197862 -103.3479317 6,997.44 0.00 0.00 0.00 18,800.00 89.70 179.48 12,413.33 -6,906.74 1,195.03 408,709.26 846,409.94 32.1197862 -103.3479317 6,997.44 0.00 0.00 0.00 18,900.00 89.70 179.48 12,413.35 -7,006.73 1,196.85 408,509.27 846,410.85 32.1197862 -103.3479318 7,096.90 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.118686 -103.3479318 7,196.36 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.118686 -103.3479318 7,196.36 0.00 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.118686 -103.3479318 7,196.36 0.00 0.00 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.1186868	17,600.00	89.70	179.48	12,407.02	-5,706.80	1,185.03	409,809.20	846,399.03	32.1228097	-103.3479315	5,803.90	0.00	0.00	0.00
17,900.00 89.70 179.48 12,408.59 -6,006.79 1,187.76 409,509.21 846,401.76 32.1219851 -103.3479316 6,102.28 0.00 0.00 0.00 18,000.00 89.70 179.48 12,409.12 -6,106.78 1,188.67 409,409.22 846,402.67 32.1217103 -103.3479316 6,201.74 0.00 0.00 0.00 18,100.00 89.70 179.48 12,409.65 -6,206.78 1,189.58 409,309.22 846,403.58 32.1214354 -103.3479316 6,301.21 0.00 0.00 0.00 18,200.00 89.70 179.48 12,410.17 -6,306.77 1,190.49 409,209.23 846,404.49 32.1211605 -103.3479316 6,400.67 0.00 0.00 0.00 18,400.00 89.70 179.48 12,411.22 -6,506.76 1,192.30 409,009.24 846,406.30 32.1208857 -103.3479316 6,500.13 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,909.25 846,407.21 32.1203360 -103.3479317 6,599.59 0.00 0.00 0.00 18,600.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,408.12 32.1200610 -103.3479317 6,798.51 0.00 0.00 0.00 18,700.00 89.70 179.48 12,412.80 -6,806.74 1,195.03 408,709.26 846,409.03 32.1197862 -103.3479317 6,997.44 0.00 0.00 0.00 18,900.00 89.70 179.48 12,413.33 -6,906.74 1,195.03 408,709.26 846,409.94 32.1197862 -103.3479317 6,997.44 0.00 0.00 0.00 18,900.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,509.27 846,410.85 32.1192365 -103.3479318 7,096.90 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,195.94 408,609.26 846,409.94 32.1195114 -103.3479318 7,096.90 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,195.94 408,609.26 846,409.94 32.1195114 -103.3479318 7,096.90 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,006.73 1,196.85 408,509.27 846,410.85 32.1192365 -103.3479318 7,096.90 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.118666 -103.3479318 7,196.36 0.00 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.1186868 -103.3479318 7,295.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	17,700.00	89.70	179.48	12,407.54	-5,806.80	1,185.94	409,709.20	846,399.94	32.1225349	-103.3479315	5,903.36	0.00	0.00	0.00
18,000.00 89.70 179.48 12,409.12 -6,106.78 1,188.67 409,409.22 846,402.67 32.1217103 -103.3479316 6,201.74 0.00 0.00 0.00 18,100.00 89.70 179.48 12,409.65 -6,206.78 1,189.58 409,309.22 846,403.58 32.1214354 -103.3479316 6,301.21 0.00 0.00 0.00 18,200.00 89.70 179.48 12,410.70 -6,406.76 1,191.39 409,109.24 846,405.39 32.121865 -103.3479316 6,500.13 0.00 0.00 0.00 18,400.00 89.70 179.48 12,411.22 -6,506.76 1,192.30 409,009.24 846,405.39 32.1208857 -103.3479316 6,500.13 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,009.25 846,407.21 32.120360 -103.3479317 6,599.59 0.00 0.00 0.00 18,600.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,408.12 32.120360 -103.3479317 6,998.51	17,800.00	89.70	179.48	12,408.07	-5,906.79	1,186.85	409,609.21	846,400.85	32.1222600	-103.3479315	6,002.82	0.00	0.00	0.00
18,100.00 89.70 179.48 12,410.70 -6,406.76 1,191.39 409,109.24 846,405.39 32.1208857 -103.3479316 6,500.13 0.00 0.00 18,400.00 89.70 179.48 12,411.22 -6,506.76 1,192.30 409,009.24 846,406.30 32.1206108 -103.3479316 6,599.59 0.00 0.00 0.00 18,600.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,408.12 32.1208610 -103.3479317 6,798.51 0.00 0.00 0.00 18,700.00 89.70 179.48 12,412.80 -6,806.74 1,195.03 408,709.26 846,409.03 32.1197862 -103.3479317 6,997.44 0.00 0.00 0.00 18,800.00 89.70 179.48 12,413.33 -6,906.74 1,195.03 408,709.26 846,409.03 32.1197862 -103.3479317 6,997.44 0.00 0.00 0.00 18,900.00 89.70 179.48 12,413.33 -6,906.74 1,195.03 408,709.26 846,409.03 32.1197862 -103.3479317 6,997.44 0.00 0.00 0.00 18,900.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,509.27 846,410.85 32.1192365 -103.3479318 7,096.90 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,410.85 32.1189616 -103.3479318 7,096.90 0.00 0.00 0.00 19,100.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.1189616 -103.3479318 7,196.36 0.00 0.00 0.00 19,100.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.1189616 -103.3479318 7,196.36 0.00 0.00 0.00 0.00 19,100.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.1189616 -103.3479318 7,196.36 0.00 0.00 0.00 0.00 19,100.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.1189616 -103.3479318 7,196.36 0.00 0.00 0.00 0.00 19,100.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.1189616 -103.3479318 7,196.36 0.00 0.00 0.00 0.00 19,100.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.1189616 -103.3479318 7,295.82 0.00 0.00 0.00 0.00 0.00 19,100.00 89.70 179.48 12,414.38 -7,106.73 1,196.66 408,309.28 846,412.66 32.1186868 -103.3479318 7,295.82 0.00 0.00 0.00 0.00	17,900.00	89.70	179.48	12,408.59	-6,006.79	1,187.76	409,509.21	846,401.76	32.1219851	-103.3479316	6,102.28	0.00	0.00	0.00
18,200.00 89.70 179.48 12,410.17 -6,306.77 1,190.49 409,209.23 846,404.49 32.1211605 -103.3479316 6,400.67 0.00 0.00 0.00 18,300.00 89.70 179.48 12,410.70 -6,406.76 1,191.39 409,109.24 846,405.39 32.1208857 -103.3479316 6,500.13 0.00 0.00 0.00 18,400.00 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,909.25 846,407.21 32.120360 -103.3479317 6,699.05 0.00 0.00 18,600.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,408.12 32.1200611 -103.3479317 6,699.05 0.00 0.00 18,700.00 89.70 179.48 12,412.80 -6,806.74 1,195.03 408,709.26 846,409.03 32.1197862 -103.3479317 6,897.98 0.00 0.00 18,800.00 89.70 179.48 12,413.33 -6,906.74 1,195.94 408,609.26 846,409.94 32.1195114 -103.3479317 6,997.44 0.00 0.00	18,000.00	89.70	179.48	12,409.12	-6,106.78	1,188.67	409,409.22	846,402.67	32.1217103	-103.3479316	6,201.74	0.00	0.00	0.00
18,300.00 89.70 179.48 12,410.70 -6,406.76 1,191.39 409,109.24 846,405.39 32.1208857 -103.3479316 6,500.13 0.00 0.00 0.00 18,400.00 89.70 179.48 12,411.22 -6,506.76 1,192.30 409,009.24 846,406.30 32.1208108 -103.3479317 6,599.59 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,909.25 846,407.21 32.120360 -103.3479317 6,699.05 0.00 0.00 0.00 18,600.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,408.12 32.1200611 -103.3479317 6,897.98 0.00 0.00 18,700.00 89.70 179.48 12,412.80 -6,806.74 1,195.03 408,709.26 846,409.03 32.1197862 -103.3479317 6,897.98 0.00 0.00 18,800.00 89.70 179.48 12,413.33 -6,906.74 1,195.94 408,609.26 846,409.94 32.1195114 -103.3479317 6,897.44 0.00 0.00	18,100.00	89.70	179.48	12,409.65	-6,206.78	1,189.58	409,309.22	846,403.58	32.1214354	-103.3479316	6,301.21	0.00	0.00	0.00
18,400.00 89.70 179.48 12,411.22 -6,506.76 1,192.30 409,009.24 846,406.30 32.1206108 -103.3479317 6,599.59 0.00 0.00 0.00 18,500.00 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,909.25 846,407.21 32.1203360 -103.3479317 6,699.05 0.00 0.00 0.00 18,600.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,408.12 32.1200611 -103.3479317 6,798.51 0.00 0.00 0.00 18,700.00 89.70 179.48 12,412.80 -6,806.74 1,195.03 408,709.26 846,409.03 32.1197862 -103.3479317 6,897.98 0.00 0.00 18,800.00 89.70 179.48 12,413.33 -6,906.74 1,195.94 408,609.26 846,409.94 32.1195114 -103.3479317 6,997.44 0.00 0.00 0.00 18,900.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,509.27 846,410.85 32.1192365 -103.3479318 7,196.36 0.00 <td>18,200.00</td> <td>89.70</td> <td>179.48</td> <td>12,410.17</td> <td>-6,306.77</td> <td>1,190.49</td> <td>409,209.23</td> <td>846,404.49</td> <td>32.1211605</td> <td>-103.3479316</td> <td>6,400.67</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	18,200.00	89.70	179.48	12,410.17	-6,306.77	1,190.49	409,209.23	846,404.49	32.1211605	-103.3479316	6,400.67	0.00	0.00	0.00
18,500.00 89.70 179.48 12,411.75 -6,606.75 1,193.21 408,909.25 846,407.21 32.1203360 -103.3479317 6,699.05 0.00 0.00 0.00 18,600.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,408.12 32.1200611 -103.3479317 6,798.51 0.00 0.00 0.00 18,700.00 89.70 179.48 12,412.80 -6,806.74 1,195.03 408,709.26 846,409.03 32.1197862 -103.3479317 6,897.98 0.00 0.00 0.00 18,800.00 89.70 179.48 12,413.33 -6,906.74 1,195.94 408,609.26 846,409.94 32.1195114 -103.3479317 6,997.44 0.00 0.00 18,900.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,509.27 846,410.85 32.1192365 -103.3479318 7,096.90 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.1189616 -103.3479318 7,196.36 0.00 0.00 <td>18,300.00</td> <td>89.70</td> <td>179.48</td> <td>12,410.70</td> <td>-6,406.76</td> <td>1,191.39</td> <td>409,109.24</td> <td>846,405.39</td> <td>32.1208857</td> <td>-103.3479316</td> <td>6,500.13</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	18,300.00	89.70	179.48	12,410.70	-6,406.76	1,191.39	409,109.24	846,405.39	32.1208857	-103.3479316	6,500.13	0.00	0.00	0.00
18,600.00 89.70 179.48 12,412.27 -6,706.75 1,194.12 408,809.25 846,408.12 32.1200611 -103.3479317 6,798.51 0.00 0.00 0.00 18,700.00 89.70 179.48 12,412.80 -6,806.74 1,195.03 408,709.26 846,409.03 32.1197862 -103.3479317 6,897.98 0.00 0.00 0.00 18,800.00 89.70 179.48 12,413.33 -6,906.74 1,195.94 408,609.26 846,409.94 32.1195114 -103.3479317 6,997.44 0.00 0.00 0.00 18,900.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,509.27 846,410.85 32.1192365 -103.3479318 7,096.90 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.1189616 -103.3479318 7,196.36 0.00 0.00 19,100.00 89.70 179.48 12,414.90 -7,206.72 1,198.66 408,309.28 846,412.66 32.1186868 -103.3479318 7,295.82 0.00 0.00 <td>18,400.00</td> <td>89.70</td> <td>179.48</td> <td>12,411.22</td> <td>-6,506.76</td> <td>1,192.30</td> <td>409,009.24</td> <td>846,406.30</td> <td>32.1206108</td> <td>-103.3479317</td> <td>6,599.59</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	18,400.00	89.70	179.48	12,411.22	-6,506.76	1,192.30	409,009.24	846,406.30	32.1206108	-103.3479317	6,599.59	0.00	0.00	0.00
18,700.00 89.70 179.48 12,412.80 -6,806.74 1,195.03 408,709.26 846,409.03 32.1197862 -103.3479317 6,897.98 0.00 0.00 0.00 18,800.00 89.70 179.48 12,413.33 -6,906.74 1,195.94 408,609.26 846,409.94 32.1195114 -103.3479317 6,997.44 0.00 0.00 0.00 18,900.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,509.27 846,410.85 32.1192365 -103.3479318 7,096.90 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.1189616 -103.3479318 7,196.36 0.00 0.00 19,100.00 89.70 179.48 12,414.90 -7,206.72 1,198.66 408,309.28 846,412.66 32.1186868 -103.3479318 7,295.82 0.00 0.00	18,500.00	89.70	179.48	12,411.75	-6,606.75	1,193.21	408,909.25	846,407.21	32.1203360	-103.3479317	6,699.05	0.00	0.00	0.00
18,800.00 89.70 179.48 12,413.33 -6,906.74 1,195.94 408,609.26 846,409.94 32.1195114 -103.3479317 6,997.44 0.00 0.00 0.00 18,900.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,509.27 846,410.85 32.1192365 -103.3479318 7,096.90 0.00 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.1189616 -103.3479318 7,196.36 0.00 0.00 19,100.00 89.70 179.48 12,414.90 -7,206.72 1,198.66 408,309.28 846,412.66 32.1186868 -103.3479318 7,295.82 0.00 0.00	18,600.00	89.70	179.48	12,412.27	-6,706.75	1,194.12	408,809.25	846,408.12	32.1200611	-103.3479317	6,798.51	0.00	0.00	0.00
18,900.00 89.70 179.48 12,413.85 -7,006.73 1,196.85 408,509.27 846,410.85 32.1192365 -103.3479318 7,096.90 0.00 0.00 19,000.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.1189616 -103.3479318 7,196.36 0.00 0.00 19,100.00 89.70 179.48 12,414.90 -7,206.72 1,198.66 408,309.28 846,412.66 32.1186868 -103.3479318 7,295.82 0.00 0.00 0.00	18,700.00	89.70	179.48	12,412.80	-6,806.74	1,195.03	408,709.26	846,409.03	32.1197862	-103.3479317	6,897.98	0.00	0.00	0.00
19,000.00 89.70 179.48 12,414.38 -7,106.73 1,197.75 408,409.27 846,411.75 32.1189616 -103.3479318 7,196.36 0.00 0.00 19,100.00 89.70 179.48 12,414.90 -7,206.72 1,198.66 408,309.28 846,412.66 32.1186868 -103.3479318 7,295.82 0.00 0.00	18,800.00	89.70	179.48	12,413.33	-6,906.74	1,195.94	408,609.26	846,409.94	32.1195114	-103.3479317	6,997.44	0.00	0.00	0.00
19,100.00 89.70 179.48 12,414.90 -7,206.72 1,198.66 408,309.28 846,412.66 ^{32.1186868} -103.3479318 7,295.82 0.00 0.00	18,900.00	89.70	179.48	12,413.85	-7,006.73	1,196.85	408,509.27	846,410.85	32.1192365	-103.3479318	7,096.90	0.00	0.00	0.00
1,10100 1,	19,000.00	89.70	179.48	12,414.38	-7,106.73	1,197.75	408,409.27	846,411.75	32.1189616	-103.3479318	7,196.36	0.00	0.00	0.00
19,200.00 89.70 179.48 12,415.43 -7,306.71 1,199.57 408,209.29 846,413.57 32.1184119 -103.3479318 7,395.28 0.00 0.00 0.00	19,100.00	89.70	179.48	12,414.90	-7,206.72	1,198.66	408,309.28	846,412.66	32.1186868	-103.3479318	7,295.82	0.00	0.00	0.00
	19,200.00	89.70	179.48	12,415.43	-7,306.71	1,199.57	408,209.29	846,413.57	32.1184119	-103.3479318	7,395.28	0.00	0.00	0.00

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)
Site: Junior Mint Fed Pad

Well: Junior Mint Fed 218H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) **MD Reference:** GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Planned Su	rvey												
Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coo +N/-S (usft)	rdinates +E/-W (usft)	Map Coord Northing (usft)	dinates Easting (usft)	Geo Coordi Latitude (°)	inates Longituge (°)	Vertical Section (usft)	Rate	Build Rate (°/100usft)	Rate
19,300.00	89.70	179.48	12,415.96	-7,406.71	1,200.48	408,109.29	846,414.48	32.1181371	-103.3479318	7,494.75	0.00	0.00	0.00
19,400.00	89.70	179.48	12,416.48	-7,506.70	1,201.39	408,009.30	846,415.39	32.1178622	-103.3479319	7,594.21	0.00	0.00	0.00
19,500.00	89.70	179.48	12,417.01	-7,606.70	1,202.30	407,909.30	846,416.30	32.1175873	-103.3479319	7,693.67	0.00	0.00	0.00
19,600.00	89.70	179.48	12,417.53	-7,706.69	1,203.20	407,809.31	846,417.20	32.1173125	-103.3479319	7,793.13	0.00	0.00	0.00
19,700.00	89.70	179.48	12,418.06	-7,806.69	1,204.11	407,709.31	846,418.11	32.1170376	-103.3479319	7,892.59	0.00	0.00	0.00
19,800.00	89.70	179.48	12,418.59	-7,906.68	1,205.02	407,609.32	846,419.02	32.1167628	-103.3479319	7,992.06	0.00	0.00	0.00
19,900.00	89.70	179.48	12,419.11	-8,006.68	1,205.93	407,509.32	846,419.93	32.1164879	-103.3479320	8,091.52	0.00	0.00	0.00
20,000.00	89.70	179.48	12,419.64	-8,106.67	1,206.84	407,409.33	846,420.84	32.1162130	-103.3479320	8,190.98	0.00	0.00	0.00
20,100.00	89.70	179.48	12,420.16	-8,206.67	1,207.75	407,309.33	846,421.75	32.1159382	-103.3479320	8,290.44	0.00	0.00	0.00
20,200.00	89.70	179.48	12,420.69	-8,306.66	1,208.66	407,209.34	846,422.66	32.1156633	-103.3479320	8,389.90	0.00	0.00	0.00
20,300.00	89.70	179.48	12,421.21	-8,406.65	1,209.56	407,109.35	846,423.56	32.1153884	-103.3479320	8,489.36	0.00	0.00	0.00
20,400.00	89.70		12,421.74		1,210.47	407,009.35	846,424.47	32.1151136	-103.3479320	8,588.83		0.00	0.00
20,500.00	89.70	179.48	12,422.27	-8,606.64	1,211.38	406,909.36	846,425.38	32.1148387	-103.3479321	8,688.29	0.00	0.00	0.00
20,600.00	89.70	179.48	12,422.79	-8,706.64	1,212.29	406,809.36	846,426.29	32.1145639	-103.3479321	8,787.75	0.00	0.00	0.00
20,700.00	89.70	179.48	12,423.32	-8,806.63	1,213.20	406,709.37	846,427.20	32.1142890	-103.3479321	8,887.21		0.00	0.00
20,800.00	89.70	179.48	12,423.84	-8,906.63	1,214.11	406,609.37	846,428.11	32.1140141	-103.3479321	8,986.67	0.00	0.00	0.00
20,900.00	89.70	179.48	12,424.37	-9,006.62	1,215.02	406,509.38	846,429.02	32.1137393	-103.3479321	9,086.14	0.00	0.00	0.00
21,000.00	89.70	179.48	12,424.90	-9,106.62	1,215.92	406,409.38	846,429.92	32.1134644	-103.3479322	9,185.60		0.00	0.00
21,100.00	89.70	179.48	12,425.42	-9,206.61	1,216.83	406,309.39	846,430.83	32.1131895	-103.3479322	9,285.06	0.00	0.00	0.00
21,200.00	89.70	179.48	12,425.95	-9,306.60	1,217.74	406,209.40	846,431.74	32.1129147	-103.3479322	9,384.52	0.00	0.00	0.00
21,300.00	89.70	179.48	12,426.47	-9,406.60	1,218.65	406,109.40	846,432.65	32.1126398	-103.3479322	9,483.98	0.00	0.00	0.00
21,400.00	89.70	179.48	12,427.00	-9,506.59	1,219.56	406,009.41	846,433.56	32.1123650	-103.3479322	9,583.44	0.00	0.00	0.00
21,500.00	89.70	179.48	12,427.52	-9,606.59	1,220.47	405,909.41	846,434.47	32.1120901	-103.3479323	9,682.91	0.00	0.00	0.00
21,600.00	89.70	179.48	12,428.05	-9,706.58	1,221.38	405,809.42	846,435.38	32.1118152	-103.3479323	9,782.37	0.00	0.00	0.00
21,700.00	89.70	179.48	12,428.58	-9,806.58	1,222.28	405,709.42	846,436.28	32.1115404	-103.3479323	9,881.83	0.00	0.00	0.00
21,800.00	89.70	179.48	12,429.10	-9,906.57	1,223.19	405,609.43	846,437.19	32.1112655	-103.3479323	9,981.29	0.00	0.00	0.00
21,900.00	89.70	179.48	12,429.63	-10,006.57	1,224.10	405,509.43	846,438.10	32.1109906	-103.3479323	10,080.75	0.00	0.00	0.00
22,000.00	89.70	179.48	12,430.15	-10,106.56	1,225.01	405,409.44	846,439.01	32.1107158	-103.3479323	10,180.22	0.00	0.00	0.00
22,100.00	89.70	179.48	12,430.68	-10,206.56	1,225.92	405,309.45	846,439.92	32.1104409	-103.3479324			0.00	0.00
22,200.00	89.70		•	-10,306.55	•	405,209.45	846,440.83	32.1101661	-103.3479324			0.00	0.00
22,300.00	89.70	179.48	12,431.73	-10,406.54	1,227.73	405,109.46	846,441.73	32.1098912	-103.3479324	10,478.60	0.00	0.00	0.00
22,400.00	89.70			-10,506.54		405,009.46	846,442.64	32.1096163	-103.3479324	10,578.06	0.00	0.00	0.00
22,500.00	89.70		•	-10,606.53	•	404,909.47	846,443.55	32.1093415	-103.3479324			0.00	0.00
22,600.00	89.70		•	-10,706.53	•	404,809.47	846,444.46	32.1090666	-103.3479325			0.00	0.00
22,674.48				-10,781.00		404,735.00	846,445.14	32.1088619	-103.3479325			0.00	0.00
·		Fed 218		.,	, •	- ,	.,			-,			
22,700.00	89.70	179 48	12,433 83	-10,806.52	1.231 37	404,709.48	846,445.37	32.1087917	-103.3479325	10.876 45	0.00	0.00	0.00
22,769.48				-10,876.00		404,640.00	846,446.00	32.1086008	-103.3479325	-		0.00	0.00
,, 50.40	55.70	1.7.5.40	,	. 0,01 0.00	1,202.00	101,040.00	3 10, 140.00			. 5,5 10.00	0.00	0.00	0.00

Page 43 of 143

Total Directional

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)
Site: Junior Mint Fed Pad

Well: Junior Mint Fed 218H

Plan #2

Wellbore: OH

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) **MD Reference:** GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: .Total Directional Production DB

Planned Survey

Design:

Geo Coordinates Local Coordinates Vertical Dogleg Build Turn Vertical **Map Coordinates** Measured Depth **Easting** Latitude Longituge Section Rate Rate Rate Depth +N/-S +E/-W Northing INC **AZI** (°/100usft) (°/100usft)(°/100usft) (usft) (usft) (usft) (usft) (usft) (usft) (°) (°) (°)

Junior Mint Fed 218H BHL

Design Ta	rgets
-----------	-------

Target Name

- hit/miss target Dip Angle Dip Dir. TVD +N/-S +E/-W Northing Easting
- Shape (°) (°) (usft) (usft) (usft) (usft)

- Snape (°) (αsπ) (usπ) (usπ) (usπ) (usπ) (usπ) Latitude Longitude

Junior Mint Fed 218H 0.00 0.00 11,808.00 -420.00 1,137.00 415,096.00 846,351.00 32.1373419 -103.3479305

- plan misses target center by 49.61usft at 11935.26usft MD (11808.00 TVD, -370.39 N, 1136.55 E)

- Point

Junior Mint Fed 218H 0.00 0.00 12,433.80 -10,781.00 1,231.00 404,735.00 846,445.00 32.1088619 -103.3479329

- plan misses target center by 0.17usft at 22674.48usft MD (12433.70 TVD, -10781.00 N, 1231.14 E)

- Point

Junior Mint Fed 218H 0.00 0.00 12,434.20 -10,876.00 1,232.00 404,640.00 846,446.00 32.1086008 -103.3479325

- plan hits target center

- Point

Checked By:	Approved By:	Date:	
	· ·		

8/18/2025 4:43:59PM Page 10

Civitas Resources

Lea County, NM (NAD 83)
Junior Mint Fed Pad
Junior Mint Fed 218H

OH Plan #2



Anticollision Report

Minimum Magnetic Interference Warning level is 20' center to center

18 August, 2025

Total Report Version 1.70

COMPASS 5000.16 Build 97

Click here for our anticollision policy

ATTENTION

All offset data provided was gathered using available software and resources. Total Directional Services cannot guarantee the accuracy of all offset data, which should be verified for accuracy by the Operator.

Anticollision Report

North Reference:



Civitas Resources Company:

Well Junior Mint Fed 218H Local Co-ordinate Reference: Project: Lea County, NM (NAD 83) **TVD Reference:** GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) Junior Mint Fed Pad MD Reference: Reference Site:

0.00 usft Site Error:

Junior Mint Fed 218H Reference Well: **Survey Calculation Method:** Minimum Curvature Well Error: 0.50 usft Output errors are at 2.00 sigma

Reference Wellbore ОН .Total Directional Production DB Database:

Reference Design: Plan #2 Offset TVD Reference: Reference Datum

Reference Plan #2

Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria

ISCWSA Interpolation Method: MD Interval 100.00usft Error Model:

Unlimited Closest Approach 3D Depth Range: Scan Method: Maximum centre distance of 2,433.18usft Results Limited by: Error Surface: Pedal Curve

Warning Levels Evaluated at: 2.00 Sigma Casing Method: Not applied

Well Junior Mint Fed 218H

415,516.00 usft 32.1385248 **Well Position** +N/-S 0.00 usft Northing: Latitude:

> +E/-W 0.00 usft 845,214.00 usft -103.3515909 Easting: Longitude:

Position Uncertainty 0.50 usft Wellhead Elevation: usft **Ground Level:** 3,220.00 usft

0.52 ° **Grid Convergence:**

Survey Tool Program Date 8/12/2025

> From То

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

0.00 22,769.48 Plan #2 (OH) MWD+HRGM+SAG+FDIR (r₁ OWSG MWD + HRGM + SAG + FDIR Correction

Expierimental: Summary Highlights: Junior Mint Fed 218H

At 5,200.00 MD, Junior Mint Fed 158H - OH - Plan #2 is 42.31 usft away with a 1.36 SF.

At 5,300.00 MD, Junior Mint Fed 158H - OH - Plan #2 is 42.80 usft away with a 1.36 SF.

Offset Listing								
Offset Customer - Project - Site Name			Map Coord	dinates	Geographical C	oordinates	Surfa Uncert	
Offset Well	Ground Level	KB Height	Northing	Easting	Latitude	Longitude	Site	Well
Junior Mint Fed Pad								
Junior Mint Fed 133H -	3,221.00	3,247.00	415,726.00	845,189.00	32.1391027	-103.3516655	0.00	0.50
Junior Mint Fed 134H -	3,220.00	3,247.00	415,566.00	845,189.00	32.1386629	-103.3516702	0.00	0.50
Junior Mint Fed 137H -	3,220.00	3,246.00	414,845.00	842,835.00	32.1367399	-103.3592955	0.00	0.50
Junior Mint Fed 138H -	3,220.00	3,246.00	415,541.00	845,189.00	32.1385942	-103.3516709	0.00	0.50
Junior Mint Fed 156H -	3,221.00	3,247.00	415,701.00	845,189.00	32.1390339	-103.3516662	0.00	0.50
Junior Mint Fed 158H -	3,220.00	3,246.00	415,516.00	845,189.00	32.1385255	-103.3516717	0.00	0.50
Junior Mint Fed 213H -	3,221.00	3,247.00	415,701.00	845,214.00	32.1390333	-103.3515855	0.00	0.50
Junior Mint Fed 214H -	3,220.00	3,246.00	415,541.00	845,214.00	32.1385936	-103.3515902	0.00	0.50
Junior Mint Fed 216H -	3,222.00	3,248.00	415,751.00	845,189.00	32.1391714	-103.3516647	0.00	0.50
Junior Mint Fed 223H -	3,222.00	3,248.00	415,751.00	845,214.00	32.1391707	-103.3515840	0.00	0.50
Junior Mint Fed 224H -	3,222.00	3,248.00	415,566.00	845,214.00	32.1386623	-103.3515894	0.00	0.50

Summary						
	Reference	Offset	Dist	ance		
	Measured	Measured	Between	Between	Separation	Warning
Site Name	Depth	Depth	Centres	Ellipses	Factor	
Offset Well - Wellbore - Design	(usft)	(usft)	(usft)	(usft)		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН Plan #2 Reference Design:

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

Summary						
	Reference	Offset	Dista	nce		
	Measured	Measured	Between	Between	Separation	Warning
Site Name	Depth	Depth	Centres	Ellipses	Factor	
Offset Well - Wellbore - Design	(usft)	(usft)	(usft)	(usft)		
Junior Mint Fed Pad						
Junior Mint Fed 133H - OH - Plan #2	300.00	301.00	211.48	207.52	53.33	CC
Junior Mint Fed 133H - OH - Plan #2	400.00	400.99	212.02	207.35	45.39	ES
Junior Mint Fed 133H - OH - Plan #2	22,770.20	22,387.52	1,675.00	1,377.23	5.63	SF
Junior Mint Fed 134H - OH - Plan #2	300.00	301.00	55.90	51.94	14.12	CC, ES
Junior Mint Fed 134H - OH - Plan #2	22,763.36	22,335.19	990.68	705.79	3.48	SF
Junior Mint Fed 137H - OH - Plan 2	5,477.70	6,025.48	2,341.50	2,311.75	78.73	CC
Junior Mint Fed 137H - OH - Plan 2	22,770.20	22,512.84	2,380.28	2,090.58	8.22	ES, SF
Junior Mint Fed 138H - OH - Plan #2	300.00	300.00	35.36	31.39	8.92	CC, ES
Junior Mint Fed 138H - OH - Plan #2	22,763.89	22,385.14	436.70	230.95	2.12	SF
Junior Mint Fed 156H - OH - Plan #2	718.07	730.51	180.35	173.88	27.85	CC, ES
Junior Mint Fed 156H - OH - Plan #2	22,770.20	21,918.86	1,676.10	1,405.07	6.18	SF
Junior Mint Fed 158H - OH - Plan #2	300.00	300.00	25.00	21.04	6.31	
Junior Mint Fed 158H - OH - Plan #2	5,200.00	5,203.12	42.31	11.20		Collision Avoidance Req., ES
Junior Mint Fed 158H - OH - Plan #2	5,300.00	5,303.09	42.80	11.22		Collision Avoidance Req., SF
Junior Mint Fed 213H - OH - Plan #2	300.00	301.00	185.00	181.03	46.65	
Junior Mint Fed 213H - OH - Plan #2	867.67	880.64	186.13	179.01	26.12	
Junior Mint Fed 213H - OH - Plan #2	22,770.20	22,830.04	1,980.37	1,678.81	6.57	
Junior Mint Fed 214H - OH - Plan #2	530.37	530.82	24.72	19.28	4.54	
Junior Mint Fed 214H - OH - Plan #2	600.00	600.44	24.94	19.11	4.28	
Junior Mint Fed 214H - OH - Plan #2	22,766.62	22,705.24	659.47	359.88	2.20	SF
Junior Mint Fed 216H - OH - Plan #2	300.00	302.00	236.33	232.36	59.54	
Junior Mint Fed 216H - OH - Plan #2	400.00	401.99	236.85	232.17	50.68	
Junior Mint Fed 216H - OH - Plan #2	22,770.20	22,719.79	1,268.88	966.34	4.19	
Junior Mint Fed 223H - OH - Plan #2	300.00	302.00	235.00	231.03	59.21	
Junior Mint Fed 223H - OH - Plan #2	400.00	401.99	235.39	230.72	50.44	
Junior Mint Fed 223H - OH - Plan #2	22,770.20	23,139.21	1,700.19	1,405.20	5.76	
Junior Mint Fed 224H - OH - Plan #2	300.00	302.00	50.00	46.03	12.60	
Junior Mint Fed 224H - OH - Plan #2	400.00	401.99	50.40	45.73	10.80	
Junior Mint Fed 224H - OH - Plan #2	22,770.20	23,106.58	486.96	264.00	2.18	SF

													Offset Site Error:	0.00 usft
Survey Progr Refe		+MWD+HRGM • Off			laior Axis		Offset Wellb	ana Camtua	Die	Rule Assig	gned:		Offset Well Error:	0.50 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellb	ore Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	·	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	1.00	0.00	0.50	0.50	-6.79	210.00	-25.00	211.48					
100.00	100.00	101.00	100.00	0.98	0.99	-6.79	210.00	-25.00	211.48	209.52	1.97	107.480		
200.00	200.00	201.00	200.00	1.56	1.57	-6.79	210.00	-25.00	211.48	208.36	3.13	67.644		
300.00	300.00	301.00	300.00	1.98	1.98	-6.79	210.00	-25.00	211.48	207.52	3.97	53.327	CC	
400.00	399.99	400.99	399.99	2.41	2.33	-114.30	210.00	-25.00	212.02	207.35	4.67	45.392	ES	
500.00	499.91	500.91	499.91	2.78	2.64	-115.24	210.00	-25.00	213.66	208.38	5.29	40.422		
600.00	599.69	600.69	599.69	3.11	2.91	-116.77	210.00	-25.00	216.54	210.69	5.85	37.029		
700.00	699.27	700.28	699.28	3.42	3.16	-118.82	210.00	-25.00	220.82	214.44	6.37	34.639		
800.00	798.57	803.62	802.61	3.71	3.46	-121.72	208.84	-25.79	225.85	218.95	6.90	32.722		
900.00	897.62	906.31	905.21	3.84	3.72	-125.46	205.39	-28.13	230.94	223.66	7.28	31.743		
1,000.00	996.65	1,008.46	1,007.13	4.07	3.95	-129.60	199.71	-32.00	235.54	227.82	7.72	30.492		
1,100.00	1,095.67	1,107.60	1,105.90	4.29	4.06	-133.83	192.63	-36.81	240.35	232.28	8.07	29.784		
1,200.00	1,194.70	1,205.90	1,203.82	4.51	4.24	-137.87	185.54	-41.63	246.41	237.92	8.49	29.027		
1,300.00	1,293.73	1,304.98	1,302.49	4.73	4.35	-141.81	178.12	-46.74	253.56	244.75	8.81	28.773		
1,400.00	1,392.75	1,404.08	1,400.94	4.95	4.58	-146.01	169.02	-53.40	261.52	252.28	9.24	28.315		

Anticollision Report

TVD Reference:

MD Reference:

Local Co-ordinate Reference:



Company: Civitas Resources

Project: Lea County, NM (NAD 83)

Plan #2

Reference Site: Junior Mint Fed Pad
Site Error: 0.00 usft

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft
Reference Wellbore OH

Reference Design:

0.00 usft North Reference:
Junior Mint Fed 218H Survey Calculation Method:

50 usft Output errors are at Database:

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

Well Junior Mint Fed 218H

Minimum Curvature

2.00 sigma

GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB)

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 133H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Progr	ram: 0-N	MWD+HRGM+	-SAG+FDIR (rev.5)						Rule Assi	gned:		Offset Well Error:	0.50 us
Refer	rence	Off	set	Semi N	lajor Axis		Offset Wellbe	ore Centre		tance				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S	. = / 14/	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface	(usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
						(°)	158.16	-61.71		260.96		20.024		
1,500.00	1,491.78	1,502.21	1,498.11	5.17	4.81	-150.44			270.61		9.65	28.031		
1,600.00	1,590.81	1,599.31	1,593.93	5.38	4.92	-154.97	145.82	-71.40	281.26	271.27	9.99	28.165		
1,700.00	1,689.83	1,696.15	1,689.45	5.59	5.11	-159.22	133.27	-81.29	293.62	283.21	10.41	28.206		
1,800.00	1,788.86	1,793.00	1,784.97	5.80	5.30	-163.11	120.72	-91.18	307.50	296.67	10.83	28.384		
1,900.00	1,887.89	1,889.84	1,880.48	6.01	5.49	-166.67	108.17	-101.07	322.72	311.46	11.26	28.667		
2,000.00	1,986.91	1,986.69	1,976.00	6.22	5.68	-169.91	95.62	-110.96	339.09	327.41	11.68	29.029		
2,100.00	2,085.94	2,083.53	2,071.52	6.43	5.87	-172.86	83.07	-120.85	356.45	344.34	12.10	29.449		
2,200.00	2,184.97	2,180.38	2,167.04	6.64	6.06	-175.53	70.52	-130.75	374.66	362.14	12.53	29.911		
2,300.00	2,283.86	2,277.04	2,262.37	6.84	6.25	-178.29	58.00	-140.62	394.53	381.60	12.93	30.508		
2,400.00	2,382.33	2,373.15	2,357.17	7.08	6.44	179.22	45.54	-150.43	417.56	404.17	13.39	31.193		
2,500.00	2,480.31	2,468.65	2,451.36	7.32	6.63	177.04	33.17	-160.19	443.63	429.79	13.84	32.057		
2,600.00	2,577.74	2,563.47	2,544.88	7.57	6.82	175.14	20.88	-169.87	472.63	458.34	14.29	33.075		
2,700.00	2,674.78	2,657.81	2,637.93	7.79	7.01	173.65	8.65	-179.51	503.55	488.86	14.69	34.279		
2,800.00	2,771.81	2,752.15	2,730.97	8.06	7.22	172.35	-3.57	-189.14	534.77	519.65	15.11	35.387		
2,900.00	2,868.84	2,846.49	2,824.02	8.35	7.43	171.20	-15.80	-198.78	566.20	550.67	15.54	36.440		
3,000.00	2,965.87	2,940.83	2,917.06	8.65	7.65	170.16	-28.02	-208.41	597.83	581.86	15.97	37.445		
3,100.00	3,062.90	3,035.16	3,010.11	8.95	7.87	169.23	-40.25	-218.05	629.61	613.22	16.39	38.404		
3,200.00	3,159.93	3,129.50	3,103.15	9.26	8.09	168.39	-52.47	-227.68	661.53	644.71	16.83	39.318		
3,300.00	3,256.96	3,129.30	3,196.20	9.20	8.31	167.63	-64.70	-237.32	693.57	676.32	17.26	40.190		
3,400.00	3,353.99	3,318.18	3,289.24	9.88	8.53	166.93	-76.92	-246.95	725.71	708.02	17.20	41.021		
3,500.00	3,451.02	3,412.51	3,382.29	10.20	8.75	166.29	-76.92 -89.15	-246.95	757.94	739.82	18.13	41.814		
3,600.00	3,548.05	3,506.85	3,475.33	10.51	8.97	165.70	-101.37	-266.22	790.25	771.69	18.56	42.571		
3,700.00	3,645.08	3,601.19	3,568.38	10.83	9.19	165.16	-113.60	-275.86	822.62	803.62	19.00	43.293		
3,800.00	3,742.11	3,695.53	3,661.42	11.15	9.41	164.66	-125.82	-285.49	855.06	835.62	19.44	43.983		
3,900.00	3,839.14	3,789.87	3,754.47	11.47	9.63	164.20	-138.05	-295.13	887.55	867.67	19.88	44.643		
4,000.00	3,936.17	3,884.20	3,847.51	11.79	9.85	163.77	-150.27	-304.76	920.09	899.77	20.32	45.273		
4,100.00	4,033.20	3,978.54	3,940.56	12.11	10.07	163.37	-162.50	-314.40	952.68	931.91	20.77	45.877		
4,200.00	4,130.23	4,072.88	4,033.60	12.43	10.30	162.99	-174.72	-324.03	985.30	964.09	21.21	46.455		
4,300.00	4,227.26	4,167.22	4,126.65	12.76	10.52	162.64	-186.95	-333.67	1,017.96	996.30	21.65	47.008		
4,400.00	4,324.29	4,261.56	4,219.69	13.08	10.74	162.31	-199.17	-343.30	1,050.65	1,028.55	22.10	47.539		
4,500.00	4,421.32	4,355.89	4,312.74	13.40	10.97	162.00	-211.40	-352.94	1,083.37	1,060.82	22.55	48.048		
4,600.00	4,518.35	4,450.23	4,405.78	13.73	11.19	161.71	-223.62	-362.57	1,116.11	1,093.12	23.00	48.537		
4,700.00	4,615.38	4,544.57	4,498.83	14.06	11.41	161.43	-235.85	-372.21	1,148.88	1,125.44	23.44	49.006		
4,800.00	4,712.41	4,638.91	4,591.87	14.38	11.64	161.17	-248.07	-381.84	1,181.68	1,157.78	23.89	49.456		
4,900.00	4,809.44	4,733.24	4,684.92	14.71	11.86	160.93	-260.30	-391.48	1,214.49	1,190.15	24.34	49.890		
5,000.00	4,906.47	4,827.58	4,777.96	15.04	12.08	160.70	-272.52	-401.11	1,247.32	1,222.53	24.79	50.307		
5,100.00	5,003.50	4,921.92	4,871.01	15.36	12.31	160.47	-284.75	-410.75	1,280.17	1,254.93	25.25	50.708		
5,200.00	5,100.53	5,016.26	4,964.05	15.69	12.53	160.27	-296.98	-420.38	1,313.04	1,287.34	25.70	51.095		
5,300.00	5,197.56	5,110.60	5,057.09	16.02	12.76	160.07	-309.20	-430.02	1,345.92	1,319.77	26.15	51.467		
5,400.00	5,294.59	5,204.93	5,150.14	16.35	12.98	159.88	-321.43	-439.65	1,378.82	1,352.21	26.60	51.826		
5,500.00	5,391.62	5,299.27	5,243.18	16.68	13.20	159.69	-333.65	-449.29	1,411.73	1,384.67	27.06	52.172		
5,600.00	5,488.65	5,405.73	5,348.23	17.01	13.42	159.51	-347.19	-459.96	1,444.49	1,416.95	27.53	52.465		
5,700.00	5,585.68	5,531.50	5,472.84	17.34	13.69	159.41	-360.60	-470.53	1,475.62	1,447.53	28.10	52.519		
5,800.00	5,682.71	5,659.02	5,599.68	17.67	13.91	159.44	-370.90	-478.65	1,504.74	1,476.11	28.63	52.562		
5,900.00	5,779.92	5,788.29	5,728.63	17.97	14.10	159.69	-377.94	-484.19	1,531.11	1,502.01	29.10	52.610		
6,000.00	5,877.69	5,919.53	5,859.78	18.27	14.24	160.03	-381.58	-487.06	1,553.06	1,523.52	29.54	52.573		
6,100.00	5,975.98	6,035.73	5,975.98	18.54	14.30	160.38	-382.07	-487.45	1,570.71	1,540.88	29.84	52.643		
6,200.00	6,074.72	6,134.47	6,074.72	18.77	14.33	160.64	-382.07	-487.45	1,585.66	1,555.57	30.09	52.704		
6,300.00	6,173.83	6,233.59	6,173.83	18.98	14.36	160.86	-382.07	-487.45	1,598.17	1,567.85	30.33	52.699		
6,400.00	6,273.26	6,333.02	6,273.26	19.16	14.40	161.04	-382.07	-487.45	1,608.24	1,577.68	30.56	52.631		
6,500.00	6,372.94	6,432.69	6,372.94	19.31	14.43	161.17	-382.07	-487.45	1,615.84	1,585.07	30.78	52.503		
6,600.00	6,472.79	6,532.54	6,472.79	19.42	14.47	161.25	-382.07	-487.45	1,620.98	1,589.99	30.98	52.321		

Anticollision Report

TVD Reference:

MD Reference:

North Reference:

Local Co-ordinate Reference:



Company: Civitas Resources

Project: Lea County, NM (NAD 83)
Reference Site: Junior Mint Fed Pad

Plan #2

Site Error: 0.00 usft

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft
Reference Wellbore OH

Reference Design:

Junior Mint Fed 218H Survey Calculation Method: Minimum Curvature 0.50 usft Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Well Junior Mint Fed 218H

GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB)

Offset TVD Reference: Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 133H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Purple P	Survoy Progr	ram: 0-1	MWD+HRGM+	SAG+FDIR ((rev.5)						Pulo Acci	anod:		Offset Well Error:	0.50 usft
								Offset Wellbo	ore Centre	Dis		gneu.		Oliset Well Litor.	0.00 0310
					Reference	Offset								Warning	
1,000 0,87274 0,872 0,872 0,872 0,872 1,982 14.09 14.59 0,982 14.07 14.07 15.09 1.00													Factor		
Mathematical Section															
1,000															
1,000						14.58				1,624.04					
1,000	7,000.00			6,872.74	19.62	14.61	-90.41	-382.07		1,624.04	1,592.65	31.39	51.742		
7,300.00 7,717.74 7,232.50 7,717.74 19.74 19.75	7,100.00	6,972.74	7,032.50	6,972.74	19.66	14.65	-90.41	-382.07	-487.45	1,624.04	1,592.58	31.46	51.622		
	7,200.00	7,072.74	7,132.50	7,072.74	19.70	14.69	-90.41	-382.07	-487.45	1,624.04	1,592.51	31.53	51.501		
1,500.00 7,777.4 7,532.0 7,777.4 1,81 1,84 4	7,300.00	7,172.74	7,232.50	7,172.74	19.74	14.73	-90.41	-382.07	-487.45	1,624.04	1,592.43	31.61	51.379		
1,760.00 7,472,4 7,532,50 7,472,74 19.85 14.84 39.04 38.07 487.45 1,762.04 1,592.05 31.94 51.011	7,400.00	7,272.74	7,332.50	7,272.74	19.77	14.76	-90.41	-382.07	-487.45	1,624.04	1,592.36	31.68	51.256		
1,700.00 7,672.74 7,832.50 7,572.74 19.89 14.88 90.41 382.07 487.45 1,824.04 1,582.13 31.99 50.763	7,500.00	7,372.74	7,432.50	7,372.74	19.81	14.80	-90.41	-382.07	-487.45	1,624.04	1,592.28	31.76	51.134		
7,800.00 7,872.74 7,732.50 7,872.74 19.93 14.92 40.41 382.07 487.45 1,624.04 1,591.07 32.07 50.58 7,900.00 7,772.74 7,832.50 7,772.74 19.97 14.96 40.41 382.07 487.45 1,624.04 1,591.07 32.07 50.58 8,100.00 7,972.74 8,032.50 8,072.74 20.05 15.04 40.41 382.07 487.45 1,624.04 1,591.07 32.23 50.38 8,000.00 8,772.74 8,132.50 8,072.74 20.05 15.04 40.41 382.07 487.45 1,624.04 1,591.07 32.21 50.38 8,400.00 8,772.74 8,323.50 8,772.74 20.14 15.13 40.41 382.07 487.45 1,624.04 1,591.07 32.21 50.38 8,400.00 8,772.74 8,323.50 8,772.74 20.15 15.17 40.41 382.07 487.45 1,624.04 1,591.05 32.39 50.196 8,400.00 8,772.74 8,323.50 8,772.74 20.15 15.17 40.41 382.07 487.45 1,624.04 1,591.05 32.39 50.196 8,400.00 8,472.74 8,323.50 8,772.74 20.15 15.17 40.41 382.07 487.45 1,624.04 1,591.05 32.39 50.196 8,600.00 8,472.74 8,323.50 8,772.74 20.25 15.21 40.41 382.07 487.45 1,624.04 1,591.05 32.69 40.88 8,600.00 8,472.74 8,323.50 8,772.74 20.35 15.34 40.41 382.07 487.45 1,624.04 1,591.03 32.61 40.89 83 8,600.00 8,772.74 8,323.50 8,772.74 20.35 15.34 40.41 382.07 487.45 1,624.04 1,591.03 32.61 40.80 80.00 8,772.74 8,832.50 8,872.74 20.35 15.34 40.41 382.07 487.45 1,624.04 1,591.03 32.61 40.62 40 40.60 80.00 8,772.74 8,832.50 8,872.74 20.35 15.34 40.41 382.07 487.45 1,624.04 1,591.23 32.81 40.50 2 40.00 8,772.74 8,772.74 8,772.74 20.35 15.34 40.41 382.07 487.45 1,624.04 1,591.23 32.81 40.50 2 40.00 8,772.74 8,772.74 8,772.74 20.35 15.34 40.41 382.07 487.45 1,624.04 1,591.23 32.81 40.50 2 40.00 8,772.74 8,772.74 8,772.74 20.35 15.34 40.41 382.07 487.45 1,624.04 1,591.23 32.81 40.50 2 40.00 8,772.74 8,772.74 8,772.74 20.35 15.34 40.41 382.07 487.45 1,624.04 1,591.23 32.81 40.50 2 40.00 8,772.74 8,772.74 8,772.74 20.35 15.35 40.41 382.07 487.45 1,624.04 1,590.03 33.04 49.84 9.00 8,772.74 8,772.74 8,772.74 20.55 15.55 40.41 382.07 487.45 1,624.04 1,590.03 33.04 49.84 9.00 8,772.74 8,772.74 8,772.74 20.05 15.25 40.41 382.07 487.45 1,624.04 1,590.03 33.31 48.50 4.26 4.26 4.26 4.26 4.26 4.26 4.26 4.26	7,600.00	7,472.74	7,532.50	7,472.74	19.85	14.84	-90.41	-382.07	-487.45	1,624.04	1,592.20	31.84	51.011		
1,500.00 7,772.74 7,832.50 7,772.74 19.97 14.98 90.41 382.07 487.45 1,824.04 1,591.97 30.07 50.688 50.000 7,572.74 80.32.50 7,572.74 20.10 15.00 90.41 382.07 487.45 1,824.04 1,591.81 32.23 50.388 82.000 8,772.74 80.32.50 8,772.74 20.14 15.13 90.41 382.07 487.45 1,824.04 1,591.81 32.23 50.388 8.000 8,772.74 80.32.50 8,772.74 20.14 15.13 90.41 382.07 487.45 1,824.04 1,591.87 32.23 50.388 8.000 8,772.74 8,322.50 8,772.74 20.18 15.17 90.41 382.07 487.45 1,824.04 1,591.57 32.47 50.010 8.000 8,772.74 8,322.50 8,772.74 20.18 15.17 90.41 382.07 487.45 1,824.04 1,591.57 32.47 50.010 8.000 8,772.74 8,322.50 8,772.74 20.36 15.26 90.41 382.07 487.45 1,824.04 1,591.57 32.47 90.010 8.000 8,772.74 8,322.50 8,772.74 20.36 15.26 90.41 382.07 487.45 1,824.04 1,591.40 32.56 49.883 30.80 49.185 30.80 49.883 49.774 40.000 48.772.74 8,322.50 8,772.74 20.35 15.34 90.41 382.07 487.45 1,824.04 1,591.23 32.21 49.502 49.500 49.500 49.500 49.772.74 49.82.50 49.772.74 49.772.74 49.82.50 49.772.74 49.772.74 49.772.74 49.772.74 49.772.74 49.772.74 49.772.74 49.772.74 49.772.74 49.772.74 49.772.74 49.772.74 49.772.74 49.772.74 49.772.74 49.772.74	7,700.00	7,572.74	7,632.50	7,572.74	19.89	14.88	-90.41	-382.07	-487.45	1,624.04	1,592.13	31.91	50.887		
BODOLO 7877.74 7832.90 7877.74 20.01 15.00 40.041 382.07 487.85 1824.04 1.591.83 32.15 50.513 BODOLO 8.072.74 8.132.50 8.072.74 20.10 15.08 40.041 382.07 487.85 1.824.04 1.591.73 32.31 50.282 BODOLO 8.072.74 8.132.50 8.072.74 20.10 15.08 40.041 382.07 487.85 1.824.04 1.591.73 32.31 50.282 BODOLO 8.072.74 8.322.50 8.172.74 20.14 15.13 40.041 382.07 487.85 1.824.04 1.591.57 32.47 50.010 B.500.00 8.372.74 8.322.50 8.372.74 20.22 15.21 40.041 382.07 487.85 1.824.04 1.591.65 32.59 50.138 B.500.00 8.372.74 8.322.50 8.372.74 20.22 15.21 40.041 382.07 487.85 1.824.04 1.591.65 32.56 49.83 B.500.00 8.572.74 8.532.50 8.572.74 20.30 15.30 40.041 382.07 487.85 1.824.04 1.591.65 32.59 49.83 B.500.00 8.572.74 8.532.50 8.572.74 20.30 15.30 40.041 382.07 487.85 1.824.04 1.591.82 32.27 48.629 B.500.00 8.572.74 8.532.50 8.572.74 20.30 15.30 40.041 382.07 487.85 1.824.04 1.591.82 32.281 49.502 B.500.00 8.572.74 8.532.50 8.572.74 20.35 15.34 49.041 382.07 487.85 1.824.04 1.591.85 32.89 49.246 B.500.00 8.572.74 8.532.50 8.572.74 20.35 15.34 49.041 382.07 487.85 1.824.04 1.591.85 32.89 49.374 B.500.00 8.572.74 8.532.50 8.572.74 20.35 15.52 40.41 382.07 487.85 1.824.04 1.591.85 32.89 49.374 B.500.00 8.727.74 8.332.50 8.727.74 20.35 15.52 40.41 382.07 487.85 1.824.04 1.590.89 33.15 48.990 B.500.00 8.727.74 8.332.50 8.727.74 20.52 15.52 40.41 382.07 487.85 1.824.04 1.590.89 33.15 48.990 B.500.00 8.727.74 8.332.50 9.727.74 20.55 15.56 40.41 382.07 487.85 1.824.04 1.590.89 33.15 48.990 B.500.00 8.727.74 8.332.50 9.727.74 20.55 15.56 40.41 382.07 487.85 1.824.04 1.590.85 33.44 48.61 B.500.00 8.72	7,800.00	7,672.74	7,732.50	7,672.74	19.93	14.92	-90.41	-382.07	-487.45	1,624.04	1,592.05	31.99	50.763		
8.000.00 8.072.74 8.032.50 7.972.74 20.05 15.04 90.41 382.07 487.45 1.824.04 1,591.81 32.23 50.388 8.000.00 8.072.74 8.032.50 8.072.74 20.10 15.08 90.41 382.07 487.45 1.824.04 1,591.85 32.39 50.388 8.000.00 8.72.74 8.032.50 8.072.74 20.18 15.17 90.41 382.07 487.45 1.824.04 1,591.85 32.39 50.138 8.000.00 8.72.74 8.032.50 8.072.74 20.18 15.17 90.41 382.07 487.45 1.824.04 1,591.85 32.39 50.138 8.000.00 8.72.74 8.032.50 8.072.74 20.26 15.25 90.41 382.07 487.45 1.824.04 1,591.85 32.39 50.138 8.000.00 8.72.74 8.032.50 8.072.74 20.26 15.25 90.41 382.07 487.45 1.824.04 1,591.80 32.84 497.55 8.000.00 8.72.74 8.032.50 8.072.74 20.26 15.25 90.41 382.07 487.45 1.824.04 1,591.80 32.84 497.55 8.000.00 8.72.74 8.032.50 8.072.74 20.35 15.34 90.41 382.07 487.45 1.824.04 1,591.83 32.81 49.92 8.000.00 8.72.74 8.725.00 8.727.74 20.35 15.34 90.41 382.07 487.45 1.824.04 1,591.83 32.81 49.92 8.000.00 8.727.74 8.032.50 8.727.74 20.35 15.34 90.41 382.07 487.45 1.824.04 1,591.83 32.81 49.92 9.000.00 8.727.74 9.032.50 8.727.74 20.35 15.34 90.41 382.07 487.45 1.824.04 1,591.83 32.81 49.92 9.000.00 8.727.74 9.032.50 8.727.4 20.43 15.43 90.41 382.07 487.45 1.824.04 1,591.83 32.81 49.92 9.000.00 8.727.74 9.032.50 8.727.4 20.45 15.43 90.41 382.07 487.45 1.824.04 1.591.08 33.15 48.990 9.000.00 8.727.74 9.032.50 8.727.4 20.43 15.43 90.41 382.07 487.45 1.824.04 1.591.08 33.15 48.990 9.000.00 8.727.74 9.032.50 8.727.4 20.45 15.52 90.41 382.07 487.45 1.824.04 1.590.89 33.15 48.990 9.000.00 8.727.74 9.032.50 8.727.4 20.55 15.52 90.41 382.07 487.45 1.824.04 1.590.89 33.15 48.990 9.000.00 8.727.74 9.032.50 8.727.4 20.55 15.52 90.41 382.07 487.45 1.824.04 1.590.89 33.15 48.990 9.000.00 8.727.4 9.032.50 8.727.4 20.55 15.52 90.41 382.07 487.45 1.824.04 1.590.89 33.15 48.990 9.000.00 8.727.4 9.032.50 8.727.4 20.55 15.52 90.41 382.07 487.45 1.824.04 1.590.89 33.15 48.990 9.000.00 8.727.4 9.032.50 8.727.4 20.55 15.52 90.41 3.322.07 487.45 1.824.04 1.590.89 33.15 48.990 9.000.00 8.727.4 9.032.50 8.727.4 20.55 15.52 90.41 3.322.07 487.45 1.824.04 1.590.89 33	7,900.00	7,772.74	7,832.50	7,772.74	19.97	14.96	-90.41	-382.07	-487.45	1,624.04	1,591.97	32.07	50.638		
8,200.00 8,772.74 8,132.50 8,772.74 20,10 15,08 90,41 382.07 487.45 1,624.04 1,591.73 32,31 50,292	8,000.00	7,872.74	7,932.50	7,872.74	20.01	15.00	-90.41	-382.07	-487.45	1,624.04	1,591.89	32.15	50.513		
8,0000 8,172.74 8,232.50 8,172.74 20.14 15.13 -90.41 -382.07 -487.45 1,824.04 1,591.65 32.39 50.198 8,0000 8,272.74 8,333.50 8,272.74 20.18 15.17 -90.41 -382.07 -487.45 1,824.04 1,591.65 32.39 50.198 8,0000 8,472.74 8,632.50 8,472.74 20.26 15.25 90.41 -382.07 -487.45 1,824.04 1,591.63 32.64 497.65 8,000.00 8,472.74 8,632.50 8,472.74 20.26 15.25 90.41 -382.07 -487.45 1,824.04 1,591.40 32.64 497.65 8,000.00 8,72.74 8,632.50 8,472.74 20.26 15.25 90.41 -382.07 -487.45 1,824.04 1,591.32 32.72 49.620 8,000.00 8,72.74 8,72.74 8,000.00 8,000.00 8,72.74 8,000.00 8,000.00 8,72.74 8,000.00 8,000.00 8,72.74 8,000.00 8,000.00 8,72.74 8,000.00 8,000.00 8,72.74 8,000.00 8,	8,100.00	7,972.74	8,032.50	7,972.74	20.05	15.04	-90.41	-382.07	-487.45	1,624.04	1,591.81	32.23	50.388		
8.400.00 8.272.74 8.332.50 8.727.74 20.28 15.17 70.41 382.07 487.45 1.624.04 1.591.57 32.47 50.010 8.600.00 8.727.4 8.532.50 8.727.4 20.28 15.25 49.41 382.07 487.45 1.624.04 1.591.40 32.64 49.766 8.700.00 8.772.74 8.332.50 8.727.4 20.30 15.30 49.41 382.07 487.45 1.624.04 1.591.40 32.64 49.766 8.700.00 8.772.74 8.332.50 8.772.74 20.35 15.34 49.41 382.07 487.45 1.624.04 1.591.33 32.81 49.502 49.500 8.772.74 8.332.50 8.772.74 20.39 15.38 49.41 382.07 487.45 1.624.04 1.591.63 32.89 49.502 49.700 49.700.00 8.772.74 8.332.50 8.772.74 20.39 15.38 49.41 382.07 487.45 1.624.04 1.591.65 32.89 49.502 49.600 49.700.00 49.72.74 9.332.50 8.772.74 20.52 15.52 49.41 382.07 487.45 1.624.04 1.591.60 32.98 49.246 49.700 49.700.00 49.72.74 9.332.50 9.772.74 20.52 15.52 49.41 382.07 487.45 1.624.04 1.591.60 33.06 49.118 49.600 49.700.00 49.72.74 9.332.50 9.772.74 20.55 15.61 49.41 382.07 487.45 1.624.04 1.590.80 33.15 48.990 49.600 49.72.74 9.332.50 9.772.74 20.65 15.66 49.41 382.07 487.45 1.624.04 1.590.80 33.15 48.990 49.600 49.72.74 9.332.50 9.772.74 20.65 15.66 49.41 382.07 487.45 1.624.04 1.590.80 33.34 48.604 48.75 49.600 49.72.74 9.332.50 9.772.74 20.65 15.66 49.41 382.07 487.45 1.624.04 1.590.80 33.54 48.861 48.75 49.600 49.72.74 9.332.50 9.772.74 20.65 15.66 49.41 382.07 487.45 1.624.04 1.590.80 33.54 48.604 48.75 49.600 49.72.74 9.332.50 9.772.74 20.65 15.66 49.41 382.07 487.45 1.624.04 1.590.80 33.54 48.75 49.600 49.72.74 49.72.50 9.72.74 20.65 15.66 49.41 382.07 487.45 1.624.04 1.590.80 33.54 48.75 49.600 49.72.74 49.72.50 9.72.74 20.65 15.66 49.41 382.07 487.45 1.624.04 1.590.80 33.54 48.75 49.6	8,200.00	8,072.74	8,132.50	8,072.74	20.10	15.08	-90.41	-382.07	-487.45	1,624.04	1,591.73	32.31	50.262		
8,0000 8,372,74 8,032,50 8,372,74 20,22 15,21 -90,41 382,07 487,45 1,624,04 1,591,49 32,56 49,883 8,000 8,772,74 8,032,50 8,772,74 20,35 15,30 90,41 382,07 487,45 1,624,04 1,591,32 32,72 49,629 8,000 8,772,74 8,000 8,772,74 20,35 15,34 90,41 382,07 487,45 1,624,04 1,591,32 32,71 49,629 8,000 8,772,74 8,000 8,772,74 20,39 15,38 90,41 382,07 487,45 1,624,04 1,591,32 32,81 49,502 8,000 8,772,74 9,032,50 8,072,74 20,39 15,38 90,41 382,07 487,45 1,624,04 1,591,35 32,89 49,374 9,000 9,000 9,772,74 9,032,50 8,000 1,00	8,300.00	8,172.74	8,232.50	8,172.74	20.14	15.13	-90.41	-382.07	-487.45	1,624.04	1,591.65	32.39	50.136		
8,000 8,472,74 8,532,50 8,472,74 20,26 15,25 -90,41 -382,07 -487,45 1,624,04 1,591,30 32,64 49,756 8,700,00 8,727,4 8,732,50 8,772,74 20,35 15,34 -90,41 -382,07 -487,45 1,624,04 1,591,32 32,72 49,829 8,900,00 8,772,74 8,732,50 8,772,74 20,35 15,34 -90,41 -382,07 -487,45 1,624,04 1,591,35 32,89 49,374 9,000,00 8,772,74 8,732,50 8,772,74 20,33 15,38 -80,41 -382,07 -487,45 1,624,04 1,591,16 32,89 49,374 9,000,00 8,772,74 9,322,50 8,772,74 20,45 15,43 -80,41 -382,07 -487,45 1,624,04 1,590,16 32,98 49,246 49,100,100 1,700,172,74 9,132,50 8,772,74 20,52 15,52 -80,41 -382,07 -487,45 1,624,04 1,590,86 33,15 48,990 48,100,100 1,772,74 9,322,50 9,727,74 20,56 15,56 -80,41 -382,07 -487,45 1,624,04 1,590,80 33,15 48,890 48,745 48,900 48,000 9,727,74 9,322,50 9,727,74 20,56 15,56 -80,41 -382,07 -487,45 1,624,04 1,590,80 33,14 48,804 48,000 9,727,74 9,322,50 9,727,74 20,56 15,65 -80,41 -382,07 -487,45 1,624,04 1,590,80 33,34 48,732 48,732 48,700 48,745 4	8,400.00	8,272.74	8,332.50	8,272.74	20.18	15.17	-90.41	-382.07	-487.45	1,624.04	1,591.57	32.47	50.010		
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11,000.00 10,872.74 10,932.50 10,872.74 21.34 16.37 -90.41 -382.07 -487.45 1,624.04 1,589.24 34.80 46.662 11,100.00 10,972.74 11,032.50 10,972.74 21.39 16.42 -90.41 -382.07 -487.45 1,624.04 1,589.14 34.90 46.532 11,200.00 11,072.74 11,132.50 11,072.74 21.44 16.47 -90.41 -382.07 -487.45 1,624.04 1,589.04 35.00 46.403 11,300.00 11,172.74 11,232.50 11,172.74 21.49 16.52 -90.41 -382.07 -487.45 1,624.04 1,588.95 35.10 46.273 11,400.00 11,272.74 11,332.50 11,272.74 21.53 16.58 -90.41 -382.07 -487.45 1,624.04 1,588.95 35.10 46.273 11,500.00 11,372.74 11,332.50 11,372.74 21.58 16.63 -90.41 -382.07 -487.45 1,624.04 1,588.95 35.19 46.144 11,600.00 11,472.74 11,332.50 11,372.74															
11,100.00 10,972.74 11,032.50 10,972.74 21.39 16.42 -90.41 -382.07 -487.45 1,624.04 1,589.14 34.90 46.532 11,200.00 11,072.74 11,132.50 11,072.74 21.44 16.47 -90.41 -382.07 -487.45 1,624.04 1,589.04 35.00 46.403 11,300.00 11,172.74 11,232.50 11,172.74 21.49 16.52 -90.41 -382.07 -487.45 1,624.04 1,588.95 35.10 46.273 11,400.00 11,272.74 11,332.50 11,272.74 21.53 16.58 -90.41 -382.07 -487.45 1,624.04 1,588.85 35.19 46.144 11,500.00 11,372.74 11,402.00 11,372.74 21.58 16.63 -90.41 -382.07 -487.45 1,624.04 1,588.75 35.29 46.015 11,600.00 11,472.74 11,532.50 11,472.74 21.63 16.67 -90.41 -382.07 -487.45 1,624.04 1,588.66 35.39 45.896	11,000.00														
11,200.00 11,072.74 11,132.50 11,072.74 21.44 16.47 -90.41 -382.07 -487.45 1,624.04 1,589.04 35.00 46.403 11,300.00 11,172.74 11,232.50 11,172.74 21.49 16.52 -90.41 -382.07 -487.45 1,624.04 1,588.95 35.10 46.273 11,400.00 11,272.74 11,332.50 11,272.74 21.53 16.58 -90.41 -382.07 -487.45 1,624.04 1,588.85 35.19 46.144 11,500.00 11,372.74 11,432.50 11,372.74 21.58 16.63 -90.41 -382.07 -487.45 1,624.04 1,588.75 35.29 46.015 11,600.00 11,472.74 11,532.50 11,472.74 21.63 16.67 -90.41 -382.07 -487.45 1,624.04 1,588.66 35.39 45.896															
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11,400.00 11,272.74 11,332.50 11,272.74 21.53 16.58 -90.41 -382.07 -487.45 1,624.04 1,588.85 35.19 46.144 11,500.00 11,372.74 11,402.50 11,372.74 21.58 16.63 -90.41 -382.07 -487.45 1,624.04 1,588.75 35.29 46.015 11,600.00 11,472.74 11,532.50 11,472.74 21.63 16.67 -90.41 -382.07 -487.45 1,624.04 1,588.66 35.39 45.896	11,300.00	11,172.74	11,232.50	11,172.74	21.49	16.52	-90.41	-382.07	-487.45	1,624.04	1,588.95	35.10	46.273		
11,500.00 11,372.74 11,432.50 11,372.74 21.58 16.63 -90.41 -382.07 -487.45 1,624.04 1,588.75 35.29 46.015 11,600.00 11,472.74 11,532.50 11,472.74 21.63 16.67 -90.41 -382.07 -487.45 1,624.04 1,588.66 35.39 45.896															
11,600.00 11,472.74 11,532.50 11,472.74 21.63 16.67 -90.41 -382.07 -487.45 1,624.04 1,588.66 35.39 45.896															
11,800.00 11,672.74 11,711.79 11,650.19 21.73 16.93 -91.14 -402.64 -488.08 1,625.11 1,589.44 35.67 45.66	11,800.00	11,672.74	11,711.79	11,650.19	21.73	16.93	-91.14	-402.64	-488.08	1,625.11	1,589.44	35.67	45.566		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83)

Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

eference	Wellbore Design:	OH Plan #	<u>2</u>				Database Offset TV	'D Referenc	e:		otal Directio eference Da		IIOII DB	
ffset De	sign: ^{Juni}	or Mint Fed	l Pad - Ju	nior Mint Fe	ed 133H - O	H - Plan #2							Offset Site Error:	0.00 us
urvey Prog	ram: 0-	MWD+HRGM-	SAG+FDIR (rev 5)						Rule Assi	aned:		Offset Well Error:	0.50 us
Refe	erence	Off	set	Semi I	Major Axis		Offset Wellbo	ore Centre	Dist	tance	_			0.00 a
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
11,900.00	11,772.74	11,791.97	11,725.75	21.78	17.15	-92.07	-429.26	-488.89	1,627.19	1,591.25	35.93	45.285		
12,000.00	11,872.61	11,864.85	11,790.60	21.84	17.40	87.10	-462.38	-489.90	1,630.95	1,594.71	36.24	45.003		
12,100.00	11,970.52	11,934.92	11,848.51	21.99	17.68	85.65	-501.74	-491.11	1,636.01	1,599.34	36.67	44.619		
12,200.00	12,063.53	12,000.00	11,897.62	22.19	17.99	84.30	-544.36	-492.41	1,641.91	1,604.70	37.21	44.127		
12,300.00	12,148.80	12,070.06	11,944.72	22.45	18.40	82.98	-596.15	-493.99	1,648.22	1,610.30	37.92	43.461		
12,400.00	12,223.74	12,135.93	11,982.93	22.78	18.85	81.85	-649.73	-495.63	1,654.57	1,615.82	38.75	42.695		
12,500.00	12,286.09	12,200.00	12,013.95	23.20	19.33	80.89	-705.73	-497.34	1,660.60	1,620.91	39.69	41.839		
12,600.00	12,333.93	12,265.72	12,039.08	23.71	19.88	80.13	-766.39	-499.19	1,666.01	1,625.26	40.75	40.885		
12,700.00	12,365.83	12,330.12	12,056.80	24.31	20.47	79.59	-828.23	-501.08	1,670.56	1,628.69	41.88	39.892		
12,800.00	12,380.81	12,400.00	12,068.05	24.99	21.14	79.31	-897.13	-503.19	1,674.12	1,630.99	43.12	38.821		
12,900.00	12,382.30	12,472.93	12,071.08	25.74	21.87	79.31	-969.93	-505.35	1,677.23	1,632.76	44.47	37.718		
13,000.00	12,382.83	12,627.19	12,072.16	26.54	23.48	79.33	-1,124.18	-505.50	1,677.84	1,630.92	46.92	35.759		
13,100.00	12,383.35	12,727.19	12,072.85	27.39	24.56	79.34	-1,224.17	-504.59	1,677.81	1,629.01	48.80	34.380		
13,200.00	12,383.88	12,827.19	12,073.55	28.28	25.66	79.34	-1,324.16	-503.69	1,677.78	1,627.03	50.76	33.055		
13,300.00	12,384.40	12,927.19	12,074.25	29.20	26.80	79.35	-1,424.16	-502.78	1,677.75	1,624.98	52.78	31.790		
13,400.00	12,384.93	13,027.19	12,074.95	30.16	27.95	79.35	-1,524.15	-501.87	1,677.72	1,622.87	54.85	30.586		
13,500.00	12,385.46	13,127.19	12,075.65	31.14	29.12	79.36	-1,624.14	-500.97	1,677.69	1,620.71	56.98	29.443		
13,600.00	12,385.98	13,227.19	12,076.34	32.15	30.30	79.36	-1,724.14	-500.06	1,677.66	1,618.51	59.16	28.360		
13,700.00	12,386.51	13,327.19	12,070.04	33.18	31.50	79.37	-1,824.13	-499.15	1,677.63	1,616.26	61.37	27.335		
13,800.00	12,380.51	13,427.19	12,077.04	34.23	32.72	79.38	-1,924.13	-499.15	1,677.60	1,613.98	63.63	26.366		
13,900.00	12,387.56	13,527.19	12,077.74	35.31	33.94	79.38	-2,024.12	-490.23	1,677.57	1,611.66	65.91	25.451		
14,000.00	12,388.09	13,627.19	12,079.14	36.40	35.18	79.39	-2,124.11	-496.43	1,677.54	1,609.31	68.23	24.586		
14,100.00	12,388.61	13,727.19	12,079.84	37.51	36.42	79.39	-2,224.10	-495.52	1,677.51	1,606.94	70.58	23.769		
14,200.00	12,389.14	13,827.19	12,080.53	38.63	37.67	79.40	-2,324.10	-494.62	1,677.48	1,604.54	72.94	22.997		
14,300.00	12,389.66	13,927.19	12,081.23	39.77	38.93	79.40	-2,424.09	-493.71	1,677.45	1,602.12	75.34	22.267		
14,400.00	12,390.19	14,027.19	12,081.93	40.92	40.20	79.41	-2,524.08	-492.80	1,677.42	1,599.68	77.75	21.576		
14,500.00	12,390.71	14,127.19	12,082.63	42.08	41.47	79.42	-2,624.08	-491.90	1,677.39	1,597.22	80.18	20.921		
14,600.00	12,391.24	14,227.19	12,083.33	43.26	42.75	79.42	-2,724.07	-490.99	1,677.36	1,594.74	82.62	20.301		
14,700.00	12,391.77	14,327.19	12,084.03	44.44	44.04	79.43	-2,824.06	-490.08	1,677.33	1,592.25	85.08	19.714		
14,800.00	12,392.29	14,427.19	12,084.72	45.64	45.32	79.43	-2,924.06	-489.18	1,677.30	1,589.74	87.56	19.156		
14,900.00	12,392.82	14,527.19	12,085.42	46.84	46.62	79.44	-3,024.05	-488.27	1,677.27	1,587.22	90.05	18.626		
15,000.00	12,393.34	14,627.19	12,086.12	48.05	47.91	79.45	-3,124.04	-487.36	1,677.24	1,584.69	92.55	18.122		
15,100.00	12,393.87	14,727.19	12,086.82	49.27	49.22	79.45	-3,224.04	-486.46	1,677.21	1,582.15	95.06	17.643		
15,200.00	12,394.40	14,827.19	12,087.52	50.50	50.52	79.46	-3,324.03	-485.55	1,677.18	1,579.60	97.58	17.187		
15,300.00	12,394.40	14,927.19	12,087.32	51.73	51.83	79.46	-3,424.02	-484.64	1,677.15	1,577.04	100.12	16.752		
15,400.00	12,395.45	15,027.19	12,088.91	52.97	53.14	79.47	-3,524.02	-483.74	1,677.12	1,574.47	102.66	16.337		
15 500 00					E4 45		2 624 04							
15,500.00	12,395.97	15,127.19	12,089.61	54.21	54.45	79.47	-3,624.01	-482.83	1,677.09	1,571.89	105.20	15.941		
15,600.00	12,396.50	15,227.19	12,090.31	55.47	55.77	79.48	-3,724.00	-481.92	1,677.06	1,569.30	107.76	15.563		
15,700.00	12,397.03	15,327.19	12,091.01	56.72	57.09	79.49	-3,824.00	-481.02	1,677.03	1,566.71	110.32	15.201		
15,800.00	12,397.55	15,427.19	12,091.71	57.98	58.41	79.49	-3,923.99	-480.11	1,677.00	1,564.11	112.89	14.855		
15,900.00	12,398.08	15,527.19	12,092.40	59.25	59.73	79.50	-4,023.98	-479.20	1,676.97	1,561.51	115.47	14.523		
16,000.00	12,398.60	15,627.19	12,093.10	60.52	61.06	79.50	-4,123.98	-478.30	1,676.94	1,558.90	118.05	14.206		
16,100.00	12,399.13	15,727.19	12,093.80	61.79	62.38	79.51	-4,223.97	-477.39	1,676.92	1,556.28	120.63	13.901		
16,200.00	12,399.65	15,827.19	12,094.50	63.07	63.71	79.51	-4,323.96	-476.48	1,676.89	1,553.66	123.23	13.608		
16,300.00	12,400.18	15,927.19	12,095.20	64.35	65.04	79.52	-4,423.96	-475.58	1,676.86	1,551.03	125.82	13.327		
16,400.00	12,400.71	16,027.19	12,095.90	65.63	66.38	79.53	-4,523.95	-474.67	1,676.83	1,548.40	128.42	13.057		
16,500.00	12,401.23	16,127.19	12,096.59	66.92	67.71	79.53	-4,623.94	-473.76	1,676.80	1,545.77	131.03	12.797		
16,600.00	12,401.76	16,227.19	12,097.29	68.21	69.04	79.54	-4,723.94	-472.85	1,676.77	1,543.13	133.64	12.547		
16,700.00	12,402.28	16,327.19	12,097.99	69.51	70.38	79.54	-4,823.93	-471.95	1,676.74	1,540.49	136.25	12.307		
16,800.00	12,402.81	16,427.19	12,098.69	70.80	71.72	79.55	-4,923.92	-471.04	1,676.71	1,537.84	138.86	12.075		
16,900.00	12,403.34	16,527.18	12,099.39	72.10	73.05	79.56	-5,023.92	-470.13	1,676.68	1,535.20	141.48	11.851		
17,000.00	12,403.86	16 627 19	12 100 00	72 10	7/1 20	79.56	-5,123.91	-469.23	1 676 65	1 522 54	1/// 10	11 625		
1,000.00	12,403.86	16,627.18	12,100.08	73.40	74.39	19.00	-5,123.91	-409.23	1,676.65	1,532.54	144.10	11.635		

Anticollision Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН

Reference Design: Plan #2 Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

urvey Prog Refe	ram: 0-l erence	HRGM+ Off			lajor Axis		Offset Wellbo	re Centre	Dist	Rule Assi	gned:		Offset Well Error:	0.50 us
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	(ft)	(6 1)	Toolface	+N/-S (usft)	+E/-W (usft)	Centres	Ellipses	Separation	Factor		
(usft) 17,100.00	(usft) 12,404.39	(usft) 16,727.18	(usft) 12,100.78	(usft) 74.71	(usft) 75.74	(°) 79.57	-5,223.90	-468.32	(usft) 1.676.62	(usft) 1,529.89	(usft) 146.73	11.427		
17,100.00	12,404.91	16,827.18	12,100.76	76.01	77.08	79.57	-5,323.90	-467.41	1,676.59	1,527.23	149.36	11.225		
17,300.00	12,405.44	16,927.18	12,102.18	77.32	78.42	79.58	-5,423.89	-466.51	1,676.56	1,524.57	151.99	11.031		
17,400.00	12,405.96	17,027.18	12,102.88	78.63	79.76	79.58	-5,523.88	-465.60	1,676.53	1,521.91	154.62	10.843		
17,500.00	12,406.49	17,127.18	12,103.58	79.94	81.11	79.59	-5,623.88	-464.69	1,676.50	1,519.24	157.26	10.661		
17,600.00	12,407.02	17,227.18	12,104.27	81.26	82.45	79.60	-5,723.87	-463.79	1,676.47	1,516.58	159.89	10.485		
17,700.00	12,407.54	17,327.18	12,104.97	82.57	83.80	79.60	-5,823.86	-462.88	1,676.44	1,513.91	162.53	10.314		
17,800.00	12,408.07	17,427.18	12,105.67	83.89	85.14	79.61	-5,923.86	-461.97	1,676.41	1,511.24	165.18	10.149		
17,900.00	12,408.59	17,527.18	12,106.37	85.21	86.49	79.61	-6,023.85	-461.07	1,676.38	1,508.56	167.82	9.989		
18,000.00	12,409.12	17,627.18	12,107.07	86.53	87.84	79.62	-6,123.84	-460.16	1,676.35	1,505.89	170.47	9.834		
18,100.00	12,409.65	17,727.18	12,107.77	87.85	89.19	79.63	-6,223.84	-459.25	1,676.32	1,503.21	173.11	9.683		
18,200.00	12,410.17	17,827.18	12,108.46	89.18	90.54	79.63	-6,323.83	-458.35	1,676.29	1,500.53	175.76	9.537		
18,300.00	12,410.70	17,927.18	12,109.16	90.50	91.89	79.64	-6,423.82	-457.44	1,676.27	1,497.85	178.42	9.395		
18,400.00	12,411.22	18,027.18	12,109.86	91.83	93.24	79.64	-6,523.82	-456.53	1,676.24	1,495.17	181.07	9.257		
18,500.00	12,411.75	18,127.18	12,110.56	93.15	94.59	79.65	-6,623.81	-455.63	1,676.21	1,492.48	183.72	9.124		
18,600.00	12,412.27	18,227.18	12,111.26	94.48	95.94	79.65	-6,723.80	-454.72	1,676.18	1,489.80	186.38	8.993		
18,700.00	12,412.80	18,327.18	12,111.96	95.81	97.29	79.66	-6,823.80	-453.81	1,676.15	1,487.11	189.04	8.867		
18,800.00	12,413.33	18,427.18	12,112.65	97.14	98.65	79.67	-6,923.79	-452.90	1,676.12	1,484.42	191.69	8.744		
18,900.00	12,413.85	18,527.18	12,113.35	98.47	100.00	79.67	-7,023.78	-452.00	1,676.09	1,481.74	194.35	8.624		
19,000.00	12,414.38	18,627.18	12,114.05	99.81	101.35	79.68	-7,123.78	-451.09	1,676.06	1,479.04	197.02	8.507		
19,100.00	12,414.90	18,727.18	12,114.75	101.14	102.71	79.68	-7,223.77	-450.18	1,676.03	1,476.35	199.68	8.394		
19,200.00	12,415.43	18,827.18	12,115.45	102.47	104.06	79.69	-7,323.76	-449.28	1,676.00	1,473.66	202.34	8.283		
19,300.00	12,415.96	18,927.18	12,116.14	103.81	105.41	79.69	-7,423.76	-448.37	1,675.97	1,470.97	205.01	8.175		
19,400.00	12,416.48	19,027.18	12,116.84	105.15	106.77	79.70	-7,523.75	-447.46	1,675.94	1,468.27	207.67	8.070		
19,500.00	12,417.01	19,127.18	12,117.54	106.48	108.12	79.71	-7,623.74	-446.56	1,675.91	1,465.58	210.34	7.968		
19,600.00	12,417.53	19,227.18	12,118.24	107.82	109.48	79.71	-7,723.74	-445.65	1,675.89	1,462.88	213.01	7.868		
19,700.00	12,418.06	19,327.18	12,118.94	109.16	110.84	79.72	-7,823.73	-444.74	1,675.86	1,460.18	215.68	7.770		
19,800.00	12,418.59	19,427.18	12,119.64	110.50	112.19	79.72	-7,923.72	-443.84	1,675.83	1,457.48	218.34	7.675		
19,900.00	12,419.11	19,527.18	12,120.33	111.84	113.55	79.73	-8,023.72	-442.93	1,675.80	1,454.78	221.02	7.582		
20,000.00	12,419.64	19,627.18	12,121.03	113.18	114.91	79.74	-8,123.71	-442.02	1,675.77	1,452.08	223.69	7.492		
20,100.00	12,420.16	19,727.18	12,121.73	114.52	116.26	79.74	-8,223.70	-441.12	1,675.74	1,449.38	226.36	7.403		
20,200.00	12,420.69	19,827.18	12,122.43	115.86	117.62	79.75	-8,323.70	-440.21	1,675.71	1,446.68	229.03	7.316		
20,300.00	12,421.21	19,927.18	12,123.13	117.20	118.98	79.75	-8,423.69	-439.30	1,675.68	1,443.97	231.71	7.232		
20,400.00	12,421.74	20,027.18	12,123.83	118.55	120.34	79.76	-8,523.68	-438.40	1,675.65	1,441.27	234.38	7.149		
20,500.00	12,422.27	20,127.18	12,124.52	119.89	121.70	79.76	-8,623.68	-437.49	1,675.62	1,438.57	237.06	7.068		
20,600.00	12,422.79	20,227.18	12,125.22	121.24	123.05	79.77	-8,723.67	-436.58	1,675.59	1,435.86	239.73	6.989		
20,700.00	12,423.32	20,327.18	12,125.92	122.58	124.41	79.78	-8,823.66	-435.68	1,675.57	1,433.16	242.41	6.912		
20,800.00	12,423.84	20,427.18	12,126.62	123.93	125.77	79.78	-8,923.66	-434.77	1,675.54	1,430.45	245.09	6.836		
20,900.00	12,424.37	20,527.18	12,127.32	125.27	127.13	79.79	-9,023.65	-433.86	1,675.51	1,427.74	247.77	6.762		
	12,424.90	20,627.18		126.62	128.49	79.79	-9,123.64	-432.96	1,675.48	1,425.03	250.45	6.690		
21,100.00	12,425.42	20,727.18	12,128.71	127.97	129.85	79.80	-9,223.64	-432.05	1,675.45	1,422.33	253.13	6.619		
21,200.00	12,425.95	20,827.18	12,129.41	129.31	131.21	79.81	-9,323.63	-431.14	1,675.42	1,419.62	255.81	6.550		
21,300.00	12,426.47	20,927.18	12,130.11	130.66	132.57	79.81	-9,423.62	-430.23	1,675.39	1,416.91	258.49	6.482		
21,400.00	12,427.00	21,027.18	12,130.81	132.01	133.93	79.82	-9,523.62	-429.33	1,675.36	1,414.20	261.17	6.415		
21,500.00 21,600.00	12,427.52 12,428.05	21,127.18 21,227.18	12,131.51 12,132.20	133.36 134.71	135.29 136.65	79.82 79.83	-9,623.61 -9,723.60	-428.42 -427.51	1,675.33 1,675.31	1,411.49 1,408.77	263.85 266.53	6.350 6.286		
21,700.00	12,428.58	21,327.18		136.06	138.01	79.83	-9,823.60	-426.61	1,675.28	1,406.06	269.22	6.223		
21,800.00	12,429.10	21,427.18	12,133.60	137.41	139.37	79.84	-9,923.59	-425.70	1,675.25	1,403.35	271.90	6.161		
21,900.00	12,429.63	21,527.18	12,134.30	138.76	140.73	79.85	-10,023.58	-424.79	1,675.22	1,400.64	274.58	6.101		
22,000.00 22,100.00	12,430.15 12,430.68	21,627.18 21,727.18	12,135.00 12,135.70	140.11 141.46	142.10 143.46	79.85 79.86	-10,123.57 -10,223.57	-423.89 -422.98	1,675.19 1,675.16	1,397.92 1,395.21	277.27 279.95	6.042 5.984		
22,200.00	12,431.21	21,827.18	12,136.39	142.81	144.82	79.86	-10,323.56	-422.07	1,675.13	1,392.50	282.64	5.927		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well:

Well Error: 0.50 usft Reference Wellbore ОН

Reference Design:

Junior Mint Fed 218H

Database: Plan #2

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

.Total Directional Production DB Offset TVD Reference: Reference Datum

Offset Des	sign: Junio	or Mint Fea	Pad - Jul	nior iviint Fe	a 133H - 0	OH - Plan #2							Offset Site Error:	0.00 usf
Survey Progr Refe	ram: 0-N	/WD+HRGM+ Off			lajor Axis		Offset Wellbo	ore Centre	Dist	Rule Assig	gned:		Offset Well Error:	0.50 usf
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
22,300.00	12,431.73	21,927.18	12,137.09	144.16	146.18	79.87	-10,423.55	-421.17	1,675.11	1,389.78	285.32	5.871		
22,400.00	12,432.26	22,027.18	12,137.79	145.51	147.54	79.87	-10,523.55	-420.26	1,675.08	1,387.07	288.01	5.816		
22,500.00	12,432.78	22,127.18	12,138.49	146.87	148.90	79.88	-10,623.54	-419.35	1,675.05	1,384.35	290.70	5.762		
22,600.00	12,433.31	22,227.18	12,139.19	148.22	150.27	79.89	-10,723.53	-418.45	1,675.02	1,381.63	293.39	5.709		
22,700.00	12,433.83	22,327.18	12,139.88	149.57	151.63	79.89	-10,823.53	-417.54	1,674.99	1,378.92	296.07	5.657		
22,760.48	12,434.15	22,387.52	12,140.31	150.43	152.46	79.90	-10,883.87	-416.99	1,674.97	1,377.28	297.69	5.627		
22.770.20	12.434.20	22.387.52	12,140.31	150.56	152.46	79.90	-10.883.87	-416.99	1,675.00	1.377.23	297.77	5.625	SF.	

Anticollision Report



Company: Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

Civitas Resources

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН

Reference Design: Plan #2

Well Junior Mint Fed 218H Local Co-ordinate Reference:

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

													Offset Site E	rror:	0.00 u
vey Progr	am: 0-1	MWD+HRGM+	-SAG+FDIR (rev.5)						Rule Assi	gned:		Offset Well E	rror:	0.50 u
Refer	rence	Off			Major Axis		Offset Wellbe	ore Centre		tance	-				
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S		Between	Between	Minimum	Separation	'	Narning	
Depth	Depth	Depth	Depth	(aft)	(Toolface	(usft)	+E/-W (usft)	Centres	Ellipses	Separation	Factor			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)			(usft)	(usft)	(usft)				
0.00	0.00	1.00	0.00	0.50	0.50	-26.57	50.00	-25.00	55.90						
100.00	100.00	101.00	100.00	0.98	0.98	-26.57	50.00	-25.00	55.90	53.95	1.96	28.573			
200.00	200.00	201.00	200.00	1.56	1.56	-26.57	50.00	-25.00	55.90	52.78	3.12	17.921			
300.00	300.00	301.00	300.00	1.98	1.98	-26.57	50.00	-25.00	55.90	51.94	3.96	14.116	CC, ES		
400.00	399.99	400.99	399.99	2.41	2.33	-134.71	50.00	-25.00	56.81	52.12	4.69	12.103			
500.00	499.91	500.91	499.91	2.78	2.63	-137.36	50.00	-25.00	59.64	54.30	5.34	11.174			
600.00	E00 60	600.60	E00.60	2 11	2.01	141.04	E0.00	25.00	64.64	E0 60	E 02	10.000			
600.00	599.69	600.69	599.69	3.11	2.91	-141.24	50.00	-25.00	64.61	58.68	5.93	10.892			
700.00	699.27	700.27	699.27	3.42	3.16	-145.74	50.00	-25.00	71.98	65.49	6.49	11.086			
800.00	798.57	799.57	798.57	3.71	3.40	-150.28	50.00	-25.00	81.98	74.95	7.03	11.664			
900.00	897.62	898.62	897.62	3.84	3.62	-154.41	50.00	-25.00	94.21	86.81	7.40	12.730			
,000.00	996.65	997.65	996.65	4.07	3.83	-157.63	50.00	-25.00	106.95	99.10	7.85	13.621			
100.00	1 005 67	1 000 67	1 005 67	4.20	4.02	160.15	E0.00	25.00	110.05	111 67	9.20	14 476			
,100.00	1,095.67	1,096.67	1,095.67	4.29	4.03	-160.15 162.10	50.00	-25.00	119.95	111.67	8.29	14.476			
,200.00	1,194.70	1,195.70	1,194.70	4.51	4.22	-162.19	50.00	-25.00	133.14	124.43	8.71	15.292			
,300.00	1,293.73	1,294.73	1,293.73	4.73	4.41	-163.85	50.00	-25.00	146.46	137.35	9.12	16.067			
,400.00	1,392.75	1,394.74	1,393.74	4.95	4.49	-165.33	49.74	-25.00	159.75	150.33	9.42	16.957			
,500.00	1,491.78	1,496.09	1,495.06	5.17	4.68	-167.25	47.21	-25.00	172.01	162.22	9.79	17.567			
,600.00	1,590.81	1,597.46	1 506 20	5.38	4.86	160.65	41.99	-25.00	183.20	173.04	10.16	18.031			
			1,596.29			-169.65									
,700.00	1,689.83	1,699.19	1,697.70	5.59	4.98	-172.49	34.07	-24.97	193.52	183.05	10.47	18.483			
,800.00	1,788.86	1,803.79	1,801.82	5.80	5.14	-175.37	24.22	-23.25	202.16	191.31	10.85	18.640			
,900.00	1,887.89	1,908.81	1,906.17	6.01	5.29	-178.06	13.22	-18.88	208.49	197.29	11.20	18.611			
,000.00	1,986.91	2,010.42	2,006.93	6.22	5.37	179.44	1.71	-12.61	213.04	201.55	11.49	18.541			
100.00	2.005.04	2 100 01	2 105 57	6.42	E E0	177.00	0.64	6.00	047.70	205.02	11.05	10 271			
,100.00	2,085.94	2,109.91	2,105.57	6.43	5.52	177.08	-9.64	-6.28	217.78	205.92	11.85	18.371			
,200.00	2,184.97	2,209.40	2,204.21	6.64	5.68	174.84	-20.98	0.04	222.87	210.65	12.22	18.237			
2,300.00	2,283.86	2,308.85	2,302.81	6.84	5.84	172.38	-32.33	6.36	229.21	216.64	12.57	18.231			
2,400.00	2,382.33	2,408.14	2,401.24	7.08	6.00	170.19	-43.65	12.67	238.38	225.40	12.98	18.370			
2,500.00	2,480.31	2,507.19	2,499.45	7.32	6.16	168.33	-54.94	18.97	250.31	236.93	13.38	18.703			
,600.00	2,577.74	2,605.95	2,597.36	7.57	6.32	166.81	-66.20	25.25	264.92	251.13	13.79	19.205			
2,700.00	2,674.78	2,704.48	2,695.05	7.79	6.49	165.70	-77.44	31.51	281.25	267.09	14.16	19.203			
,800.00	2,771.81	2,803.00	2,792.73	8.06	6.65	164.75	-88.68	37.77	297.69	283.14	14.55	20.460			
,900.00	2,868.84	2,901.53	2,890.41	8.35	6.82	163.90	-99.91	44.03	314.21	299.26	14.95	21.022			
,000.00	2,965.87	3,000.05	2,988.09	8.65	6.98	163.14	-111.15	50.30	330.78	315.44	15.35	21.554			
,100.00	3,062.90	3,098.58	3,085.77	8.95	7.15	162.44	-122.38	56.56	347.41	331.66	15.75	22.058			
,200.00	3,159.93	3,197.10	3,183.46	9.26	7.13	161.82	-133.62	62.82	364.08	347.93	16.16	22.535			
,300.00	3,256.96 3,353.99	3,295.63	3,281.14	9.57	7.49	161.24	-144.85	69.08	380.80	364.23	16.57	22.987			
,400.00		3,394.15	3,378.82	9.88	7.66	160.72	-156.09	75.35	397.54	380.56	16.98	23.416			
,500.00	3,451.02	3,492.68	3,476.50	10.20	7.83	160.23	-167.32	81.61	414.32	396.92	17.39	23.823			
,600.00	3,548.05	3,591.20	3,574.18	10.51	8.01	159.79	-178.56	87.87	431.12	413.31	17.81	24.209			
,700.00	3,645.08	3,689.73	3,671.86	10.83	8.18	159.37	-189.79	94.13	447.94	429.72	18.23	24.576			
.800.00	3,742.11	3,788.25	3,769.55	11.15	8.36	158.99	-201.03	100.40	464.79	446.14	18.65	24.925			
,900.00	3,839.14	3,886.78	3,867.23	11.15	8.53	158.63	-201.03	106.66	481.65	462.58	19.07	25.257			
,000.00	3,936.17	3,985.30	3,964.91	11.47	8.71	158.30	-212.26	112.92	498.54	479.04	19.07	25.573			
,000.00	0,000.17	5,505.50	5,504.51	11.79	0.71	150.50	-223.00	112.32	730.34	713.04	13.43	20.010			
,100.00	4,033.20	4,083.83	4,062.59	12.11	8.88	157.99	-234.74	119.18	515.43	495.51	19.92	25.874			
,200.00	4,130.23	4,182.35	4,160.27	12.43	9.06	157.70	-245.97	125.44	532.34	511.99	20.35	26.162			
,300.00	4,227.26	4,280.88	4,257.95	12.76	9.24	157.43	-257.21	131.71	549.27	528.49	20.78	26.436			
,400.00	4,324.29	4,379.40	4,355.64	13.08	9.41	157.17	-268.44	137.97	566.20	544.99	21.21	26.698			
,500.00	4,421.32	4,477.93	4,453.32	13.40	9.59	156.93	-279.68	144.23	583.15	561.51	21.64	26.948			
,500.00	7,721.32	65.117,۳	7,733.32	13.40	3.55	150.33	-218.00	1-14.23	505.15	301.31	∠1.04	20.340			
,600.00	4,518.35	4,576.45	4,551.00	13.73	9.77	156.71	-290.91	150.49	600.10	578.03	22.07	27.187			
,700.00	4,615.38	4,674.98	4,648.68	14.06	9.95	156.49	-302.15	156.76	617.06	594.56	22.51	27.416			
,800.00	4,712.41	4,773.50	4,746.36	14.38	10.13	156.29	-313.38	163.02	634.03	611.09	22.94	27.636			
	4,712.41			14.71	10.13				651.01						
,900.00	4,009.44	4,872.03	4,844.05	15.04	10.51	156.09 155.91	-324.62 -335.85	169.28 175.54	10.160	627.63	23.38	27.846			

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

181.81

684.99

660.75

24.24

5,003.50

5,100.00

-347.09

10.66

15.36

155.74

5,069.08

5,039.41

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Well Error: 0.50 usft Reference Wellbore

Reference Well: Junior Mint Fed 218H

> ОН Plan #2

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

.Total Directional Production DB Database:

eference	Wellbore Design:	OH Plan #	‡2				Offset TV	'D Referenc	e:		eference Da	nai Produci itum		
ffset De	sign: ^{Juni}	or Mint Fed	l Pad - Ju	nior Mint Fe	ed 134H - (OH - Plan #2							Offset Site Error:	0.00 us
ırvey Prog		MWD+HRGM+								Rule Assi	gned:		Offset Well Error:	0.50 us
Refe Measured	rence Vertical	Off Measured	fset Vertical	Semi I Reference	Major Axis Offset	Highside	Offset Wellb	ore Centre	Dis Between	tance Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
5,200.00	5,100.53	5,161.75	5,131.39	15.69	10.82	155.64	-356.94	187.29	702.34	677.70	24.64	28.504		
5,300.00	5,197.56	5,253.23	5,222.43	16.02	10.99	155.72	-364.76	191.66	720.63	695.61	25.03	28.794		
5,400.00	5,294.59	5,344.30	5,313.25	16.35	11.15	155.95	-370.66	194.94	739.87	714.48	25.39	29.142		
5,500.00	5,391.62	5,434.85	5,403.68	16.68	11.31	156.31	-374.65	197.17	760.08	734.35	25.73	29.544		
5,600.00	5,488.65	5,524.78	5,493.58	17.01	11.44	156.80	-376.75	198.34	781.29	755.26	26.03	30.015		
5,700.00	5,585.68	5,616.89	5,585.68	17.34	11.50	157.42	-377.13	198.55	803.47	777.19	26.28	30.573		
5,800.00	5,682.71	5,713.92	5,682.71	17.67	11.55	158.06	-377.13	198.55	825.95	799.41	26.55	31.115		
5,900.00	5,779.92	5,811.13	5,779.92	17.97	11.60	158.74	-377.13	198.55	847.84	821.05	26.79	31.644		
6,000.00	5,877.69	5,908.90	5,877.69	18.27	11.65	159.35	-377.13	198.55	867.49	840.42	27.06	32.056		
6,100.00	5,975.98	6,007.19	5,975.98	18.54	11.70	159.86	-377.13	198.55	884.78	857.45	27.32	32.380		
6,200.00	6,074.72	6,105.92	6,074.72	18.77	11.75	160.28	-377.13	198.55	899.68	872.10	27.58	32.619		
6,300.00	6,173.83	6,205.04	6,173.83	18.98	11.80	160.63	-377.13	198.55	912.17	884.34	27.83	32.775		
6,400.00	6,273.26	6,304.47	6,273.26	19.16	11.86	160.89	-377.13	198.55	922.23	894.15	28.07	32.851		
6,500.00	6,372.94	6,404.14	6,372.94	19.31	11.91	161.09	-377.13	198.55	929.83	901.52	28.30	32.851		
6,600.00	6,472.79	6,503.99	6,472.79	19.42	11.96	161.23	-377.13	198.55	934.96	906.43	28.52	32.778		
6,700.00	6,572.74	6,603.95	6,572.74	19.52	12.02	161.29	-377.13	198.55	937.62	908.89	28.73	32.640		
6,800.00	6,672.74	6,703.95	6,672.74	19.54	12.07	-90.41	-377.13	198.55	938.02	909.21	28.82	32.552		
6,900.00	6,772.74	6,803.95	6,772.74	19.58	12.13	-90.41	-377.13	198.55	938.02	909.12	28.90	32.453		
7,000.00	6,872.74	6,903.95	6,872.74	19.62	12.18	-90.41	-377.13	198.55	938.02	909.03	28.99	32.353		
7,100.00	6,972.74	7,003.95	6,972.74	19.66	12.24	-90.41	-377.13	198.55	938.02	908.94	29.08	32.254		
7,200.00	7,072.74	7,103.95	7,072.74	19.70	12.30	-90.41	-377.13	198.55	938.02	908.85	29.17	32.154		
7,300.00	7,172.74	7,203.95	7,172.74	19.74	12.35	-90.41	-377.13	198.55	938.02	908.76	29.26	32.054		
7,400.00	7,272.74	7,303.95	7,272.74	19.77	12.41	-90.41	-377.13	198.55	938.02	908.67	29.36	31.954		
7,500.00	7,372.74	7,403.95	7,372.74	19.81	12.47	-90.41	-377.13	198.55	938.02	908.58	29.45	31.854		
7,600.00	7,472.74	7,503.95	7,472.74	19.85	12.52	-90.41	-377.13	198.55	938.02	908.48	29.54	31.754		
7,700.00	7,572.74	7,603.95	7,572.74	19.89	12.58	-90.41	-377.13	198.55	938.02	908.39	29.63	31.654		
7,800.00	7,672.74	7,703.95	7,672.74	19.93	12.64	-90.41	-377.13	198.55	938.02	908.30	29.73	31.554		
7,800.00	7,772.74	7,703.95	7,772.74	19.93	12.70	-90.41	-377.13	198.55	938.02	908.20	29.73	31.454		
8,000.00	7,872.74	7,903.95	7,872.74	20.01	12.75	-90.41	-377.13	198.55	938.02	908.20	29.92	31.354		
8,100.00 8,200.00	7,972.74 8,072.74	8,003.95 8,103.95	7,972.74 8,072.74	20.05 20.10	12.81 12.87	-90.41 -90.41	-377.13 -377.13	198.55 198.55	938.02 938.02	908.01 907.92	30.01 30.11	31.254 31.155		
8,300.00	8,172.74	8,203.95	8,172.74	20.14	12.93	-90.41	-377.13	198.55	938.02	907.82	30.21	31.055		
8,400.00	8,272.74	8,303.95	8,272.74	20.18	12.99	-90.41	-377.13	198.55	938.02	907.72	30.30	30.955		
8,500.00	8,372.74	8,403.95	8,372.74	20.22	13.05	-90.41	-377.13	198.55	938.02	907.62	30.40	30.855		
8,600.00 8,700.00	8,472.74 8,572.74	8,503.95 8,603.95	8,472.74 8,572.74	20.26 20.30	13.11 13.17	-90.41 -90.41	-377.13 -377.13	198.55 198.55	938.02 938.02	907.52 907.43	30.50 30.60	30.756 30.656		
8,800.00	8,672.74	8,703.95	8,672.74	20.35	13.23	-90.41	-377.13	198.55	938.02	907.33	30.70	30.557		
8,900.00	8,772.74	8,803.95	8,772.74	20.39	13.29	-90.41	-377.13	198.55	938.02	907.23	30.80	30.457		
9,000.00	8,872.74	8,903.95	8,872.74	20.43	13.35	-90.41	-377.13	198.55	938.02	907.13	30.90	30.358		
9,100.00 9,200.00	8,972.74 9,072.74	9,003.95 9,103.95	8,972.74 9,072.74	20.48 20.52	13.41 13.47	-90.41 -90.41	-377.13 -377.13	198.55 198.55	938.02 938.02	907.02 906.92	31.00 31.10	30.259 30.160		
9,300.00	9,172.74	9,203.95	9,172.74	20.56	13.53	-90.41 -90.41	-377.13 -377.13	198.55 198.55	938.02	906.82	31.20	30.062		
9,400.00	9,272.74	9,303.95	9,272.74	20.61	13.59	-90.41	-377.13	198.55	938.02	906.72	31.31	29.963		
9,500.00	9,372.74	9,403.95	9,372.74	20.65	13.66	-90.41	-377.13	198.55	938.02	906.62	31.41	29.865		
9,600.00 9,700.00	9,472.74 9,572.74	9,503.95 9,603.95	9,472.74 9,572.74	20.70 20.74	13.72 13.78	-90.41 -90.41	-377.13 -377.13	198.55 198.55	938.02 938.02	906.51 906.41	31.51 31.62	29.766 29.668		
9,800.00 9,900.00	9,672.74 9,772.74	9,703.95 9,803.95	9,672.74 9,772.74	20.79 20.83	13.84 13.91	-90.41 -90.41	-377.13 -377.13	198.55 198.55	938.02 938.02	906.30 906.20	31.72 31.83	29.571 29.473		
		9,803.95				-90.41 -90.41	-377.13		938.02					
10,000.00	9,872.74 9,972.74	10,003.95	9,872.74 9,972.74	20.88	13.97 14.03	-90.41 -90.41	-377.13	198.55	938.02	906.09 905.99	31.93 32.04	29.375 29.278		
10,100.00	10,072.74	10,003.95	10,072.74	20.92 20.97	14.03	-90.41 -90.41	-377.13	198.55 198.55	938.02	905.88	32.14	29.276		
10,300.00	10,172.74	10,203.95	10,172.74	21.01	14.16	-90.41	-377.13	198.55	938.02	905.77	32.25	29.084		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83)

Plan #2

Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H Well Error: 0.50 usft

Reference Wellbore

Reference Design:

ОН

Well Junior Mint Fed 218H Local Co-ordinate Reference:

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Minimum Curvature **Survey Calculation Method:**

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

ererence	Design.	Pian #	+2				Oliset iv	Reference	.e.	- Ne	elefice Da	ituiii		
		N4: 4 E			1.40.411	OLL DL #0								
ffset De	sign: ^{Junio}	or Mint Fed	l Pad - Jui	nior Mint Fe	d 134H - (OH - Plan #2							Offset Site Error:	0.00 us
ırvey Progi		MWD+HRGM-								Rule Assi	gned:		Offset Well Error:	0.50 u
Refe Measured	rence Vertical	Off Measured	fset Vertical	Semi M Reference	Major Axis Offset	Highside	Offset Wellb	ore Centre	Dist Between	ance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	11010101100	0001	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
10,400.00	10,272.74	10,303.95	10,272.74	21.06	14.22	-90.41	-377.13	198.55	938.02	905.67	32.36	28.988		
10,500.00	10,372.74	10,403.95	10,372.74	21.11	14.29	-90.41	-377.13	198.55	938.02	905.56	32.47	28.892		
10,600.00	10,472.74	10,503.95	10,472.74	21.15	14.35	-90.41	-377.13	198.55	938.02	905.45	32.58	28.795		
10,700.00	10,572.74	10,603.95	10,572.74	21.20	14.41	-90.41	-377.13	198.55	938.02	905.34	32.68	28.700		
10,800.00	10,672.74	10,703.95	10,672.74	21.25	14.48	-90.41	-377.13	198.55	938.02	905.23	32.79	28.604		
10,900.00	10,772.74	10,803.95	10,772.74	21.29	14.54	-90.41	-377.13	198.55	938.02	905.12	32.90	28.509		
11,000.00	10,872.74	10,903.95	10,872.74	21.34	14.61	-90.41	-377.13	198.55	938.02	905.01	33.01	28.414		
11,100.00	10,972.74	11,003.95	10,972.74	21.39	14.67	-90.41	-377.13	198.55	938.02	904.90	33.12	28.319		
11,200.00	11,072.74	11,103.95	11,072.74	21.44	14.74	-90.41	-377.13	198.55	938.02	904.79	33.23	28.224		
11,300.00	11,172.74	11,203.95	11,172.74	21.49	14.80	-90.41	-377.13	198.55	938.02	904.68	33.35	28.130		
11,400.00	11,272.74	11,303.95	11,272.74	21.53	14.87	-90.41	-377.13	198.55	938.02	904.57	33.46	28.036		
11,500.00	11,372.74	11,403.95	11,372.74	21.58	14.93	-90.41	-377.13	198.55	938.02	904.45	33.57	27.942		
11,600.00	11,472.74	11,503.95	11,472.74	21.63	15.00	-90.41	-377.13	198.55	938.02	904.34	33.69	27.846		
11,645.44	11,518.19	11,549.44	11,518.19	21.65	15.07	-90.52	-378.91	198.57	938.02	904.29	33.73	27.810		
11,700.00	11,572.74	11,603.26	11,571.56	21.68	15.19	-90.93	-385.67	198.63	938.05	904.24	33.81	27.746		
11,800.00	11,672.74	11,696.96	11,662.13	21.73	15.40	-92.37	-409.25	198.84	938.57	904.53	34.04	27.572		
11,900.00	11,772.74	11,781.10	11,739.24	21.78	15.60	-94.41	-442.74	199.15	940.79	906.40	34.39	27.358		
12,000.00	11,872.61	11,855.66	11,802.82	21.84	15.78	83.54	-481.58	199.50	945.82	911.01	34.82	27.167		
12,100.00	11,970.52	11,926.60	11,858.16	21.99	15.94	80.89	-525.90	199.90	952.80	917.38	35.41	26.904		
12,200.00	12,063.53	12,000.00	11,909.20	22.19	16.15	78.31	-578.58	200.38	960.89	924.69	36.20	26.541		
12,300.00	12,148.80	12,062.05	11,946.79	22.45	16.42	76.20	-627.90	200.83	969.31	932.19	37.12	26.113		
12,400.00	12,223.74	12,127.58	11,980.47	22.78	16.82	74.28	-684.07	201.34	977.41	939.25	38.16	25.615		
12,500.00	12,286.09	12,200.00	12,009.95	23.20	17.36	72.60	-750.16	201.94	984.63	945.33	39.30	25.051		
12,600.00	12,333.93	12,250.00	12,025.33	23.71	17.76	71.55	-797.72	202.37	990.36	950.07	40.29	24.580		
12,700.00	12,365.83	12,319.36	12,039.69	24.31	18.37	70.70	-865.53	202.99	994.29	952.89	41.40	24.014		
12,800.00	12,380.81	12,382.47	12,045.55	24.99	18.96	70.32	-928.34	203.56	996.22	953.82	42.39	23.499		
12,900.00	12,382.30	12,472.08	12,046.45	25.74	19.84	70.30	-1,017.93	204.37	996.34	952.63	43.71	22.796		
13,000.00	12,382.83	12,572.08	12,047.15	26.54	20.86	70.31	-1,117.93	205.28	996.28	951.02	45.26	22.012		
13,100.00	12,383.35	12,672.08	12,047.84	27.39	21.92	70.32	-1,217.92	206.19	996.22	949.32	46.90	21.239		
13,200.00	12,383.88	12,772.08	12,048.54	28.28	23.01	70.33	-1,317.91	207.10	996.16	947.53	48.63	20.484		
13,300.00	12,384.40	12,872.08	12,049.24	29.20	24.13	70.34	-1,417.91	208.01	996.10	945.67	50.43	19.751		
13,400.00	12,384.93	12,972.08	12,049.94	30.16	25.28	70.35	-1,517.90	208.92	996.04	943.74	52.30	19.044		
13,500.00	12,385.46	13,072.08	12,050.64	31.14	26.44	70.36	-1,617.89	209.83	995.99	941.76	54.23	18.366		
13,600.00	12,385.98	13,172.08	12,051.34	32.15	27.63	70.37	-1,717.89	210.73	995.93	939.72	56.21	17.718		
13,700.00	12,386.51	13,272.08	12,052.04	33.18	28.83	70.37	-1,817.88	211.64	995.87	937.63	58.24	17.099		
13,800.00	12,387.03	13,372.08	12,052.74	34.23	30.04	70.38	-1,917.87	212.55	995.81	935.50	60.31	16.510		
13,900.00	12,387.56	13,472.08	12,053.44	35.31	31.27	70.39	-2,017.87	213.46	995.75	933.32	62.43	15.950		
	12,388.09	13,572.08	12,054.14	36.40	32.51	70.40	-2,117.86	214.37	995.69	931.12	64.58	15.419		
14,100.00	12,388.61	13,672.08		37.51	33.76	70.41	-2,217.85	215.28	995.64	928.88	66.76	14.914		
	12,389.14	13,772.08	12,055.54	38.63	35.02	70.42	-2,317.85	216.19	995.58	926.61	68.97	14.435		
14,300.00	12,389.66	13,872.08	12,056.23	39.77	36.28	70.43	-2,417.84	217.10	995.52	924.31	71.20	13.981		
14,400.00	12,390.19	13,972.08	12,056.93	40.92	37.56	70.44	-2,517.83	218.00	995.46	922.00	73.46	13.550		
14,500.00	12,390.71	14,072.08	12,057.63	42.08	38.83	70.45	-2,617.83	218.91	995.40	919.65	75.75	13.141		
14,600.00	12,391.24	14,172.08	12,058.33	43.26	40.12	70.46	-2,717.82	219.82	995.34	917.29	78.05	12.753		
14,700.00	12,391.77	14,272.08	12,059.03	44.44	41.41	70.47	-2,817.81	220.73	995.29	914.91	80.37	12.383		
14,800.00	12,392.29	14,372.08	12,059.73	45.64	42.71	70.48	-2,917.81	221.64	995.23	912.52	82.71	12.033		
14,900.00	12,392.82	14,472.08	12,060.43	46.84	44.01	70.49	-3,017.80	222.55	995.17	910.10	85.06	11.699		
15,000.00	12,393.34	14,572.08	12,061.13	48.05	45.31	70.50	-3,117.79	223.46	995.11	907.68	87.43	11.381		
15,100.00	12,393.87	14,672.08	12,061.83	49.27	46.62	70.51	-3,217.79	224.37	995.05	905.24	89.81	11.079		
15,200.00	12,394.40	14,772.08	12,062.53	50.50	47.93	70.52	-3,317.78	225.27	995.00	902.79	92.21	10.791		
15,300.00	12,394.92	14,872.08	12,063.23	51.73	49.24	70.53	-3,417.77	226.18	994.94	900.32	94.61	10.516		
15,400.00	12,395.45	14,972.08	12,063.92	52.97	50.56	70.53	-3,517.77	227.09	994.88	897.85	97.03	10.253		

Anticollision Report



Civitas Resources

Plan #2

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Company:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН

Reference Design:

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

	-					OH - Plan #2							Offset Site Error:	0.00 us
rvey Prog	ram: 0-	MWD+HRGM+	SAG+FDIR (ı	rev.5)						Rule Assi	gned:		Offset Well Error:	0.50 us
Refe	rence	Off			Major Axis	Himbaida	Offset Wellb	ore Centre		tance		Comenation	Mouning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	i uctoi		
15,500.00	12,395.97	15,072.08	12,064.62	54.21	51.88	70.54	-3,617.76	228.00	994.82	895.37	99.45	10.003		
15,600.00	12,396.50	15,172.08	12,065.32	55.47	53.20	70.55	-3,717.75	228.91	994.76	892.87	101.89	9.763		
15,700.00	12,397.03	15,272.08	12,066.02	56.72	54.53	70.56	-3,817.75	229.82	994.71	890.37	104.33	9.534		
15,800.00	12,397.55	15,372.08	12,066.72	57.98	55.86	70.57	-3,917.74	230.73	994.65	887.86	106.78	9.315		
15,900.00	12,398.08	15,472.08	12,067.42	59.25	57.18	70.58	-4,017.73	231.64	994.59	885.35	109.24	9.104		
16,000.00	12,398.60	15,572.08	12,068.12	60.52	58.52	70.59	-4,117.73	232.54	994.53	882.83	111.71	8.903		
16 100 00	12,399.13	15,672.08	12,068.82	61.79	59.85	70.60	1 217 72	233.45	994.47	880.30	114.18	8.710		
16,100.00 16,200.00	12,399.13	15,772.08	12,069.52	63.07	61.18	70.60	-4,217.72 -4,317.71	233.45	994.47	877.76	116.66	8.524		
16,300.00		15,872.08	12,009.32		62.52	70.62	-4,417.71	235.27	994.42	875.22	119.14	8.346		
	12,400.18	15,972.08	12,070.22	64.35	63.86			236.18	994.30	872.67		8.175		
16,400.00 16,500.00	12,400.71 12,401.23	16,072.08	12,070.92	65.63 66.92	65.19	70.63 70.64	-4,517.70 -4,617.69	237.09	994.30	870.12	121.63 124.12	8.010		
10,500.00	12,401.23	10,072.00	12,071.02	00.92	05.19	70.04	-4,017.09	237.09	994.24	070.12	124.12	6.010		
16,600.00	12,401.76	16,172.08	12,072.31	68.21	66.53	70.65	-4,717.69	238.00	994.19	867.56	126.62	7.852		
16,700.00	12,402.28	16,272.08	12,073.01	69.51	67.87	70.66	-4,817.68	238.91	994.13	865.00	129.13	7.699		
6,800.00	12,402.81	16,372.08	12,073.71	70.80	69.22	70.67	-4,917.67	239.81	994.07	862.44	131.63	7.552		
6,900.00	12,403.34	16,472.08	12,074.41	72.10	70.56	70.68	-5,017.67	240.72	994.01	859.87	134.15	7.410		
7,000.00	12,403.86	16,572.08	12,075.11	73.40	71.90	70.69	-5,117.66	241.63	993.96	857.29	136.66	7.273		
7,100.00	12,404.39	16,672.08	12,075.81	74.71	73.25	70.69	-5,217.65	242.54	993.90	854.72	139.18	7.141		
7,200.00	12,404.91	16,772.07	12,076.51	76.01	74.59	70.70	-5,317.65	243.45	993.84	852.13	141.71	7.013		
7,300.00	12,405.44	16,872.07	12,077.21	77.32	75.94	70.71	-5,417.64	244.36	993.78	849.55	144.23	6.890		
7,400.00	12,405.96	16,972.07	12,077.91	78.63	77.29	70.72	-5,517.63	245.27	993.73	846.96	146.76	6.771		
7,500.00	12,406.49	17,072.07	12,078.61	79.94	78.64	70.73	-5,617.62	246.18	993.67	844.37	149.29	6.656		
7,600.00	12,407.02	17,172.07	12,079.31	81.26	79.99	70.74	-5,717.62	247.08	993.61	841.78	151.83	6.544		
7,700.00	12,407.54	17,172.07	12,080.01	82.57	81.34	70.75	-5,817.61	247.99	993.55	839.18	154.37	6.436		
7,800.00	12,408.07	17,372.07	12,080.70	83.89	82.69	70.76	-5,917.60	248.90	993.50	836.59	156.91	6.332		
7,900.00	12,408.59	17,472.07	12,081.40	85.21	84.04	70.77	-6,017.60	249.81	993.44	833.99	159.45	6.230		
8,000.00	12,409.12	17,572.07	12,082.10	86.53	85.39	70.78	-6,117.59	250.72	993.38	831.38	162.00	6.132		
0,000.00	12,100.12	17,072.01	12,002.10	00.00	00.00	70.70	0,111.00	200.72	000.00	001.00	102.00	0.102		
8,100.00	12,409.65	17,672.07	12,082.80	87.85	86.74	70.79	-6,217.58	251.63	993.32	828.78	164.55	6.037		
8,200.00	12,410.17	17,772.07	12,083.50	89.18	88.09	70.80	-6,317.58	252.54	993.27	826.17	167.10	5.944		
8,300.00	12,410.70	17,872.07	12,084.20	90.50	89.45	70.81	-6,417.57	253.45	993.21	823.56	169.65	5.854		
8,400.00	12,411.22	17,972.07	12,084.90	91.83	90.80	70.82	-6,517.56	254.35	993.15	820.95	172.20	5.767		
8,500.00	12,411.75	18,072.07	12,085.60	93.15	92.16	70.83	-6,617.56	255.26	993.10	818.33	174.76	5.683		
8,600.00	12,412.27	18,172.07	12,086.30	94.48	93.51	70.84	-6,717.55	256.17	993.04	815.72	177.32	5.600		
8,700.00	12,412.80	18,272.07	12,087.00	95.81	94.86	70.85	-6,817.54	257.08	992.98	813.10	179.88	5.520		
8,800.00	12,413.33	18,372.07	12,087.70	97.14	96.22	70.86	-6,917.54	257.99	992.92	810.48	182.44	5.442		
8,900.00	12,413.85	18,472.07	12,088.39	98.47	97.58	70.86	-7,017.53 7,417.53	258.90	992.87	807.86	185.01	5.367		
9,000.00	12,414.38	18,572.07	12,089.09	99.81	98.93	70.87	-7,117.52	259.81	992.81	805.24	187.57	5.293		
9,100.00	12,414.90	18,672.07	12,089.79	101.14	100.29	70.88	-7,217.52	260.72	992.75	802.61	190.14	5.221		
9,200.00	12,415.43	18,772.07	12,090.49	102.47	101.65	70.89	-7,317.51	261.62	992.70	799.99	192.71	5.151		
,300.00	12,415.96	18.872.07	12,091.19	103.81	103.00	70.90	-7,417.50	262.53	992.64	797.36	195.28	5.083		
	12,416.48	18,972.07	12,091.89	105.15	104.36	70.91	-7,517.50	263.44	992.58	794.73	197.85	5.017		
,500.00	12,417.01	19,072.07	12,092.59	106.48	105.72	70.92	-7,617.49	264.35	992.53	792.10	200.42	4.952		
				· · ·	-	-								
,600.00	12,417.53	19,172.07	12,093.29	107.82	107.08	70.93	-7,717.48	265.26	992.47	789.47	203.00	4.889		
9,700.00	12,418.06	19,272.07	12,093.99	109.16	108.44	70.94	-7,817.48	266.17	992.41	786.84	205.57	4.828		
9,800.00	12,418.59	19,372.07	12,094.69	110.50	109.79	70.95	-7,917.47	267.08	992.35	784.21	208.15	4.768		
,900.00	12,419.11	19,472.07	12,095.39	111.84	111.15	70.96	-8,017.46	267.99	992.30	781.57	210.73	4.709		
0,000.00	12,419.64	19,572.07	12,096.09	113.18	112.51	70.97	-8,117.46	268.89	992.24	778.93	213.31	4.652		
,100.00	12,420.16	19,672.07	12,096.78	114.52	113.87	70.98	-8,217.45	269.80	992.18	776.30	215.89	4.596		
,200.00	12,420.69	19,772.07	12,097.48	115.86	115.23	70.99	-8,317.44	270.71	992.13	773.66	218.47	4.541		
0,300.00	12,421.21	19,872.07	12,098.18	117.20	116.59	71.00	-8,417.44	271.62	992.07	771.02	221.05	4.488		
0,400.00	12,421.74	19,972.07	12,098.88	118.55	117.95	71.01	-8,517.43	272.53	992.01	768.38	223.63	4.436		
0,500.00	12,422.27	20,072.07	12,099.58	119.89	119.31	71.02	-8,617.42	273.44	991.96	765.74	226.22	4.385		
.600.00	12,422.79	20,172.07	12,100.28	121.24	120.67	71.03	-8,717.42	274.35	991.90	763.10	228.81	4.335		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

Plan #2

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft Reference Wellbore ОН

Reference Design:

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

urvey Progi	ram: 0-N	/WD+HRGM+			laior Axis		Offset Wellbo	oro Contro	Die	Rule Assi	gned:		Offset Well Error:	0.50 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
20,700.00	12,423.32	20,272.07	12,100.98	122.58	122.03	71.03	-8,817.41	275.26	991.84	760.45	231.39	4.286		
20,800.00	12,423.84	20,372.07	12,100.68	123.93	123.40	71.04	-8,917.40	276.16	991.79	757.81	233.98	4.239		
20,900.00	12,424.37	20,472.07	12,102.38	125.27	124.76	71.05	-9,017.40	277.07	991.73	755.16	236.57	4.192		
21,000.00	12,424.90	20,572.07	12,103.08	126.62	126.12	71.06	-9,117.39	277.98	991.68	752.52	239.16	4.147		
21,100.00	12,425.42	20,672.07	12,103.78	127.97	127.48	71.07	-9,217.38	278.89	991.62	749.87	241.75	4.102		
21,200.00	12,425.95	20,772.07	12,104.47	129.31	128.84	71.08	-9,317.38	279.80	991.56	747.22	244.34	4.058		
21,300.00	12,426.47	20,872.07	12,105.17	130.66	130.20	71.09	-9,417.37	280.71	991.51	744.57	246.93	4.015		
21,400.00	12,427.00	20,972.07	12,105.87	132.01	131.57	71.10	-9,517.36	281.62	991.45	741.92	249.53	3.973		
21,500.00	12,427.52	21,072.07	12,106.57	133.36	132.93	71.11	-9,617.36	282.53	991.39	739.27	252.12	3.932		
21,600.00	12,428.05	21,172.07	12,107.27	134.71	134.29	71.12	-9,717.35	283.43	991.34	736.62	254.71	3.892		
21,700.00	12,428.58	21,272.07	12,107.97	136.06	135.65	71.13	-9,817.34	284.34	991.28	733.97	257.31	3.852		
21,800.00	12,429.10	21,372.07	12,108.67	137.41	137.02	71.14	-9,917.34	285.25	991.22	731.32	259.91	3.814		
21,900.00	12,429.63	21,472.07	12,109.37	138.76	138.38	71.15	-10,017.33	286.16	991.17	728.67	262.50	3.776		
22,000.00	12,430.15	21,572.07	12,110.07	140.11	139.74	71.16	-10,117.32	287.07	991.11	726.01	265.10	3.739		
22,100.00	12,430.68	21,672.07	12,110.77	141.46	141.10	71.17	-10,217.32	287.98	991.06	723.36	267.70	3.702		
22,200.00	12,431.21	21,772.07	12,111.47	142.81	142.47	71.18	-10,317.31	288.89	991.00	720.70	270.30	3.666		
2,300.00	12,431.73	21,872.07	12,112.17	144.16	143.83	71.19	-10,417.30	289.80	990.94	718.05	272.90	3.631		
22,400.00	12,432.26	21,972.07	12,112.86	145.51	145.19	71.20	-10,517.30	290.70	990.89	715.39	275.50	3.597		
2,500.00	12,432.78	22,072.07	12,113.56	146.87	146.56	71.21	-10,617.29	291.61	990.83	712.73	278.10	3.563		
22,600.00	12,433.31	22,172.07	12,114.26	148.22	147.92	71.21	-10,717.28	292.52	990.78	710.07	280.70	3.530		
22,700.00	12,433.83	22,272.07	12,114.96	149.57	149.29	71.22	-10,817.28	293.43	990.72	707.41	283.31	3.497		
2,763.36	12,434.17	22,335.19	12,115.40	150.47	150.09	71.23	-10,880.40	294.00	990.68	705.79	284.89	3.477	SF	
22,770.20	12,434.20	22,335.19	12,115.40	150.56	150.09	71.23	-10,880.40	294.00	990.71	705.85	284.86	3.478		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad

Reference Site: 0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore

Reference Design:

ОН Plan #2 Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

Survey Progr	ram: 20 rence	4-MWD+HRGN Offs			//WD+HRGN ajor Axis	/I+SAG+FDIR (re	v.5) Offset Wellb	ana Camtua	Dies	Rule Assig	gned:		Offset Well Error:	0.50 usf
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S		Between	Between Ellipses	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	(usft)	+E/-W (usft)	Centres (usft)	(usft)	Separation (usft)	Factor		
3,000.00	2,965.87	3,637.76	3,594.39	8.65	9.90	151.95	-561.27	-1,927.08	2,431.64	2,413.39	18.25	133.253		
3,100.00	3,062.90	3,736.78	3,690.03	8.95	10.18	152.25	-555.08	-1,902.21	2,427.02	2,408.30	18.72	129.678		
3,200.00	3,159.93	3,835.80	3,785.67	9.26	10.48	152.56	-548.89	-1,877.34	2,422.46	2,403.28	19.18	126.277		
3,300.00	3,256.96	3,934.81	3,881.32	9.57	10.78	152.88	-542.70	-1,852.47	2,417.98	2,398.33	19.65	123.040		
3,400.00	3,353.99	4,033.83	3,976.96	9.88	11.09	153.19	-536.51	-1,827.60	2,413.57	2,393.45	20.12	119.954		
3,500.00	3,451.02	4,132.85	4,072.61	10.20	11.40	153.50	-530.32	-1,802.73	2,409.24	2,388.65	20.59	117.007		
0,000.00	0,101.02	1,102.00	1,012.01	.0.20	11.10	100.00	000.02	1,002.10	2,100.21	2,000.00	20.00			
3,600.00	3,548.05	4,231.87	4,168.25	10.51	11.72	153.82	-524.13	-1,777.85	2,404.97	2,383.91	21.06	114.199		
3,700.00	3,645.08	4,330.89	4,263.89	10.83	12.04	154.13	-517.94	-1,752.98	2,400.78	2,379.26	21.53	111.515		
3,800.00	3,742.11	4,429.90	4,359.54	11.15	12.36	154.45	-511.75	-1,728.11	2,396.67	2,374.67	22.00	108.949		
3,900.00	3,839.14	4,528.92	4,455.18	11.47	12.68	154.76	-505.56	-1,703.24	2,392.63	2,370.16	22.47	106.493		
4,000.00	3,936.17	4,627.94	4,550.82	11.79	13.00	155.08	-499.37	-1,678.37	2,388.66	2,365.73	22.94	104.141		
4,100.00	4,033.20	4,726.96	4,646.47	12.11	13.33	155.40	-493.18	-1,653.50	2,384.77	2,361.37	23.41	101.887		
4,200.00	4,130.23	4,825.98	4,742.11	12.43	13.65	155.72	-486.99	-1,628.63	2,380.96	2,357.09	23.88	99.724		
4,300.00	4,227.26	4,925.00	4,837.75	12.76	13.98	156.05	-480.80	-1,603.76	2,377.22	2,352.88	24.34	97.649		
4,400.00	4,324.29	5,024.01	4,933.40	13.08	14.31	156.37	-474.61	-1,578.88	2,373.56	2,348.75	24.81	95.655		
4,500.00	4,421.32	5,123.03	5,029.04	13.40	14.64	156.69	-468.42	-1,554.01	2,369.98	2,344.69	25.28	93.739		
4,600.00	4,518.35	5,222.05	5,124.68	13.73	14.97	157.02	-462.23	-1,529.14	2,366.47	2,340.72	25.75	91.895		
4,700.00	4,615.38	5,321.07	5,220.33	14.06	15.30	157.34	-456.04	-1,504.27	2,363.04	2,336.82	26.22	90.122		
4,800.00	4,712.41	5,420.09	5,315.97	14.38	15.63	157.67	-449.85	-1,479.40	2,359.69	2,333.00	26.69	88.413		
4,900.00	4,809.44	5,519.10	5,411.61	14.71	15.97	158.00	-443.66	-1,454.53	2,356.41	2,329.25	27.16	86.767		
5,000.00	4,906.47	5,618.12	5,507.26	15.04	16.30	158.32	-437.46	-1,429.66	2,353.22	2,325.59	27.63	85.179		
E 100.00	E 002 E0	E 747 44	E 600 00	45.26	16.64	4E0 CE	424.27	1 404 70	2.250.40	0 200 01	20.10	02.640		
5,100.00	5,003.50	5,717.14	5,602.90	15.36	16.64	158.65	-431.27	-1,404.78	2,350.10	2,322.01	28.10	83.648		
5,200.00	5,100.53	5,816.16	5,698.54	15.69	16.97	158.98	-425.08	-1,379.91	2,347.06	2,318.50	28.56	82.170		
5,300.00	5,197.56	5,915.18	5,794.19	16.02	17.30	159.31	-418.89	-1,355.04	2,344.10	2,315.08	29.03	80.759		
5,400.00	5,294.59	5,977.41	5,854.42	16.35	17.50	159.52	-415.12	-1,339.87	2,341.99	2,312.56	29.43	79.579		
5,477.70	5,369.99	6,025.48	5,901.13	16.61	17.65	159.68	-412.36	-1,328.80	2,341.50	2,311.75	29.74	78.726	CC	
5,500.00	5,391.62	6,039.29	5,914.56	16.68	17.69	159.72	-411.60	-1,325.73	2,341.54	2,311.71	29.83	78.491		
5,600.00	5,488.65	6,100.00	5,973.79	17.01	17.88	159.91	-408.37	-1,312.77	2,342.73	2,312.50	30.23	77.500		
5,700.00	5,585.68	6,163.14	6,035.60	17.34	18.05	160.11	-405.26	-1,300.27	2,345.57	2,314.95	30.62	76.602		
5,800.00	5,682.71	6,225.05	6,096.41	17.67	18.21	160.29	-402.45	-1,288.98	2,350.04	2,319.04	31.00	75.805		
5,900.00	5,779.92	6,300.00	6,170.26	17.07	18.40	160.52	-399.37	-1,200.90	2,355.50	2,319.04	31.39	75.050		
5,900.00	5,119.92	0,300.00	0,170.20	17.97	10.40	100.52	-388.31	-1,270.59	2,300.00	2,324.11	31.39	75.050		
6,000.00	5,877.69	6,348.94	6,218.61	18.27	18.50	160.67	-397.54	-1,269.26	2,360.07	2,328.35	31.72	74.405		
6,100.00	5,975.98	6,400.00	6,269.16	18.54	18.62	160.80	-395.80	-1,262.25	2,363.89	2,331.85	32.04	73.781		
6,200.00	6,074.72	6,473.14	6,341.72	18.77	18.76	160.96	-393.59	-1,253.36	2,366.77	2,334.37	32.39	73.062		
6,300.00	6,173.83	6,535.34	6,403.55	18.98	18.86	161.07	-391.97	-1,233.36	2,368.81	2,334.37	32.70	72.436		
6,400.00	6,273.26	6,600.00	6,467.95	19.16	18.97	161.17	-390.54	-1,240.00	2,369.98	2,336.99	33.00	71.822		
5, .50.00	0,2.0.20	0,000.00	5, .57.50	10.10	. 5.51		500.04	.,	2,000.00	_,000.00	30.00			
6,500.00	6,372.94	6,659.88	6,527.66	19.31	19.05	161.23	-389.46	-1,236.79	2,370.27	2,337.01	33.26	71.274		
6,600.00	6,472.79	6,722.22	6,589.89	19.42	19.13	161.27	-388.57	-1,233.22	2,369.67	2,336.17	33.50	70.742		
6,700.00	6,572.74	6,800.00	6,667.60	19.52	19.21	161.30	-387.81	-1,230.15	2,368.26	2,334.51	33.75	70.163		
6,800.00	6,672.74	6,846.97	6,714.56	19.54	19.24	-90.42	-387.53	-1,229.04	2,366.02	2,332.23	33.79	70.022		
6,900.00	6,772.74	6,909.39	6,776.97	19.58	19.29	-90.41	-387.38	-1,228.44	2,365.05	2,331.20	33.85	69.867		
6,937.56	6,810.30	6,942.72	6,810.30	19.60	19.30	-90.41	-387.38	-1,228.43	2,365.04	2,331.17	33.87	69.824		
7,000.00	6,872.74	7,005.16	6,872.74	19.62	19.33	-90.41	-387.38	-1,228.43	2,365.04	2,331.12	33.92	69.725		
7,100.00	6,972.74	7,105.16	6,972.74	19.66	19.38	-90.41	-387.38	-1,228.43	2,365.04	2,331.04	34.01	69.548		
7,200.00	7,072.74	7,205.16	7,072.74	19.70	19.43	-90.41	-387.38	-1,228.43	2,365.04	2,330.95	34.09	69.371		
7,300.00	7,172.74	7,305.16	7,172.74	19.74	19.48	-90.41	-387.38	-1,228.43	2,365.04	2,330.86	34.18	69.193		
7,400.00	7,272.74	7,405.16	7,272.74	19.77	19.53	-90.41	-387.38	-1,228.43	2,365.04	2,330.77	34.27	69.015		
7,500.00	7,372.74	7,505.16	7,372.74	19.81	19.58	-90.41	-387.38	-1,228.43	2,365.04	2,330.68	34.36	68.837		
7,600.00	7,472.74	7,605.16	7,472.74	19.85	19.63	-90.41	-387.38	-1,228.43	2,365.04	2,330.59	34.45	68.659		
7,700.00	7,572.74	7,705.16	7,572.74	19.89	19.68	-90.41	-387.38	-1,228.43	2,365.04	2,330.51	34.54	68.481		
7,800.00	7,672.74	7,805.16	7,672.74	19.93	19.73	-90.41	-387.38	-1,228.43	2,365.04	2,330.42	34.63	68.302		
7,900.00	7,772.74	7,905.16	7,772.74	19.97	19.78	-90.41	-387.38	-1,228.43	2,365.04	2,330.32	34.72	68.124		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН

Plan #2 Reference Design:

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

Depth (usft) 8,000.00 8,100.00 8,200.00 8,300.00 8,400.00 8,500.00 8,600.00 8,700.00 8,800.00 8,900.00 9,100.00 9,200.00	nce Vertical Depth (usft) 7,872.74 7,972.74 8,072.74 8,072.74 8,372.74 8,372.74 8,472.74 8,672.74 8,772.74 8,872.74 8,872.74	Measured Depth (usft) 8,005.16 8,105.16 8,205.16 8,305.16 8,405.16 8,505.16 8,605.16 8,705.16 8,805.16 9,005.16	Vertical Depth (usft) 7,872.74 7,972.74 8,072.74 8,172.74 8,272.74 8,372.74 8,472.74 8,572.74 8,672.74	Semi M Reference (usft)	laior Axis Offset (usft) 19.83 19.88 19.93 19.99 20.04 20.09	Highside Toolface (°) -90.41 -90.41 -90.41 -90.41 -90.41	-387.38 -387.38 -387.38 -387.38 -387.38 -387.38 -387.38 -387.38	+E/-W (usft) -1,228.43 -1,228.43 -1,228.43	Dist Between Centres (usft) 2,365.04 2,365.04	Between Ellipses (usft) 2,330.23	Minimum Separation (usft) 34.81	Separation Factor	Warning	
Depth (usft) 8,000.00 8,100.00 8,200.00 8,300.00 8,400.00 8,500.00 8,600.00 8,700.00 8,800.00 8,900.00 9,100.00 9,200.00	Depth (usft) 7,872.74 7,972.74 8,072.74 8,172.74 8,172.74 8,372.74 8,372.74 8,472.74 8,572.74 8,672.74 8,772.74 8,872.74	Depth (usft) 8,005.16 8,105.16 8,205.16 8,305.16 8,405.16 8,505.16 8,605.16 8,705.16 8,805.16 8,905.16	Depth (usft) 7,872.74 7,972.74 8,072.74 8,172.74 8,272.74 8,372.74 8,472.74 8,572.74 8,672.74	20.01 20.05 20.10 20.14 20.18 20.22 20.26	(usft) 19.83 19.88 19.93 19.99 20.04 20.09	Toolface (°) -90.41 -90.41 -90.41 -90.41	-387.38 -387.38 -387.38 -387.38 -387.38	(usft) -1,228.43 -1,228.43 -1,228.43	Centres (usft) 2,365.04	Ellipses (usft) 2,330.23	Separation (usft)	Factor		
8,000.00 8,100.00 8,200.00 8,300.00 8,400.00 8,500.00 8,500.00 8,700.00 8,800.00 8,900.00 9,000.00 9,100.00 9,200.00	7,872.74 7,972.74 8,072.74 8,172.74 8,272.74 8,372.74 8,472.74 8,572.74 8,672.74 8,772.74 8,872.74	8,005.16 8,105.16 8,205.16 8,305.16 8,405.16 8,505.16 8,605.16 8,705.16 8,805.16 8,905.16	7,872.74 7,972.74 8,072.74 8,172.74 8,272.74 8,372.74 8,472.74 8,572.74 8,672.74	20.01 20.05 20.10 20.14 20.18 20.22	19.83 19.88 19.93 19.99 20.04 20.09	-90.41 -90.41 -90.41 -90.41	-387.38 -387.38 -387.38 -387.38 -387.38	-1,228.43 -1,228.43 -1,228.43	2,365.04	2,330.23		67.945		
8,100.00 8,200.00 8,300.00 8,400.00 8,500.00 8,600.00 8,700.00 8,800.00 8,900.00 9,000.00 9,100.00 9,200.00	7,972.74 8,072.74 8,172.74 8,272.74 8,372.74 8,472.74 8,572.74 8,672.74 8,772.74 8,872.74	8,105.16 8,205.16 8,305.16 8,405.16 8,505.16 8,605.16 8,705.16 8,805.16 8,905.16	7,972.74 8,072.74 8,172.74 8,272.74 8,372.74 8,472.74 8,572.74 8,672.74	20.05 20.10 20.14 20.18 20.22	19.88 19.93 19.99 20.04 20.09	-90.41 -90.41 -90.41 -90.41	-387.38 -387.38 -387.38 -387.38	-1,228.43 -1,228.43			34.81	67.945		
8,200.00 8,300.00 8,400.00 8,500.00 8,700.00 8,800.00 9,000.00 9,100.00 9,200.00	8,072.74 8,172.74 8,272.74 8,372.74 8,372.74 8,472.74 8,572.74 8,672.74 8,772.74 8,872.74	8,205.16 8,305.16 8,405.16 8,505.16 8,605.16 8,705.16 8,805.16 8,905.16	8,072.74 8,172.74 8,272.74 8,372.74 8,472.74 8,572.74 8,672.74	20.10 20.14 20.18 20.22 20.26	19.93 19.99 20.04 20.09	-90.41 -90.41 -90.41	-387.38 -387.38 -387.38	-1,228.43	2 365 04					
8,300.00 8,400.00 8,500.00 8,600.00 8,700.00 8,800.00 9,000.00 9,100.00 9,200.00	8,172.74 8,272.74 8,372.74 8,472.74 8,572.74 8,672.74 8,772.74 8,872.74	8,305.16 8,405.16 8,505.16 8,605.16 8,705.16 8,805.16 8,905.16	8,172.74 8,272.74 8,372.74 8,472.74 8,572.74 8,672.74	20.14 20.18 20.22 20.26	19.99 20.04 20.09	-90.41 -90.41	-387.38 -387.38		2,000.04	2,330.14	34.90	67.766		
8,400.00 8,500.00 8,600.00 8,700.00 8,800.00 8,900.00 9,100.00 9,200.00	8,272.74 8,372.74 8,472.74 8,572.74 8,672.74 8,772.74 8,872.74	8,405.16 8,505.16 8,605.16 8,705.16 8,805.16 8,905.16	8,272.74 8,372.74 8,472.74 8,572.74 8,672.74	20.18 20.22 20.26	20.04 20.09	-90.41	-387.38		2,365.04	2,330.05	34.99	67.588		
8,500.00	8,372.74 8,472.74 8,572.74 8,672.74 8,772.74 8,872.74	8,505.16 8,605.16 8,705.16 8,805.16 8,905.16	8,372.74 8,472.74 8,572.74 8,672.74	20.22 20.26	20.09			-1,228.43	2,365.04	2,329.96	35.09	67.409		
8,600.00	8,472.74 8,572.74 8,672.74 8,772.74 8,872.74	8,605.16 8,705.16 8,805.16 8,905.16	8,472.74 8,572.74 8,672.74	20.26		-90.41	-387.38	-1,228.43	2,365.04	2,329.86	35.18	67.230		
8,700.00 8,800.00 8,900.00 9,000.00 9,100.00 9,200.00	8,572.74 8,672.74 8,772.74 8,872.74	8,705.16 8,805.16 8,905.16	8,572.74 8,672.74		20 14			-1,228.43	2,365.04	2,329.77	35.27	67.051		
8,800.00 8,900.00 9,000.00 9,100.00 9,200.00	8,672.74 8,772.74 8,872.74	8,805.16 8,905.16	8,672.74	20.30	∠U. I4	-90.41	-387.38	-1,228.43	2,365.04	2,329.67	35.37	66.872		
8,900.00 9,000.00 9,100.00 9,200.00	8,772.74 8,872.74	8,905.16			20.20	-90.41	-387.38	-1,228.43	2,365.04	2,329.58	35.46	66.693		
9,000.00 9,100.00 9,200.00	8,872.74			20.35	20.25	-90.41	-387.38	-1,228.43	2,365.04	2,329.48	35.56	66.515		
9,100.00 9,200.00		9,005.16	8,772.74	20.39	20.30	-90.41	-387.38	-1,228.43	2,365.04	2,329.39	35.65	66.336		
9,200.00	8,972.74		8,872.74	20.43	20.36	-90.41	-387.38	-1,228.43	2,365.04	2,329.29	35.75	66.157		
		9,105.16	8,972.74	20.48	20.41	-90.41	-387.38	-1,228.43	2,365.04	2,329.20	35.85	65.979		
0.000.00	9,072.74	9,205.16	9,072.74	20.52	20.46	-90.41	-387.38	-1,228.43	2,365.04	2,329.10	35.94	65.800		
9,300.00	9,172.74	9,305.16	9,172.74	20.56	20.52	-90.41	-387.38	-1,228.43	2,365.04	2,329.00	36.04	65.622		
9,400.00	9,272.74	9,405.16	9,272.74	20.61	20.57	-90.41	-387.38	-1,228.43	2,365.04	2,328.90	36.14	65.443		
9,500.00	9,372.74	9,505.16	9,372.74	20.65	20.62	-90.41	-387.38	-1,228.43	2,365.04	2,328.80	36.24	65.265		
9,600.00	9,472.74	9,605.16	9,472.74	20.70	20.68	-90.41	-387.38	-1,228.43	2,365.04	2,328.70	36.34	65.087		
	9,572.74	9,705.16	9,572.74	20.74	20.73	-90.41	-387.38	-1,228.43	2,365.04	2,328.60	36.44	64.909		
	9,672.74	9,805.16	9,672.74	20.79	20.79	-90.41	-387.38	-1,228.43	2,365.04	2,328.50	36.54	64.731		
	9,772.74	9,905.16	9,772.74	20.83	20.84	-90.41	-387.38	-1,228.43	2,365.04	2,328.40	36.64	64.554		
	9,872.74	10,005.16	9,872.74	20.88	20.90	-90.41	-387.38	-1,228.43	2,365.04	2,328.30	36.74	64.376		
0,100.00	9,972.74	10,105.16	9,972.74	20.92	20.95	-90.41	-387.38	-1,228.43	2,365.04	2,328.20	36.84	64.199		
0,200.00 1	10,072.74	10,205.16	10,072.74	20.97	21.01	-90.41	-387.38	-1,228.43	2,365.04	2,328.10	36.94	64.022		
0,300.00 1	10,172.74	10,305.16	10,172.74	21.01	21.06	-90.41	-387.38	-1,228.43	2,365.04	2,328.00	37.04	63.846		
0,400.00 1	10,272.74	10,405.16	10,272.74	21.06	21.12	-90.41	-387.38	-1,228.43	2,365.04	2,327.90	37.15	63.669		
0,500.00 1	10,372.74	10,505.16	10,372.74	21.11	21.18	-90.41	-387.38	-1,228.43	2,365.04	2,327.79	37.25	63.493		
0,600.00 1	10,472.74	10,605.16	10,472.74	21.15	21.23	-90.41	-387.38	-1,228.43	2,365.04	2,327.69	37.35	63.317		
	10,572.74	10,705.16	10,572.74	21.20	21.29	-90.41	-387.38	-1,228.43	2,365.04	2,327.58	37.46	63.141		
	10,672.74	10,805.16	10,672.74	21.25	21.35	-90.41	-387.38	-1,228.43	2,365.04	2,327.48	37.56	62.966		
	10,772.74	10,905.16	10,772.74	21.29	21.40	-90.41	-387.38	-1,228.43	2,365.04	2,327.38	37.67	62.790		
	10,872.74	11,005.16	10,872.74	21.34	21.46	-90.41	-387.38	-1,228.43	2,365.04	2,327.27	37.77	62.615		
1,100.00 1	10,972.74	11,105.16	10,972.74	21.39	21.52	-90.41	-387.38	-1,228.43	2,365.04	2,327.16	37.88	62.441		
	11,072.74	11,205.16	11,072.74	21.44	21.57	-90.41	-387.38	-1,228.43	2,365.04	2,327.06	37.98	62.266		
	11,172.74	11,305.16	11,172.74	21.49	21.63	-90.41	-387.38	-1,228.43	2,365.04	2,326.95	38.09	62.093		
	11,272.74	11,405.16	11,272.74	21.53	21.69	-90.41	-387.38	-1,228.43	2,365.04	2,326.85	38.20	61.919		
	11,372.74	11,505.16	11,372.74	21.58	21.74	-90.41	-387.38	-1,228.43	2,365.04	2,326.74	38.30	61.745		
1,600.00 1	11,472.74	11,605.16	11,472.74	21.63	21.80	-90.41	-387.38	-1,228.43	2,365.04	2,326.63	38.41	61.573		
	11,572.74	11,705.26	11,572.84	21.68	21.85	-90.42	-387.69	-1,228.43	2,365.04	2,326.54	38.50	61.429		
	11,616.15	11,748.69	11,616.15	21.70	21.88	-90.42	-390.76	-1,228.40	2,365.04	2,326.52	38.51	61.429		
	11,672.74	11,804.17	11,670.93	21.70	21.00	-90.49	-399.44	-1,228.33	2,365.06	2,326.52	38.52	61.394		
1,900.00 1		11,896.50		21.78	21.95	-91.33	-425.47	-1,228.10	2,365.33	2,326.81	38.52	61.399		
2,000.00 1	11,872.61	11,980.16	11,835.04	21.84	21.98	88.32	-461.04	-1,227.80	2,366.28	2,327.78	38.50	61.467		
	11,970.52	12,059.63	11,901.38	21.99	22.02	87.45	-504.69	-1,227.42	2,367.80	2,329.27	38.52	61.464		
	12,063.53	12,136.18	11,958.98	22.19	22.06	86.63	-555.02	-1,226.99	2,369.69	2,331.05	38.64	61.329		
	12,148.80	12,210.48	12,007.99	22.45	22.13	85.89	-610.80	-1,226.51	2,371.76	2,332.90	38.86	61.041		
	12,223.74	12,283.05	12,048.51	22.78	22.23	85.24	-670.94	-1,225.99	2,373.82	2,334.64	39.18	60.582		
2,500.00 1:	12,286.09	12,350.00	12,078.87	23.20	22.36	84.72	-730.56	-1,225.47	2,375.71	2,336.10	39.61	59.976		
	12,333.93	12,424.65	12,104.27	23.71	22.54	84.29	-800.70	-1,224.87	2,377.26	2,337.08	40.18	59.165		
	12,365.83	12,500.00	12,120.45	24.31	22.77	83.99	-874.23	-1,224.24	2,378.37	2,337.51	40.86	58.207		
	12,380.81	12,563.66	12,126.51	24.99	23.00	83.86	-937.57	-1,223.69	2,378.95	2,337.38	41.57	57.229		
	12,382.30	12,655.76	12,127.58	25.74	23.39	83.85	-1,029.66	-1,222.90	2,379.02	2,336.45	42.57	55.889		
	12,382.83		12,128.46	26.54	23.87	83.86	-1,129.65	-1,222.04	2,379.03	2,335.26	43.76	54.361		

Anticollision Report

TVD Reference:



Civitas Resources Company:

Project: Lea County, NM (NAD 83)

Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Well Error: 0.50 usft

Reference Design:

Reference Wellbore ОН

Reference Well: Junior Mint Fed 218H

Plan #2

Local Co-ordinate Reference: Well Junior Mint Fed 218H

GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

onset De	sign: Julie	n mint i eu	rau - Jui	nior Mint Fe	u 13/H-(Jn - Plan Z							Offset Site Error:	0.00 usft
Survey Progr Refe	ram: 20	4-MWD+HRGI Off			MWD+HRGM	I+SAG+FDIR (rev	v.5) Offset Wellb	ore Centre	Dist	Rule Assi	gned:		Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
13,100.00	12,383.35	12,855.76	12,129.33	27.39	24.40	(°) 83.87	-1,229.64	-1,221.18	2,379.04	2,333.94	45.09	52.759		
13,200.00	12,383.88	12,955.76	12,130.20	28.28	24.99	83.88	-1,329.63	-1,220.31	2,379.05	2,332.50	46.54	51.114		
13,300.00	12,384.40	13,055.76	12,131.07	29.20	25.63	83.89	-1,429.62	-1,219.45	2,379.06	2,330.95	48.11	49.454		
13,400.00	12,384.93	13,155.76	12,131.94	30.16	26.31	83.90	-1,529.61	-1,218.59	2,379.07	2,329.30	49.77	47.801		
13,500.00	12,385.46	13,255.75	12,132.81	31.14	27.03	83.90	-1,629.61	-1,217.73	2,379.08	2,327.55	51.53	46.173		
13,600.00	12,385.98	13,355.75	12,133.69	32.15	27.80	83.91	-1,729.60	-1,216.87	2,379.09	2,325.72	53.36	44.582		
13,700.00	12,386.51	13,455.75	12,134.56	33.18	28.60	83.92	-1,829.59	-1,216.01	2,379.10	2,323.82	55.28	43.039		
13,800.00	12,387.03	13,555.75	12,135.43	34.23	29.44	83.93	-1,929.58	-1,215.15	2,379.11	2,321.85	57.26	41.550		
13,900.00	12,387.56	13,655.75	12,136.30	35.31	30.31	83.94	-2,029.57	-1,214.28	2,379.12	2,319.82	59.30	40.119		
14,000.00	12,388.09	13,755.75	12,137.17	36.40	31.22	83.95	-2,129.57	-1,213.42	2,379.13	2,317.73	61.40	38.750		
14,100.00	12,388.61	13,855.75	12,138.04	37.51	32.15	83.95	-2,229.56	-1,212.56	2,379.14	2,315.60	63.54	37.442		
14,200.00	12,389.14	13,955.75	12,138.92	38.63	33.11	83.96	-2,329.55	-1,211.70	2,379.15	2,313.42	65.73	36.195		
14,300.00	12,389.66	14,055.75	12,139.79	39.77	34.10	83.97	-2,429.54	-1,210.84	2,379.16	2,311.20	67.96	35.007		
14,400.00	12,390.19	14,155.75	12,140.66	40.92	35.11	83.98	-2,529.53	-1,209.98	2,379.17	2,308.94	70.23	33.878		
14,500.00	12,390.71	14,255.75	12,141.53	42.08	36.14	83.99	-2,629.53	-1,209.12	2,379.18	2,306.66	72.53	32.805		
14,600.00	12,391.24	14,355.75	12,142.40	43.26	37.19	84.00	-2,729.52	-1,208.26	2,379.19	2,304.34	74.85	31.785		
14,700.00	12,391.77	14,455.75	12,143.27	44.44	38.27	84.00	-2,829.51	-1,207.39	2,379.20	2,301.99	77.21	30.816		
14,800.00	12,392.29	14,555.75	12,144.14	45.64	39.36	84.01	-2,929.50	-1,206.53	2,379.21	2,299.63	79.59	29.895		
14,900.00	12,392.82	14,655.75	12,145.02	46.84	40.46	84.02	-3,029.49	-1,205.67	2,379.22	2,297.24	81.99	29.019		
15,000.00	12,393.34	14,755.75	12,145.89	48.05	41.58	84.03	-3,129.48	-1,204.81	2,379.24	2,294.83	84.41	28.187		
15,100.00	12,393.87	14,855.74	12,146.76	49.27	42.72	84.04	-3,229.48	-1,203.95	2,379.25	2,292.40	86.85	27.395		
15,200.00	12,394.40	14,955.74	12,147.63	50.50	43.86	84.05	-3,329.47	-1,203.09	2,379.26	2,289.95	89.31	26.641		
15,300.00	12,394.92	15,055.74	12,148.50	51.73	45.02	84.06	-3,429.46	-1,202.23	2,379.27	2,287.49	91.78	25.924		
15,400.00	12,395.45	15,155.74	12,149.37	52.97	46.19	84.06	-3,529.45	-1,201.37	2,379.28	2,285.01	94.27	25.240		
15,500.00	12,395.97	15,255.74	12,150.25	54.21	47.38	84.07	-3,629.44	-1,200.50	2,379.29	2,282.52	96.77	24.588		
15,600.00	12,396.50	15,355.74	12,151.12	55.47	48.57	84.08	-3,729.44	-1,199.64	2,379.30	2,280.02	99.28	23.965		
15,700.00	12,397.03	15,455.74	12,151.99	56.72	49.77	84.09	-3,829.43	-1,198.78	2,379.31	2,277.51	101.80	23.371		
15,800.00	12,397.55	15,555.74	12,152.86	57.98	50.98	84.10	-3,929.42	-1,197.92	2,379.32	2,274.99	104.34	22.804		
15,900.00	12,398.08	15,655.74	12,153.73	59.25	52.19	84.11	-4,029.41	-1,197.06	2,379.34	2,272.45	106.88	22.261		
16,000.00	12,398.60	15,755.74	12,154.60	60.52	53.41	84.11	-4,129.40	-1,196.20	2,379.35	2,269.91	109.44	21.742		
16,100.00	12,399.13	15,855.74	12,155.48	61.79	54.64	84.12	-4,229.40	-1,195.34	2,379.36	2,267.36	112.00	21.244		
16,200.00	12,399.65	15,955.74	12,156.35	63.07	55.88	84.13	-4,329.39	-1,194.48	2,379.37	2,264.80	114.57	20.768		
16,300.00	12,400.18	16,055.74	12,157.22	64.35	57.12	84.14	-4,429.38	-1,193.61	2,379.38	2,262.24	117.15	20.311		
16,400.00	12,400.71	16,155.74	12,158.09	65.63	58.37	84.15	-4,529.37	-1,192.75	2,379.39	2,259.66	119.73	19.873		
16,500.00	12,401.23	16,255.74	12,158.96	66.92	59.63	84.16	-4,629.36	-1,191.89	2,379.41	2,257.08	122.32	19.452		
16,600.00	12,401.76	16,355.74	12,159.83	68.21	60.88	84.16	-4,729.35	-1,191.03	2,379.42	2,254.50	124.92	19.048		
16,700.00	12,402.28	16,455.74	12,160.71	69.51	62.15	84.17	-4,829.35	-1,190.17	2,379.43	2,251.91	127.52	18.659		
16,800.00	12,402.81	16,555.73	12,161.58	70.80	63.42	84.18	-4,929.34	-1,189.31	2,379.44	2,249.31	130.13	18.285		
16,900.00	12,403.34	16,655.73	12,162.45	72.10	64.69	84.19	-5,029.33	-1,188.45	2,379.45	2,246.71	132.74	17.926		
17,000.00	12,403.86	16,755.73	12,163.32	73.40	65.96	84.20	-5,129.32	-1,187.59	2,379.47	2,244.11	135.36	17.579		
17,100.00	12,404.39	16,855.73	12,164.19	74.71	67.24	84.21	-5,229.31	-1,186.72	2,379.48	2,241.50	137.98	17.245		
17,200.00	12,404.91	16,955.73	12,165.06	76.01	68.52	84.21	-5,329.31	-1,185.86	2,379.49	2,238.88	140.60	16.923		
17,300.00	12,405.44	17,055.73	12,165.94	77.32	69.81	84.22	-5,429.30	-1,185.00	2,379.50	2,236.27	143.23	16.613		
17,400.00	12,405.96	17,155.73	12,166.81	78.63	71.10	84.23	-5,529.29	-1,184.14	2,379.51	2,233.64	145.87	16.313		
17,500.00 17,600.00	12,406.49 12,407.02	17,255.73 17,355.73	12,167.68 12,168.55	79.94 81.26	72.39 73.69	84.24 84.25	-5,629.28 -5,729.27	-1,183.28 -1,182.42	2,379.53 2,379.54	2,231.02 2,228.39	148.51 151.15	16.023 15.743		
17,700.00	12,407.54	17,455.73	12,169.42	82.57	74.98	84.26	-5,829.27	-1,181.56	2,379.55	2,225.76	153.79	15.473		
17,800.00	12,408.07	17,555.73	12,170.29	83.89	76.28	84.27	-5,929.26	-1,180.69	2,379.56	2,223.13	156.44	15.211		
17,900.00	12,408.59	17,655.73	12,171.16	85.21	77.59	84.27	-6,029.25	-1,179.83	2,379.58	2,220.49	159.09	14.958		
18,000.00	12,409.12	17,755.73	12,172.04 12,172.91	86.53 87.85	78.89 80.20	84.28	-6,129.24 -6.229.23	-1,178.97 -1,178.11	2,379.59	2,217.85	161.74	14.712		
18,100.00	12,409.65	17,855.73	12,172.91	87.85	80.20	84.29	-6,229.23	-1,178.11	2,379.60	2,215.21	164.39	14.475		
18,200.00	12,410.17	17,955.73	12,173.78	89.18	81.51	84.30	-6,329.22	-1,177.25	2,379.61	2,212.56	167.05	14.245		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83)

Junior Mint Fed Pad Reference Site:

0.00 usft Site Error: Reference Well: Junior Mint Fed 218H

ОН

Well Error: 0.50 usft

Reference Wellbore Reference Design: Plan #2 Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

urvey Progr	ram: 20	4-MWD+HRG	M+SAG+FDIF	R (rev.5), 1003-	MWD+HRGN	I+SAG+FDIR (rev.	.5)			Rule Assi	gned:		Offset Well Error:	0.50 us
Refe	rence	Off			lajor Axis Offset	Liabaida	Offset Wellb	ore Centre		tance		Congration		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Oliset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
18,300.00	12,410.70	18,055.73	12,174.65	90.50	82.82	84.31	-6,429.22	-1,176.39	2,379.63	2,209.91	169.71	14.022		
18,400.00	12,411.22	18,155.72	12,175.52	91.83	84.13	84.32	-6,529.21	-1,175.53	2,379.64	2,207.26	172.37	13.805		
18,500.00	12,411.75	18,255.72	12,176.39	93.15	85.45	84.32	-6,629.20	-1,174.67	2,379.65	2,204.61	175.04	13.595		
18,600.00	12,412.27	18,355.72	12,177.27	94.48	86.76	84.33	-6,729.19	-1,173.80	2,379.66	2,201.96	177.71	13.391		
18,700.00	12,412.80	18,455.72	12,178.14	95.81	88.08	84.34	-6,829.18	-1,172.94	2,379.68	2,199.30	180.37	13.193		
18,800.00	12,413.33	18,555.72	12,179.01	97.14	89.40	84.35	-6,929.18	-1,172.08	2,379.69	2,196.64	183.04	13.001		
18,900.00	12,413.85	18,655.72	12,179.88	98.47	90.72	84.36	-7,029.17	-1,171.22	2,379.70	2,193.99	185.72	12.814		
19,000.00	12,414.38	18,755.72	12,180.75	99.81	92.04	84.37	-7,129.16	-1,170.36	2,379.72	2,191.32	188.39	12.632		
19,100.00	12,414.90	18,855.72	12,181.62	101.14	93.37	84.37	-7,229.15	-1,169.50	2,379.73	2,188.66	191.07	12.455		
19,200.00	12,415.43	18,955.72	12,182.50	102.47	94.69	84.38	-7,329.14	-1,168.64	2,379.74	2,186.00	193.74	12.283		
19,300.00	12,415.96	19,055.72	12,183.37	103.81	96.02	84.39	-7,429.14	-1,167.78	2,379.75	2,183.33	196.42	12.115		
19,400.00	12,416.48	19,155.72	12,184.24	105.15	97.35	84.40	-7,529.13	-1,166.91	2,379.77	2,180.66	199.10	11.952		
19,500.00	12,417.01	19,255.72	12,185.11	106.48	98.68	84.41	-7,629.12	-1,166.05	2,379.78	2,178.00	201.79	11.794		
19,600.00	12,417.53	19,355.72	12,185.98	107.82	100.01	84.42	-7,729.11	-1,165.19	2,379.79	2,175.33	204.47	11.639		
19,700.00	12,418.06	19,455.72	12,186.85	109.16	101.34	84.42	-7,829.10	-1,164.33	2,379.81	2,172.65	207.15	11.488		
19,800.00	12,418.59	19,555.72	12,187.73	110.50	102.67	84.43	-7,929.10	-1,163.47	2,379.82	2,169.98	209.84	11.341		
19,900.00	12,419.11	19,655.72	12,188.60	111.84	104.00	84.44	-8,029.09	-1,162.61	2,379.83	2,167.31	212.53	11.198		
20,000.00	12,419.64	19,755.72	12,189.47	113.18	105.34	84.45	-8,129.08	-1,161.75	2,379.85	2,164.63	215.21	11.058		
20,100.00	12,420.16	19,855.71	12,190.34	114.52	106.67	84.46	-8,229.07	-1,160.89	2,379.86	2,161.96	217.90	10.922		
20,200.00	12,420.69	19,955.71	12,191.21	115.86	108.01	84.47	-8,329.06	-1,160.02	2,379.88	2,159.28	220.59	10.788		
20,300.00	12,421.21	20,055.71	12,192.08	117.20	109.34	84.48	-8,429.05	-1,159.16	2,379.89	2,156.60	223.29	10.659		
20,400.00	12,421.74	20,155.71	12,192.96	118.55	110.68	84.48	-8,529.05	-1,158.30	2,379.90	2,153.92	225.98	10.532		
20,500.00	12,422.27	20,255.71	12,193.83	119.89	112.02	84.49	-8,629.04	-1,157.44	2,379.92	2,151.25	228.67	10.408		
20,600.00	12,422.79	20,355.71	12,194.70	121.24	113.36	84.50	-8,729.03	-1,156.58	2,379.93	2,148.56	231.37	10.286		
20,700.00	12,423.32	20,455.71	12,195.57	122.58	114.70	84.51	-8,829.02	-1,155.72	2,379.94	2,145.88	234.06	10.168		
20,800.00	12,423.84	20,555.71	12,196.44	123.93	116.04	84.52	-8,929.01	-1,154.86	2,379.96	2,143.20	236.76	10.052		
20,900.00	12,424.37	20,655.71	12,197.31	125.27	117.38	84.53	-9,029.01	-1,154.00	2,379.97	2,140.52	239.46	9.939		
21,000.00	12,424.90	20,755.71	12,198.18	126.62	118.72	84.53	-9,129.00	-1,153.13	2,379.99	2,137.83	242.15	9.828		
21,100.00	12,425.42	20,855.71	12,199.06	127.97	120.06	84.54	-9,228.99	-1,152.27	2,380.00	2,135.15	244.85	9.720		
21,200.00	12,425.95	20,955.71	12,199.93	129.31	121.40	84.55	-9,328.98	-1,151.41	2,380.01	2,132.46	247.55	9.614		
21,300.00	12,426.47	21,055.71	12,200.80	130.66	122.75	84.56	-9,428.97	-1,150.55	2,380.03	2,129.78	250.25	9.511		
21,400.00	12,427.00	21,155.71	12,201.67	132.01	124.09	84.57	-9,528.97	-1,149.69	2,380.04	2,127.09	252.95	9.409		
21,500.00	12,427.52	21,255.71	12,202.54	133.36	125.44	84.58	-9,628.96	-1,148.83	2,380.06	2,124.40	255.66	9.310		
21,600.00	12,428.05	21,355.71	12,203.41	134.71	126.78	84.58	-9,728.95	-1,147.97	2,380.07	2,121.71	258.36	9.212		
21,700.00	12,428.58	21,455.70	12,204.29	136.06	128.13	84.59	-9,828.94	-1,147.11	2,380.09	2,119.02	261.06	9.117		
21,800.00	12,429.10	21,555.70	12,205.16	137.41	129.47	84.60	-9,928.93	-1,146.24	2,380.10	2,116.34	263.77	9.024		
21,900.00	12,429.63	21,655.70	12,206.03	138.76	130.82	84.61	-10,028.92	-1,145.38	2,380.11	2,113.64	266.47	8.932		
22,000.00	12,430.15	21,755.70	12,206.90	140.11	132.17	84.62	-10,128.92	-1,144.52	2,380.13	2,110.95	269.18	8.842		
22,100.00	12,430.68	21,855.70	12,207.77	141.46	133.52	84.63	-10,228.91	-1,143.66	2,380.14	2,108.26	271.88	8.754		
22,200.00	12,431.21	21,955.70	12,208.64	142.81	134.86	84.63	-10,328.90	-1,142.80	2,380.16	2,105.57	274.59	8.668		
	12,431.73	22,055.70		144.16	136.21	84.64	-10,428.89	-1,141.94	2,380.17	2,102.88	277.29	8.584		
22,400.00	12,432.26	22,155.70	12,210.39	145.51	137.56	84.65	-10,528.88	-1,141.08	2,380.19	2,100.19	280.00	8.501		
,	12,432.78	22,255.70	12,211.26	146.87	138.91	84.66	-10,628.88	-1,140.21	2,380.20	2,097.49	282.71	8.419		
22,600.00	12,433.31	22,355.70	12,212.13	148.22	140.26	84.67	-10,728.87	-1,139.35	2,380.22	2,094.80	285.42	8.339		
22,700.00	12,433.83	22,455.70	12,213.00	149.57	141.61	84.68	-10,828.86	-1,138.49	2,380.23	2,092.10	288.13	8.261		
	12,433.84	22,456.82	12,213.01	149.59	141.63	84.68	-10,829.98	-1,138.48	2,380.23	2,092.07	288.16	8.260		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83)

Plan #2

Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН

Reference Design:

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Minimum Curvature **Survey Calculation Method:**

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

Offect Decign	Junior Mint Fed Pad -	Junior Mint Fed	138H - OH - Plan #2

Offset Site Error:	0.00 usft

						511 - 1 Idil #2							Offset Site Error:	0.00 us
urvey Prog		//WD+HRGM+								Rule Assi	gned:		Offset Well Error:	0.50 us
	rence	Off			Major Axis	I II also a tota	Offset Wellbo	ore Centre		tance		0	147	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S	. = / 14/	Between	Between	Minimum	Separation	Warn	ng
Depth	Depth	Depth	Depth	(ft)	(Toolface	(usft)	+E/-W (usft)	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)			(usft)	(usft)	(usft)			
0.00	0.00	0.00	0.00	0.50	0.50	-45.00	25.00	-25.00	35.36					
100.00	100.00	100.00	100.00	0.98	0.98	-45.00	25.00	-25.00	35.36	33.39	1.96	18.018		
200.00	200.00	200.00	200.00	1.56	1.56	-45.00	25.00	-25.00	35.36	32.23	3.12	11.324		
300.00	300.00	300.00	300.00	1.98	1.98	-45.00	25.00	-25.00	35.36	31.39	3.96	8.923	CC, ES	
400.00	399.99	399.99	399.99	2.41	2.33	-153.15	25.00	-25.00	36.52	31.80	4.72	7.734		
500.00	499.91	499.91	499.91	2.78	2.63	-155.66	25.00	-25.00	40.06	34.68	5.38	7.441		
600.00	599.69	599.69	599.69	3.11	2.91	-158.98	25.00	-25.00	46.10	40.11	5.99	7.697		
700.00	699.27	699.98	699.98	3.42	3.02	-162.43	24.79	-24.75	54.42	48.01	6.41	8.486		
800.00	798.57	801.08	801.04	3.71	3.32	-165.89	23.08	-22.71	63.14	56.14	7.00	9.021		
900.00	897.62	902.42	902.23	3.84	3.59	-169.27	19.64	-18.61	71.43	64.03	7.40	9.648		
1,000.00	996.65	1,003.67	1,003.17	4.07	3.77	-172.45		-12.51	77.56		7.80	9.942		
1,000.00	990.00	1,003.67	1,003.17	4.07	3.77	-172.45	14.52	-12.51	77.50	69.76	7.00	9.942		
1 100 00	1 005 67	1 102 11	1 100 FG	4.20	2.07	175 20	0.03	E 0E	92.09	74.04	0.00	10.000		
1,100.00	1,095.67	1,103.44	1,102.56	4.29	3.97	-175.30	8.93	-5.85	83.08	74.84	8.23	10.089		
1,200.00	1,194.70	1,203.21	1,201.95	4.51	4.17	-177.78	3.34	0.81	88.78	80.12	8.66	10.251		
1,300.00	1,293.73	1,302.98	1,301.34	4.73	4.37	-179.96	-2.25	7.48	94.62	85.54	9.08	10.421		
1,400.00	1,392.75	1,402.76	1,400.74	4.95	4.57	178.11	-7.84	14.14	100.59	91.09	9.50	10.589		
1,500.00	1,491.78	1,505.37	1,502.84	5.17	4.80	176.37	-13.90	22.35	105.29	95.36	9.93	10.602		
1,600.00	1,590.81	1,608.17	1,604.84	5.38	5.04	174.75	-20.57	33.25	107.40	97.03	10.37	10.358		
1,700.00	1,689.83	1,711.02	1,706.52	5.59	5.28	173.14	-27.85	46.84	106.89	96.09	10.80	9.895		
1,800.00	1,788.86	1,813.75	1,807.65	5.80	5.51	171.42	-35.73	63.08	103.78	92.55	11.23	9.240		
1,900.00	1,887.89	1,916.23	1,908.03	6.01	5.73	169.42	-44.17	81.91	98.10	86.46	11.64	8.427		
2,000.00	1,986.91	2,016.91	2,006.19	6.22	5.88	167.02	-52.93	102.55	90.36	78.37	11.99	7.537		
2,000.00	1,000.01	2,010.01	2,000.10	0.22	0.00	107.02	-02.00	102.00	50.00	70.07	11.55	7.007		
2,100.00	2,085.94	2,116.52	2,103.24	6.43	6.08	164.16	-61.65	123.18	82.57	70.17	12.41	6.655		
2,200.00	2,184.97	2,216.12	2,200.29	6.64	6.28	160.73	-70.37	143.82	75.04	62.21	12.83	5.848		
2,300.00	2,283.86	2,315.80	2,297.42	6.84	6.48	156.59	-79.10	164.47	68.67	55.43	13.24	5.186		
2,400.00	2,382.33	2,415.65	2,394.70	7.08	6.69	152.87	-87.84	185.15	64.93	51.21	13.71	4.735		
2,500.00	2,480.31	2,515.60	2,492.09	7.32	6.94	150.07	-96.59	205.86	63.66	49.46	14.20	4.484		
2,503.85	2,484.07	2,519.44	2,495.84	7.33	6.95	149.99	-96.92	206.66	63.65	49.44	14.21	4.478		
2,600.00	2,577.74	2,615.58	2,589.51	7.57	7.21	148.52	-105.34	226.57	64.70	50.01	14.69	4.403		
2,700.00	2,674.78	2,715.54	2,686.92	7.79	7.49	147.97	-114.09	247.28	67.18	52.02	15.16	4.432		
2,800.00	2,771.81	2,815.51	2,784.32	8.06	7.77	147.50	-122.84	267.99	69.68	54.03	15.65	4.452		
2,900.00	2,868.84	2,915.48	2,881.73	8.35	8.05	147.06	-131.59	288.70	72.19	56.04	16.15	4.470		
3,000.00	2,965.87	3,015.44	2,979.13	8.65	8.34	146.65	-140.34	309.41	74.71	58.05	16.65	4.486		
3,100.00	3,062.90	3,115.41	3,076.54	8.95	8.63	146.27	-149.10	330.12	77.22	60.06	17.16	4.499		
3,200.00	3,159.93	3,215.38	3,173.95	9.26	8.92	145.91	-157.85	350.83	79.74	62.07	17.68	4.512		
3,300.00	3,256.96	3,315.35	3,271.35	9.57	9.21	145.57	-166.60	371.54	82.27	64.08	18.19	4.522		
3,400.00	3,353.99	3,415.31	3,368.76	9.88	9.50	145.26	-175.35	392.25	84.79	66.08	18.71	4.532		
3 500 00	2 AE4 02	2 545 20	2 466 46	10.00	0.70	144.06	104 10	410.00	07 20	60.00	10.00	4 5 40		
3,500.00	3,451.02	3,515.28	3,466.16	10.20	9.79	144.96	-184.10	412.96	87.32	68.09	19.23	4.540		
3,600.00	3,548.05	3,615.25	3,563.57	10.51	10.09	144.68	-192.85	433.67	89.85	70.09	19.76	4.548		
3,700.00	3,645.08	3,715.21	3,660.97	10.83	10.39	144.41	-201.60	454.38	92.39	72.10	20.29	4.554		
3,800.00	3,742.11	3,815.18	3,758.38	11.15	10.68	144.16	-210.36	475.09	94.92	74.10	20.82	4.560		
3,900.00	3,839.14	3,915.15	3,855.79	11.47	10.98	143.93	-219.11	495.80	97.46	76.11	21.35	4.565		
4,000.00	3,936.17	4,015.11	3,953.19	11.79	11.28	143.70	-227.86	516.51	99.99	78.11	21.88	4.569		
4,100.00	4,033.20	4,115.08	4,050.60	12.11	11.58	143.48	-236.61	537.23	102.53	80.11	22.42	4.573		
4,200.00	4,130.23	4,215.05	4,148.00	12.43	11.89	143.28	-245.36	557.94	105.07	82.11	22.96	4.576		
4,300.00	4,227.26	4,315.02	4,245.41	12.76	12.19	143.08	-254.11	578.65	107.62	84.12	23.50	4.579		
4,400.00	4,324.29	4,414.98	4,342.82	13.08	12.49	142.90	-262.86	599.36	110.16	86.12	24.04	4.582		
4,400.00	7,524.23	7,714.30	7,072.02	13.00	12.40	142.50	-202.00	539.50	110.10	00.12	∠4.04	7.002		
4,500.00	4,421.32	4,514.95	4,440.22	13.40	12.79	142.72	-271.61	620.07	112.70	88.12	24.59	4.584		
4,600.00	4,518.35	4,614.92	4,537.63	13.73	13.10	142.55	-280.37	640.78	115.25	90.12	25.13	4.586		
4,700.00	4,615.38	4,714.88	4,635.03	14.06	13.40	142.39	-289.12	661.49	117.80	92.12	25.68	4.587		
4,800.00	4,712.41	4,814.85	4,732.44	14.38	13.71	142.23	-297.87	682.20	120.34	94.12	26.23	4.588		
4,900.00	4,809.44	4,914.82	4,829.85	14.71	14.01	142.08	-306.62	702.91	122.89	96.11	26.78	4.589		
5,000.00	4,906.47	5,014.79	4,927.25	15.04	14.32	141.94	-315.37	723.62	125.44	98.11	27.33	4.590		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad

Reference Site: 0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Reference Wellbore ОН

Well Error: 0.50 usft

Reference Design: Plan #2 Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

Reference	Design:	Plan #	2				Offset TV	D Reference	ce:	Re	eference Da	tum		
Offset De	sian: Junio	or Mint Fed	l Pad - Jui	nior Mint Fe	d 138H - (OH - Plan #2								
01.001.00	oigii.												Offset Site Error:	0.00 usft
Survey Prog	ram: 0-f	MWD+HRGM+ Off			lajor Axis		Offset Wellb	ore Centre	Diet	Rule Assi	gned:		Offset Well Error:	0.50 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside		ore centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
5,100.00	5,003.50	5,114.75	5,024.66	15.36	14.63	141.80	-324.12	744.33	127.99	100.11	27.88	4.591		
5,200.00	5,100.53	5,214.72	5,122.06	15.69	14.93	141.67	-332.87	765.04	130.54	102.11	28.43	4.592		
5,300.00	5,197.56	5,312.59	5,217.62	16.02	15.20	141.80	-341.11	784.53	133.75	104.82	28.93	4.623		
5,400.00	5,294.59	5,409.88	5,313.10	16.35	15.46	142.61	-348.37	801.69	138.82	109.43	29.38	4.724		
5,500.00	5,391.62	5,506.85	5,408.72	16.68	15.70	144.00	-354.65	816.57	145.84	116.08	29.76	4.901		
5,600.00	5,488.65	5,603.39	5,504.28	17.01	15.91	145.84	-359.97	829.15	154.90	124.84	30.06	5.153		
5,700.00	5,585.68	5,700.00	5,600.23	17.34	16.10	147.98	-364.35	839.52	166.12	135.82	30.31	5.481		
5,800.00	5,682.71	5,794.67	5,694.50	17.67	16.25	150.26	-367.72	847.50	179.61	149.11	30.50	5.889		
5,900.00	5,779.92	5,889.33	5,788.95	17.97	16.38	152.58	-370.18	853.33	194.78	164.13	30.65	6.355		
6,000.00	5,877.69	5,983.60	5,883.13	18.27	16.48	154.62	-371.73	856.99	210.06	179.25	30.82	6.816		
6,100.00	5,975.98	6,077.51	5,977.02	18.54	16.56	156.41	-372.37	858.50	225.35	194.42	30.93	7.286		
6,200.00	6,074.72	6,175.20	6,074.72	18.77	16.61	157.98	-372.39	858.55	239.92	208.86	31.06	7.724		
6,300.00	6,173.83	6,274.32	6,173.83	18.98	16.65	159.18	-372.39	858.55	252.27	221.04	31.22	8.080		
6,400.00	6,273.26	6,373.75	6,273.26	19.16	16.69	160.05	-372.39	858.55	262.25	230.85	31.40	8.352		
6,500.00	6,372.94	6,473.42	6,372.94	19.31	16.73	160.67	-372.39	858.55	269.82	238.24	31.58	8.543		
6,600.00	6,472.79	6,573.27	6,472.79	19.42	16.78	161.07	-372.39	858.55	274.94	243.17	31.77	8.654		
6 700 00	6 570 7 4	6 670 00	6 570 77	40.50	16.00	161.07	270.00	050.55	077.00	045.05	24.05	0.000		
6,700.00	6,572.74	6,673.23	6,572.74	19.52	16.82	161.27	-372.39	858.55	277.60	245.65	31.95	8.688		
6,800.00 6,900.00	6,672.74 6,772.74	6,773.23 6,873.23	6,672.74 6,772.74	19.54 19.58	16.86 16.91	-90.41 -90.41	-372.39 -372.39	858.55 858.55	278.01 278.01	245.98 245.90	32.03 32.11	8.679 8.658		
7,000.00	6,872.74	6,973.23	6,872.74	19.56	16.95	-90.41	-372.39	858.55	278.01	245.82	32.11	8.636		
7,100.00	6,972.74	7,073.23	6,972.74	19.66	17.00	-90.41	-372.39	858.55	278.01	245.73	32.27	8.614		
.,	*,***	.,	-,											
7,200.00	7,072.74	7,173.23	7,072.74	19.70	17.04	-90.41	-372.39	858.55	278.01	245.65	32.36	8.592		
7,300.00	7,172.74	7,273.23	7,172.74	19.74	17.09	-90.41	-372.39	858.55	278.01	245.57	32.44	8.571		
7,400.00	7,272.74	7,373.23	7,272.74	19.77	17.13	-90.41	-372.39	858.55	278.01	245.49	32.52	8.549		
7,500.00 7,600.00	7,372.74 7,472.74	7,473.23 7,573.23	7,372.74 7,472.74	19.81 19.85	17.18 17.22	-90.41 -90.41	-372.39 -372.39	858.55 858.55	278.01 278.01	245.40 245.32	32.60 32.69	8.527 8.505		
7,000.00	1,412.14	1,313.23	1,412.14	19.00	17.22	-90.41	-312.38	030.33	270.01	243.32	32.09	6.505		
7,700.00	7,572.74	7,673.23	7,572.74	19.89	17.27	-90.41	-372.39	858.55	278.01	245.23	32.77	8.483		
7,800.00	7,672.74	7,773.23	7,672.74	19.93	17.32	-90.41	-372.39	858.55	278.01	245.15	32.86	8.460		
7,900.00	7,772.74	7,873.23	7,772.74	19.97	17.36	-90.41	-372.39	858.55	278.01	245.06	32.95	8.438		
8,000.00	7,872.74	7,973.23	7,872.74	20.01	17.41	-90.41	-372.39	858.55	278.01	244.97	33.03	8.416		
8,100.00	7,972.74	8,073.23	7,972.74	20.05	17.46	-90.41	-372.39	858.55	278.01	244.89	33.12	8.394		
8,200.00	8,072.74	8,173.23	8,072.74	20.10	17.51	-90.41	-372.39	858.55	278.01	244.80	33.21	8.372		
8,300.00	8,172.74	8,273.23	8,172.74	20.14	17.56	-90.41	-372.39	858.55	278.01	244.71	33.30	8.350		
8,400.00	8,272.74	8,373.23	8,272.74	20.18	17.60	-90.41	-372.39	858.55	278.01	244.62	33.39	8.327		
8,500.00	8,372.74	8,473.23	8,372.74	20.22	17.65	-90.41	-372.39	858.55	278.01	244.53	33.47	8.305		
8,600.00	8,472.74	8,573.23	8,472.74	20.26	17.70	-90.41	-372.39	858.55	278.01	244.44	33.56	8.283		
8,700.00	8,572.74	8,673.23	8,572.74	20.30	17.75	-90.41	-372.39	858.55	278.01	244.35	33.66	8.260		
8,800.00	8,672.74	8,773.23	8,672.74	20.35	17.73	-90.41	-372.39	858.55	278.01	244.33	33.75	8.238		
8,900.00	8,772.74	8,873.23	8,772.74	20.33	17.85	-90.41	-372.39	858.55	278.01	244.20	33.84	8.216		
9,000.00	8,872.74	8,973.23	8,872.74	20.43	17.90	-90.41	-372.39	858.55	278.01	244.08	33.93	8.193		
9,100.00	8,972.74	9,073.23	8,972.74	20.48	17.95	-90.41	-372.39	858.55	278.01	243.98	34.02	8.171		
9,200.00	9,072.74	9,173.23	9,072.74	20.52	18.00	-90.41	-372.39	858.55	278.01	243.89	34.12	8.149		
9,300.00	9,172.74	9,273.23	9,172.74	20.56	18.05	-90.41	-372.39	858.55	278.01	243.80	34.21	8.126		
9,400.00	9,272.74	9,373.23	9,272.74	20.61	18.10	-90.41	-372.39	858.55	278.01	243.70	34.31	8.104		
9,500.00	9,372.74 9,472.74	9,473.23 9,573.23	9,372.74 9,472.74	20.65 20.70	18.15	-90.41 -90.41	-372.39 -372.39	858.55 858.55	278.01 278.01	243.61 243.51	34.40 34.50	8.082		
9,600.00	3,412.14	v,013.23	5,412.14	20.70	18.20	-90.41	-312.38	858.55	2/0.01	243.31	34.50	8.059		
9,700.00	9,572.74	9,673.23	9,572.74	20.74	18.25	-90.41	-372.39	858.55	278.01	243.42	34.59	8.037		
9,800.00	9,672.74	9,773.23	9,672.74	20.79	18.30	-90.41	-372.39	858.55	278.01	243.32	34.69	8.015		
9,900.00	9,772.74	9,873.23	9,772.74	20.83	18.36	-90.41	-372.39	858.55	278.01	243.22	34.78	7.992		
10,000.00	9,872.74	9,973.23	9,872.74	20.88	18.41	-90.41	-372.39	858.55	278.01	243.13	34.88	7.970		
10,100.00	9,972.74	10,073.23	9,972.74	20.92	18.46	-90.41	-372.39	858.55	278.01	243.03	34.98	7.948		
10,200.00	10,072.74	10,173.23	10,072.74	20.97	18.51	-90.41	-372.39	858.55	278.01	242.93	35.08	7.925		
10,200.00	10,012.14	10,113.23	10,012.14	20.97	10.01	-30.41	-312.38	000.00	210.01	242.93	33.00	1.825		

Anticollision Report

TVD Reference:

MD Reference:

North Reference:

Output errors are at

Local Co-ordinate Reference:

Survey Calculation Method:



Company: Civitas Resources

Project: Lea County, NM (NAD 83)
Reference Site: Junior Mint Fed Pad

Site Error: 0.00 usft

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 us Reference Wellbore OH

0.50 usft

Database: .Total Directional Production DB

Well Junior Mint Fed 218H

Minimum Curvature

2.00 sigma

GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB)

Reference Design: Plan #2 Offset TVD Reference: Reference Datum

	sign: ^{Junio}												Offset Site Error:	0.00 usf
urvey Prog	ram: 0-	MWD+HRGM+	-SAG+FDIR (rev.5)						Rule Assi	gned:		Offset Well Error:	0.50 usf
	rence Vertical	Off Measured	set Vertical	Semi M Reference	lajor Axis Offset	Highside	Offset Wellb	ore Centre	Dis Between	tance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	Kelelelice	Oliset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	waining	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
10,300.00	10,172.74	10,273.23	10,172.74	21.01	18.57	-90.41	-372.39	858.55	278.01	242.83	35.18	7.903		
10,400.00	10,272.74	10,373.23	10,272.74	21.06	18.62	-90.41	-372.39	858.55	278.01	242.73	35.28	7.881		
10,500.00	10,372.74	10,473.23	10,372.74	21.11	18.67	-90.41	-372.39	858.55	278.01	242.63	35.38	7.859		
10,600.00	10,472.74	10,573.23	10,472.74	21.15	18.72	-90.41	-372.39	858.55	278.01	242.53	35.48	7.836		
10,700.00	10,572.74	10,673.23	10,572.74	21.20	18.78	-90.41	-372.39	858.55	278.01	242.43	35.58	7.814		
10,800.00	10,672.74	10,773.23	10,672.74	21.25	18.83	-90.41	-372.39	858.55	278.01	242.33	35.68	7.792		
10,900.00	10,772.74	10,873.23	10,772.74	21.29	18.89	-90.41	-372.39	858.55	278.01	242.23	35.78	7.770		
11,000.00	10,872.74	10,973.23	10,872.74	21.34	18.94	-90.41	-372.39	858.55	278.01	242.13	35.88	7.748		
11,100.00	10,972.74	11,073.23	10,972.74	21.39	18.99	-90.41	-372.39	858.55	278.01	242.02	35.98	7.726		
11,200.00	11,072.74	11,173.23	11,072.74	21.44	19.05	-90.41	-372.39	858.55	278.01	241.92	36.09	7.704		
11,300.00	11,172.74	11,273.23	11,172.74	21.49	19.10	-90.41	-372.39	858.55	278.01	241.82	36.19	7.682		
11,400.00	11,272.74	11,373.23	11,272.74	21.53	19.16	-90.41	-372.39	858.55	278.01	241.71	36.29	7.660		
11,500.00	11,372.74	11,473.23	11,372.74	21.58	19.21	-90.41	-372.39	858.55	278.01	241.61	36.40	7.638		
11,600.00	11,472.74	11,573.24	11,472.75	21.63	19.26	-90.48	-372.70	858.55	278.01	241.52	36.49	7.619		
11,605.97	11,478.71	11,579.20	11,478.71	21.63	19.27	-90.52	-372.92	858.55	278.01	241.51	36.50	7.617		
11,700.00	11,572.74	11,671.67	11,570.37	21.68	19.40	-92.87	-384.33	858.66	278.25	241.50	36.75	7.571		
11,800.00	11,672.74	11,763.62	11,658.52	21.73	19.57	-98.15	-410.13	858.89	280.85	243.50	37.35	7.520		
11,900.00	11,772.74	11,845.58	11,732.74	21.78	19.77	-105.01	-444.76	859.21	289.91	251.54	38.37	7.556		
2,000.00	11,872.61	11,917.96	11,793.58	21.70	19.99	67.44	-483.86	859.56	308.33	268.52	39.81	7.745		
2,100.00	11,970.52	11,986.93	11,846.54	21.99	20.22	59.86	-527.97	859.96	331.72	290.26	41.46	8.001		
2,200.00	12,063.53	12,050.00	11,890.02	22.19	20.48	53.80	-573.62	860.38	356.79	313.59	43.20	8.260		
,														
2,300.00	12,148.80	12,118.96	11,931.49	22.45	20.79	48.62	-628.66	860.88	381.16	336.34	44.82	8.505		
12,400.00	12,223.74	12,182.96	11,963.82	22.78	21.13	44.78	-683.86	861.38	403.26	356.96	46.31	8.709		
12,500.00	12,286.09	12,250.00	11,990.85	23.20	21.53	41.85	-745.16	861.94	421.95	374.38	47.57	8.871		
12,600.00	12,333.93	12,300.00	12,006.26	23.71	21.86	40.04	-792.71	862.37	436.47	387.92	48.55	8.990		
12,700.00	12,365.83	12,370.61	12,020.83	24.31	22.36	38.68	-861.75	863.00	445.98	396.72	49.26	9.053		
12,800.00	12,380.81	12,432.42	12,026.53	24.99	22.83	38.11	-923.27	863.56	450.54	400.91	49.63	9.078		
12,900.00	12,382.30	12,521.27	12,027.45	25.74	23.55	38.08	-1,012.10	864.36	450.79	400.78	50.01	9.013		
13,000.00	12,382.83	12,621.27	12,028.16	26.54	24.42	38.09	-1,112.10	865.27	450.65	400.08	50.57	8.911		
13,100.00	12,383.35	12,721.27	12,028.86	27.39	25.33	38.10	-1,212.09	866.18	450.51	399.31	51.19	8.800		
13,200.00	12,383.88	12,821.27	12,029.57	28.28	26.28	38.12	-1,312.08	867.09	450.36	398.49	51.87	8.683		
3,300.00	12,384.40	12,921.27	12,030.28	29.20	27.27	38.13	-1,412.08	868.00	450.22	397.61	52.60	8.559		
3,400.00	12,384.93	13,021.27	12,030.99	30.16	28.28	38.15	-1,512.07	868.91	450.07	396.68	53.39	8.430		
3,500.00	12,385.46	13,121.27	12,031.70	31.14	29.33	38.16	-1,612.06	869.81	449.93	395.70	54.23	8.297		
3,600.00	12,385.98	13,221.27	12,032.41	32.15	30.40	38.18	-1,712.06	870.72	449.79	394.67	55.12	8.161		
3,700.00	12,386.51	13,321.27	12,033.12	33.18	31.49	38.19	-1,812.05	871.63	449.64	393.59	56.05	8.022		
	10.007.00	40 404 07	40.000.00	04.00	00.00	00.04	4.040.04	070.54	110.50	200 17	57.00	7.004		
3,800.00	12,387.03	13,421.27	12,033.83	34.23	32.60	38.21	-1,912.04	872.54	449.50	392.47	57.03	7.881		
3,900.00	12,387.56	13,521.27	12,034.54	35.31	33.73	38.22	-2,012.04	873.45	449.35	391.30	58.05	7.740		
14,000.00	12,388.09	13,621.27	12,035.25	36.40	34.87	38.23	-2,112.03	874.36	449.21	390.09	59.12	7.599		
14,100.00 14,200.00	12,388.61 12,389.14	13,721.27 13,821.27	12,035.95 12,036.66	37.51 38.63	36.03 37.20	38.25 38.26	-2,212.02 -2,312.02	875.27 876.17	449.07 448.92	388.85 387.56	60.22 61.36	7.457 7.316		
14,200.00	12,309.14	13,021.21	12,030.00	36.03	37.20	36.20	-2,312.02	670.17	440.32	367.30	01.30	7.510		
4,300.00	12,389.66	13,921.27	12,037.37	39.77	38.39	38.28	-2,412.01	877.08	448.78	386.25	62.53	7.177		
14,400.00	12,390.19	14,021.27	12,038.08	40.92	39.58	38.29	-2,512.00	877.99	448.63	384.90	63.74	7.039		
14,500.00	12,390.71	14,121.27	12,038.79	42.08	40.79	38.31	-2,611.99	878.90	448.49	383.52	64.97	6.903		
4,600.00	12,391.24	14,221.27	12,039.50	43.26	42.01	38.32	-2,711.99	879.81	448.35	382.11	66.24	6.769		
4,700.00	12,391.77	14,321.27	12,040.21	44.44	43.23	38.34	-2,811.98	880.72	448.20	380.67	67.53	6.637		
4,800.00	12,392.29	14,421.27	12,040.92	45.64	44.47	38.35	-2,911.97	881.63	448.06	379.21	68.85	6.508		
4,900.00	12,392.29	14,421.27	12,040.92	46.84	45.71	38.36	-3,011.97	882.53	447.91	379.21	70.19	6.381		
5,000.00	12,393.34	14,621.27	12,041.03	48.05	46.95	38.38	-3,111.96	883.44	447.77	376.21	71.56	6.257		
5,100.00	12,393.87	14,721.27	12,042.34	49.27	48.21	38.39	-3,211.95	884.35	447.63	374.67	71.30	6.136		
5,200.00	12,394.40	14,821.27	12,043.75	50.50	49.47	38.41	-3,311.95	885.26	447.48	373.12	74.36	6.017		
,,	,_,	,===/	_,	55.50	.5		-,	-30.20		2.0.12				
5,300.00	12,394.92	14,921.27	12,044.46	51.73	50.73	38.42	-3,411.94	886.17	447.34	371.54	75.80	5.902		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83)

Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: Reference Wellbore ОН

0.50 usft

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

eference	Wellbore Design:	OH Plan #	2				Database Offset TV	D Referenc	e:		ference Da	nai Product tum		
ffset Des	sign: ^{Junio}	or Mint Fed	Pad - Jui	nior Mint Fe	d 138H - O	H - Plan #2							Offset Site Error:	0.00 us
urvey Progr	ram: 0-	MWD+HRGM+	SAG+FDIR (rev 5)						Rule Assi	anod:		Offset Well Error:	0.50 us
Refe	rence	Off	set	Semi N	lajor Axis		Offset Wellbo	ore Centre	Dist	ance	_			0.00 40
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S (usft)	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)		(usft)	(usft)	(usft)	(usft)			
15,400.00	12,395.45	15,021.27	12,045.17	52.97	52.00	38.44	-3,511.93	887.08	447.20	369.95	77.25	5.789		
15,500.00	12,395.97	15,121.27	12,045.88	54.21	53.27	38.45	-3,611.93	887.99	447.05	368.34	78.71	5.679		
15,600.00	12,396.50	15,221.27	12,046.59	55.47	54.55	38.47	-3,711.92	888.89	446.91	366.71	80.20	5.573		
15,700.00	12,397.03	15,321.26	12,047.30	56.72	55.84	38.48	-3,811.91	889.80	446.77	365.07	81.70	5.468		
15,800.00	12,397.55	15,421.26	12,048.01	57.98	57.12	38.50	-3,911.91	890.71	446.62	363.41	83.22	5.367		
15,900.00	12,398.08	15,521.26	12,048.72	59.25	58.41	38.51	-4,011.90	891.62	446.48	361.73	84.75	5.268		
16,000.00	12,398.60	15,621.26	12,049.43	60.52	59.71	38.53	-4,111.89	892.53	446.34	360.04	86.29	5.172		
16,100.00	12,399.13	15,721.26	12,050.14	61.79	61.01	38.54	-4,211.89	893.44	446.19	358.34	87.85	5.079		
16,200.00	12,399.65	15,821.26	12,050.85	63.07	62.31	38.55	-4,311.88	894.35	446.05	356.63	89.42	4.988		
16,300.00	12,400.18	15,921.26	12,051.55	64.35	63.61	38.57	-4,411.87	895.25	445.91	354.90	91.01	4.900		
16,400.00	12,400.71	16,021.26	12,052.26	65.63	64.91	38.58	-4,511.87	896.16	445.76	353.16	92.60	4.814		
16,500.00	12,401.23	16,121.26	12,052.97	66.92	66.22	38.60	-4,611.86	897.07	445.62	351.41	94.20	4.730		
16,600.00	12,401.76	16,221.26	12,053.68	68.21	67.53	38.61	-4,711.85	897.98	445.48	349.66	95.82	4.649		
16,700.00	12,402.28	16,321.26	12,054.39	69.51	68.84	38.63	-4,811.85	898.89	445.33	347.89	97.45	4.570		
16,800.00	12,402.81	16,421.26	12,055.10	70.80	70.16	38.64	-4,911.84	899.80	445.19	346.11	99.08	4.493		
16,900.00	12,403.34	16,521.26	12,055.81	72.10	71.48	38.66	-5,011.83	900.71	445.05	344.32	100.72	4.418		
17,000.00	12,403.86	16,621.26	12,056.52	73.40	72.80	38.67	-5,111.82	901.61	444.90	342.53	102.38	4.346		
17,100.00	12,404.39	16,721.26	12,057.23	74.71	74.12	38.69	-5,211.82	902.52	444.76	340.72	104.04	4.275		
17,200.00	12,404.91	16,821.26	12,057.94	76.01	75.44	38.70	-5,311.81	903.43	444.62	338.91	105.71	4.206		
17,300.00	12,405.44	16,921.26	12,058.65	77.32	76.76	38.72	-5,411.80	904.34	444.47	337.09	107.38	4.139		
17,400.00	12,405.96	17,021.26	12,059.35	78.63	78.09	38.73	-5,511.80	905.25	444.33	335.26	109.07	4.074		
17,500.00	12,406.49	17,121.26	12,060.06	79.94	79.41	38.75	-5,611.79	906.16	444.19	333.43	110.76	4.010		
17,600.00	12,407.02	17,121.26	12,060.77	81.26	80.74	38.76	-5,711.78	907.07	444.04	331.59	112.46	3.949		
	12,407.54	17,321.26	12,060.77	82.57	82.07	38.78	-5,811.78	907.97	443.90		114.16	3.888		
17,700.00										329.74				
17,800.00 17,900.00	12,408.07 12,408.59	17,421.26 17,521.26	12,062.19 12,062.90	83.89 85.21	83.40 84.73	38.79 38.81	-5,911.77 -6,011.76	908.88 909.79	443.76 443.62	327.89 326.03	115.87 117.59	3.830 3.773		
18,000.00	12,409.12	17,621.26	12,063.61	86.53	86.07	38.82	-6,111.76	910.70	443.47	324.16	119.31	3.717		
18,100.00	12,409.65	17,721.26	12,064.32	87.85	87.40	38.83	-6,211.75	911.61	443.33	322.29	121.04	3.663		
18,200.00	12,410.17	17,821.26	12,065.03	89.18	88.74	38.85	-6,311.74	912.52	443.19	320.41	122.78	3.610		
18,300.00	12,410.70	17,921.26	12,065.74	90.50	90.07	38.86	-6,411.74	913.43	443.05	318.53	124.51	3.558		
18,400.00	12,411.22	18,021.26	12,066.45	91.83	91.41	38.88	-6,511.73	914.34	442.90	316.64	126.26	3.508		
8,500.00	12,411.75	18,121.26	12,067.15	93.15	92.75	38.89	-6,611.72	915.24	442.76	314.75	128.01	3.459		
8,600.00	12,412.27	18,221.26	12,067.86	94.48	94.09	38.91	-6,711.72	916.15	442.62	312.86	129.76	3.411		
8,700.00	12,412.80	18,321.26	12,068.57	95.81	95.43	38.92	-6,811.71	917.06	442.47	310.95	131.52	3.364		
18,800.00	12,413.33	18,421.26	12,069.28	97.14	96.77	38.94	-6,911.70	917.97	442.33	309.05	133.28	3.319		
18,900.00	12,413.85	18,521.26	12,069.99	98.47	98.11	38.95	-7,011.70	918.88	442.19	307.14	135.05	3.274		
9,000.00	12,414.38	18,621.26	12.070.70	99.81	99.45	38.97	-7,111.69	919.79	442.05	305.22	136.82	3.231		
				101.14		38.98			441.90		138.60			
9,100.00 9,200.00	12,414.90 12,415.43	18,721.26 18,821.26	12,071.41 12,072.12	101.14	100.79 102.14	39.00	-7,211.68 -7,311.68	920.70 921.60	441.76	303.31 301.38	140.38	3.188 3.147		
9,300.00	12,415.43	18,921.26	12,072.12	102.47	102.14	39.00	-7,311.66 -7,411.67	921.60	441.62	299.46	140.36	3.106		
9,400.00	12,415.96	19,021.26	12,072.83	103.81	103.48	39.01	-7,411.67 -7,511.66	922.51	441.62	299.46	142.16	3.106		
9,500.00	12,417.01	19,121.26	12,074.24	106.48	106.17	39.04	-7,611.65	924.33	441.33	295.59	145.74	3.028		
9,600.00	12,417.53	19,221.26	12,074.95	107.82	107.52	39.06	-7,711.65	925.24	441.19	293.66	147.53	2.990		
9,700.00	12,418.06	19,321.26	12,075.66	109.16	108.87	39.07	-7,811.64	926.15	441.05	291.72	149.33	2.953		
9,800.00	12,418.59	19,421.26 19,521.26	12,076.37	110.50	110.21	39.09	-7,911.63 -8,011.63	927.06	440.91	289.77	151.13	2.917		
9,900.00	12,419.11	15,521.20	12,077.08	111.84	111.56	39.10	-0,011.03	927.96	440.77	287.83	152.94	2.882		
20,000.00	12,419.64	19,621.26	12,077.79	113.18	112.91	39.12	-8,111.62	928.87	440.62	285.88	154.75	2.847		
0,100.00	12,420.16	19,721.26	12,078.50	114.52	114.26	39.13	-8,211.61	929.78	440.48	283.92	156.56	2.814		
20,200.00	12,420.69	19,821.26	12,079.21	115.86	115.61	39.15	-8,311.61	930.69	440.34	281.97	158.37	2.780		
20,300.00	12,421.21	19,921.26	12,079.92	117.20	116.96	39.16	-8,411.60	931.60	440.20	280.01	160.19	2.748		
20,400.00	12,421.74	20,021.26	12,080.63	118.55	118.31	39.18	-8,511.59	932.51	440.05	278.05	162.01	2.716		
,														

Anticollision Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)
Reference Site: Junior Mint Fed Pad

Plan #2

Site Error: 0.00 usft

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft
Reference Wellbore OH

Reference Design:

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

MD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

Survey Prog	ram: 0-M	MWD+HRGM+			lajor Axis		Offset Wellbe	ore Centre	Die	Rule Assig	gned:		Offset Well Error:	0.50 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
20,600.00	12,422.79	20,221.26	12,082.04	121.24	121.01	39.21	-8,711.58	934.32	439.77	274.11	165.66	2.655		
20,700.00	12,423.32	20,321.26	12,082.75	122.58	122.36	39.22	-8,811.57	935.23	439.63	272.14	167.48	2.625		
20,800.00	12,423.84	20,421.26	12,083.46	123.93	123.71	39.24	-8,911.57	936.14	439.49	270.17	169.32	2.596		
20,900.00	12,424.37	20,521.26	12,084.17	125.27	125.06	39.25	-9,011.56	937.05	439.34	268.19	171.15	2.567		
21,000.00	12,424.90	20,621.26	12,084.88	126.62	126.42	39.27	-9,111.55	937.96	439.20	266.22	172.99	2.539		
21,100.00	12,425.42	20,721.26	12,085.59	127.97	127.77	39.28	-9,211.55	938.87	439.06	264.24	174.82	2.511		
21,200.00	12,425.95	20,821.26	12,086.30	129.31	129.12	39.30	-9,311.54	939.78	438.92	262.25	176.67	2.484		
21,300.00	12,426.47	20,921.26	12,087.01	130.66	130.48	39.31	-9,411.53	940.68	438.78	260.27	178.51	2.458		
21,400.00	12,427.00	21,021.26	12,087.72	132.01	131.83	39.33	-9,511.53	941.59	438.64	258.28	180.36	2.432		
21,500.00	12,427.52	21,121.26	12,088.43	133.36	133.19	39.34	-9,611.52	942.50	438.49	256.29	182.20	2.407		
21,600.00	12,428.05	21,221.26	12,089.14	134.71	134.54	39.36	-9,711.51	943.41	438.35	254.30	184.06	2.382		
21,700.00	12,428.58	21,321.25	12,089.84	136.06	135.90	39.38	-9,811.50	944.32	438.21	252.30	185.91	2.357		
21,800.00	12,429.10	21,421.25	12,090.55	137.41	137.25	39.39	-9,911.50	945.23	438.07	250.30	187.76	2.333		
21,900.00	12,429.63	21,521.25	12,091.26	138.76	138.61	39.41	-10,011.49	946.14	437.93	248.31	189.62	2.309		
22,000.00	12,430.15	21,621.25	12,091.97	140.11	139.96	39.42	-10,111.48	947.04	437.79	246.30	191.48	2.286		
22,100.00	12,430.68	21,721.25	12,092.68	141.46	141.32	39.44	-10,211.48	947.95	437.64	244.30	193.34	2.264		
22,200.00	12,431.21	21,821.25	12,093.39	142.81	142.67	39.45	-10,311.47	948.86	437.50	242.30	195.21	2.241		
22,300.00	12,431.73	21,921.25	12,094.10	144.16	144.03	39.47	-10,411.46	949.77	437.36	240.29	197.07	2.219		
22,400.00	12,432.26	22,021.25	12,094.81	145.51	145.39	39.48	-10,511.46	950.68	437.22	238.28	198.94	2.198		
22,500.00	12,432.78	22,121.25	12,095.52	146.87	146.74	39.50	-10,611.45	951.59	437.08	236.27	200.81	2.177		
22,600.00	12,433.31	22,221.25	12,096.23	148.22	148.10	39.51	-10,711.44	952.50	436.94	234.25	202.68	2.156		
2,700.00	12,433.83	22,321.25	12,096.94	149.57	149.46	39.53	-10,811.44	953.40	436.79	232.24	204.56	2.135		
22,763.89	12,434.17	22,385.14	12,097.39	150.47	150.33	39.54	-10,875.32	953.98	436.70	230.95	205.76	2.122	SF	
22,770.20	12,434.20	22,386.82	12,097.40	150.56	150.35	39.54	-10,877.00	954.00	436.72	231.11	205.61	2.124		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН

Well Junior Mint Fed 218H Local Co-ordinate Reference:

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

	vvelibore Design:	Plan #	2				Offset TV	D Reference	e:	Re	eference Da	atum		
ffset Des	sign: ^{Junio}	or Mint Fed	Pad - Ju	nior Mint Fe	d 156H - (OH - Plan #2							Offset Site Error:	0.00 u
rvey Progr	·am· 0-l	MWD+HRGM+	SAG+FDIR (rev 5)						Rule Assi	aned:		Offset Well Error:	0.50 u
Refer		Off			Major Axis		Offset Wellbo	ore Centre		tance	gileu.		Oliset Well Lifor.	0.00 u
leasured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	1.00	0.00	0.50	0.50	-7.70	185.00	-25.00	186.68					
100.00	100.00	101.00	100.00	0.98	0.99	-7.70	185.00	-25.00	186.68	184.71	1.97	94.875		
200.00	200.00	201.00	200.00	1.56	1.57	-7.70	185.00	-25.00	186.68	183.56	3.13	59.711		
300.00	300.00	301.04	300.04	1.98	1.99	-7.70	185.00	-25.00	186.68	182.71	3.97	47.064		
400.00	399.99	405.30	404.28	2.41	2.43	-115.53	183.68	-25.61	186.07	181.33	4.74	39.267		
500.00	499.91	509.29	508.18	2.78	2.80	-117.42	179.80	-27.41	184.41	179.01	5.40	34.172		
600.00	599.69	612.77	611.42	3.11	3.11	-120.62	173.39	-30.38	182.08	176.12	5.97	30.523		
700.00	699.27	712.64	710.91	3.42	3.26	-124.83	165.54	-34.02	180.40	174.01	6.38	28.255		
718.07	717.24	730.51	728.72	3.47	3.30	-125.66	164.13	-34.67	180.35	173.88	6.48	27.846	CC, ES	
800.00	798.57	811.43	809.33	3.71	3.50	-129.66	157.73	-37.64	181.32	174.43	6.90	26.292		
900.00	897.62	909.94	907.46	3.84	3.73	-134.84	149.94	-41.25	184.98	177.71	7.27	25.440		
1,000.00	996.65	1,008.42	1,005.57	4.07	3.95	-139.82	142.15	-44.86	190.25	182.51	7.74	24.580		
1,100.00	1,095.67	1,106.91	1,103.69	4.29	4.17	-144.50	134.37	-48.47	196.90	188.70	8.19	24.028		
,200.00	1,194.70	1,205.40	1,201.80	4.51	4.38	-148.86	126.58	-52.08	204.80	196.17	8.63	23.728		
,300.00	1,293.73	1,304.38	1,300.38	4.73	4.51	-153.00	118.46	-55.91	213.76	204.79	8.97	23.826		
,400.00	1,392.75	1,403.26	1,398.61	4.95	4.77	-157.35	108.50	-61.00	223.52	214.11	9.41	23.753		
,500.00	1,491.78	1,501.28	1,495.68	5.17	5.02	-161.91	96.55	-67.46	234.41	224.56	9.85	23.806		
,600.00	1,590.81	1,598.33	1,591.42	5.38	5.27	-166.59	82.70	-75.25	246.82	236.54	10.29	23.996		
,700.00	1,689.83	1,694.30	1,685.67	5.59	5.51	-171.28	67.03	-84.30	261.12	250.39	10.73	24.331		
,800.00	1,788.86	1,790.21	1,779.50	5.80	5.67	-175.85	49.92	-94.34	277.45	266.32	11.14	24.917		
,900.00	1,887.89	1,886.41	1,873.60	6.01	5.87	-179.94	32.67	-104.47	295.43	283.84	11.59	25.486		
2,000.00	1,986.91	1,982.61	1,967.70	6.22	6.08	176.44	15.42	-114.60	314.75	302.70	12.05	26.116		
2,100.00	2,085.94	2,078.81	2,061.79	6.43	6.28	173.23	-1.83	-124.73	335.18	322.67	12.51	26.791		
2,200.00	2,184.97	2,175.01	2,155.89	6.64	6.49	170.39	-19.08	-134.86	356.54	343.57	12.97	27.492		
2,300.00	2,283.86	2,271.04	2,249.82	6.84	6.69	167.48	-36.30	-144.98	379.54	366.13	13.41	28.303		
2,400.00	2,382.33	2,366.56	2,343.26	7.08	6.90	164.97	-53.43	-155.04	405.56	391.67	13.90	29.184		
. 500 00	0.400.04	0.404.54	0.400.40	7.00	7.40	400.00	70.40	405.00	404.40	400.04	44.00	20.004		
2,500.00	2,480.31	2,461.51	2,436.13	7.32	7.16	162.86	-70.46	-165.03	434.42	420.04	14.38	30.204		
,600.00	2,577.74	2,555.81	2,528.37	7.57	7.42	161.11	-87.36	-174.97	465.95	451.08	14.87	31.336		
,700.00	2,674.78	2,649.67	2,620.17	7.79	7.68	159.89	-104.20	-184.85	499.18	483.87	15.31	32.606		
2,800.00	2,771.81 2,868.84	2,743.52 2,837.37	2,711.97 2,803.77	8.06 8.35	7.95 8.21	158.87 157.98	-121.02 -137.85	-194.73 -204.62	532.60 566.15	516.83 549.91	15.77 16.24	33.763 34.856		
,000.00	2,965.87	2,931.22	2,895.57	8.65	8.48	157.18	-154.68	-214.50	599.82	583.10	16.71	35.889		
,100.00	3,062.90	3,025.07	2,987.37	8.95	8.74	156.46	-171.51	-224.38	633.57	616.39	17.19	36.867		
,200.00	3,159.93	3,118.92	3,079.17	9.26	9.01	155.82	-188.34	-234.27	667.40	649.74	17.66	37.792		
,300.00	3,256.96	3,212.77	3,170.97	9.57	9.28	155.24	-205.17	-244.15	701.31	683.17	18.14	38.668		
,400.00	3,353.99	3,306.63	3,262.77	9.88	9.55	154.72	-222.00	-254.03	735.27	716.65	18.62	39.498		
,500.00	3,451.02	3,400.48	3,354.57	10.20	9.81	154.23	-238.82	-263.92	769.28	750.18	19.10	40.285		
,600.00	3,548.05	3,494.33	3,446.37	10.51	10.08	153.79	-255.65	-273.80	803.33	783.75	19.58	41.033		
,700.00	3,645.08	3,588.18	3,538.17	10.83	10.35	153.39	-272.48	-283.68	837.42	817.36	20.06	41.744		
,800.00	3,742.11	3,682.03	3,629.97	11.15	10.62	153.02	-289.31	-293.57	871.55	851.00	20.55	42.419		
,900.00	3,839.14	3,775.88	3,721.77	11.47	10.89	152.67	-306.14	-303.45	905.70	884.68	21.03	43.075		
,000.00	3,936.17	3,883.87	3,827.62	11.79	11.18	152.36	-324.57	-314.28	939.30	917.72	21.58	43.527		
,100.00	4,033.20	3,996.27	3,938.37	12.11	11.47	152.22	-341.04	-323.95	971.21	949.07	22.14	43.868		
,200.00	4,130.23	4,110.08	4,051.05	12.43	11.72	152.24	-354.85	-332.06	1,001.35	978.68	22.67	44.163		
,300.00	4,227.26	4,225.13	4,165.38	12.76	11.95	152.42	-365.85	-338.52	1,029.70	1,006.51	23.18	44.418		
,400.00	4,324.29	4,341.22	4,281.09	13.08	12.14	152.74	-373.95	-343.27	1,056.23	1,032.58	23.66	44.643		
,500.00	4,421.32	4,458.16	4,397.88	13.40	12.29	153.20	-379.03	-346.26	1,080.97	1,056.87	24.10	44.847		
,600.00	4,518.35	4,575.73	4,515.42	13.73	12.40	153.78	-381.03	-347.43	1,103.93	1,079.46	24.48	45.103		
	.,010.00													
	4 615 39	467560	4 615 39	1/1/16	12 44		_381 NR	_3/7 /5	1 125 92	1 101 07	24.76	45 176		
1,700.00 1,800.00	4,615.38 4,712.41	4,675.69 4,772.72	4,615.38 4,712.41	14.06 14.38	12.44 12.47	154.34 154.86	-381.06 -381.06	-347.45 -347.45	1,125.83 1,147.80	1,101.07 1,122.77	24.76 25.03	45.476 45.854		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

1,192.00

1,166.42

4,906.47

5,000.00

-381.06

12.55

15.04

155.84

4,966.78

4,906.47

Anticollision Report

North Reference:

Output errors are at

Survey Calculation Method:



Well Junior Mint Fed 218H

Minimum Curvature

2.00 sigma

GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB)

Civitas Resources

Company: Local Co-ordinate Reference: Project: Lea County, NM (NAD 83) TVD Reference: Junior Mint Fed Pad Reference Site: MD Reference:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft Reference Wellbore ОН

Database: .Total Directional Production DB

Reference Design: Plan #2 Offset TVD Reference: Reference Datum

vey Progr Refe	ram: 0-N rence	/WD+HRGM+ Off:			lajor Axis		Offset Wellb	ore Centre	Dist	Rule Assi	gned:		Offset Well Error:	0.50 us
easured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	((ft)	Toolface	+N/-S (usft)	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)		(usft)	(usft)	(usft)	(usft)	46.064		
5,100.00 5,200.00	5,003.50 5,100.53	5,063.81 5,160.84	5,003.50 5,100.53	15.36 15.69	12.59	156.31 156.75	-381.06	-347.45 -347.45	1,214.22 1,236.51	1,188.36 1,210.38	25.85 26.13	46.964 47.325		
5,300.00	5,100.55	5,257.87	5,100.55	16.02	12.62 12.66	157.19	-381.06 -381.06	-347.45	1,258.87	1,232.47	26.40	47.682		
5,400.00	5,294.59	5,354.90	5,294.59	16.35	12.70	157.19	-381.06	-347.45	1,281.30	1,254.62	26.67	48.034		
5,500.00	5,391.62	5,451.93	5,391.62	16.68	12.74	158.01	-381.06	-347.45	1,303.79	1,276.84	26.95	48.382		
,600.00	5,488.65	5,548.96	5,488.65	17.01	12.78	158.40	-381.06	-347.45	1,326.34	1,299.12	27.22	48.726		
,700.00	5,585.68	5,645.99	5,585.68	17.34	12.82	158.77	-381.06	-347.45	1,348.95	1,321.46	27.49	49.064		
5,800.00	5,682.71	5,743.02	5,682.71	17.67	12.87	159.14	-381.06	-347.45	1,371.61	1,343.85	27.77	49.398		
,900.00	5,779.92	5,840.23	5,779.92	17.97	12.91	159.57	-381.06	-347.45	1,393.64	1,365.62	28.02	49.735		
,000.00	5,877.69	5,938.00	5,877.69	18.27	12.95	159.97	-381.06	-347.45	1,413.37	1,385.08	28.30	49.950		
3,100.00	5,975.98	6,036.29	5,975.98	18.54	12.99	160.31	-381.06	-347.45	1,430.72	1,402.16	28.56	50.091		
,200.00	6,074.72	6,135.02	6,074.72	18.77	13.03	160.60	-381.06	-347.45	1,445.66	1,416.84	28.82	50.160		
,300.00	6,074.72	6,234.14	6,074.72	18.98	13.03	160.83	-381.06	-347.45	1,445.00	1,410.64	29.07	50.159		
400.00	6,273.26	6,333.57	6,273.26	19.16	13.12	161.02	-381.06	-347.45	1,468.23	1,438.92	29.31	50.091		
,500.00	6,372.94	6,433.24	6,372.94	19.31	13.12	161.16	-381.06	-347.45	1,475.84	1,446.30	29.54	49.959		
600.00	6,472.79	6,533.09	6,472.79	19.42	13.21	161.25	-381.06	-347.45	1,480.97	1,451.22	29.76	49.769		
000.00	0,112.10	0,000.00	0,112.70	10.12	10.21	101.20	001.00	011110	1,100.01	1,101.22	20.70	10.700		
700.00	6,572.74	6,633.05	6,572.74	19.52	13.26	161.30	-381.06	-347.45	1,483.63	1,453.68	29.95	49.529		
800.00	6,672.74	6,733.05	6,672.74	19.54	13.30	-90.41	-381.06	-347.45	1,484.04	1,454.00	30.04	49.405		
900.00	6,772.74	6,833.05	6,772.74	19.58	13.35	-90.41	-381.06	-347.45	1,484.04	1,453.92	30.12	49.270		
000.00	6,872.74	6,933.05	6,872.74	19.62	13.40	-90.41	-381.06	-347.45	1,484.04	1,453.83	30.20	49.134		
100.00	6,972.74	7,033.05	6,972.74	19.66	13.44	-90.41	-381.06	-347.45	1,484.04	1,453.75	30.29	48.998		
200.00	7,072.74	7,133.05	7,072.74	19.70	13.49	-90.41	-381.06	-347.45	1,484.04	1,453.67	30.37	48.862		
300.00	7,172.74	7,233.05	7,172.74	19.74	13.54	-90.41	-381.06	-347.45	1,484.04	1,453.58	30.46	48.726		
400.00	7,272.74	7,333.05	7,272.74	19.77	13.59	-90.41	-381.06	-347.45	1,484.04	1,453.50	30.54	48.589		
,500.00	7,372.74	7,433.05	7,372.74	19.81	13.64	-90.41	-381.06	-347.45	1,484.04	1,453.41	30.63	48.452		
600.00	7,472.74	7,533.05	7,472.74	19.85	13.68	-90.41	-381.06	-347.45	1,484.04	1,453.32	30.72	48.315		
,700.00	7,572.74	7,633.05	7,572.74	19.89	13.73	-90.41	-381.06	-347.45	1,484.04	1,453.24	30.80	48.178		
,800.00	7,672.74	7,733.05	7,672.74	19.93	13.78	-90.41	-381.06	-347.45	1,484.04	1,453.15	30.89	48.040		
,900.00	7,772.74	7,833.05	7,772.74	19.97	13.83	-90.41	-381.06	-347.45	1,484.04	1,453.06	30.98	47.903		
000.00	7,872.74	7,933.05	7,872.74	20.01	13.88	-90.41	-381.06	-347.45	1,484.04	1,452.97	31.07	47.765		
100.00	7,972.74	8,033.05	7,972.74	20.05	13.93	-90.41	-381.06	-347.45	1,484.04	1,452.88	31.16	47.627		
,200.00	8,072.74	8,133.05	8,072.74	20.10	13.98	-90.41	-381.06	-347.45	1,484.04	1,452.79	31.25	47.489		
300.00	8,172.74	8,233.05	8,172.74	20.14	14.04	-90.41	-381.06	-347.45	1,484.04	1,452.70	31.34	47.351		
400.00	8,272.74	8,333.05	8,272.74	20.18	14.09	-90.41	-381.06	-347.45	1,484.04	1,452.61	31.43	47.213		
500.00	8,372.74	8,433.05	8,372.74	20.22	14.14	-90.41	-381.06	-347.45	1,484.04	1,452.51	31.53	47.075		
600.00	8,472.74	8,533.05	8,472.74	20.26	14.19	-90.41	-381.06	-347.45	1,484.04	1,452.42	31.62	46.937		
700.00	8,572.74	8,633.05	8,572.74	20.30	14.24	-90.41	-381.06	-347.45	1,484.04	1,452.33	31.71	46.798		
800.00	8,672.74	8,733.05	8,672.74	20.35	14.24	-90.41 -90.41	-381.06	-347.45	1,484.04	1,452.33	31.81	46.798		
900.00	8,772.74	8,833.05	8,772.74	20.35	14.29	-90.41 -90.41	-381.06	-347.45	1,484.04	1,452.23	31.90	46.522		
00.00	8,872.74	8,933.05	8,872.74	20.43	14.40	-90.41	-381.06	-347.45	1,484.04	1,452.04	31.99	46.384		
100.00	8,972.74	9,033.05	8,972.74	20.43	14.45	-90.41	-381.06	-347.45	1,484.04	1,451.95	32.09	46.245		
	-,	-,-50.00	-,	20.10			201.00		., .5 7	.,.51.00	52.00			
200.00	9,072.74	9,133.05	9,072.74	20.52	14.51	-90.41	-381.06	-347.45	1,484.04	1,451.85	32.19	46.107		
300.00	9,172.74	9,233.05	9,172.74	20.56	14.56	-90.41	-381.06	-347.45	1,484.04	1,451.75	32.28	45.969		
400.00	9,272.74	9,333.05	9,272.74	20.61	14.62	-90.41	-381.06	-347.45	1,484.04	1,451.66	32.38	45.831		
500.00	9,372.74	9,433.05	9,372.74	20.65	14.67	-90.41	-381.06	-347.45	1,484.04	1,451.56	32.48	45.693		
600.00	9,472.74	9,533.05	9,472.74	20.70	14.73	-90.41	-381.06	-347.45	1,484.04	1,451.46	32.58	45.555		
700.00	9,572.74	9,633.05	9,572.74	20.74	14.78	-90.41	-381.06	-347.45	1,484.04	1,451.36	32.68	45.417		
800.00	9,672.74	9,733.05	9,672.74	20.79	14.84	-90.41	-381.06	-347.45	1,484.04	1,451.26	32.77	45.280		
900.00	9,772.74	9,833.05	9,772.74	20.83	14.89	-90.41	-381.06	-347.45	1,484.04	1,451.16	32.87	45.142		
,000.00	9,872.74	9,933.05	9,872.74	20.88	14.95	-90.41	-381.06	-347.45	1,484.04	1,451.06	32.97	45.005		
,100.00	9,972.74	10,033.05	9,972.74	20.92	15.00	-90.41	-381.06	-347.45	1,484.04	1,450.96	33.08	44.868		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83)

Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

eference	Wellbore Design:	OH Plan #	<u> 2</u>				Database Offset TV	'D Referenc	e:		ital Directio ference Da		IIOII DB	
offset De	sign: ^{Juni}	or Mint Fed	l Pad - Ju	nior Mint Fe	d 156H - (OH - Plan #2							Offset Site Error:	0.00 us
urvey Prog	ram: 0-	MWD+HRGM-	SAG+FDIR (rev 5)						Rule Assi	anod:		Offset Well Error:	0.50 us
Refe	rence	Off	set	Semi I	Major Axis		Offset Wellbo	ore Centre	Dist	ance	_			0.00 0
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
10,300.00	10,172.74	10,233.05	10,172.74	21.01	15.12	-90.41	-381.06	-347.45	1,484.04	1,450.76	33.28	44.594		
10,400.00	10,272.74	10,333.05	10,272.74	21.06	15.17	-90.41	-381.06	-347.45	1,484.04	1,450.66	33.38	44.457		
10,500.00	10,372.74	10,433.05	10,372.74	21.11	15.23	-90.41	-381.06	-347.45	1,484.04	1,450.55	33.48	44.321		
10,600.00	10,472.74	10,533.05	10,472.74	21.15	15.29	-90.41	-381.06	-347.45	1,484.04	1,450.45	33.59	44.185		
10,700.00	10,572.74	10,633.05	10,572.74	21.20	15.34	-90.41	-381.06	-347.45	1,484.04	1,450.35	33.69	44.049		
10,800.00	10,672.74	10,733.05	10,672.74	21.25	15.40	-90.41	-381.06	-347.45	1,484.04	1,450.24	33.79	43.913		
10,900.00	10,772.74	10,833.05	10,772.74	21.29	15.46	-90.41	-381.06	-347.45	1,484.04	1,450.14	33.90	43.777		
11,000.00	10,872.74	10,933.05	10,872.74	21.34	15.52	-90.41	-381.06	-347.45	1,484.04	1,450.03	34.00	43.642		
11,100.00	10,972.74	11,033.05	10,972.74	21.39	15.57	-90.41	-381.06	-347.45	1,484.04	1,449.93	34.11	43.510		
11,200.00	11,072.74	11,133.18	11,072.83	21.44	15.64	-90.47	-382.66	-347.44	1,484.04	1,449.83	34.20	43.388		
11,213.44	11,086.18	11,146.59	11,086.19	21.44	15.66	-90.52	-383.82	-347.42	1,484.04	1,449.82	34.22	43.370		
11,300.00	11,172.74	11,230.87	11,169.15	21.49	15.82	-91.07	-398.21	-347.29	1,484.11	1,449.73	34.38	43.173		
11,400.00	11,272.74	11,320.93	11,254.45	21.53	16.05	-92.18	-426.85	-347.03	1,484.77	1,450.12	34.65	42.850		
11,500.00	11,372.74	11,400.00	11,324.83	21.58	16.30	-93.56	-462.73	-346.71	1,486.90	1,451.91	34.99	42.489		
11,600.00	11,472.74	11,468.62	11,381.42	21.63	16.58	-95.05	-501.48	-346.36	1,491.49	1,456.08	35.41	42.126		
11,700.00	11,572.74	11,526.21	11,425.05	21.68	16.84	-96.49	-539.02	-346.01	1,499.42	1,463.55	35.86	41.813		
11,800.00	11,672.74	11,574.56	11,458.63	21.73	17.10	-97.81	-573.80	-345.70	1,511.38	1,475.02	36.37	41.560		
11,900.00	11,772.74	11,615.21	11,484.50	21.78	17.35	-99.00	-605.13	-345.41	1,527.88	1,490.95	36.93	41.375		
12,000.00	11,872.61	11,650.00	11,504.83	21.84	17.58	79.12	-633.36	-345.16	1,548.58	1,511.07	37.52	41.276		
12,100.00	11,970.52	11,700.00	11,530.97	21.99	17.93	75.57	-675.96	-344.77	1,570.94	1,532.64	38.29	41.022		
12,200.00	12,063.53	11,727.44	11,543.71	22.19	18.15	72.74	-700.26	-344.55	1,593.27	1,554.19	39.07	40.778		
12,300.00	12,148.80	11,767.46	11,560.16	22.45	18.47	69.89	-736.73	-344.22	1,614.63	1,574.66	39.97	40.393		
12,400.00	12,223.74	11,800.00	11,571.64	22.78	18.75	67.53	-767.17	-343.94	1,633.98	1,593.11	40.87	39.984		
12,500.00	12,286.09	11,850.00	11,585.86	23.20	19.20	65.37	-815.09	-343.50	1,650.30	1,608.43	41.87	39.418		
12,600.00	12,333.93	11,900.00	11,595.86	23.71	19.20	63.77	-864.06	-343.06	1,663.08	1,620.22	42.86	38.803		
12,700.00	12,365.83	11,933.81	11,600.17	24.31	20.01	62.82	-897.59	-342.75	1,671.62	1,627.94	43.69	38.263		
10.000.00	10.000.01	44.070.44	44 000 70	04.00	00.40	00.04	000.00	0.40.07	4 075 70	1 001 01	44.50	07.044		
12,800.00	12,380.81	11,976.14	11,602.78	24.99	20.43	62.34	-939.83	-342.37	1,675.72	1,631.21	44.52	37.641		
12,900.00	12,382.30	12,060.96	11,603.34	25.74	21.31	62.30	-1,024.64	-341.60	1,676.05	1,630.33	45.72	36.658		
13,000.00	12,382.83	12,160.96	11,603.86	26.54	22.38	62.30	-1,124.64	-340.69	1,676.05	1,628.90	47.16	35.542		
13,100.00	12,383.35	12,260.96	11,604.39	27.39	23.48	62.30	-1,224.63	-339.78	1,676.05	1,627.38	48.67	34.435		
13,200.00	12,383.88	12,360.96	11,604.91	28.28	24.61	62.30	-1,324.62	-338.87	1,676.05	1,625.79	50.26	33.346		
13,300.00	12,384.40	12,460.96	11,605.44	29.20	25.76	62.30	-1,424.62	-337.96	1,676.05	1,624.13	51.92	32.282		
13,400.00	12,384.93	12,560.96	11,605.96	30.16	26.93	62.30	-1,524.61	-337.06	1,676.05	1,622.42	53.64	31.248		
13,500.00	12,385.46	12,660.96	11,606.49	31.14	28.12	62.30	-1,624.61	-336.15	1,676.05	1,620.64	55.41	30.248		
13,600.00	12,385.98	12,760.96	11,607.01	32.15	29.33	62.30	-1,724.60	-335.24	1,676.05	1,618.82	57.23	29.285		
13,700.00	12,386.51	12,860.96	11,607.54	33.18	30.55	62.30	-1,824.60	-334.33	1,676.05	1,616.95	59.10	28.359		
13,800.00	12,387.03	12,960.96	11,608.06	34.23	31.78	62.30	-1,924.59	-333.42	1,676.05	1,615.04	61.01	27.471		
13,900.00	12,387.56	13,060.96	11,608.59	35.31	33.02	62.30	-2,024.59	-332.51	1,676.05	1,613.09	62.96	26.621		
14,000.00	12,388.09	13,160.96	11,609.11	36.40	34.27	62.30	-2,124.58	-331.60	1,676.05	1,611.11	64.94	25.808		
14,100.00	12,388.61	13,260.96	11,609.64	37.51	35.53	62.30	-2,224.57	-330.69	1,676.05	1,609.10	66.96	25.032		
14,200.00	12,389.14	13,360.96	11,610.16	38.63	36.80	62.30	-2,324.57	-329.78	1,676.05	1,607.05	69.00	24.290		
14,300.00	12,389.66	13,460.96	11,610.69	39.77	38.07	62.30	-2,424.56	-328.88	1,676.05	1,604.98	71.07	23.583		
14,400.00	12,390.19	13,560.96	11,611.21	40.92	39.35	62.30	-2,524.56	-327.97	1,676.05	1,602.89	73.16	22.908		
14,500.00	12,390.71	13,660.96	11,611.74	42.08	40.64	62.30	-2,624.55	-327.06	1,676.05	1,600.77	75.28	22.264		
14,600.00	12,391.24	13,760.96	11,612.26	43.26	41.93	62.30	-2,724.55	-326.15	1,676.05	1,598.64	77.42	21.650		
14,700.00	12,391.77	13,860.96	11,612.79	44.44	43.23	62.30	-2,824.54	-325.24	1,676.05	1,596.48	79.57	21.063		
14,800.00	12,392.29	13,960.96	11,613.31	45.64	44.53	62.30	-2,924.54	-324.33	1,676.05	1,594.31	81.74	20.504		
14,800.00	12,392.29	14,060.96	11,613.31	45.64	44.53	62.30	-2,924.54 -3,024.53	-324.33	1,676.05	1,594.31	83.93	19.969		
15,000.00	12,393.34	14,160.96	11,614.36	48.05	47.14	62.30	-3,124.53	-322.51	1,676.05	1,589.92	86.14	19.458		
15,100.00	12,393.87	14,260.96	11,614.89	49.27	48.45	62.30	-3,124.53	-321.60	1,676.05	1,587.70	88.35	18.970		
15,200.00	12,393.67	14,360.96	11,615.41	50.50	49.77	62.30	-3,324.51	-321.00	1,676.05	1,585.47	90.58	18.503		
	10 201 00		11 645 04											
15,300.00	12,394.92	14,460.96	11,615.94	51.73	51.08	62.30	-3,424.51	-319.79	1,676.05	1,583.23	92.82	18.057		

Anticollision Report

TVD Reference:

MD Reference:

North Reference:

Local Co-ordinate Reference:

Survey Calculation Method:



Company: Project: Lea County, NM (NAD 83)

Civitas Resources

Junior Mint Fed Pad Reference Site:

0.00 usft Site Error: Reference Well:

Junior Mint Fed 218H

Well Error: Reference Wellbore ОН

0.50 usft

Output errors are at 2.00 sigma Database: .Total Directional Production DB

Well Junior Mint Fed 218H

Minimum Curvature

GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB)

Reference Design: Plan #2 Offset TVD Reference: Reference Datum

urvey Prog Refe	ram: 0-l	MWD+HRGM+ Off			lajor Axis		Offset Wellbo	ore Centre	Dist	Rule Assi ance	gned:		Offset Well Error:	0.50 us
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
15,400.00	12,395.45	14,560.96	11,616.46	52.97	52.40	62.30	-3,524.50	-318.88	1,676.05	1,580.98	95.07	17.629		
15,500.00	12,395.97	14,660.96	11,616.99	54.21	53.73	62.30	-3,624.50	-317.97	1,676.05	1,578.72	97.34	17.219		
15,600.00	12,396.50	14,760.96	11,617.51	55.47	55.05	62.30	-3,724.49	-317.06	1,676.05	1,576.45	99.61	16.826		
15,700.00	12,397.03	14,860.96	11,618.04	56.72	56.38	62.30	-3,824.49	-316.15	1,676.05	1,574.17	101.89	16.450		
15,800.00	12,397.55	14,960.96	11,618.56	57.98	57.71	62.30	-3,924.48	-315.24	1,676.05	1,571.88	104.18	16.088		
15,900.00	12,398.08	15,060.96	11,619.09	59.25	59.04	62.30	-4,024.48	-314.33	1,676.05	1,569.58	106.47	15.741		
16,000.00	12,398.60	15,160.96	11,619.61	60.52	60.37	62.30	-4,124.47	-313.42	1,676.05	1,567.28	108.78	15.408		
16,100.00	12,399.13	15,260.96	11,620.14	61.79	61.70	62.30	-4,224.46	-312.51	1,676.05	1,564.97	111.09	15.088		
16,200.00	12,399.65	15,360.96	11,620.67	63.07	63.04	62.30	-4,324.46	-311.61	1,676.05	1,562.65	113.40	14.779		
16,300.00	12,400.18	15,460.96	11,621.19	64.35	64.38	62.30	-4,424.45	-310.70	1,676.05	1,560.33	115.73	14.483		
16,400.00	12,400.71	15,560.96	11,621.72	65.63	65.71	62.30	-4,524.45	-309.79	1,676.05	1,558.00	118.06	14.197		
16,500.00	12,401.23	15,660.96	11,622.24	66.92	67.05	62.30	-4,624.44	-308.88	1,676.05	1,555.66	120.39	13.922		
16,600.00	12,401.76	15,760.96	11,622.77	68.21	68.39	62.30	-4,724.44	-307.97	1,676.05	1,553.33	122.73	13.657		
16,700.00	12,402.28	15,860.96	11,623.29	69.51	69.74	62.30	-4,824.43	-307.06	1,676.05	1,550.98	125.07	13.401		
16,800.00	12,402.81	15,960.96	11,623.82	70.80	71.08	62.30	-4,924.43	-306.15	1,676.05	1,548.63	127.42	13.154		
16,900.00	12,403.34	16,060.96	11,624.34	72.10	72.42	62.30	-5,024.42	-305.24	1,676.05	1,546.28	129.77	12.915		
47,000,00	40 400 00	40,400,00	44.004.07	70.40	70.77	00.00	5 404 44	204.22	4 070 05	4 540 00	400.40	40.005		
17,000.00	12,403.86	16,160.96	11,624.87	73.40	73.77	62.30	-5,124.41	-304.33	1,676.05	1,543.93	132.13	12.685		
17,100.00	12,404.39	16,260.96	11,625.39	74.71	75.11 76.46	62.30	-5,224.41	-303.43	1,676.05	1,541.57	134.49	12.463		
17,200.00 17,300.00	12,404.91 12,405.44	16,360.96 16,460.96	11,625.92 11,626.44	76.01 77.32	76.46	62.30 62.30	-5,324.40 -5,424.40	-302.52 -301.61	1,676.05 1,676.05	1,539.20 1,536.84	136.85 139.22	12.247 12.039		
17,400.00	12,405.96	16,560.96	11,626.97	78.63	79.15	62.30	-5,524.39	-300.70	1,676.05	1,534.47	141.59	11.838		
17,400.00	12,405.90	10,300.90	11,020.91	70.03	79.15	02.30	-5,524.59	-300.70	1,070.03	1,554.47	141.59	11.030		
17,500.00	12,406.49	16,660.96	11,627.49	79.94	80.50	62.30	-5,624.39	-299.79	1,676.05	1,532.09	143.96	11.643		
17,600.00	12,407.02	16,760.96	11,628.02	81.26	81.85	62.30	-5,724.38	-298.88	1,676.05	1,529.72	146.34	11.453		
17,700.00	12,407.54	16,860.96	11,628.54	82.57	83.20	62.30	-5,824.38	-297.97	1,676.05	1,527.34	148.71	11.270		
17,800.00	12,408.07	16,960.96	11,629.07	83.89	84.55	62.30	-5,924.37	-297.06	1,676.05	1,524.96	151.10	11.093		
17,900.00	12,408.59	17,060.96	11,629.59	85.21	85.90	62.30	-6,024.37	-296.15	1,676.05	1,522.57	153.48	10.920		
18,000.00	12,409.12	17,160.96	11,630.12	86.53	87.26	62.30	-6,124.36	-295.25	1,676.05	1,520.19	155.87	10.753		
18,100.00	12,409.65	17,260.96	11,630.64	87.85	88.61	62.30	-6,224.35	-294.34	1,676.05	1,517.80	158.25	10.591		
18,200.00	12,410.17	17,360.96	11,631.17	89.18	89.96	62.30	-6,324.35	-293.43	1,676.05	1,515.41	160.65	10.433		
18,300.00	12,410.70	17,460.96	11,631.69	90.50	91.32	62.30	-6,424.34	-292.52	1,676.05	1,513.01	163.04	10.280		
18,400.00	12,411.22	17,560.96	11,632.22	91.83	92.67	62.30	-6,524.34	-291.61	1,676.05	1,510.62	165.43	10.131		
18,500.00	12,411.75	17,660.96	11,632.74	93.15	94.02	62.30	-6,624.33	-290.70	1,676.05	1,508.22	167.83	9.987		
18,600.00	12,411.73	17,760.96	11,633.27	94.48	95.38	62.30	-6,724.33	-289.79	1,676.05	1,505.82	170.23	9.846		
18,700.00	12,412.80	17,860.96	11,633.79	95.81	96.73	62.30	-6,824.32	-288.88	1,676.05	1,503.42	172.63	9.709		
18,800.00	12,413.33	17,960.96	11,634.32	97.14	98.09	62.30	-6,924.32	-287.97	1,676.05	1,501.02	175.03	9.576		
18,900.00	12,413.85	18,060.96	11,634.84	98.47	99.44	62.30	-7,024.31	-287.07	1,676.05	1,498.62	177.44	9.446		
40.000.00	40 444 05	40 400 00	44.005.07	00.01	400.00	00.00	7.404.00	000.10	4 070 05	4 400 04	470.04	0.000		
19,000.00	12,414.38	18,160.96	11,635.37	99.81	100.80	62.30	-7,124.30	-286.16	1,676.05	1,496.21	179.84	9.320		
19,100.00	12,414.90	18,260.96	11,635.89	101.14	102.16	62.30	-7,224.30	-285.25	1,676.05	1,493.81	182.25	9.197		
19,200.00	12,415.43	18,360.96	11,636.42	102.47	103.51	62.30	-7,324.29	-284.34	1,676.05	1,491.40	184.66	9.077		
19,300.00	12,415.96	18,460.96	11,636.94	103.81	104.87	62.30	-7,424.29 -7,524.28	-283.43 -282.52	1,676.05	1,488.99	187.07	8.960 8.846		
10,400.00	12,416.48	18,560.96	11,637.47	105.15	106.23	62.30	-1,524.20	-282.52	1,676.05	1,486.58	189.48	8.846		
19,500.00	12,417.01	18,660.96	11,637.99	106.48	107.59	62.30	-7,624.28	-281.61	1,676.05	1,484.17	191.89	8.735		
19,600.00	12,417.53	18,760.96	11,638.52	107.82	108.95	62.30	-7,724.27	-280.70	1,676.05	1,481.75	194.30	8.626		
19,700.00	12,418.06	18,860.96	11,639.04	109.16	110.30	62.30	-7,824.27	-279.79	1,676.05	1,479.34	196.72	8.520		
19,800.00	12,418.59	18,960.96	11,639.57	110.50	111.66	62.30	-7,924.26	-278.88	1,676.05	1,476.92	199.13	8.417		
19,900.00	12,419.11	19,060.96	11,640.09	111.84	113.02	62.30	-8,024.26	-277.98	1,676.05	1,474.50	201.55	8.316		
20,000.00	12,419.64	19,160.96	11,640.62	113.18	114.38	62.30	-8,124.25	-277.07	1,676.05	1,472.09	203.97	8.217		
20,100.00	12,420.16	19,260.96	11,641.14	114.52	115.74	62.30	-8,224.24	-276.16	1,676.05	1,469.67	206.39	8.121		
20,200.00	12,420.69	19,360.96	11,641.67	115.86	117.10	62.30	-8,324.24	-275.25	1,676.05	1,467.25	208.81	8.027		
20,300.00	12,421.21	19,460.96	11,642.19	117.20	118.46	62.30	-8,424.23	-274.34	1,676.05	1,464.83	211.23	7.935		
20,400.00	12,421.74	19,560.96	11,642.72	118.55	119.82	62.30	-8,524.23	-273.43	1,676.05	1,462.40	213.65	7.845		
20,500.00	12,422.27	19,660.96	11,643.24	119.89	121.18	62.30	-8,624.22	-272.52	1,676.05	1,459.98	216.07	7.757		

Anticollision Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)
Reference Site: Junior Mint Fed Pad

Plan #2

Site Error: 0.00 usft

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft
Reference Wellbore OH

Reference Design:

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

MD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

Refere		Off	·SAG+FDIR (I		lajor Axis		Offset Wellbo	oro Contro	Die	Rule Assig	gned:		Offset Well Error:	0.50 us
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S (usft)	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)		(usft)	(usft)	(usft)	(usft)	7.074		
	12,422.79	19,760.96	11,643.77	121.24	122.54	62.30	-8,724.22	-271.61	1,676.05	1,457.56	218.49	7.671		
	12,423.32	19,860.96	11,644.29	122.58	123.90	62.30	-8,824.21	-270.70	1,676.05	1,455.13	220.92	7.587		
	12,423.84 12.424.37	19,960.96 20.060.96	11,644.82 11.645.34	123.93 125.27	125.26 126.62	62.30	-8,924.21 -9.024.20	-269.80	1,676.05 1.676.05	1,452.71 1.450.28	223.34 225.77	7.504 7.424		
.,	12,424.37	20,060.96	11,645.87	125.27	120.62	62.30 62.30	-9,024.20 -9,124.19	-268.89 -267.98	1,676.05	1,450.28	228.20	7.424		
	12,424.90	20,160.96	11,646.39	120.02	129.35	62.30	-9,124.19	-267.96	1,676.05	1,445.43	230.62	7.267		
21,100.00	12,423.42	20,200.90	11,040.39	127.97	129.55	02.30	-9,224.19	-207.07	1,070.03	1,440.40	230.02	1.201		
21,200.00	12,425.95	20,360.96	11,646.92	129.31	130.71	62.30	-9,324.18	-266.16	1,676.05	1,443.00	233.05	7.192		
21,300.00	12,426.47	20,460.96	11,647.44	130.66	132.07	62.30	-9,424.18	-265.25	1,676.05	1,440.57	235.48	7.118		
21,400.00	12,427.00	20,560.96	11,647.97	132.01	133.43	62.30	-9,524.17	-264.34	1,676.05	1,438.14	237.91	7.045		
21,500.00	12,427.52	20,660.96	11,648.50	133.36	134.79	62.30	-9,624.17	-263.43	1,676.05	1,435.71	240.34	6.974		
21,600.00	12,428.05	20,760.96	11,649.02	134.71	136.16	62.30	-9,724.16	-262.52	1,676.05	1,433.28	242.77	6.904		
21,700.00	12,428.58	20,860.96	11,649.55	136.06	137.52	62.30	-9,824.16	-261.62	1,676.05	1,430.85	245.20	6.835		
	12,429.10	20,960.96	11,650.07	137.41	138.88	62.30	-9,924.15	-260.71	1,676.05	1,428.42	247.63	6.768		
	12,429.63	21,060.96	11,650.60	138.76	140.24	62.30	-10,024.15	-259.80	1,676.05	1,425.99	250.07	6.702		
22,000.00	12,430.15	21,160.96	11,651.12	140.11	141.61	62.30	-10,124.14	-258.89	1,676.05	1,423.55	252.50	6.638		
22,100.00	12,430.68	21,260.96	11,651.65	141.46	142.97	62.30	-10,224.13	-257.98	1,676.05	1,421.12	254.93	6.574		
22,200.00	12,431.21	21,360.96	11,652.17	142.81	144.33	62.30	-10,324.13	-257.07	1,676.05	1,418.69	257.37	6.512		
22,300.00	12,431.73	21,460.96	11,652.70	144.16	145.70	62.30	-10,424.12	-256.16	1,676.05	1,416.25	259.80	6.451		
22,400.00	12,432.26	21,560.96	11,653.22	145.51	147.06	62.30	-10,524.12	-255.25	1,676.05	1,413.82	262.24	6.391		
22,500.00	12,432.78	21,660.96	11,653.75	146.87	148.42	62.30	-10,624.11	-254.34	1,676.05	1,411.38	264.67	6.333		
22,600.00	12,433.31	21,760.96	11,654.27	148.22	149.79	62.30	-10,724.11	-253.44	1,676.05	1,408.94	267.11	6.275		
	12,433.83	21,860.96	11,654.80	149.57	151.15	62.30	-10,824.10	-252.53	1,676.05	1,406.51	269.55	6.218		
	12,434.14 12,434.20	21,918.23 21,918.86	11,655.10 11,655.10	150.38 150.56	151.93 151.94	62.30 62.30	-10,881.37 -10,882.00	-252.01 -252.00	1,676.05 1,676.10	1,405.11 1,405.07	270.94 271.03	6.186 6.184	SF	

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad

Plan #2

Reference Site: 0.00 usft

Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft Reference Wellbore ОН

Reference Design:

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

Offset Design: Junior Mint Fed Pad -	Junior Mint Fed 158H - OH - Plan #2

Offset Site Error:	0.00 usft
Offset Well Error:	0.50 usft

													Offset Site Error:	
urvey Progr		/WD+HRGM+								Rule Assig	gned:		Offset Well Error:	0.50 us
Refer Vleasured	rence Vertical	Off Measured	set Vertical	Semi M Reference	lajor Axis Offset	Highside	Offset Wellbo	ore Centre	Dist Between	ance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth		0.1001	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	0.00	0.00	0.50	0.50	-90.00	0.00	-25.00	25.00					
100.00	100.00	100.00	100.00	0.98	0.98	-90.00	0.00	-25.00	25.00	23.04	1.96	12.741		
200.00	200.00	200.00	200.00	1.56	1.56	-90.00	0.00	-25.00	25.00	21.88	3.12	8.007		
300.00	300.00	300.00	300.00	1.98	1.98	-90.00	0.00	-25.00	25.00	21.04	3.96	6.309	CC	
400.00	399.99	400.50	400.49	2.41	2.41	161.75	-0.85	-23.99	25.25	20.47	4.77	5.289		
500.00	499.91	500.99	500.89	2.78	2.77	158.74	-3.40	-20.95	26.04	20.58	5.45	4.776		
600.00	599.69	601.44	601.12	3.11	3.11	154.12	-7.64	-15.89	27.50	21.45	6.05	4.549		
700.00	699.27	701.84	701.10	3.42	3.41	148.47	-13.57	-8.82	29.80	23.23	6.57	4.534		
800.00	798.57	802.18	800.73	3.71	3.70	142.45	-21.19	0.25	33.11	26.06	7.05	4.696		
900.00	897.62	902.16	899.76	3.84	3.83	136.91	-30.05	10.81	37.38	30.11	7.27	5.141		
1,000.00	996.65	1,002.01	998.64	4.07	4.06	132.53	-38.98	21.46	41.97	34.26	7.71	5.441		
1,100.00	1,095.67	1,101.86	1,097.51	4.29	4.28	129.04	-47.92	32.10	46.76	38.60	8.16	5.730		
1,200.00	1,194.70	1,201.71	1,196.39	4.51	4.52	126.20	-56.85	42.75	51.70	43.07	8.62	5.994		
1,300.00	1,293.73	1,302.84	1,296.42	4.73	4.73	123.27	-65.61	54.74	55.63	46.56	9.07	6.132		
1,400.00	1,392.75	1,404.08	1,396.27	4.95	4.95	119.45	-73.76	69.33	57.38	47.86	9.52	6.024		
1,500.00	1,491.78	1,505.23	1,495.67	5.17	5.18	114.39	-81.28	86.49	57.18	47.20	9.98	5.730		
1,600.00	1,590.81	1,606.16	1,594.42	5.38	5.41	107.57	-88.16	106.17	55.42	44.99	10.44	5.311		
	1,689.83	1,705.91	1,691.74	5.59	5.60	99.29	-94.60	127.05	53.51	42.62	10.44	4.914		
1,700.00 1,800.00	1,788.86	1,805.58	1,788.99	5.80	5.81	90.59	-101.04	147.91	52.78	41.40	11.38	4.636		
1,800.00	1,797.28	1,814.05	1,797.26	5.82	5.83	89.84	-101.59	149.69	52.78	41.40	11.43	4.619		
1,900.00	1,887.89	1,905.25	1,886.24	6.01	6.05	81.86	-107.48	168.78	53.30	41.42	11.43	4.485		
1,900.00	1,007.09	1,803.23	1,000.24	0.01	0.05	01.00	-107.46	100.76	55.50	41.42	11.00	4.400		
2,000.00	1,986.91	2,004.92	1,983.49	6.22	6.32	73.48	-113.91	189.65	55.02	42.65	12.38	4.446		
2,100.00	2,085.94	2,104.59	2,080.74	6.43	6.60	65.77	-120.35	210.52	57.84	44.98	12.86	4.498		
2,200.00	2,184.97	2,204.26	2,177.99	6.64	6.88	58.87	-126.79	231.38	61.61	48.28	13.33	4.623		
2,300.00	2,283.86	2,304.00	2,275.30	6.84	7.16	53.10	-133.23	252.27	65.57	51.81	13.76	4.765		
2,400.00	2,382.33	2,403.89	2,372.77	7.08	7.45	49.58	-139.68	273.18	68.27	54.03	14.24	4.794		
2,500.00	2,480.31	2,503.86	2,470.31	7.32	7.74	47.93	-146.13	294.11	69.34	54.60	14.74	4.705		
2,600.00	2,577.74	2,603.86	2,567.88	7.57	8.03	47.93	-152.59	315.05	68.62	53.37	15.25	4.499		
2,700.00	2,674.78	2,703.83	2,665.42	7.79	8.32	49.14	-159.05	335.98	66.76	51.01	15.75	4.240		
2,800.00	2,771.81	2,803.80	2,762.96	8.06	8.61	50.45	-165.50	356.91	64.91	48.63	16.28	3.987		
2,900.00	2,868.84	2,903.77	2,860.51	8.35	8.90	51.84	-171.96	377.84	63.10	46.27	16.83	3.750		
3,000.00	2,965.87	3,003.75	2,958.05	8.65	9.20	53.31	-178.42	398.77	61.33	43.94	17.38	3.528		
3,100.00	3,062.90	3,103.72	3,055.59	8.95	9.49	54.87	-184.87	419.70	59.60	41.65	17.95	3.320		
3,200.00	3,159.93	3,203.69	3,153.13	9.26	9.79	56.52	-191.33	440.63	57.91	39.38	18.53	3.125		
3,300.00	3,256.96	3,303.66	3,250.68	9.57	10.08	58.27	-197.78	461.57	56.28	37.16	19.12	2.943		
3,400.00	3,353.99	3,403.63	3,348.22	9.88	10.38	60.12	-204.24	482.50	54.70	34.97	19.73	2.772		
3 500 00	0.454.00	2 502 00	2 445 70	40.00	10.00	62.00	240.70	E00.40	F0 40	20.04	20.05	0.040		
3,500.00	3,451.02	3,503.60	3,445.76	10.20	10.68	62.08	-210.70	503.43	53.19	32.84	20.35	2.613		
3,600.00	3,548.05	3,603.57	3,543.30	10.51	10.97	64.15	-217.15	524.36	51.74	30.75	20.98	2.465		
3,700.00	3,645.08	3,703.55	3,640.84	10.83	11.27	66.33	-223.61	545.29	50.36	28.73	21.63	2.328		
3,800.00	3,742.11	3,803.52	3,738.39	11.15	11.57	68.64	-230.06	566.22	49.05	26.77	22.29	2.201		
3,900.00	3,839.14	3,903.49	3,835.93	11.47	11.87	71.07	-236.52	587.15	47.84	24.88	22.96	2.084		
4,000.00	3,936.17	4,003.46	3,933.47	11.79	12.17	73.62	-242.97	608.08	46.71	23.07	23.63	1.976	Collision Risk Procedures	Rec
4,100.00	4,033.20	4,103.46	4,031.01	11.79	12.17	73.62	-242.97 -249.43	629.01	45.68	23.07	24.31	1.879	Collision Risk Procedures	
4,200.00	4,130.23					79.08		649.94	44.75	19.75	25.00	1.790	Collision Risk Procedures	
	4,130.23	4,203.40	4,128.56	12.43	12.77		-255.89 -262.34						Collision Risk Procedures Collision Risk Procedures	
4,300.00		4,303.37	4,226.10	12.76	13.07	81.97	-262.34	670.87	43.93	18.24	25.69	1.710		
4,400.00	4,324.29	4,403.35	4,323.64	13.08	13.37	84.97	-268.80	691.80	43.23	16.86	26.37	1.640	Collision Risk Procedures	req.
4,500.00	4,421.32	4,503.32	4,421.18	13.40	13.67	88.06	-275.25	712.74	42.65	15.61	27.04	1.578	Collision Risk Procedures	Reg
4,600.00	4,518.35	4,603.29	4,518.73	13.40	13.07	91.23	-275.25	733.67	42.03	14.51	27.69	1.524	Collision Risk Procedures	
4,700.00	4,615.38	4,703.26	4,616.27	14.06	14.28	94.45	-288.17	754.60	41.88	13.55	28.33	1.478	Collision Avoidance Req.	, roq.
4,800.00	4,712.41	4,803.23	4,713.81	14.06	14.28	94.45	-200.17	754.60	41.69	12.75	28.95	1.440	Collision Avoidance Req.	
4,886.07														
4,000.07	4,795.92	4,889.28	4,797.76	14.66	14.84	100.54	-300.18	793.54	41.64	12.19	29.45	1.414	Collision Avoidance Req.	
4,900.00	4,809.44	4,903.20	4,811.35	14.71	14.88	100.99	-301.08	796.46	41.65	12.11	29.53	1.410	Collision Avoidance Req.	

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad

Reference Site: 0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Reference	Design:	Plan #	¹ 2				Offset TV	Itabase: . Total Directional Production DB ffset TVD Reference: Reference Datum						
Offset De	sign: ^{Juni}	or Mint Fed	l Pad - Ju	nior Mint Fe	d 158H - 0	OH - Plan #2							0#+ 6" =	0.00
	_												Offset Site Error:	0.00 us
Survey Prog	ram: 0- rence	MWD+HRGM+ Off			Major Axis		Offset Wellb	ore Centre	Dis	Rule Assi	gned:		Offset Well Error:	0.50 us
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside		ore ocnire	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S (usft)	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)		(usft)	(usft)	(usft)	(usft)	4.007	0 111 1 1 1	
5,000.00	4,906.47	5,003.18	4,908.90	15.04	15.18	104.27	-307.53	817.39	41.73	11.64	30.09	1.387	Collision Avoidance Req	
5,100.00	5,003.50	5,103.15	5,006.44	15.36	15.48	107.53	-313.99	838.32	41.96	11.34	30.62	1.370	Collision Avoidance Req	
5,200.00	5,100.53	5,203.12	5,103.98	15.69	15.79	110.74	-320.45	859.25	42.31	11.20	31.12	1.360	Collision Avoidance Req Collision Avoidance Req	
5,300.00 5,400.00	5,197.56 5,294.59	5,303.09 5,403.06	5,201.52 5,299.07	16.02 16.35	16.09 16.39	113.88 116.95	-326.90 -333.36	880.18 901.11	42.80 43.41	11.22 11.40	31.58 32.02	1.355 1.356	Collision Avoidance Req	
5,500.00	5,391.62	5,503.03	5,396.61	16.68	16.69	119.92	-339.81	922.04	44.15	11.72	32.43	1.361	Collision Avoidance Req	
0,000.00	0,001.02	0,000.00	0,000.01	10.00	10.00		000.01	022.01		2	02.10	1.001	Comoiori i i voidarioo i ioq	
5,600.00	5,488.65	5,602.80	5,493.98	17.01	16.98	122.92	-346.22	942.81	45.07	12.29	32.78	1.375	Collision Avoidance Req	
5,700.00	5,585.68	5,701.98	5,591.19	17.34	17.25	127.69	-352.02	961.61	47.34	14.38	32.96	1.436	Collision Avoidance Req	
5,800.00	5,682.71	5,800.88	5,688.59	17.67	17.50	134.07	-357.05	977.94	51.71	18.82	32.89	1.572	Collision Risk Procedure	s Req.
5,900.00	5,779.92	5,900.00	5,786.63	17.97	17.73	140.58	-361.36	991.88	58.06	25.35	32.72	1.775	Collision Risk Procedure	
6,000.00	5,877.69	5,997.73	5,883.64	18.27	17.92	145.70	-364.86	1,003.25	65.06	32.45	32.62	1.995	Collision Risk Procedure	s Req.
6 100 00	E 07E 09	6 NNE 92	5 001 27	10.54	10.00	140.77	267.64	1 012 27	72.40	20.00	22.60	2 222		
6,100.00 6,200.00	5,975.98 6,074.72	6,095.82 6,193.70	5,981.27 6,078.90	18.54 18.77	18.08 18.22	149.77 153.03	-367.64 -369.68	1,012.27 1,018.88	72.48 80.16	39.88 47.53	32.60 32.63	2.223 2.457		
6,300.00	6,173.83	6,291.36	6,176.45	18.98	18.32	155.67	-370.98	1,023.09	88.02	55.34	32.68	2.693		
6,400.00	6,273.26	6,388.80	6,273.88	19.16	18.41	157.82	-371.54	1,024.91	96.00	63.25	32.75	2.931		
6,500.00	6,372.94	6,487.86	6,372.94	19.31	18.44	159.51	-371.57	1,025.00	103.40	70.59	32.81	3.151		
-,	-,	-,	-,					.,						
6,600.00	6,472.79	6,587.71	6,472.79	19.42	18.48	160.54	-371.57	1,025.00	108.50	75.56	32.94	3.294		
6,700.00	6,572.74	6,687.67	6,572.74	19.52	18.52	161.04	-371.57	1,025.00	111.15	78.06	33.09	3.359		
6,800.00	6,672.74	6,787.67	6,672.74	19.54	18.56	-90.61	-371.57	1,025.00	111.56	78.39	33.16	3.364		
6,900.00	6,772.74	6,887.67	6,772.74	19.58	18.60	-90.61	-371.57	1,025.00	111.56	78.32	33.24	3.356		
7,000.00	6,872.74	6,987.67	6,872.74	19.62	18.64	-90.61	-371.57	1,025.00	111.56	78.24	33.31	3.349		
7,100.00	6,972.74	7,087.67	6,972.74	19.66	18.68	-90.61	-371.57	1,025.00	111.56	78.17	33.39	3.341		
7,100.00	7,072.74	7,187.67	7,072.74	19.70	18.72	-90.61	-371.57	1,025.00	111.56	78.09	33.47	3.333		
7,300.00	7,072.74	7,187.67	7,072.74	19.74	18.76	-90.61	-371.57	1,025.00	111.56	78.09	33.55	3.325		
7,400.00	7,172.74	7,387.67	7,172.74	19.74	18.80	-90.61	-371.57	1,025.00	111.56	77.93	33.62	3.318		
7,500.00	7,372.74	7,487.67	7,372.74	19.77	18.84	-90.61	-371.57	1,025.00	111.56	77.85	33.70	3.310		
7,000.00	7,072.74	1,401.01	1,012.14	10.01	10.04	-50.01	-07 1.07	1,020.00	111.00	77.00	00.70	0.010		
7,600.00	7,472.74	7,587.67	7,472.74	19.85	18.88	-90.61	-371.57	1,025.00	111.56	77.77	33.78	3.302		
7,700.00	7,572.74	7,687.67	7,572.74	19.89	18.92	-90.61	-371.57	1,025.00	111.56	77.69	33.86	3.294		
7,800.00	7,672.74	7,787.67	7,672.74	19.93	18.96	-90.61	-371.57	1,025.00	111.56	77.61	33.94	3.287		
7,900.00	7,772.74	7,887.67	7,772.74	19.97	19.01	-90.61	-371.57	1,025.00	111.56	77.53	34.03	3.279		
8,000.00	7,872.74	7,987.67	7,872.74	20.01	19.05	-90.61	-371.57	1,025.00	111.56	77.45	34.11	3.271		
									==					
8,100.00	7,972.74	8,087.67	7,972.74	20.05	19.09	-90.61	-371.57	1,025.00	111.56	77.37	34.19	3.263		
8,200.00	8,072.74	8,187.67	8,072.74	20.10	19.14	-90.61	-371.57	1,025.00	111.56	77.28	34.27	3.255		
8,300.00 8,400.00	8,172.74 8,272.74	8,287.67 8,387.67	8,172.74	20.14	19.18	-90.61 -90.61	-371.57 -371.57	1,025.00	111.56	77.20 77.12	34.36	3.247		
8,500.00	8,272.74	8,487.67	8,272.74 8,372.74	20.18 20.22	19.22 19.27	-90.61 -90.61	-371.57 -371.57	1,025.00 1,025.00	111.56 111.56	77.12 77.03	34.44 34.53	3.239 3.231		
0,000.00	0,512.14	0,401.01	0,012.14	20.22	10.21	-00.01	-51 1.51	1,020.00	111.00	11.03	34.03	5.231		
8,600.00	8,472.74	8,587.67	8,472.74	20.26	19.31	-90.61	-371.57	1,025.00	111.56	76.95	34.61	3.223		
8,700.00	8,572.74	8,687.67	8,572.74	20.30	19.36	-90.61	-371.57	1,025.00	111.56	76.86	34.70	3.215		
8,800.00	8,672.74	8,787.67	8,672.74	20.35	19.40	-90.61	-371.57	1,025.00	111.56	76.77	34.78	3.207		
8,900.00	8,772.74	8,887.67	8,772.74	20.39	19.44	-90.61	-371.57	1,025.00	111.56	76.69	34.87	3.199		
9,000.00	8,872.74	8,987.67	8,872.74	20.43	19.49	-90.61	-371.57	1,025.00	111.56	76.60	34.96	3.191		
9,100.00	8,972.74	9,087.67	8,972.74	20.48	19.54	-90.61	-371.57	1,025.00	111.56	76.51	35.05	3.183		
9,200.00	9,072.74	9,187.67	9,072.74	20.52	19.58	-90.61	-371.57	1,025.00	111.56	76.42	35.13	3.175		
9,300.00	9,172.74	9,287.67	9,172.74	20.56	19.63	-90.61	-371.57	1,025.00	111.56	76.33	35.22	3.167		
9,400.00	9,272.74	9,387.67	9,272.74	20.61	19.67	-90.61	-371.57	1,025.00	111.56	76.24	35.31	3.159		
9,500.00	9,372.74	9,487.67	9,372.74	20.65	19.72	-90.61	-371.57	1,025.00	111.56	76.15	35.40	3.151		
9,600.00	9,472.74	9,587.67	9,472.74	20.70	19.77	-90.61	-371.57	1,025.00	111.56	76.06	35.49	3.143		
9,700.00	9,572.74	9,687.67	9,572.74	20.74	19.81	-90.61	-371.57	1,025.00	111.56	75.97	35.59	3.135		
9,800.00	9,672.74	9,787.67	9,672.74	20.79	19.86	-90.61	-371.57	1,025.00	111.56	75.88	35.68	3.127		
9,900.00	9,772.74	9,887.67	9,772.74	20.79	19.91	-90.61	-371.57	1,025.00	111.56	75.79	35.77	3.119		
10,000.00	9,872.74	9,987.67	9,872.74	20.88	19.95	-90.61	-371.57	1,025.00	111.56	75.69	35.86	3.111		
			·											
10,100.00	9,972.74	10,087.67	9,972.74	20.92	20.00	-90.61	-371.57	1,025.00	111.56	75.60	35.96	3.103		

Anticollision Report

TVD Reference:

MD Reference:

North Reference:

Output errors are at

Local Co-ordinate Reference:

Survey Calculation Method:



Company: Civitas Resources

Project: Lea County, NM (NAD 83)

Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Well Error: 0.50 usft

Reference Design:

Reference Wellbore ОН

Reference Well: Junior Mint Fed 218H

Plan #2

Database:

.Total Directional Production DB

Well Junior Mint Fed 218H

Minimum Curvature

2.00 sigma

GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB)

Offset TVD Reference: Reference Datum

Jiiset De	sign: Julia	Ji Milli Fed	Pau - Ju	nior wint re	u 156H - (OH - Plan #2							Offset Site Error:	0.00 us
		MMD. HBCM	CAC LEDID /	rau E)						Bula Assis				
	ram: U-I erence	MWD+HRGM+ Off		Semi N	Major Axis		Offset Wellb	ore Centre		Rule Assig	gned:		Offset Well Error:	0.50 us
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S		Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	((Toolface	(usft)	+E/-W (usft)	Centres	Ellipses	Separation	Factor		
(usft) 10,200.00	(usft) 10,072.74	(usft) 10,187.67	(usft) 10,072.74	(usft) 20.97	(usft) 20.05	-90.61	-371.57	1,025.00	(usft) 111.56	(usft) 75.51	(usft) 36.05	3.094		
10,300.00	10,072.74	10,187.67	10,072.74	21.01	20.03	-90.61	-371.57	1,025.00	111.56	75.41	36.14	3.086		
10,300.00	10,172.74	10,287.67	10,172.74	21.01	20.10	-90.61	-371.57	1,025.00	111.56	75.41	36.24	3.078		
10,500.00	10,272.74	10,367.67	10,272.74	21.00	20.13	-90.61	-371.57	1,025.00	111.56	75.32	36.33	3.070		
10,600.00	10,372.74	10,587.67	10,372.74	21.11	20.19	-90.61	-371.57	1,025.00	111.56	75.22	36.43	3.062		
10,700.00	10,572.74	10,687.67	10,572.74	21.20	20.29	-90.61	-371.57	1,025.00	111.56	75.03	36.53	3.054		
10,100.00	10,012.11	10,001.01	10,012.11	21.20	20.20	00.01	0	1,020.00	111.00	70.00	00.00	0.00		
10,800.00	10,672.74	10,787.67	10,672.74	21.25	20.34	-90.61	-371.57	1,025.00	111.56	74.93	36.62	3.046		
10,900.00	10,772.74	10,887.67	10,772.74	21.29	20.39	-90.61	-371.57	1,025.00	111.56	74.84	36.72	3.038		
11,000.00	10,872.74	10,987.67	10,872.74	21.34	20.44	-90.61	-371.57	1,025.00	111.56	74.74	36.82	3.030		
11,100.00	10,972.74	11,087.67	10,972.74	21.39	20.49	-90.61	-371.57	1,025.00	111.56	74.64	36.92	3.022		
11,109.81	10,982.55	11,097.48	10,982.55	21.39	20.49	-90.61	-371.57	1,025.00	111.56	74.63	36.93	3.021		
44 000 00	44.070.7:	44 400 00	44.070.05	24.4:	00.57	00.40	070.40	4.004.07	410.00	74.00	07.17	0.045		
11,200.00	11,072.74	11,186.09	11,070.95	21.44	20.57	-93.12	-376.48	1,024.67	112.06	74.89	37.17	3.015		
11,300.00	11,172.74	11,279.95	11,162.59	21.49	20.71	-102.87	-396.27	1,023.34	116.57	78.42	38.16	3.055		
11,400.00 11,500.00	11,272.74	11,365.38 11,440.25	11,242.17 11,307.49	21.53	20.87	-116.16	-427.02 462.42	1,021.27	132.03	92.08	39.95	3.305		
	11,372.74	11,440.25		21.58	21.04	-128.32	-463.43	1,018.82	163.63	121.69	41.94	3.902		
11,600.00	11,472.74	11,000.00	11,355.85	21.63	21.20	-136.83	-498.39	1,016.47	210.87	167.25	43.62	4.834		
11,700.00	11,572.74	11,558.51	11,399.43	21.68	21.38	-143.68	-537.31	1,013.85	270.10	225.28	44.82	6.026		
11,800.00	11,672.74	11,600.00	11,427.81	21.73	21.52	-147.67	-567.49	1,011.82	338.23	292.35	45.88	7.372		
11,900.00	11,772.74	11,650.00	11,458.99	21.78	21.71	-151.65	-606.47	1,009.19	412.79	366.18	46.61	8.857		
12,000.00	11,872.61	11,676.89	11,474.31	21.84	21.82	23.90	-628.52	1,007.71	489.96	442.50	47.46	10.323		
12,100.00	11,970.52	11,712.78	11,493.12	21.99	21.98	18.99	-659.00	1,005.66	561.72	513.48	48.23	11.645		
12,200.00	12,063.53	11,750.00	11,510.56	22.19	22.15	15.85	-691.80	1,003.45	626.22	577.22	49.00	12.780		
12,300.00	12,148.80	11,800.00	11,530.57	22.45	22.41	13.72	-737.51	1,000.37	682.86	633.20	49.66	13.750		
12,400.00	12,223.74	11,828.57	11,540.18	22.78	22.57	12.41	-764.35	998.57	730.43	680.04	50.39	14.495		
12,500.00	12,286.09	11,868.82	11,551.43	23.20	22.81	11.52	-802.90	995.97	769.04	718.06	50.98	15.085		
12,600.00	12,333.93	11,900.00	11,558.25	23.71	23.01	10.96	-833.25	993.93	798.25	746.76	51.49	15.503		
12,700.00	12,365.83	11,950.00	11,565.72	24.31	23.33	10.73	-882.56	990.61	817.41	765.55	51.86	15.763		
12,800.00	12,380.81	12,000.00	11,568.85	24.99	23.68	10.77	-932.33	987.26	826.85	774.73	52.12	15.864		
12,900.00	12,382.30	12,071.97	11,569.29	25.74	24.23	11.08	-1,004.19	983.14	828.46	776.24	52.21	15.866		
13,000.00	12,382.83	12,177.87	11,569.84	26.54	25.10	11.33	-1,110.04	980.35	829.15	776.78	52.37	15.833		
13,100.00	12,383.35	12,280.62	11,570.38	27.39	26.01	11.36	-1,212.79	980.87	829.23	776.67	52.56	15.778		
13,200.00	12,383.88	12,380.62	11,570.91	28.28	26.94	11.36	-1,312.78	981.77	829.23	776.47	52.76	15.716		
13,300.00	12,384.40	12,480.62	11,571.43	29.20	27.90	11.36	-1,412.78	982.68	829.23	776.24	52.99	15.648		
13,400.00	12,384.93	12,580.62	11,571.95	30.16	28.89	11.36	-1,512.77	983.58	829.23	775.99	53.24	15.575		
13,500.00	12,385.46	12,680.62	11,572.48	31.14	29.92	11.36	-1,612.77	984.48	829.24	775.73	53.51	15.497		
13,600.00	12,385.98	12,780.62	11,573.00	32.15	30.96	11.36	-1,712.76	985.38	829.24	775.44	53.80	15.415		
										-		-		
13,700.00	12,386.51	12,880.62	11,573.53	33.18	32.03	11.36	-1,812.76	986.28	829.24	775.14	54.10	15.328		
13,800.00	12,387.03	12,980.62	11,574.05	34.23	33.12	11.36	-1,912.75	987.18	829.24	774.82	54.42	15.237		
13,900.00	12,387.56	13,080.62	11,574.58	35.31	34.23	11.36	-2,012.75	988.08	829.25	774.48	54.77	15.142		
14,000.00	12,388.09	13,180.62	11,575.10	36.40	35.35	11.36	-2,112.74	988.99	829.25	774.12	55.12	15.043		
14,100.00	12,388.61	13,280.62	11,575.63	37.51	36.49	11.36	-2,212.74	989.89	829.25	773.75	55.50	14.941		
14,200.00		13,380.62	11,576.15	38.63	37.64	11.36	-2,312.73	990.79	829.25	773.36	55.89	14.836		
14,300.00	12,389.66	13,480.62	11,576.68	39.77	38.81	11.36	-2,412.72	991.69	829.26	772.95	56.30	14.728		
14,400.00	12,390.19	13,580.62	11,577.20	40.92	39.99	11.37	-2,512.72	992.59	829.26	772.53	56.73	14.618		
14,500.00		13,680.62	11,577.73	42.08	41.18	11.37	-2,612.71	993.49	829.26	772.09	57.17	14.505		
14,600.00	12,391.24	13,780.62	11,578.25	43.26	42.38	11.37	-2,712.71	994.39	829.26	771.64	57.63	14.390		
14,700.00	12,391.77	13,880.62	11,578.78	44.44	43.59	11.37	-2,812.70	995.30	829.27	771.17	58.10	14.273		
14,800.00	12,391.77	13,980.62	11,579.30	45.64	44.81	11.37	-2,912.70	996.20	829.27	770.68	58.59	14.155		
14,800.00	12,392.29	14,080.62	11,579.83	46.84	46.03	11.37	-3,012.69	997.10	829.27	770.08	59.09	14.135		
15,000.00	12,392.62	14,080.62	11,580.35	48.05	47.26	11.37	-3,012.69	998.00	829.27	769.67	59.60	13.914		
15,100.00	12,393.34	14,180.62	11,580.88	49.27	48.50	11.37	-3,212.68	998.90	829.28	769.67	60.13	13.791		
. 5, 150.00	12,000.01	17,200.02	11,000.00	40.21	-0.00	11.07	0,212.00	550.50	020.20	7 00.14	50.15	10.101		
15,200.00	12,394.40	14,380.62	11,581.40	50.50	49.75	11.37	-3,312.68	999.80	829.28	768.61	60.67	13.668		

Anticollision Report



Civitas Resources

Company: Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: ОН

0.50 usft

Reference Wellbore Reference Design: Plan #2 Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

													Offset Site Error:	
urvey Progr Refer		/WD+HRGM+ Off			fajor Axis		Offset Wellbo	re Centre	Dist	Rule Assig	gned:		Offset Well Error:	0.50 us
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	(64)	(ft)	Toolface	+N/-S (usft)	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft) 12,394.92	(usft)	(usft) 11,581.93	(usft) 51.73	(usft) 51.00	(°) 11.37	-3,412.67	(usft) 1,000.71	(usft) 829.28	(usft) 768.05	(usft) 61.23	12 544		
15,300.00 15,400.00	12,394.92	14,480.62 14,580.62	11,582.45	51.73	51.00	11.37	-3,512.66	1,000.71	829.28	767.49	61.79	13.544 13.420		
15,500.00	12,395.97	14,680.62	11,582.98	54.21	53.52	11.37	-3,612.66	1,001.51	829.28	766.91	62.37	13.295		
15,600.00	12,396.50	14,780.62	11,583.50	55.47	54.79	11.37	-3,712.65	1,003.41	829.29	766.32	62.97	13.170		
15,700.00	12,397.03	14,880.62	11,584.03	56.72	56.06	11.37	-3,812.65	1,004.31	829.29	765.72	63.57	13.045		
15,800.00	12,397.55	14,980.62	11,584.55	57.98	57.34	11.37	-3,912.64	1,005.21	829.29	765.11	64.18	12.921		
15,900.00	12,398.08	15,080.62	11,585.07	59.25	58.62	11.37	-4,012.64	1,006.11	829.29	764.49	64.81	12.796		
16,000.00	12,398.60	15,180.62	11,585.60	60.52	59.90	11.37	-4,112.63	1,007.02	829.30	763.85	65.44	12.672		
16,100.00	12,399.13	15,280.62	11,586.12	61.79	61.19	11.37	-4,212.63	1,007.92	829.30	763.21	66.09	12.548		
16,200.00	12,399.65	15,380.62	11,586.65	63.07	62.48	11.37	-4,312.62	1,008.82	829.30	762.56	66.75	12.425		
16,300.00	12,400.18	15,480.62	11,587.17	64.35	63.78	11.37	-4,412.62	1,009.72	829.30	761.89	67.41	12.302		
16,400.00	12,400.71	15,580.62	11,587.70	65.63	65.08	11.37	-4,512.61	1,010.62	829.31	761.22	68.09	12.180		
16,500.00	12,401.23	15,680.62	11,588.22	66.92	66.38	11.37	-4,612.60	1,011.52	829.31	760.54	68.77	12.059		
16,600.00	12,401.76	15,780.62	11,588.75	68.21	67.68	11.38	-4,712.60	1,012.42	829.31	759.85	69.47	11.938		
16,700.00 16,800.00	12,402.28 12,402.81	15,880.62 15,980.62	11,589.27 11,589.80	69.51 70.80	68.98 70.29	11.38 11.38	-4,812.59 -4,912.59	1,013.33 1,014.23	829.31 829.32	759.15 758.44	70.17 70.88	11.819 11.701		
		16 000 60	11,590.32	72.10	71.60				829.32		71.60			
16,900.00 17,000.00	12,403.34 12,403.86	16,080.62 16,180.62	11,590.85	73.40	72.91	11.38 11.38	-5,012.58 -5,112.58	1,015.13 1,016.03	829.32	757.72 757.00	71.00	11.583 11.467		
17,100.00	12,404.39	16,280.62	11,590.03	74.71	74.23	11.38	-5,212.57	1,016.93	829.32	756.27	73.06	11.352		
17,200.00	12,404.91	16,380.62	11,591.90	76.01	75.54	11.38	-5,312.57	1,017.83	829.33	755.53	73.80	11.238		
17,300.00	12,405.44	16,480.62	11,592.42	77.32	76.86	11.38	-5,412.56	1,018.74	829.33	754.78	74.55	11.125		
17,400.00	12,405.96	16,580.62	11,592.95	78.63	78.18	11.38	-5,512.56	1,019.64	829.33	754.03	75.30	11.014		
17,500.00	12,406.49	16,680.62	11,593.47	79.94	79.50	11.38	-5,612.55	1,020.54	829.33	753.27	76.06	10.903		
17,600.00	12,407.02	16,780.62	11,594.00	81.26	80.82	11.38	-5,712.54	1,021.44	829.34	752.50	76.83	10.794		
17,700.00	12,407.54	16,880.62	11,594.52	82.57	82.15	11.38	-5,812.54	1,022.34	829.34	751.73	77.61	10.686		
17,800.00	12,408.07	16,980.62	11,595.05	83.89	83.47	11.38	-5,912.53	1,023.24	829.34	750.95	78.39	10.580		
17,900.00	12,408.59	17,080.62	11,595.57	85.21	84.80	11.38	-6,012.53	1,024.14	829.34	750.17	79.18	10.475		
18,000.00	12,409.12	17,180.62	11,596.10	86.53	86.13	11.38	-6,112.52	1,025.05	829.35	749.38	79.97	10.371		
18,100.00	12,409.65	17,280.62	11,596.62	87.85	87.46	11.38	-6,212.52	1,025.95	829.35	748.58	80.77	10.268		
18,200.00	12,410.17	17,380.62	11,597.14	89.18	88.79	11.38	-6,312.51	1,026.85	829.35	747.78	81.57	10.167		
18,300.00	12,410.70	17,480.62	11,597.67	90.50	90.12	11.38	-6,412.51	1,027.75	829.35	746.97	82.38	10.067		
18,400.00	12,411.22	17,580.62	11,598.19	91.83	91.45	11.38	-6,512.50	1,028.65	829.36	746.16	83.20	9.969		
18,500.00	12,411.75	17,680.62	11,598.72	93.15	92.78	11.38	-6,612.50	1,029.55	829.36	745.34	84.02	9.872		
18,600.00	12,412.27	17,780.62	11,599.24	94.48	94.12	11.38	-6,712.49	1,030.45	829.36	744.52	84.84	9.776		
18,700.00	12,412.80	17,880.62	11,599.77	95.81	95.45	11.39	-6,812.48	1,031.36	829.36	743.69	85.67	9.681		
18,800.00	12,413.33	17,980.62	11,600.29	97.14	96.79	11.39	-6,912.48	1,032.26	829.37	742.86	86.50	9.588		
18,900.00	12,413.85	18,080.62	11,600.82	98.47	98.13	11.39	-7,012.47	1,033.16	829.37	742.03	87.34	9.496		
19,000.00	12,414.38	18,180.62	11,601.34	99.81	99.47	11.39	-7,112.47	1,034.06	829.37	741.19	88.18	9.405		
19,100.00	12,414.90	18,280.63	11,601.87	101.14	100.81	11.39	-7,212.46	1,034.96	829.37	740.34	89.03	9.315		
19,200.00		18,380.63	11,602.39	102.47	102.15	11.39	-7,312.46	1,035.86	829.37	739.49	89.88	9.227		
19,300.00	12,415.96	18,480.63	11,602.92	103.81	103.49	11.39	-7,412.45	1,036.77	829.38	738.64	90.74	9.140		
19,400.00	12,416.48	18,580.63	11,603.44	105.15	104.83	11.39	-7,512.45	1,037.67	829.38	737.78	91.60	9.055		
19,500.00	12,417.01	18,680.63	11,603.97	106.48	106.17	11.39	-7,612.44	1,038.57	829.38	736.92	92.46	8.970		
19,600.00	12,417.53	18,780.63	11,604.49	107.82	107.51	11.39	-7,712.44	1,039.47	829.38	736.06	93.33	8.887		
19,700.00 19,800.00	12,418.06 12,418.59	18,880.63 18,980.63	11,605.02 11,605.54	109.16 110.50	108.86 110.20	11.39 11.39	-7,812.43 -7,912.43	1,040.37 1,041.27	829.39 829.39	735.19 734.32	94.20 95.07	8.805 8.724		
19,900.00									829.39					
20,000.00	12,419.11 12,419.64	19,080.63 19,180.63	11,606.07 11,606.59	111.84 113.18	111.55 112.89	11.39 11.39	-8,012.42 -8,112.41	1,042.17 1,043.08	829.39 829.39	733.45 732.57	95.95 96.83	8.644 8.566		
20,000.00	12,419.64	19,180.63	11,607.12	113.18	112.89	11.39	-8,112.41 -8,212.41	1,043.08	829.39 829.40	732.57	96.83	8.488		
20,100.00	12,420.16	19,280.63	11,607.12	115.86	115.58	11.39	-8,312.40	1,043.96	829.40	731.69	98.60	8.412		
20,300.00	12,421.21	19,480.63	11,608.17	117.20	116.93	11.39	-8,412.40	1,045.78	829.40	729.92	99.49	8.337		
		19,580.63	11,608.69	118.55	118.28	11.39	-8,512.39							

Anticollision Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)
Reference Site: Junior Mint Fed Pad

Plan #2

Site Error: 0.00 usft

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft
Reference Wellbore OH

Reference Design:

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

MD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

Survey Prog	ram: 0-f	MWD+HRGM+			lajor Axis		Offset Wellb	oro Contro	Die	Rule Assi	gned:		Offset Well Error:	0.50 ust
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
20,500.00	12,422.27	19,680.63	11,609.22	119.89	119.62	11.39	-8,612.39	1,047.58	829.41	728.13	101.27	8.190		
20,600.00	12,422.79	19,780.63	11,609.74	121.24	120.97	11.39	-8,712.38	1,048.48	829.41	727.24	102.17	8.118		
20,700.00	12,423.32	19,880.63	11,610.26	122.58	122.32	11.39	-8,812.38	1,049.39	829.41	726.34	103.07	8.047		
20,800.00	12,423.84	19,980.63	11,610.79	123.93	123.67	11.39	-8,912.37	1,050.29	829.41	725.44	103.98	7.977		
20,900.00	12,424.37	20,080.63	11,611.31	125.27	125.02	11.40	-9,012.37	1,051.19	829.42	724.53	104.88	7.908		
21,000.00	12,424.90	20,180.63	11,611.84	126.62	126.37	11.40	-9,112.36	1,052.09	829.42	723.63	105.79	7.840		
21,100.00	12,425.42	20,280.63	11,612.36	127.97	127.72	11.40	-9,212.35	1,052.99	829.42	722.72	106.70	7.773		
21,200.00	12,425.95	20,380.63	11,612.89	129.31	129.07	11.40	-9,312.35	1,053.89	829.42	721.81	107.61	7.707		
21,300.00	12,426.47	20,480.63	11,613.41	130.66	130.42	11.40	-9,412.34	1,054.80	829.43	720.89	108.53	7.642		
21,400.00	12,427.00	20,580.63	11,613.94	132.01	131.78	11.40	-9,512.34	1,055.70	829.43	719.98	109.45	7.578		
21,500.00	12,427.52	20,680.63	11,614.46	133.36	133.13	11.40	-9,612.33	1,056.60	829.43	719.06	110.37	7.515		
21,600.00	12,428.05	20,780.63	11,614.99	134.71	134.48	11.40	-9,712.33	1,057.50	829.43	718.14	111.29	7.453		
21,700.00	12,428.58	20,880.63	11,615.51	136.06	135.83	11.40	-9,812.32	1,058.40	829.44	717.22	112.22	7.391		
21,800.00	12,429.10	20,980.63	11,616.04	137.41	137.19	11.40	-9,912.32	1,059.30	829.44	716.30	113.14	7.331		
21,900.00	12,429.63	21,080.63	11,616.56	138.76	138.54	11.40	-10,012.31	1,060.20	829.44	715.37	114.07	7.271		
22,000.00	12,430.15	21,180.63	11,617.09	140.11	139.89	11.40	-10,112.31	1,061.11	829.44	714.44	115.00	7.212		
22,100.00	12,430.68	21,280.63	11,617.61	141.46	141.25	11.40	-10,212.30	1,062.01	829.45	713.51	115.93	7.154		
22,200.00	12,431.21	21,380.63	11,618.14	142.81	142.60	11.40	-10,312.29	1,062.91	829.45	712.58	116.87	7.097		
22,300.00	12,431.73	21,480.63	11,618.66	144.16	143.96	11.40	-10,412.29	1,063.81	829.45	711.64	117.81	7.041		
22,400.00	12,432.26	21,580.63	11,619.19	145.51	145.31	11.40	-10,512.28	1,064.71	829.45	710.71	118.74	6.985		
22,500.00	12,432.78	21,680.63	11,619.71	146.87	146.67	11.40	-10,612.28	1,065.61	829.45	709.77	119.68	6.930		
2,600.00	12,433.31	21,780.63	11,620.24	148.22	148.02	11.40	-10,712.27	1,066.51	829.46	708.83	120.62	6.876		
22,700.00	12,433.83	21,880.63	11,620.76	149.57	149.38	11.40	-10,812.27	1,067.42	829.46	707.89	121.57	6.823		
22,705.72	12,433.86	21,886.34	11,620.79	149.65	149.45	11.40	-10,817.98	1,067.47	829.46	707.84	121.62	6.820		
2,770.20	12,434.20	21,945.36	11,621.10	150.56	150.25	11.40	-10,877.00	1,068.00	829.48	707.33	122.15	6.791		

Anticollision Report

North Reference:

Local Co-ordinate Reference:



Company: Civitas Resources

Project: Lea County, NM (NAD 83) Reference Site:

Plan #2

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН

Reference Design:

TVD Reference: Junior Mint Fed Pad MD Reference:

> **Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

.Total Directional Production DB Database:

Well Junior Mint Fed 218H

GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB)

Offset TVD Reference: Reference Datum

Offset Design: Junior Mint Fed Pad -	Junior Mint Fed 213H - OH - Plan #2
Offset Design: Julion Willing Fed Fau -	Julio Milit Fed 213H - OH - Flatt #2

Offset Site Error:	0.00 usft
	0.506

	Jigii.												Offset Site Error:	0.00 u
urvey Progi	ram: 0-N	иWD+HRGM+	SAG+FDIR (rev.5)						Rule Assig	gned:		Offset Well Error:	0.50 u
Refe Measured	rence Vertical	Off Measured	set Vertical	Semi N Reference	lajor Axis Offset	Highside	Offset Wellb	ore Centre	Dist Between	ance Between	Minimum	Separation	Warnin	a
Depth	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	Warnin	g
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	1.00	0.00	0.50	0.50	0.00	185.00	0.00	185.00					
100.00	100.00	101.00	100.00	0.98	0.99	0.00	185.00	0.00	185.00	183.03	1.97	94.021		
200.00	200.00	201.00	200.00	1.56	1.57	0.00	185.00	0.00	185.00	181.87	3.13	59.173		
300.00	300.00	301.00	300.00	1.98	1.98	0.00	185.00	0.00	185.00	181.03	3.97	46.649	CC	
400.00	399.99	400.99	399.99	2.41	2.33	-107.58	185.00	0.00	185.39	180.73	4.66	39.749		
500.00	499.91	500.95	499.95	2.78	2.64	-108.71	185.00	0.00	186.61	181.34	5.27	35.385		
600.00	599.69	605.45	604.44	3.11	2.98	-110.84	183.63	-0.50	187.54	181.65	5.89	31.841		
700.00	699.27	709.55	708.44	3.42	3.29	-114.09	179.60	-1.97	187.31	180.86	6.45	29.043		
800.00	798.57	813.02	811.67	3.71	3.55	-118.49	172.95	-4.38	186.52	179.56	6.96	26.816		
867.67	865.64	880.64	879.04	3.80	3.63	-121.86	167.47	-6.38	186.13	179.01	7.13	26.122	ES	
900.00	897.62	912.48	910.76	3.84	3.68	-123.56	164.86	-7.33	186.39	179.17	7.22	25.802		
1,000.00	996.65	1,011.07	1,008.97	4.07	3.89	-128.60	156.78	-10.27	187.79	180.11	7.68	24.441		
1,100.00	1,095.67	1,109.66	1,107.19	4.29	4.09	-133.52	148.71	-13.21	190.65	182.52	8.13	23.447		
1,200.00	1,194.70	1,208.25	1,205.40	4.51	4.29	-138.27	140.64	-16.15	194.91	186.35	8.56	22.771		
1,300.00	1,293.73	1,305.88	1,302.63	4.73	4.40	-142.85	132.54	-19.42	200.61	191.72	8.89	22.555		
1,400.00	1,392.75	1,402.02	1,398.24	4.95	4.61	-147.65	123.98	-24.76	208.51	199.19	9.32	22.373		
1,500.00	1,491.78	1,497.15	1,492.64	5.17	4.81	-152.57	114.89	-32.32	219.06	209.33	9.73	22.518		
1,600.00	1,590.81	1,591.18	1,585.67	5.38	5.02	-157.46	105.29	-42.03	232.57	222.44	10.13	22.958		
1,700.00	1,689.83	1,684.01	1,677.19	5.59	5.23	-162.16	95.23	-53.78	249.24	238.71	10.53	23.672		
1,800.00	1,788.86	1,775.55	1,767.09	5.80	5.43	-166.58	84.73	-67.48	269.13	258.21	10.93	24.633		
1,900.00	1,887.89	1,865.73	1,855.26	6.01	5.64	-170.65	73.86	-83.01	292.26	280.93	11.32	25.815		
0.000.00	4 000 04	4.054.40	4 044 50	0.00	5.04	474.04	60.60	400.00	040.50	200.04	44.74	07.404		
2,000.00	1,986.91	1,954.49	1,941.59	6.22	5.84	-174.34	62.63	-100.26	318.52	306.81	11.71	27.191		
2,100.00 2,200.00	2,085.94 2,184.97	2,043.32 2,136.57	2,027.53 2,117.61	6.43 6.64	6.01 6.19	-177.70 179.25	50.90 38.43	-119.40 -140.07	347.77 378.62	335.69 366.13	12.08 12.49	28.790 30.311		
2,300.00	2,184.97	2,130.57	2,117.01	6.84	6.42	176.28	26.00	-160.68	411.21	398.31	12.49	31.878		
2,400.00	2,382.33	2,321.69	2,296.42	7.08	6.67	173.74	13.68	-181.10	446.86	433.50	13.36	33.440		
2,100.00	2,002.00	2,021.00	2,200.12	7.00	0.01		10.00	101.10	110.00	100.00	10.00	00.110		
2,500.00	2,480.31	2,412.95	2,384.56	7.32	6.94	171.62	1.48	-201.33	485.40	471.58	13.82	35.118		
2,600.00	2,577.74	2,503.25	2,471.79	7.57	7.21	169.83	-10.59	-221.35	526.64	512.36	14.28	36.883		
2,700.00	2,674.78	2,592.91	2,558.39	7.79	7.48	168.56	-22.58	-241.22	569.62	554.93	14.69	38.781		
2,800.00	2,771.81	2,682.55	2,644.98	8.06	7.76	167.50	-34.57	-261.09	612.81	597.69	15.12	40.529		
2,900.00	2,868.84	2,772.20	2,731.57	8.35	8.04	166.58	-46.55	-280.96	656.15	640.59	15.56	42.182		
3,000.00	2,965.87	2,861.85	2,818.17	8.65	8.33	165.77	-58.54	-300.83	699.61	683.62	15.99	43.746		
3,100.00	3,062.90	2,951.49	2,904.76	8.95	8.62	165.06	-70.52	-320.70	743.17	726.74	16.43	45.227		
3,200.00	3,159.93	3,041.14	2,991.35	9.26	8.91	164.42	-82.51	-340.57	786.82	769.95	16.87	46.629		
3,300.00	3,256.96	3,130.79	3,077.94	9.57	9.21	163.86	-94.49	-360.44	830.54	813.22	17.32	47.958		
3,400.00	3,353.99	3,220.43	3,164.53	9.88	9.50	163.34	-106.48	-380.31	874.31	856.55	17.76	49.219		
3,500.00	3,451.02	3,310.08	3,251.12	10.20	9.80	162.88	-118.46	-400.18	918.14	899.93	18.21	50.415		
3,600.00	3,548.05	3,399.73	3,337.71	10.51	10.10	162.46	-130.45	-420.05	962.01	943.35	18.66	51.552		
3,700.00	3,645.08	3,489.37	3,424.30	10.83	10.40	162.08	-142.43	-439.92	1,005.92	986.81	19.11	52.632		
3,800.00	3,742.11	3,579.02	3,510.90	11.15	10.70	161.72	-154.42 166.40	-459.79 470.66	1,049.87	1,030.30	19.57	53.660		
3,900.00	3,839.14	3,668.67	3,597.49	11.47	11.01	161.40	-166.40	-479.66	1,093.84	1,073.82	20.02	54.639		
4,000.00	3,936.17	3,758.31	3,684.08	11.79	11.31	161.10	-178.39	-499.53	1,137.84	1,117.37	20.47	55.572		
4,100.00	4,033.20	3,847.96	3,770.67	12.11	11.62	160.82	-190.37	-519.40	1,181.86	1,160.93	20.93	56.462		
4,200.00	4,130.23	3,937.61	3,857.26	12.43	11.93	160.57	-202.36	-539.27	1,225.91	1,204.52	21.39	57.312		
4,300.00	4,227.26	4,027.25	3,943.85	12.76	12.24	160.33	-214.35	-559.14	1,269.97	1,248.12	21.85	58.124		
4,400.00	4,324.29	4,116.90	4,030.44	13.08	12.55	160.10	-226.33	-579.01	1,314.05	1,291.74	22.31	58.900		
4 500 00	4.404.00	4 000 5-	4.447.07	10.1-	40.00	450.00	000.00	500.00	4.050.41	4 005 07	00.77	50.040		
4,500.00	4,421.32	4,206.55	4,117.04	13.40	12.86	159.89	-238.32	-598.88	1,358.14	1,335.37	22.77	59.642		
4,600.00	4,518.35	4,296.19	4,203.63	13.73	13.17	159.70	-250.30	-618.75	1,402.25	1,379.02	23.23	60.353		
4,700.00 4,800.00	4,615.38 4,712.41	4,385.84 4,475.49	4,290.22 4,376.81	14.06 14.38	13.48 13.79	159.51 159.34	-262.29 -274.27	-638.62 -658.49	1,446.37 1,490.50	1,422.67 1,466.34	23.70 24.16	61.033 61.686		
4,900.00	4,712.41	4,565.13	4,463.40	14.30	14.10	159.34	-274.27	-678.36	1,534.64	1,510.02	24.16	62.312		
-,300.00	4,000.44	4,505.15	-1,700.70	17.71	14.10	100.10	-200.20	-070.50	1,004.04	1,010.02	24.00	02.012		
5,000.00	4,906.47	4,654.78	4,549.99	15.04	14.42	159.02	-298.24	-698.23	1,578.80	1,553.70	25.09	62.913		

Anticollision Report

TVD Reference:

MD Reference:

North Reference:

Output errors are at

Local Co-ordinate Reference:

Survey Calculation Method:

Well Junior Mint Fed 218H

Minimum Curvature

2.00 sigma

GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB)



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error:

0.50 usft Reference Wellbore ОН

.Total Directional Production DB Database: Plan #2

Reference Design: Offset TVD Reference: Reference Datum

Reference	Design:	Plan #	2				Offset TV	D Reference	ce:	Re	eference Da	ıtum		
Offset De	sian: Junio	or Mint Fed	l Pad - Jui	nior Mint Fed	d 213H - (OH - Plan #2								
011001 20	oigii.												Offset Site Error:	0.00 usf
Survey Prog		MWD+HRGM-								Rule Assi	gned:		Offset Well Error:	0.50 usf
Refe Measured	rence Vertical	Off Measured	set Vertical	Semi M Reference	ajor Axis Offset	Highside	Offset Wellb	ore Centre	Dist Between	ance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	Reference	Oliset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,100.00	5,003.50	4,744.43	4,636.58	15.36	14.73	158.88	-310.23	-718.10	1,622.96	1,597.39	25.56	63.492		
5,200.00	5,100.53	4,856.38	4,744.83	15.69	15.11	158.72	-324.97	-742.55	1,666.88	1,640.74	26.15	63.751		
5,300.00	5,197.56	5,004.69	4,889.33	16.02	15.58	158.60	-342.22	-771.14	1,708.32	1,681.42	26.90	63.509		
5,400.00	5,294.59	5,157.59	5,039.53	16.35	16.00	158.58	-356.95	-795.57	1,746.59	1,718.98	27.62	63.246		
5,500.00	5,391.62	5,314.78	5,195.01	16.68	16.36	158.68	-368.85	-815.30	1,781.56	1,753.27	28.30	62.956		
5,600.00	5,488.65	5,475.88	5,355.21	17.01	16.64	158.88	-377.61	-829.81	1,813.10	1,784.18	28.93	62.680		
5,700.00	5,585.68	5,640.46	5,519.44	17.34	16.86	159.18	-382.94	-838.66	1,841.10	1,811.60	29.50	62.418		
5,800.00	5,682.71	5,803.77	5,682.71	17.67	17.00	159.57	-384.62	-841.44	1,865.48	1,835.54	29.93	62.318		
5,900.00	5,779.92	5,900.98	5,779.92	17.97	17.03	159.91	-384.62	-841.44	1,887.55	1,857.36	30.19	62.512		
6,000.00	5,877.69	5,998.75	5,877.69	18.27	17.06	160.23	-384.62	-841.44	1,907.32	1,876.85	30.47	62.590		
6,100.00	5,975.98	6,097.04	5,975.98	18.54	17.10	160.50	-384.62	-841.44	1,924.69	1,893.95	30.74	62.607		
6,200.00	6,074.72	6,195.77	6,074.72	18.77	17.14	160.73	-384.62	-841.44	1,939.65	1,908.65	31.00	62.565		
6,300.00	6,173.83	6,294.89	6,173.83	18.98	17.17	160.92	-384.62	-841.44	1,952.17	1,920.91	31.25	62.465		
6,400.00	6,273.26	6,394.32	6,273.26	19.16	17.21	161.07	-384.62	-841.44	1,962.23	1,930.74	31.49	62.311		
6,500.00	6,372.94	6,493.99	6,372.94	19.31	17.25	161.18	-384.62	-841.44	1,969.84	1,938.12	31.72	62.107		
6,600.00	6,472.79	6,593.84	6,472.79	19.42	17.28	161.26	-384.62	-841.44	1,974.98	1,943.05	31.93	61.856		
-,	-,	-,	-,						.,	.,				
6,700.00	6,572.74	6,693.80	6,572.74	19.52	17.32	161.30	-384.62	-841.44	1,977.63	1,945.51	32.12	61.569		
6,800.00	6,672.74	6,793.80	6,672.74	19.54	17.36	-90.41	-384.62	-841.44	1,978.04	1,945.84	32.20	61.434		
6,900.00	6,772.74	6,893.80	6,772.74	19.58	17.40	-90.41	-384.62	-841.44	1,978.04	1,945.77	32.27	61.291		
7,000.00	6,872.74	6,993.80	6,872.74	19.62	17.44	-90.41	-384.62	-841.44	1,978.04	1,945.69	32.35	61.146		
7,100.00	6,972.74	7,093.80	6,972.74	19.66	17.47	-90.41	-384.62	-841.44	1,978.04	1,945.62	32.43	61.002		
7,200.00	7,072.74	7,193.80	7,072.74	19.70	17.51	-90.41	-384.62	-841.44	1,978.04	1,945.54	32.50	60.857		
7,300.00	7,172.74	7,293.80	7,172.74	19.74	17.55	-90.41	-384.62	-841.44	1,978.04	1,945.46	32.58	60.711		
7,400.00	7,272.74	7,393.80	7,272.74	19.77	17.59	-90.41	-384.62	-841.44	1,978.04	1,945.38	32.66	60.565		
7,500.00	7,372.74	7,493.80	7,372.74	19.81	17.63	-90.41	-384.62	-841.44	1,978.04	1,945.30	32.74	60.418		
7,600.00	7,472.74	7,593.80	7,472.74	19.85	17.67	-90.41	-384.62	-841.44	1,978.04	1,945.22	32.82	60.271		
7 700 00	7 570 74	7 000 00	7 570 74	40.00	47.74	00.44	204.00	044.44	4.070.04	4.045.44	20.00	00.400		
7,700.00	7,572.74	7,693.80	7,572.74	19.89	17.71	-90.41	-384.62	-841.44	1,978.04	1,945.14	32.90	60.123		
7,800.00	7,672.74	7,793.80	7,672.74	19.93	17.76	-90.41	-384.62	-841.44	1,978.04	1,945.06	32.98	59.976		
7,900.00	7,772.74	7,893.80	7,772.74	19.97	17.80	-90.41	-384.62	-841.44	1,978.04	1,944.98	33.06	59.827		
8,000.00	7,872.74	7,993.80	7,872.74	20.01	17.84	-90.41	-384.62	-841.44	1,978.04	1,944.90	33.14	59.679		
8,100.00	7,972.74	8,093.80	7,972.74	20.05	17.88	-90.41	-384.62	-841.44	1,978.04	1,944.81	33.23	59.530		
8,200.00	8,072.74	8,193.80	8,072.74	20.10	17.92	-90.41	-384.62	-841.44	1,978.04	1,944.73	33.31	59.381		
8,300.00	8,172.74	8,293.80	8,172.74	20.14	17.96	-90.41	-384.62	-841.44	1,978.04	1,944.65	33.40	59.231		
8,400.00	8,272.74	8,393.80	8,272.74	20.14	18.01	-90.41	-384.62	-841.44	1.978.04	1,944.56	33.48	59.081		
8,500.00	8,372.74	8,493.80	8,372.74	20.10	18.05	-90.41	-384.62	-841.44	1,978.04	1,944.48	33.57	58.931		
8,600.00	8,472.74	8,593.80	8,472.74	20.26	18.09	-90.41	-384.62	-841.44	1,978.04	1,944.39	33.65	58.781		
0,000.00	0,412.14	0,000.00	0,472.74	20.20	10.00	-50.41	-004.02	-041.44	1,070.04	1,044.00	00.00	00.701		
8,700.00	8,572.74	8,693.80	8,572.74	20.30	18.14	-90.41	-384.62	-841.44	1,978.04	1,944.30	33.74	58.630		
8,800.00	8,672.74	8,793.80	8,672.74	20.35	18.18	-90.41	-384.62	-841.44	1,978.04	1,944.22	33.82	58.480		
8,900.00	8,772.74	8,893.80	8,772.74	20.39	18.22	-90.41	-384.62	-841.44	1,978.04	1,944.13	33.91	58.329		
9,000.00	8,872.74	8,993.80	8,872.74	20.43	18.27	-90.41	-384.62	-841.44	1,978.04	1,944.04	34.00	58.178		
9,100.00	8,972.74	9,093.80	8,972.74	20.48	18.31	-90.41	-384.62	-841.44	1,978.04	1,943.95	34.09	58.026		
9,200.00	9,072.74	9,193.80	9,072.74	20.52	18.36	-90.41	-384.62	-841.44	1,978.04	1,943.86	34.18	57.875		
9,300.00	9,172.74	9,293.80	9,172.74	20.56	18.40	-90.41	-384.62	-841.44	1,978.04	1,943.77	34.27	57.723		
9,400.00	9,272.74	9,393.80	9,272.74	20.61	18.45	-90.41	-384.62	-841.44	1,978.04	1,943.68	34.36	57.572		
9,500.00	9,372.74	9,493.80	9,372.74	20.65	18.49	-90.41	-384.62	-841.44	1,978.04	1,943.59	34.45	57.420		
9,600.00	9,472.74	9,593.80	9,472.74	20.70	18.54	-90.41	-384.62	-841.44	1,978.04	1,943.50	34.54	57.268		
0.700.00	0.5	0.000	0.555		40 ==		06:	0	4.0== = :	4.045 ***				
9,700.00	9,572.74	9,693.80	9,572.74	20.74	18.59	-90.41	-384.62	-841.44	1,978.04	1,943.41	34.63	57.116		
9,800.00	9,672.74	9,793.80	9,672.74	20.79	18.63	-90.41	-384.62	-841.44	1,978.04	1,943.32	34.72	56.964		
9,900.00	9,772.74	9,893.80	9,772.74	20.83	18.68	-90.41	-384.62	-841.44	1,978.04	1,943.22	34.82	56.812		
10,000.00	9,872.74	9,993.80	9,872.74	20.88	18.73	-90.41	-384.62	-841.44	1,978.04	1,943.13	34.91	56.660		
10,100.00	9,972.74	10,093.80	9,972.74	20.92	18.77	-90.41	-384.62	-841.44	1,978.04	1,943.04	35.00	56.508		
10 200 00	10 070 74	10 102 00	10.072.74	20.07	10 00	00.44	204.60	0/4 //	1 070 04	1 0/2 0/	25.40	EG 250		
10,200.00	10,072.74	10,193.80	10,072.74	20.97	18.82	-90.41	-384.62	-841.44	1,978.04	1,942.94	35.10	56.356		

Anticollision Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)

Plan #2

Reference Site: Junior Mint Fed Pad
Site Error: 0.00 usft

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Design:

Reference Wellbore OH

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

MD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

mset De	sign: Junio	or with red	Pau - Ju	nior iviint Fe	a 213H - 0	OH - Plan #2							Offset Site Error:	0.00 us
_	0.1	MANDALIDOMA	CAC - EDID /	5\										
urvey Prog Refe	ram: 0-l erence	MWD+HRGM+ Off			lajor Axis		Offset Wellb	ore Centre	Dis	Rule Assignance	gned:		Offset Well Error:	0.50 us
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	(60)	(ft)	Toolface	+N/-S (usft)	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft) 21.01	(usft) 18.87	-90.41	-384.62	(usft)	(usft)	(usft)	(usft) 35.19	E6 204		
10,300.00	10,172.74	10,293.80	10,172.74 10,272.74					-841.44	1,978.04	1,942.85		56.204		
10,400.00	10,272.74 10,372.74	10,393.80 10,493.80	10,272.74	21.06	18.92 18.96	-90.41 -90.41	-384.62	-841.44 -841.44	1,978.04 1,978.04	1,942.75 1,942.66	35.29 35.39	56.052 55.900		
10,600.00	10,372.74	10,493.80	10,372.74	21.11 21.15	19.01	-90.41 -90.41	-384.62 -384.62	-841.44	1,978.04	1,942.56	35.48	55.748		
10,700.00	10,472.74	10,693.80	10,472.74	21.13	19.06	-90.41	-384.62	-841.44	1,978.04	1,942.46	35.58	55.596		
10,800.00	10,672.74	10,793.80	10,672.74	21.25	19.11	-90.41	-384.62	-841.44	1,978.04	1,942.46	35.68	55.444		
10,000.00	10,012.11	10,700.00	10,012.11	21.20		00.11	001.02	011.11	1,010.01	1,012.00	00.00	00		
10,900.00	10,772.74	10,893.80	10,772.74	21.29	19.16	-90.41	-384.62	-841.44	1,978.04	1,942.27	35.77	55.292		
11,000.00	10,872.74	10,993.80	10,872.74	21.34	19.21	-90.41	-384.62	-841.44	1,978.04	1,942.17	35.87	55.141		
11,100.00	10,972.74	11,093.80	10,972.74	21.39	19.26	-90.41	-384.62	-841.44	1,978.04	1,942.07	35.97	54.989		
11,200.00	11,072.74	11,193.80	11,072.74	21.44	19.31	-90.41	-384.62	-841.44	1,978.04	1,941.97	36.07	54.838		
11,300.00	11,172.74	11,293.80	11,172.74	21.49	19.36	-90.41	-384.62	-841.44	1,978.04	1,941.87	36.17	54.686		
11 400 00	11 070 71	44 200 00	11 070 74	04.50	10.44	00.44	204.00	0.44 44	4.070.04	1 044 77	20.07	E4 505		
11,400.00	11,272.74	11,393.80	11,272.74	21.53	19.41 19.46	-90.41 -90.41	-384.62 -384.62	-841.44 -841.44	1,978.04	1,941.77	36.27 36.37	54.535 54.384		
11,500.00 11,600.00	11,372.74 11,472.74	11,493.80 11,593.80	11,372.74 11,472.74	21.58 21.63	19.46	-90.41 -90.41	-384.62 -384.62	-841.44 -841.44	1,978.04 1,978.04	1,941.67 1,941.57	36.37 36.47	54.384 54.234		
11,700.00	11,472.74	11,693.80	11,472.74	21.68	19.51	-90.41 -90.41	-384.62	-841.44	1,978.04	1,941.57	36.57	54.234		
11,800.00	11,672.74	11,793.80	11,672.74	21.73	19.56	-90.41 -90.41	-384.62	-841.44	1,978.04	1,941.47	36.68	53.932		
,000.00	11,012.14	11,730.00	11,012.14	21.13	13.01	-50.41	-004.02	-5-11.77	1,070.04	1,0-71.00	30.00	00.002		
11,900.00	11,772.74	11,893.80	11,772.74	21.78	19.66	-90.41	-384.62	-841.44	1,978.04	1,941.26	36.78	53.782		
11,900.01	11,772.75	11,893.80	11,772.75	21.78	19.66	-90.41	-384.62	-841.44	1,978.04	1,941.26	36.78	53.782		
12,000.00	11,872.61	11,993.67	11,872.61	21.84	19.71	90.21	-384.62	-841.44	1,978.05	1,941.20	36.86	53.670		
12,100.00	11,970.52	12,095.12	11,973.67	21.99	19.83	90.57	-392.00	-841.37	1,978.14	1,941.16	36.98	53.490		
12,200.00	12,063.53	12,199.06	12,074.21	22.19	20.04	90.92	-417.82	-841.14	1,978.30	1,941.04	37.26	53.092		
12,300.00	12,148.80	12,305.40	12,170.51	22.45	20.34	91.25	-462.56	-840.74	1,978.52	1,940.78	37.74	52.425		
12,400.00	12,223.74	12,414.05	12,258.65	22.78	20.73	91.53	-525.81	-840.17	1,978.77	1,940.32	38.45	51.464		
12,500.00	12,286.09	12,524.80	12,334.57	23.20	21.24	91.78	-606.20	-839.45	1,979.01	1,939.60	39.42	50.206		
12,600.00	12,333.93	12,637.31	12,394.43	23.71	21.88	91.96	-701.25	-838.59	1,979.23	1,938.57	40.66	48.680		
12,700.00	12,365.83	12,751.10	12,434.92	24.31	22.66	92.07	-807.38	-837.64	1,979.37	1,937.22	42.15	46.957		
12,800.00	12,380.81	12,865.58	12,453.73	24.99	23.57	92.12	-920.11	-836.62	1,979.44	1,935.58	43.86	45.131		
12,900.00	12,382.30	12,969.97	12,455.32	25.74	24.48	92.11	-1,024.47	-835.68	1,979.44	1,933.83	45.61	43.396		
13,000.00	12,382.83	13,069.97	12,455.84	26.54	25.40	92.11	-1,124.46	-834.79	1,979.45	1,932.02	47.43	41.733		
13,100.00	12,383.35	13,169.97	12,456.37	27.39	26.37	92.11	-1,224.46	-833.89	1,979.46	1,930.13	49.33	40.125		
13,200.00	12,383.88	13,269.97	12,456.90	28.28	27.38	92.11	-1,324.45	-832.99	1,979.47	1,928.16	51.31	38.579		
13,300.00	12,384.40	13,369.97	12,457.42	29.20	28.41	92.11	-1,424.45	-832.09	1,979.48	1,926.13	53.35	37.101		
13,400.00	12,384.93	13,469.97	12,457.95	30.16	29.48	92.11	-1,524.44	-831.19	1,979.49	1,924.03	55.46	35.694		
13,500.00	12,385.46	13,569.97	12,458.48	31.14	30.57	92.11	-1,624.44	-830.29	1,979.50	1,921.88	57.61	34.357		
13,600.00	12,385.98	13,669.97	12,459.00	32.15	31.68	92.11	-1,724.43	-829.39	1,979.51	1,919.69	59.82	33.092		
13,700.00	12,386.51	13,769.97	12,459.53	33.18	32.80	92.11	-1,824.43	-828.49	1,979.52	1,917.45	62.07	31.894		
13,800.00	12,387.03	13,869.97	12,460.05	34.23	33.95	92.11	-1,924.42	-827.59	1,979.52	1,915.17	64.35	30.762		
13,900.00	12,387.56	13,969.97	12,460.05	35.31	35.95	92.11	-1,924.42	-826.69	1,979.52	1,915.17	66.67	29.692		
14,000.00	12,388.09	14,069.97	12,460.36	36.40	36.29	92.11	-2,024.42	-825.79	1,979.54	1,912.50	69.02	28.681		
		14,169.97	12,461.63	37.51	37.48	92.11	-2,124.41	-824.89	1,979.55	1,908.16	71.40	27.726		
14,200.00	12,389.14	14,169.97	12,462.16	38.63	38.68	92.11	-2,324.40	-823.99	1,979.56	1,905.76	73.80	26.824		
.,	,	,_00.01	_,	33.30	23.00		-,	0.00	.,_,,,,,,,,	.,	. 0.00			
14,300.00	12,389.66	14,369.97	12,462.68	39.77	39.89	92.11	-2,424.39	-823.09	1,979.57	1,903.35	76.22	25.971		
14,400.00	12,390.19	14,469.97	12,463.21	40.92	41.11	92.11	-2,524.39	-822.19	1,979.58	1,900.91	78.67	25.163		
14,500.00	12,390.71	14,569.97	12,463.74	42.08	42.34	92.11	-2,624.38	-821.29	1,979.59	1,898.46	81.13	24.399		
14,600.00	12,391.24	14,669.97	12,464.26	43.26	43.57	92.11	-2,724.38	-820.39	1,979.60	1,895.98	83.61	23.675		
14,700.00	12,391.77	14,769.97	12,464.79	44.44	44.82	92.11	-2,824.37	-819.49	1,979.61	1,893.50	86.11	22.989		
14,800.00	12,392.29	14,869.97	12,465.32	45.64	46.07	92.11	-2,924.37	-818.60	1,979.62	1,890.99	88.62	22.338		
14,900.00	12,392.82	14,969.97	12,465.84	46.84	47.32	92.11	-3,024.36	-817.70	1,979.62	1,888.48	91.15	21.719		
15,000.00	12,393.34	15,069.97	12,466.37	48.05	48.59	92.11	-3,124.36	-816.80	1,979.63	1,885.95	93.68	21.132		
15,100.00	12,393.87	15,169.97	12,466.89	49.27	49.86	92.11	-3,224.35	-815.90	1,979.64	1,883.41	96.23	20.572		
15,200.00	12,394.40	15,269.97	12,467.42	50.50	51.13	92.11	-3,324.34	-815.00	1,979.65	1,880.87	98.79	20.040		
15,300.00	12,394.92	15,369.97	12,467.95	51.73	52.41	92.11	-3,424.34	-814.10	1,979.66	1,878.31	101.35	19.532		

Anticollision Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)
Reference Site: Junior Mint Fed Pad

Site Error: 0.00 usft

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft
Reference Wellbore OH

Reference Wellbore OH
Reference Design: Plan #2

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

MD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

	Design:	Pian #						D Reference			elerence Da			
Offeet De	sian: Junio	or Mint Fed	l Pad - Jur	nior Mint Fe	ed 213H - (OH - Plan #2								
iiset De	sign. •												Offset Site Error:	0.00 us
rvey Prog	ram: 0-N		+SAG+FDIR (ı İ set		Major Axis		Offset Wellb	ore Centre	Die	Rule Assi	gned:		Offset Well Error:	0.50 u
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside		ore centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
15,400.00	12,395.45	15,469.97	12,468.47	52.97	53.69	92.11	-3,524.33	-813.20	1,979.67	1,875.74	103.93	19.049		
15,500.00	12,395.97	15,569.97	12,469.00	54.21	54.98	92.11	-3,624.33	-812.30	1,979.68	1,873.17	106.51	18.587		
15,600.00	12,396.50	15,669.97	12,469.53	55.47	56.27	92.11	-3,724.32	-811.40	1,979.69	1,870.59	109.10	18.145		
15,700.00	12,397.03	15,769.97	12,470.05	56.72	57.56 58.86	92.11	-3,824.32	-810.50	1,979.70 1,979.71	1,868.00	111.70	17.723		
15,800.00 15,900.00	12,397.55 12,398.08	15,869.97 15,969.97	12,470.58 12,471.10	57.98 59.25	60.16	92.11 92.11	-3,924.31 -4,024.31	-809.60 -808.70	1,979.71	1,865.40 1,862.80	114.30 116.92	17.320 16.933		
15,500.00	12,550.00	15,505.51	12,47 1.10	39.23	00.10	32.11	-4,024.51	-000.70	1,373.72	1,002.00	110.32	10.333		
16,000.00	12,398.60	16,069.97	12,471.63	60.52	61.46	92.11	-4,124.30	-807.80	1,979.72	1,860.19	119.53	16.562		
16,100.00	12,399.13	16,169.97	12,472.16	61.79	62.77	92.11	-4,224.30	-806.90	1,979.73	1,857.58	122.15	16.207		
16,200.00	12,399.65	16,269.97	12,472.68	63.07	64.08	92.11	-4,324.29	-806.00	1,979.74	1,854.96	124.78	15.866		
16,300.00	12,400.18	16,369.97	12,473.21	64.35	65.39	92.11	-4,424.28	-805.10	1,979.75	1,852.34	127.41	15.538		
16,400.00	12,400.71	16,469.97	12,473.73	65.63	66.70	92.11	-4,524.28	-804.20	1,979.76	1,849.71	130.05	15.223		
10 505 51	10.15:	10 555 55	10.4=:		05	00.11	4.00 : ==	065.51	4.0=====	4 0 4 =	465.55	44		
16,500.00	12,401.23	16,569.97	12,474.26	66.92	68.02	92.11	-4,624.27	-803.31	1,979.77	1,847.08	132.69	14.921		
16,600.00	12,401.76	16,669.97	12,474.79	68.21	69.33	92.11	-4,724.27	-802.41	1,979.78	1,844.45	135.33	14.629		
16,700.00	12,402.28	16,769.97	12,475.31	69.51	70.65	92.11	-4,824.26	-801.51	1,979.79	1,841.81	137.98	14.349		
16,800.00	12,402.81	16,869.97	12,475.84	70.80	71.97 73.30	92.11	-4,924.26 -5.024.25	-800.61 -700.71	1,979.80	1,839.17	140.63	14.078		
16,900.00	12,403.34	16,969.97	12,476.37	72.10	73.30	92.11	-5,024.25	-799.71	1,979.81	1,836.52	143.28	13.817		
17,000.00	12,403.86	17,069.97	12,476.89	73.40	74.62	92.11	-5,124.25	-798.81	1,979.82	1,833.87	145.94	13.566		
17,100.00	12,404.39	17,169.97	12,477.42	74.71	75.95	92.11	-5,224.24	-797.91	1,979.82	1,831.22	148.60	13.323		
17,200.00	12,404.91	17,269.97	12,477.94	76.01	77.27	92.11	-5,324.24	-797.01	1,979.83	1,828.57	151.26	13.089		
17,300.00	12,405.44	17,369.97	12,478.47	77.32	78.60	92.11	-5,424.23	-796.11	1,979.84	1,825.91	153.93	12.862		
17,400.00	12,405.96	17,469.97	12,479.00	78.63	79.93	92.11	-5,524.23	-795.21	1,979.85	1,823.25	156.60	12.643		
17,500.00	12,406.49	17,569.97	12,479.52	79.94	81.26	92.11	-5,624.22	-794.31	1,979.86	1,820.59	159.27	12.431		
17,600.00	12,407.02	17,669.97	12,480.05	81.26	82.60	92.11	-5,724.21	-793.41	1,979.87	1,817.93	161.94	12.226		
17,700.00	12,407.54	17,769.97	12,480.57	82.57	83.93	92.11	-5,824.21	-792.51	1,979.88	1,815.26	164.62	12.027		
17,800.00	12,408.07	17,869.97	12,481.10	83.89	85.27	92.11	-5,924.20	-791.61	1,979.89	1,812.60	167.29	11.835		
17,900.00	12,408.59	17,969.97	12,481.63	85.21	86.60	92.11	-6,024.20	-790.71	1,979.90	1,809.93	169.97	11.648		
18,000.00	12,409.12	18,069.97	12,482.15	86.53	87.94	92.11	-6,124.19	-789.81	1,979.91	1,807.26	172.65	11.468		
18,100.00	12,409.65	18,169.97	12,482.68	87.85	89.28	92.11	-6,224.19	-788.91	1,979.92	1,804.58	175.33	11.292		
18,200.00	12,410.17	18,269.97	12,483.21	89.18	90.62	92.11	-6,324.18	-788.01	1,979.92	1,801.91	178.02	11.122		
18,300.00	12,410.70	18,369.97	12,483.73	90.50	91.96	92.11	-6,424.18	-787.12	1,979.93	1,799.23	180.70	10.957		
18,400.00	12,411.22	18,469.97	12,484.26	91.83	93.30	92.11	-6,524.17	-786.22	1,979.94	1,796.55	183.39	10.796		
18,500.00	12,411.75	18,569.97	12,484.78	93.15	94.64	92.11	-6,624.17	-785.32	1,979.95	1,793.87	186.08	10.640		
18,600.00	12,412.27	18,669.97	12,485.31	94.48	95.98	92.11	-6,724.16	-784.42	1,979.96	1,791.19	188.77	10.489		
18,700.00	12,412.80	18,769.97	12,485.84	95.81	97.32	92.11	-6,824.15	-783.52	1,979.97	1,788.51	191.46	10.341		
18,800.00	12,413.33	18,869.97	12,486.36	97.14	98.67	92.11	-6,924.15	-782.62	1,979.98	1,785.83	194.15	10.198		
18,900.00	12,413.85	18,969.97	12,486.89	98.47	100.01	92.11	-7,024.14	-781.72	1,979.99	1,783.14	196.85	10.058		
19,000.00	12,414.38	19,069.97	12,487.42	99.81	101.36	92.11	-7,124.14	-780.82	1,980.00	1,780.45	199.54	9.923		
		19,069.97		101.14	101.36	92.11	-7,124.14 -7,224.13	-760.62 -779.92	1,980.00	1,777.77	202.24	9.923		
			12,487.94	101.14	102.70	92.11	-7,224.13 -7,324.13	-779.92 -779.02	1,980.01	1,777.77	202.24	9.790		
	12,415.43	19,369.97		103.81	105.39	92.11	-7,324.13 -7,424.12	-778.12	1,980.02	1,773.08	207.63	9.536		
	12,416.48	19,469.97	12,489.52	105.01	106.74	92.11	-7,524.12	-777.22	1,980.02	1,769.70	210.33	9.414		
-, 0.00	,	,	, . 50.02	, 55.10			.,		.,	.,	_ , 0.00			
19,500.00	12,417.01	19,569.97	12,490.05	106.48	108.09	92.11	-7,624.11	-776.32	1,980.04	1,767.01	213.03	9.294		
19,600.00	12,417.53	19,669.97	12,490.57	107.82	109.44	92.11	-7,724.11	-775.42	1,980.05	1,764.32	215.74	9.178		
19,700.00	12,418.06	19,769.97	12,491.10	109.16	110.79	92.11	-7,824.10	-774.52	1,980.06	1,761.62	218.44	9.065		
19,800.00	12,418.59	19,869.97	12,491.62	110.50	112.14	92.11	-7,924.09	-773.62	1,980.07	1,758.93	221.14	8.954		
19,900.00	12,419.11	19,969.97	12,492.15	111.84	113.49	92.11	-8,024.09	-772.72	1,980.08	1,756.23	223.85	8.846		
00 000 00	40.440.04	00 000 0=	40.400.00	410.15	44 1 0 1	00.44	0.404.00	774.00	4.000.00	4 750 54	000.55	0.740		
20,000.00	12,419.64	20,069.97	12,492.68	113.18	114.84	92.11	-8,124.08	-771.82	1,980.09	1,753.54	226.55	8.740		
20,100.00	12,420.16	20,169.97	12,493.20	114.52	116.19	92.11	-8,224.08	-770.93	1,980.10	1,750.84	229.26	8.637		
20,200.00	12,420.69	20,269.97	12,493.73	115.86	117.54	92.11	-8,324.07	-770.03	1,980.11	1,748.14	231.96	8.536		
20,300.00	12,421.21	20,369.97	12,494.26	117.20	118.89	92.11	-8,424.07	-769.13	1,980.12	1,745.45	234.67	8.438		
20,400.00	12,421.74	20,469.97	12,494.78	118.55	120.24	92.11	-8,524.06	-768.23	1,980.12	1,742.75	237.38	8.342		
	12,422.27		12,495.31	119.89	121.59	92.11	-8,624.06	-767.33	1,980.13	1,740.05	240.09	8.248		

Anticollision Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)
Reference Site: Junior Mint Fed Pad

Site Error: 0.00 usft

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft
Reference Wellbore OH

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)
MD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Reference Design: Plan #2 Offset TVD Reference: Reference Datum

Offset De	sign: Juliic	n wiint red	rau - Jui	IIIOI WIIIIL FE	u 2 13	OH - Plan #2							Offset Site Error:	0.00 usft
Survey Prog		MWD+HRGM+								Rule Assig	gned:		Offset Well Error:	0.50 usft
Refe Measured	rence Vertical	Off Measured	set Vertical	Semi M Reference	Major Axis Offset	Highside	Offset Wellbe	ore Centre	Dis Between	tance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	110.0.0.00	0.1001	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	g	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
20,600.00	12,422.79	20,669.97	12,495.83	121.24	122.95	92.11	-8,724.05	-766.43	1,980.14	1,737.35	242.79	8.156		
20,700.00	12,423.32	20,769.97	12,496.36	122.58	124.30	92.11	-8,824.05	-765.53	1,980.15	1,734.65	245.50	8.066		
20,800.00	12,423.84	20,869.97	12,496.89	123.93	125.65	92.11	-8,924.04	-764.63	1,980.16	1,731.95	248.21	7.978		
20,900.00	12,424.37	20,969.97	12,497.41	125.27	127.01	92.11	-9,024.04	-763.73	1,980.17	1,729.24	250.93	7.891		
21,000.00	12,424.90	21,069.97	12,497.94	126.62	128.36	92.11	-9,124.03	-762.83	1,980.18	1,726.54	253.64	7.807		
21,100.00	12,425.42	21,169.97	12,498.47	127.97	129.72	92.11	-9,224.02	-761.93	1,980.19	1,723.84	256.35	7.725		
21,200.00	12,425.95	21,269.97	12,498.99	129.31	131.07	92.11	-9,324.02	-761.03	1,980.20	1,721.14	259.06	7.644		
21,300.00	12,426.47	21,369.97	12,499.52	130.66	132.43	92.11	-9,424.01	-760.13	1,980.21	1,718.43	261.77	7.565		
21,400.00	12,427.00	21,469.97	12,500.04	132.01	133.78	92.11	-9,524.01	-759.23	1,980.22	1,715.73	264.49	7.487		
21,500.00	12,427.52	21,569.97	12,500.57	133.36	135.14	92.11	-9,624.00	-758.33	1,980.22	1,713.02	267.20	7.411		
21,600.00	12,428.05	21,669.97	12,501.10	134.71	136.49	92.11	-9,724.00	-757.43	1,980.23	1,710.32	269.92	7.336		
21,700.00	12,428.58	21,769.97	12,501.62	136.06	137.85	92.11	-9,823.99	-756.53	1,980.24	1,707.61	272.63	7.263		
21,800.00	12,429.10	21,869.97	12,502.15	137.41	139.21	92.11	-9,923.99	-755.64	1,980.25	1,704.90	275.35	7.192		
21,900.00	12,429.63	21,969.97	12,502.67	138.76	140.56	92.11	-10,023.98	-754.74	1,980.26	1,702.20	278.06	7.122		
22,000.00	12,430.15	22,069.97	12,503.20	140.11	141.92	92.11	-10,123.98	-753.84	1,980.27	1,699.49	280.78	7.053		
22,100.00	12,430.68	22,169.97	12,503.73	141.46	143.28	92.11	-10,223.97	-752.94	1,980.28	1,696.78	283.50	6.985		
22,200.00	12,431.21	22,269.97	12,504.25	142.81	144.63	92.11	-10,323.96	-752.04	1,980.29	1,694.07	286.21	6.919		
22,300.00	12,431.73	22,369.97	12,504.78	144.16	145.99	92.11	-10,423.96	-751.14	1,980.30	1,691.37	288.93	6.854		
22,400.00	12,432.26	22,469.97	12,505.31	145.51	147.35	92.11	-10,523.95	-750.24	1,980.31	1,688.66	291.65	6.790		
22,500.00	12,432.78	22,569.97	12,505.83	146.87	148.71	92.11	-10,623.95	-749.34	1,980.32	1,685.95	294.37	6.727		
22,600.00	12,433.31	22,669.97	12,506.36	148.22	150.07	92.11	-10,723.94	-748.44	1,980.32	1,683.24	297.09	6.666		
22,700.00	12,433.83	22,769.97	12,506.88	149.57	151.42	92.11	-10,823.94	-747.54	1,980.33	1,680.53	299.80	6.605		
22,703.08	12,433.85	22,773.05	12,506.90	149.62	151.47	92.11	-10,827.02	-747.51	1,980.33	1,680.45	299.89	6.604		
22,770.20	12,434.20	22,830.04	12,507.20	150.56	152.24	92.11	-10,884.00	-747.00	1,980.37	1,678.81	301.55	6.567	SF	

Anticollision Report



Civitas Resources Company: Project: Lea County, NM (NAD 83)

Plan #2

Junior Mint Fed Pad Reference Site: 0.00 usft

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Site Error:

Reference Design:

Reference Wellbore ОН Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 214H - OH - Plan #2	

Offset Site Error:	0.00 usft

JIISCE DC	- 3												Offset Site Error:	0.00 us
Survey Prog		/WD+HRGM+								Rule Assi	gned:		Offset Well Error:	0.50 us
	rence Vertical	Off Measured	set Vertical	Semi N Reference	lajor Axis Offset	Highside	Offset Wellbo	ore Centre	Dist Between	ance Between	Minimum	Separation		
Depth	Depth	Depth	Depth	Reference	Oliset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	vvarining	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	0.00	0.00	0.50	0.50	0.00	25.00	0.00	25.00					
100.00	100.00	100.00	100.00	0.98	0.98	0.00	25.00	0.00	25.00	23.04	1.96	12.741		
200.00	200.00	200.00	200.00	1.56	1.56	0.00	25.00	0.00	25.00	21.88	3.12	8.007		
300.00	300.00	300.00	300.00	1.98	1.98	0.00	25.00	0.00	25.00	21.04	3.96	6.309		
400.00	399.99	400.22	400.21	2.41	2.41	-107.24	24.55	1.24	24.94	20.27	4.67	5.345		
500.00	499.91	500.45	500.36	2.78	2.78	-107.37	23.20	4.94	24.75	19.48	5.27	4.695		
530.37	530.23	530.82	530.69	2.88	2.86	-107.69	22.66	6.43	24.72	19.28	5.44	4.544	CC	
600.00	599.69	600.44	600.21	3.11	3.04	-110.42	21.41	9.86	24.94	19.11	5.83	4.277	ES	
700.00	699.27	700.35	699.99	3.42	3.29	-118.64	19.62	14.77	26.34	19.95	6.39	4.123	20	
800.00	798.57	800.14	799.63	3.71	3.53	-129.92	17.84	19.68	29.84	22.87	6.97	4.283		
900.00	897.62	899.77	899.13	3.84	3.76	-140.74	16.05	24.58	35.80	28.38	7.41	4.828		
1,000.00	996.65	999.39	998.61	4.07	3.98	-148.41	14.27	29.48	42.78	34.86	7.92	5.399		
1,100.00	1,095.67	1,099.01	1,098.09	4.29	4.20	-153.87	12.49	34.38	50.31	41.91	8.40	5.987		
1,200.00	1,194.70	1,198.62	1,197.58	4.51	4.41	-157.88	10.70	39.28	58.18	49.32	8.86	6.566		
1,300.00	1,293.73	1,298.24	1,297.06	4.73	4.62	-160.92	8.92	44.18	66.26	56.96	9.30	7.122		
1,400.00	1,392.75	1,397.86	1,396.54	4.95	4.82	-163.30	7.14	49.08	74.49	64.75	9.74	7.651		
1,500.00	1,491.78	1,497.48	1,496.02	5.17	5.02	-165.20	5.35	53.97	82.82	72.65	10.16	8.149		
1,600.00	1,590.81	1,599.21	1,597.55	5.38	5.24	-167.11	2.52	59.70	90.10	79.50	10.61	8.496		
1,700.00	1,689.83	1,701.25	1,699.19	5.59	5.47	-169.46	-2.54	67.02	95.09	84.04	11.05	8.602		
1,800.00	1,788.86	1,803.37	1,800.67	5.80	5.70	-172.33	-9.82	75.91	97.88	86.39	11.50	8.514		
1,900.00	1,887.89	1,904.40	1,900.76	6.01	5.83	-175.75	-18.97	86.09	98.90	87.05	11.84	8.350		
2,000.00	1,986.91	2,004.22	1,999.61	6.22	6.03	-179.17	-28.31	96.36	99.94	87.68	12.26	8.153		
2,100.00	2,085.94	2,104.04	2,098.46	6.43	6.23	177.49	-37.66	106.63	101.34	88.67	12.67	7.999		
2,200.00	2,184.97	2,203.85	2,197.30	6.64	6.43	174.24	-47.00	116.90	103.07	89.99	13.07	7.883		
2,300.00	2,283.86	2,303.65	2,296.13	6.84	6.63	170.87	-56.35	127.17	106.04	92.58	13.46	7.877		
2,400.00	2,382.33	2,403.37	2,394.88	7.08	6.82	168.02	-65.68	137.43	111.81	97.91	13.90	8.045		
2,500.00	2,480.31	2,502.93	2,493.47	7.32	7.02	165.83	-75.00	147.68	120.27	105.94	14.34	8.389		
2,600.00	2,577.74	2,602.27	2,591.85	7.57	7.22	164.27	-84.30	157.90	131.35	116.57	14.78	8.886		
2,700.00	2,674.78	2,701.43	2,690.05	7.79	7.41	163.33	-93.59	168.10	144.06	128.89	15.18	9.493		
2,800.00	2,771.81	2,800.60	2,788.24	8.06	7.61	162.56	-102.87	178.31	156.84	141.24	15.60	10.052		
2,900.00	2,868.84	2,899.76	2,886.44	8.35	7.81	161.92	-112.16	188.51	169.64	153.61	16.03	10.582		
3,000.00	2,965.87	2,998.92	2,984.64	8.65	8.00	161.36	-121.44	198.71	182.46	166.00	16.46	11.084		
3,100.00	3,062.90	3,098.08	3,082.83	8.95	8.20	160.88	-130.72	208.92	195.29	178.40	16.89	11.559		
3,200.00	3,159.93	3,197.24	3,181.03	9.26	8.40	160.45	-140.01	219.12	208.13	190.81	17.33	12.010		
3,300.00	3,256.96	3,296.40	3,279.22	9.57	8.60	160.08	-149.29	229.33	220.99	203.22	17.77	12.439		
3,400.00	3,353.99	3,395.56	3,377.42	9.88	8.79	159.74	-158.57	239.53	233.85	215.65	18.20	12.847		
3,500.00	3,451.02	3,494.72	3,475.62	10.20	8.99	159.45	-167.86	249.73	246.72	228.08	18.64	13.234		
3,600.00	3,548.05	3,593.88	3,573.81	10.51	9.19	159.18	-177.14	259.94	259.60	240.51	19.08	13.604		
3,700.00	3,645.08	3,693.04	3,672.01	10.83	9.39	158.93	-186.43	270.14	272.48	252.95	19.52	13.956		
3,800.00	3,742.11	3,792.20	3,770.21	11.15	9.58	158.71	-195.71	280.34	285.36	265.40	19.97	14.292		
3,900.00	3,839.14	3,891.36	3,868.40	11.47	9.78	158.51	-204.99	290.55	298.25	277.84	20.41	14.613		
4,000.00	3,936.17	3,990.52	3,966.60	11.79	9.98	158.32	-214.28	300.75	311.14	290.29	20.85	14.920		
4,100.00	4,033.20	4,089.68	4,064.80	12.11	10.18	158.15	-223.56	310.96	324.04	302.74	21.30	15.213		
4,200.00	4,130.23	4,188.84	4,162.99	12.43	10.37	157.99	-232.84	321.16	336.94	315.19	21.75	15.494		
4,300.00	4,227.26	4,288.00	4,261.19	12.76	10.57	157.85	-242.13	331.36	349.84	327.64	22.19	15.763		
4,400.00	4,324.29	4,387.17	4,359.38	13.08	10.77	157.71	-251.41	341.57	362.74	340.10	22.64	16.022		
4,500.00	4,421.32	4,486.33	4,457.58	13.40	10.97	157.58	-260.69	351.77	375.64	352.55	23.09	16.270		
4,600.00	4,518.35	4,585.49	4,555.78	13.40	11.17	157.47	-269.98	361.98	388.55	365.01	23.54	16.508		
4,700.00	4,615.38	4,684.65	4,653.97	14.06	11.37	157.36	-279.26	372.18	401.46	377.47	23.99	16.737		
4,800.00	4,712.41	4,783.81	4,752.17	14.38	11.57	157.25	-288.55	382.38	414.37	389.93	24.44	16.957		
4,900.00	4,809.44	4,882.97	4,850.37	14.71	11.77	157.15	-297.83	392.59	427.28	402.39	24.89	17.169		
,	,	,	,		****	· ···					*****			
5,000.00	4,906.47	4,982.13	4,948.56	15.04	11.96	157.06	-307.11	402.79	440.19	414.85	25.34	17.373		

Anticollision Report

TVD Reference:

Local Co-ordinate Reference:



Company: Civitas Resources

Project: Lea County, NM (NAD 83)

Plan #2

Junior Mint Fed Pad Reference Site:

Junior Mint Fed 218H Reference Well:

Well Error: 0.50 usft

Reference Wellbore ОН

Reference Design:

MD Reference: Site Error: 0.00 usft North Reference:

Minimum Curvature **Survey Calculation Method:**

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Well Junior Mint Fed 218H

GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB)

Offset TVD Reference: Reference Datum

rvey Prog	ram: 0-l rence	MWD+HRGM+ Off			lajor Axis		Offset Wellb	ore Centre	Dis	Rule Assi tance	gned:		Offset Well Error:	0.50 us
/leasured	Vertical	Measured	Vertical	Reference	Offset	Highside		0.0 000	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,100.00	5,003.50	5,081.29	5,046.76	15.36	12.16	156.98	-316.40	412.99	453.10	427.31	25.79	17.570		
5,200.00	5,100.53	5,180.45	5,144.96	15.69	12.36	156.90	-325.68	423.20	466.01	439.77	26.24	17.759		
5,300.00	5,197.56	5,279.61	5,243.15	16.02	12.56	156.82	-334.96	433.40	478.93	452.23	26.69	17.943		
5,400.00	5,294.59	5,378.77	5,341.35	16.35	12.76	156.74	-344.25	443.61	491.84	464.70	27.14	18.119		
5,500.00	5,391.62	5,474.93	5,436.59	16.68	12.93	156.69	-353.15	453.39	504.86	477.30	27.56	18.319		
,600.00	5,488.65	5,565.59	5,526.61	17.01	13.11	156.78	-360.40	461.36	519.17	491.21	27.96	18.569		
700.00	E E0E 00	E 055 70	F 040 00	47.04	40.00	457.04	200 47	407.70	505.00	500.75	00.04	40.000		
,700.00	5,585.68	5,655.76	5,616.36	17.34	13.28	157.04	-366.17	467.70	535.09	506.75	28.34	18.880		
,800.00	5,682.71	5,745.32	5,705.70	17.67	13.44	157.44	-370.49	472.45	552.62	523.92	28.70	19.256		
,900.00	5,779.92	5,834.34	5,794.61	17.97	13.59	158.02	-373.39	475.64	571.10	542.09	29.01	19.686		
5,000.00	5,877.69	5,923.09	5,883.32	18.27	13.71	158.65	-374.89	477.29	588.91	559.61	29.30	20.096		
,100.00	5,975.98	6,015.74	5,975.98	18.54	13.75	159.31	-375.13	477.55	605.86	576.33	29.53	20.518		
,200.00	6,074.72	6,114.48	6,074.72	18.77	13.79	159.91	-375.13	477.55	620.72	590.95	29.77	20.852		
,200.00	6,173.83	6,213.60	6,173.83	18.98	13.79	160.38	-375.13	477.55	633.18	603.18	30.00	21.105		
,400.00	6,273.26	6,313.03	6,273.26	19.16	13.86	160.75	-375.13	477.55	643.23	613.00	30.23	21.103		
5,500.00	6,372.94	6,412.70	6,372.94	19.10	13.90	161.02	-375.13	477.55	650.82	620.38	30.44	21.377		
,600.00	6,472.79	6,512.55	6,472.79	19.42	13.94	161.20	-375.13	477.55	655.95	625.30	30.65	21.400		
,000.00	0,472.79	0,512.55	0,472.79	19.42	13.54	101.20	-373.13	477.55	000.90	025.50	30.03	21.400		
,700.00	6,572.74	6,612.51	6,572.74	19.52	13.98	161.29	-375.13	477.55	658.61	627.77	30.84	21.355		
,800.00	6,672.74	6,712.51	6,672.74	19.54	14.02	-90.41	-375.13	477.55	659.02	628.10	30.92	21.314		
,900.00	6,772.74	6,812.51	6,772.74	19.58	14.06	-90.41	-375.13	477.55	659.02	628.02	31.00	21.262		
,000.00	6,872.74	6,912.51	6,872.74	19.62	14.10	-90.41	-375.13	477.55	659.02	627.94	31.07	21.209		
,100.00	6,972.74	7,012.51	6,972.74	19.66	14.14	-90.41	-375.13	477.55	659.02	627.87	31.15	21.156		
,100.00	0,012.14	7,012.01	0,012.14	10.00	14.14	-50.41	-070.10	477.00	000.02	021.01	01.10	21.100		
7,200.00	7,072.74	7,112.51	7,072.74	19.70	14.18	-90.41	-375.13	477.55	659.02	627.79	31.23	21.103		
,300.00	7,172.74	7,212.51	7,172.74	19.74	14.23	-90.41	-375.13	477.55	659.02	627.71	31.31	21.049		
,400.00	7,272.74	7,312.51	7,272.74	19.77	14.27	-90.41	-375.13	477.55	659.02	627.63	31.39	20.996		
,500.00	7,372.74	7,412.51	7,372.74	19.81	14.31	-90.41	-375.13	477.55	659.02	627.55	31.47	20.942		
,600.00	7,472.74	7,512.51	7,472.74	19.85	14.35	-90.41	-375.13	477.55	659.02	627.47	31.55	20.888		
,700.00	7,572.74	7,612.51	7,572.74	19.89	14.40	-90.41	-375.13	477.55	659.02	627.39	31.63	20.834		
,800.00	7,672.74	7,712.51	7,672.74	19.93	14.44	-90.41	-375.13	477.55	659.02	627.30	31.71	20.780		
,900.00	7,772.74	7,812.51	7,772.74	19.97	14.48	-90.41	-375.13	477.55	659.02	627.22	31.80	20.726		
,000.00	7,872.74	7,912.51	7,872.74	20.01	14.53	-90.41	-375.13	477.55	659.02	627.14	31.88	20.671		
,100.00	7,972.74	8,012.51	7,972.74	20.05	14.57	-90.41	-375.13	477.55	659.02	627.05	31.97	20.617		
,200.00	8,072.74	8,112.51	8,072.74	20.10	14.62	-90.41	-375.13	477.55	659.02	626.97	32.05	20.562		
,300.00	8,172.74	8,212.51	8,172.74	20.14	14.66	-90.41	-375.13	477.55	659.02	626.88	32.14	20.507		
,400.00	8,272.74	8,312.51	8,272.74	20.18	14.71	-90.41	-375.13	477.55	659.02	626.80	32.22	20.452		
,500.00	8,372.74	8,412.51	8,372.74	20.22	14.75	-90.41	-375.13	477.55	659.02	626.71	32.31	20.398		
3,600.00	8,472.74	8,512.51	8,472.74	20.26	14.80	-90.41	-375.13	477.55	659.02	626.62	32.40	20.343		
,700.00	8,572.74	8,612.51	8,572.74	20.30	14.84	-90.41	-375.13	477.55	659.02	626.53	32.48	20.288		
,800.00	8,672.74	8,712.51	8,672.74	20.35	14.89	-90.41	-375.13	477.55	659.02	626.44	32.57	20.232		
,900.00	8,772.74	8,812.51	8,772.74	20.39	14.94	-90.41	-375.13	477.55	659.02	626.36	32.66	20.177		
,000.00	8,872.74	8,912.51	8,872.74	20.43	14.98	-90.41	-375.13	477.55	659.02	626.27	32.75	20.122		
,100.00	8,972.74	9,012.51	8,972.74	20.48	15.03	-90.41	-375.13	477.55	659.02	626.18	32.84	20.067		
	0.0====	0.4:5 = :	0.0===:		45	00	0== ::	4	055.55	055.55		00.7		
,200.00	9,072.74	9,112.51	9,072.74	20.52	15.08	-90.41	-375.13	477.55	659.02	626.09	32.93	20.011		
,300.00	9,172.74	9,212.51	9,172.74	20.56	15.13	-90.41	-375.13	477.55	659.02	625.99	33.02	19.956		
,400.00	9,272.74	9,312.51	9,272.74	20.61	15.18	-90.41	-375.13	477.55	659.02	625.90	33.12	19.901		
,500.00	9,372.74	9,412.51	9,372.74	20.65	15.22	-90.41	-375.13	477.55	659.02	625.81	33.21	19.845		
,600.00	9,472.74	9,512.51	9,472.74	20.70	15.27	-90.41	-375.13	477.55	659.02	625.72	33.30	19.790		
700	:	0.0:	0.555.5		45.55	00	0== :-	4	055.50	007.77		10		
,700.00	9,572.74	9,612.51	9,572.74	20.74	15.32	-90.41	-375.13	477.55	659.02	625.62	33.39	19.735		
9,800.00	9,672.74	9,712.51	9,672.74	20.79	15.37	-90.41	-375.13	477.55	659.02	625.53	33.49	19.679		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

9,900.00

10,000.00

10.100.00

10,200.00

9,772.74

9,872.74

9.972.74

10,072.74

-375.13

-375.13

-375.13

-375.13

477.55

477.55

477.55

477.55

659.02

659.02

659.02

659.02

625.43

625.34

625.24

625.15

33.58

33.68

33.77

19.624

19.568

19.513

9,812.51

9,912.51

10.012.51

10,112.51

9,772.74

9,872.74

9.972.74

10,072.74

20.83

20.88

20.92

20.97

15.42

15.47

15.52

15.57

-90.41

-90.41

-90.41

-90.41

Company:

Total Directional

Anticollision Report



,

Civitas Resources Local Co-ordinate Reference: Well Junior Mint Fed 218H
Lea County, NM (NAD 83) TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

 Project:
 Lea County, NM (NAD 83)
 TVD Reference:
 GE 3220 + 26 @ 3246.00usft (26' KB)

 Reference Site:
 Junior Mint Fed Pad
 MD Reference:
 GE 3220 + 26 @ 3246.00usft (26' KB)

Site Error: 0.00 usft North Reference: Gr

Reference Well: Junior Mint Fed 218H Survey Calculation Method: Minimum Curvature

 Well Error:
 0.50 usft
 Output errors are at
 2.00 sigma

 Reference Wellbore
 OH
 Database:
 .Total Directional Production DB

Reference Design: Plan #2 Offset TVD Reference: Reference Datum

Survey Prog	ram: 0-l	MWD+HRGM+			laior Axis		Offset Wellbo	ara Cantra	Diet	Rule Assi	gned:		Offset Well Error:	0.50 usf
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
10,300.00	10,172.74	10,212.51	10,172.74	21.01	15.62	-90.41	-375.13	477.55	659.02	625.05	33.97	19.402		
10,400.00	10,272.74	10,312.51	10,272.74	21.06	15.68	-90.41	-375.13	477.55	659.02	624.95	34.06	19.347		
10,500.00	10,372.74	10,412.51	10,372.74	21.11	15.73	-90.41	-375.13	477.55	659.02	624.86	34.16	19.291		
10,600.00	10,472.74	10,512.51	10,472.74	21.15	15.78	-90.41	-375.13	477.55	659.02	624.76	34.26	19.236		
10,700.00	10,572.74	10,612.51	10,572.74	21.20	15.83	-90.41	-375.13	477.55	659.02	624.66	34.36	19.181		
10,800.00	10,672.74	10,712.51	10,672.74	21.25	15.88	-90.41	-375.13	477.55	659.02	624.56	34.46	19.126		
40,000,00	40 770 74	40.040.54	40 770 74	04.00	45.04	00.44	075.40	477.55	050.00	004.40	04.50	40.074		
10,900.00	10,772.74	10,812.51	10,772.74	21.29	15.94	-90.41	-375.13	477.55	659.02	624.46	34.56	19.071		
11,000.00	10,872.74	10,912.51	10,872.74	21.34	15.99	-90.41	-375.13	477.55	659.02	624.36	34.66	19.016		
11,100.00	10,972.74	11,012.51	10,972.74	21.39	16.04	-90.41	-375.13	477.55	659.02	624.26	34.76	18.960		
11,200.00	11,072.74	11,112.51	11,072.74	21.44	16.10	-90.41	-375.13	477.55	659.02	624.16	34.86	18.906		
11,300.00	11,172.74	11,212.51	11,172.74	21.49	16.15	-90.41	-375.13	477.55	659.02	624.06	34.96	18.851		
11,400.00	11,272.74	11,312.51	11,272.74	21.53	16.20	-90.41	-375.13	477.55	659.02	623.96	35.06	18.796		
11,500.00	11,372.74	11,412.51	11,372.74	21.58	16.26	-90.41	-375.13	477.55	659.02	623.85	35.16	18.741		
11,600.00	11,472.74	11,512.51	11,472.74	21.63	16.31	-90.41	-375.13	477.55	659.02	623.75	35.27	18.686		
11,700.00	11,572.74	11,612.51	11,572.74	21.68	16.37	-90.41	-375.13	477.55	659.02	623.65	35.37	18.632		
11,800.00	11,672.74	11,712.51	11,672.74	21.73	16.42	-90.41	-375.13	477.55	659.02	623.54	35.47	18.577		
				-								-		
11,900.00	11,772.74	11,812.51	11,772.74	21.78	16.47	-90.41	-375.13	477.55	659.02	623.44	35.58	18.524		
12,000.00	11,872.61	11,912.64	11,872.85	21.84	16.52	90.30	-376.45	477.56	659.03	623.40	35.63	18.498		
12,100.00	11,970.52	12,013.54	11,972.39	21.99	16.64	90.67	-392.09	477.70	659.06	623.30	35.76	18.431		
12,200.00	12,063.53	12,115.20	12,068.35	22.19	16.80	91.02	-425.25	478.01	659.12	623.08	36.04	18.289		
12,300.00	12,148.80	12,217.57	12,157.55	22.45	16.97	91.35	-475.22	478.46	659.20	622.70	36.49	18.063		
40 400 00	40.000 7:	40.000.01	40.000.00	00.70	47.07	04.00	540.74	470.05	050.00	000.10	07.10	47 744		
12,400.00	12,223.74	12,320.61	12,236.90	22.78	17.37	91.63	-540.71	479.05	659.28	622.12	37.16	17.741		
12,500.00	12,286.09	12,424.20	12,303.59	23.20	17.92	91.86	-619.80	479.77	659.36	621.29	38.07	17.320		
12,600.00	12,333.93	12,528.25	12,355.16	23.71	18.60	92.03	-710.01	480.59	659.43	620.20	39.23	16.809		
12,700.00	12,365.83	12,632.62	12,389.66	24.31	19.39	92.14	-808.35	481.49	659.47	618.84	40.64	16.228		
12,800.00	12,380.81	12,737.15	12,405.79	24.99	20.28	92.17	-911.48	482.42	659.49	617.24	42.25	15.611		
12,900.00	12,382.30	12,838.62	12,407.31	25.74	21.21	92.17	-1,012.92	483.35	659.49	615.55	43.94	15.009		
13,000.00	12,382.83	12,938.62	12,407.83	26.54	22.18	92.17	-1,112.91	484.25	659.49	613.77	45.72	14.425		
13,100.00	12,383.35	13,038.62	12,408.36	27.39	23.18	92.17	-1,212.91	485.16	659.49	611.90	47.59	13.858		
13,200.00	12,383.88	13,138.62	12,408.88	28.28	24.21	92.17	-1,312.90	486.07	659.49	609.95	49.54	13.313		
13,300.00	12,384.40	13,238.62	12,409.41	29.20	25.28	92.17	-1,412.90	486.98	659.49	607.93	51.56	12.791		
,	,	,	,				.,							
13,400.00	12,384.93	13,338.62	12,409.93	30.16	26.37	92.17	-1,512.89	487.89	659.49	605.84	53.64	12.294		
13,500.00	12,385.46	13,438.62	12,410.46	31.14	27.48	92.17	-1,612.89	488.80	659.49	603.70	55.78	11.822		
13,600.00	12,385.98	13,538.62	12,410.98	32.15	28.61	92.17	-1,712.88	489.71	659.49	601.51	57.98	11.375		
13,700.00	12,386.51	13,638.62	12,411.51	33.18	29.77	92.17	-1,812.87	490.61	659.49	599.28	60.21	10.953		
13,800.00	12,387.03	13,738.62	12,412.03	34.23	30.94	92.17	-1,912.87	491.52	659.49	597.00	62.49	10.554		
10.055.55	10.05= =:	10.000	10 1/2 =:		05 :-	00.1=	0.0/	407 17	055 15	50:		40 :==		
13,900.00	12,387.56	13,838.62	12,412.56	35.31	32.12	92.17	-2,012.86	492.43	659.49	594.69	64.80	10.178		
14,000.00	12,388.09	13,938.62	12,413.08	36.40	33.32	92.17	-2,112.86	493.34	659.49	592.35	67.14	9.822		
14,100.00	12,388.61	14,038.62	12,413.61	37.51	34.53	92.17	-2,212.85	494.25	659.49	589.97	69.51	9.487		
14,200.00	12,389.14	14,138.62	12,414.13	38.63	35.75	92.17	-2,312.85	495.16	659.49	587.58	71.91	9.171		
14,300.00	12,389.66	14,238.62	12,414.66	39.77	36.98	92.17	-2,412.84	496.07	659.49	585.16	74.33	8.872		
14,400.00	12,390.19	14,338.62	12,415.18	40.92	38.22	92.17	-2,512.84	496.98	659.49	582.71	76.77	8.590		
14,500.00	12,390.19	14,438.62	12,415.71	42.08	39.47	92.17	-2,612.83	490.98	659.49	580.25	79.23	8.323		
14,600.00	12,390.71	14,538.62	12,416.23	43.26	40.73	92.17	-2,712.83	497.00	659.49	577.77	81.71	8.071		
14,700.00	12,391.24	14,638.62		44.44	41.99	92.17	-2,712.83	490.79	659.49	575.28	84.21	7.832		
14,700.00	12,391.77	14,038.62		45.64	43.26	92.17	-2,912.81	500.61	659.49	573.26	86.72	7.605		
,000.00	12,002.20	17,700.02	12,711.20	40.04	-5.20	J2.11	-2,012.01	550.01	555.43	012.11	30.12	7.000		
14,900.00	12,392.82	14,838.62	12,417.81	46.84	44.53	92.17	-3,012.81	501.52	659.49	570.24	89.24	7.390		
15,000.00	12,393.34	14,938.62	12,418.33	48.05	45.81	92.17	-3,112.80	502.43	659.49	567.71	91.78	7.186		
15,100.00	12,393.87	15,038.62	12,418.86	49.27	47.10	92.17	-3,212.80	503.34	659.49	565.16	94.32	6.992		
15,200.00	12,394.40	15,138.62	12,419.38	50.50	48.38	92.17	-3,312.79	504.24	659.48	562.60	96.88	6.807		
15,300.00	12,394.92	15,238.62	12,419.90	51.73	49.68	92.17	-3,412.79	505.15	659.48	560.04	99.45	6.632		
15,400.00	12,395.45	15,338.62	12,420.43	52.97	50.98	92.17	-3,512.78	506.06	659.48	557.46	102.02	6.464		

Anticollision Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Reference Wellbore ОН

Well Error: 0.50 usft

Reference Design: Plan #2 Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

.Total Directional Production DB Database:

Offset TVD Reference: Reference Datum

mset De	sign: Junio	or with red	Pau - Ju	nior iviint Fe	u 214n - (OH - Plan #2							Offset Site Error:	0.00 us
urvey Prog	ram: 0-l	MWD+HRGM+	-SAG+FDIR (rev 5)						Rule Assi	anod:		Offset Well Error:	0.50 us
Refe	rence	Off	set	Semi N	lajor Axis		Offset Wellb	ore Centre		ance				0.50 us
Measured	Vertical Depth	Measured	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
Depth (usft)	(usft)	Depth (usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	ractor		
15,500.00	12,395.97	15,438.62	12,420.95	54.21	52.28	92.17	-3,612.78	506.97	659.48	554.88	104.61	6.304		
15,600.00	12,396.50	15,538.62	12,421.48	55.47	53.58	92.17	-3,712.77	507.88	659.48	552.29	107.20	6.152		
15,700.00	12,397.03	15,638.62	12,422.00	56.72	54.89	92.17	-3,812.76	508.79	659.48	549.69	109.80	6.006		
15,800.00	12,397.55	15,738.62	12,422.53	57.98	56.20	92.17	-3,912.76	509.70	659.48	547.08	112.40	5.867		
15,900.00	12,398.08	15,838.62	12,423.05	59.25	57.51	92.17	-4,012.75	510.61	659.48	544.47	115.01	5.734		
16,000.00	12,398.60	15,938.62	12,423.58	60.52	58.82	92.17	-4,112.75	511.51	659.48	541.86	117.63	5.607		
16,100.00	12,399.13	16,038.62	12,424.10	61.79	60.14	92.17	4 212 74	512.42	659.48	539.23	120.25	5.484		
16,200.00	12,399.13	16,138.62	12,424.10	63.07	61.46	92.17	-4,212.74 -4,312.74	513.33	659.48	536.61	122.88	5.367		
16,300.00	12,400.18	16,238.62	12,425.15	64.35	62.78	92.17	-4,412.73	514.24	659.48	533.97	125.51	5.254		
16,400.00	12,400.71	16,338.62	12,425.68	65.63	64.11	92.17	-4,512.73	515.15	659.48	531.34	128.15	5.146		
16,500.00	12,401.23	16,438.62	12,426.20	66.92	65.43	92.17	-4,612.72	516.06	659.48	528.70	130.79	5.042		
16,600.00	12,401.76	16,538.62	12,426.73	68.21	66.76	92.17	-4,712.72	516.97	659.48	526.05	133.43	4.943		
16,700.00	12,402.28	16,638.62	12,427.25	69.51	68.09	92.17	-4,812.71	517.87	659.48	523.40	136.08	4.846		
16,800.00	12,402.81	16,738.62	12,427.78	70.80	69.42	92.17	-4,912.70	518.78	659.48	520.75	138.73	4.754		
16,900.00	12,403.34	16,838.62	12,428.30	72.10	70.75	92.17	-5,012.70	519.69	659.48	518.10	141.39	4.664		
17,000.00	12,403.86	16,938.62	12,428.83	73.40	72.08	92.17	-5,112.69	520.60	659.48	515.44	144.04	4.578		
17,100.00	12,404.39	17,038.62	12,429.35	74.71	73.42	92.17	-5,212.69	521.51	659.48	512.78	146.70	4.495		
17,200.00	12,404.91	17,138.62	12,429.88	76.01	74.76	92.17	-5,312.68	522.42	659.48	510.11	149.37	4.415		
17,300.00	12,405.44	17,238.62	12,430.40	77.32	76.09	92.17	-5,412.68	523.33	659.48	507.45	152.03	4.338		
17,400.00	12,405.96	17,338.62	12,430.93	78.63	77.43	92.17	-5,512.67	524.24	659.48	504.78	154.70	4.263		
17,500.00	12,406.49	17,438.62	12,431.45	79.94	78.77	92.17	-5,612.67	525.14	659.48	502.11	157.37	4.191		
17,600.00	12,407.02	17,538.62	12,431.98	81.26	80.11	92.17	-5,712.66	526.05	659.48	499.43	160.05	4.121		
17,700.00	12,407.54	17,638.62	12,432.50	82.57	81.45	92.17	-5,812.65	526.96	659.48	496.76	162.72	4.053		
17,800.00	12,408.07	17,738.62	12,433.03	83.89	82.79	92.17	-5,912.65	527.87	659.48	494.08	165.40	3.987		
17,900.00 18,000.00	12,408.59 12,409.12	17,838.62 17,938.62	12,433.55 12,434.08	85.21 86.53	84.14 85.48	92.17 92.17	-6,012.64 -6,112.64	528.78 529.69	659.48 659.48	491.40 488.72	168.08 170.76	3.924 3.862		
10,000.00	12,400.12	17,330.02	12,434.00	00.55	05.40	32.17	-0,112.04	323.03	000.40	400.72	170.70	3.002		
18,100.00	12,409.65	18,038.62	12,434.60	87.85	86.82	92.17	-6,212.63	530.60	659.48	486.04	173.44	3.802		
18,200.00	12,410.17	18,138.62	12,435.13	89.18	88.17	92.17	-6,312.63	531.50	659.48	483.35	176.13	3.744		
18,300.00	12,410.70	18,238.62	12,435.65	90.50	89.52	92.17	-6,412.62	532.41	659.48	480.66	178.81	3.688		
18,400.00	12,411.22	18,338.62	12,436.18	91.83	90.86	92.17	-6,512.62	533.32	659.48	477.98	181.50	3.633		
18,500.00	12,411.75	18,438.62	12,436.70	93.15	92.21	92.17	-6,612.61	534.23	659.48	475.29	184.19	3.580		
10 000 00	10 410 07	18,538.62	12,437.23	04.49	93.56	92.17	6 710 61	E2E 14	659.48	470.60	100.00	3 530		
18,600.00 18,700.00	12,412.27 12,412.80	18,638.62	12,437.25	94.48 95.81	94.91	92.17	-6,712.61 -6,812.60	535.14 536.05	659.48	472.60 469.90	186.88 189.57	3.529 3.479		
18,800.00	12,413.33	18,738.62	12,437.73	97.14	96.26	92.17	-6,912.59	536.96	659.48	467.21	192.27	3.430		
18,900.00	12,413.85	18,838.62	12,438.80	98.47	97.60	92.17	-7,012.59	537.87	659.48	464.52	194.96	3.383		
19,000.00	12,414.38	18,938.62	12,439.33	99.81	98.96	92.17	-7,112.58	538.77	659.48	461.82	197.66	3.336		
19,100.00	12,414.90	19,038.62	12,439.85	101.14	100.31	92.17	-7,212.58	539.68	659.48	459.12	200.35	3.292		
19,200.00	12,415.43	19,138.62	12,440.38	102.47	101.66	92.17	-7,312.57	540.59	659.48	456.42	203.05	3.248		
19,300.00	12,415.96	19,238.62	12,440.90	103.81	103.01	92.17	-7,412.57	541.50	659.48	453.73	205.75	3.205		
	12,416.48	19,338.62		105.15	104.36	92.17	-7,512.56	542.41	659.48	451.03	208.45	3.164		
19,500.00	12,417.01	19,438.62	12,441.95	106.48	105.71	92.17	-7,612.56	543.32	659.48	448.32	211.15	3.123		
19,600.00	12,417.53	19,538.62	12,442.48	107.82	107.07	92.17	-7,712.55	544.23	659.48	445.62	213.85	3.084		
19,700.00	12,417.55	19,638.62	12,443.00	107.82	107.07	92.17	-7,712.55 -7,812.54	545.13	659.48	442.92	216.56	3.045		
19,800.00	12,418.59	19,738.62	12,443.53	110.50	109.77	92.17	-7,912.54	546.04	659.48	440.22	219.26	3.008		
19,900.00	12,419.11	19,838.62	12,444.05	111.84	111.13	92.17	-8,012.53	546.95	659.48	437.51	221.97	2.971		
20,000.00	12,419.64	19,938.62		113.18	112.48	92.17	-8,112.53	547.86	659.48	434.80	224.67	2.935		
20,100.00	12,420.16	20,038.62	12,445.10	114.52	113.84	92.17	-8,212.52	548.77	659.48	432.10	227.38	2.900		
20,200.00	12,420.69	20,138.62	12,445.63	115.86	115.19	92.17	-8,312.52	549.68	659.48	429.39	230.08	2.866		
20,300.00	12,421.21	20,238.62	12,446.15	117.20	116.55	92.17	-8,412.51	550.59	659.48	426.68	232.79	2.833		
20,400.00	12,421.74	20,338.62	12,446.68	118.55	117.90	92.17	-8,512.51	551.50	659.48	423.98	235.50	2.800		
20,500.00	12,422.27	20,438.62	12,447.20	119.89	119.26	92.17	-8,612.50	552.40	659.48	421.27	238.21	2.768		
20,600.00	12,422.79	00 500 00	12,447.73	121.24	120.62	92.17	-8,712.49	553.31	659.47	418.56	240.92	2.737		

Anticollision Report



Civitas Resources

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

Plan #2

0.00 usft Site Error:

Company:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft Reference Wellbore ОН

Reference Design:

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

	•					OH - Plan #2							Offset Site Error:	0.00 ust
rvey Progi		+MD+HRGM Off			fajor Axis		06	0	Di-	Rule Assi	gned:		Offset Well Error:	0.50 ust
Rete leasured Depth (usft)	rence Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbo +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	tance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0,700.00	12,423.32	20,638.62	12,448.25	122.58	121.97	92.17	-8,812.49	554.22	659.47	415.85	243.63	2.707		
0,800.00	12,423.84	20,738.62	12,448.78	123.93	123.33	92.17	-8,912.48	555.13	659.47	413.14	246.34	2.677		
0,900.00	12,424.37	20,838.62	12,449.30	125.27	124.69	92.17	-9,012.48	556.04	659.47	410.42	249.05	2.648		
1,000.00	12,424.90	20,938.62	12,449.83	126.62	126.05	92.17	-9,112.47	556.95	659.47	407.71	251.76	2.619		
1,100.00	12,425.42	21,038.62	12,450.35	127.97	127.40	92.17	-9,212.47	557.86	659.47	405.00	254.47	2.592		
1,200.00	12,425.95	21,138.62	12,450.88	129.31	128.76	92.17	-9,312.46	558.76	659.47	402.29	257.19	2.564		
1,300.00	12,426.47	21,238.62	12,451.40	130.66	130.12	92.17	-9,412.46	559.67	659.47	399.57	259.90	2.537		
1,400.00	12,427.00	21,338.62	12,451.93	132.01	131.48	92.17	-9,512.45	560.58	659.47	396.86	262.62	2.511		
1,500.00	12,427.52	21,438.62	12,452.45	133.36	132.84	92.17	-9,612.45	561.49	659.47	394.14	265.33	2.485		
1,600.00	12,428.05	21,538.62	12,452.98	134.71	134.20	92.17	-9,712.44	562.40	659.47	391.43	268.04	2.460		
1,700.00	12,428.58	21,638.62	12,453.50	136.06	135.56	92.17	-9,812.43	563.31	659.47	388.71	270.76	2.436		
1,800.00	12,429.10	21,738.62	12,454.03	137.41	136.92	92.17	-9,912.43	564.22	659.47	386.00	273.48	2.411		
1,900.00	12,429.63	21,838.62	12,454.55	138.76	138.28	92.17	-10,012.42	565.13	659.47	383.28	276.19	2.388		
2,000.00	12,430.15	21,938.62	12,455.08	140.11	139.64	92.17	-10,112.42	566.03	659.47	380.56	278.91	2.364		
2,100.00	12,430.68	22,038.62	12,455.60	141.46	141.00	92.17	-10,212.41	566.94	659.47	377.85	281.63	2.342		
2,200.00	12,431.21	22,138.62	12,456.13	142.81	142.36	92.17	-10,312.41	567.85	659.47	375.13	284.34	2.319		
2,300.00	12,431.73	22,238.62	12,456.65	144.16	143.72	92.17	-10,412.40	568.76	659.47	372.41	287.06	2.297		
2,400.00	12,432.26	22,338.62	12,457.18	145.51	145.08	92.17	-10,512.40	569.67	659.47	369.69	289.78	2.276		
2,500.00	12,432.78	22,438.62	12,457.70	146.87	146.44	92.17	-10,612.39	570.58	659.47	366.97	292.50	2.255		
2,600.00	12,433.31	22,538.62	12,458.23	148.22	147.80	92.17	-10,712.38	571.49	659.47	364.25	295.22	2.234		
2,700.00	12,433.83	22,638.62	12,458.75	149.57	149.10	92.17	-10,812.38	572.39	659.47	361.59	297.88	2.214		
2,766.62	12,434.19	22,705.24	12,459.10	150.51	149.92	92.17	-10,878.99	573.00	659.47	359.88	299.59	2.201	SF	
2.770.20	12,434.20	22,705.25	12,459.10	150.56	149.92	92.17	-10.879.00	573.00	659.48	359.96	299.53	2.202		

Anticollision Report



Anticonision Rep

 Company:
 Civitas Resources
 Local Co-ordinate Reference:
 Well Junior Mint Fed 218H

 Project:
 Lea County, NM (NAD 83)
 TVD Reference:
 GE 3220 + 26 @ 3246.00usft (26' KB)

 Reference Site:
 Junior Mint Fed Pad
 MD Reference:
 GE 3220 + 26 @ 3246.00usft (26' KB)

Site Error: 0.00 usft North Reference: Gr

Reference Well: Junior Mint Fed 218H Survey Calculation Method: Minimum Curvature

Well Error: 0.50 usft Output errors are at 2.00 sigma

Reference Wellbore OH Database: .Total Directional Production DB

Reference Design: Plan #2 Offset TVD Reference: Reference Datum

													Offset Site Error:	0.00 usf
Survey Progr		MWD+HRGM+			lalau A!-		066	one Control		Rule Assi	gned:		Offset Well Error:	0.50 usf
Refe Measured	rence Vertical	Offs Measured	set Vertical	Semi M Reference	lajor Axis Offset	Highside	Offset Wellbo	ore Centre	Dist Between	tance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	2.00	0.00	0.50	0.50	-6.07	235.00	-25.00	236.33	004.05	4.07	440.770		
100.00	100.00	102.00	100.00	0.98	0.99	-6.07	235.00	-25.00	236.33	234.35	1.97	119.772		
200.00	200.00	202.00	200.00 300.00	1.56 1.98	1.57 1.99	-6.07	235.00	-25.00 -25.00	236.33 236.33	233.20 232.36	3.13 3.97	75.490 59.539	CC	
300.00 400.00	300.00 399.99	302.00 401.99	399.99	2.41	2.34	-6.07 -113.56	235.00 235.00	-25.00	236.85	232.36	4.67	59.539	ES	
500.00	499.91	501.91	499.91	2.78	2.64	-114.40	235.00	-25.00	238.44	233.16	5.29	45.101	20	
000.00	100.01	001.01	100.01	20	2.01		200.00	20.00	200	200.10	0.20	10.101		
600.00	599.69	601.69	599.69	3.11	2.91	-115.77	235.00	-25.00	241.22	235.37	5.85	41.254		
700.00	699.27	701.35	699.35	3.42	3.17	-117.64	235.00	-25.00	245.35	238.97	6.37	38.497		
800.00	798.57	807.28	805.27	3.71	3.46	-120.20	233.50	-25.11	249.69	242.76	6.93	36.027		
900.00	897.62	912.15	910.04	3.84	3.72	-123.31	229.15	-25.44	253.02	245.70	7.32	34.542		
1,000.00	996.65	1,011.20	1,008.95	4.07	3.91	-126.29	223.98	-25.83	256.13	248.37	7.76	32.991		
1,100.00	1,095.67	1,110.25	1,107.87	4.29	4.10	-129.20	218.81	-26.22	259.94	251.74	8.19	31.727		
1,200.00	1,194.70	1,209.31	1,206.79	4.29	4.10	-132.01	213.64	-26.61	264.40	255.79	8.60	30.730		
1,300.00	1,194.70	1,311.50	1,308.82	4.73	4.27	-134.89	207.84	-27.15	269.14	260.21	8.94	30.730		
1,400.00	1,392.75	1,415.65	1,412.61	4.75	4.61	-138.09	199.44	-28.37	272.79	263.43	9.37	29.120		
1,500.00	1,491.78	1,516.91	1,513.32	5.17	4.74	-141.49	188.95	-30.21	275.66	265.95	9.71	28.392		
,		,	,	±*	*** *	***		·			****			
1,600.00	1,590.81	1,615.54	1,611.36	5.38	4.92	-144.78	178.39	-32.09	279.23	269.12	10.11	27.615		
1,700.00	1,689.83	1,714.16	1,709.40	5.59	5.11	-147.98	167.82	-33.97	283.73	273.22	10.51	26.998		
1,800.00	1,788.86	1,812.79	1,807.44	5.80	5.29	-151.07	157.26	-35.85	289.09	278.19	10.90	26.517		
1,900.00	1,887.89	1,911.42	1,905.48	6.01	5.48	-154.04	146.70	-37.73	295.29	284.00	11.29	26.151		
2,000.00	1,986.91	2,010.04	2,003.52	6.22	5.66	-156.89	136.13	-39.61	302.26	290.58	11.68	25.884		
2,100.00	2,085.94	2,108.67	2,101.56	6.43	5.85	-159.60	125.57	-41.49	309.96	297.90	12.06	25.699		
2,200.00	2,083.94	2,207.30	2,101.50	6.64	6.03	-162.18	115.01	-41.49	318.33	305.88	12.44	25.584		
2,300.00	2,283.86	2,305.80	2,193.00	6.84	6.21	-164.97	104.46	-45.25	328.23	315.42	12.44	25.632		
2,400.00	2,382.33	2,403.94	2,395.08	7.08	6.40	-167.64	93.95	-47.13	341.24	328.02	13.22	25.818		
2,500.00	2,480.31	2,501.64	2,492.20	7.32	6.58	-170.12	83.49	-48.99	357.38	343.75	13.63	26.221		
2,000.00	2,100.01	2,001.01	2, 102.20	7.02	0.00	170.12	00.10	10.00	007.00	0.00	10.00	20.22		
2,600.00	2,577.74	2,598.83	2,588.82	7.57	6.76	-172.40	73.08	-50.84	376.59	362.55	14.04	26.820		
2,700.00	2,674.78	2,695.67	2,685.08	7.79	6.94	-174.37	62.71	-52.69	397.91	383.51	14.40	27.633		
2,800.00	2,771.81	2,792.50	2,781.33	8.06	7.12	-176.12	52.34	-54.54	419.66	404.87	14.78	28.386		
2,900.00	2,868.84	2,889.32	2,877.59	8.35	7.30	-177.70	41.97	-56.38	441.75	426.58	15.17	29.123		
3,000.00	2,965.87	2,986.15	2,973.84	8.65	7.48	-179.13	31.59	-58.23	464.13	448.58	15.55	29.839		
2 100 00	2.062.00	2 002 00	2.070.00	0.05	7.66	170 57	24.22	60.00	406 77	470.00	15.04	20 526		
3,100.00	3,062.90	3,082.98	3,070.09	8.95	7.66	179.57	21.22	-60.08 -61.92	486.77	470.83	15.94	30.536		
3,200.00	3,159.93	3,179.81	3,166.35 3,262.60	9.26	7.84	178.38	10.85		509.62 532.67	493.29 515.95	16.33 16.72	31.210		
3,300.00 3,400.00	3,256.96 3,353.99	3,276.64 3,373.47	3,262.60	9.57 9.88	8.02 8.20	177.30 176.30	0.48 -9.89	-63.77 -65.62	532.67 555.89	515.95 538.78	16.72 17.11	31.862 32.491		
3,500.00	3,451.02	3,470.30	3,455.11	10.20	8.38	175.39	-20.26	-67.47	579.25	561.75	17.11	33.099		
0,000.00	0,401.02	0,470.00	0,400.11	10.20	3.30	110.00	-20.20	-51.41	010.20	551.75	17.50	55.033		
3,600.00	3,548.05	3,567.13	3,551.37	10.51	8.56	174.54	-30.63	-69.31	602.74	584.85	17.89	33.685		
3,700.00	3,645.08	3,663.96	3,647.62	10.83	8.74	173.76	-41.00	-71.16	626.35	608.06	18.29	34.250		
3,800.00	3,742.11	3,760.79	3,743.87	11.15	8.92	173.04	-51.37	-73.01	650.06	631.37	18.68	34.794		
3,900.00	3,839.14	3,857.61	3,840.13	11.47	9.09	172.36	-61.74	-74.85	673.86	654.78	19.08	35.318		
4,000.00	3,936.17	3,954.44	3,936.38	11.79	9.27	171.73	-72.11	-76.70	697.74	678.27	19.48	35.823		
4 400 00	4.000.00	4.054.05	4.000.04	10.11	6 45	474.45	00.40	70.55	70176	701.00	40.00	00.040		
4,100.00	4,033.20	4,051.27	4,032.64	12.11	9.45	171.15	-82.48	-78.55	721.70	701.83	19.88	36.310		
4,200.00	4,130.23	4,148.10	4,128.89	12.43	9.63	170.60	-92.85	-80.39	745.73	725.45	20.28	36.779		
4,300.00	4,227.26	4,244.93	4,225.15	12.76	9.81	170.08	-103.22 -113.50	-82.24	769.82 793.96	749.14	20.68	37.231 37.667		
4,400.00	4,324.29	4,341.76	4,321.40	13.08 13.40	9.99	169.60	-113.59 -123.96	-84.09 -85.94	793.96 818.15	772.88 796.67	21.08	37.667		
4,500.00	4,421.32	4,438.59	4,417.65	13.40	10.17	169.14	-123.96	-00.94	010.10	796.67	21.48	38.088		
4,600.00	4,518.35	4,535.42	4,513.91	13.73	10.35	168.71	-134.33	-87.78	842.39	820.51	21.88	38.493		
4,700.00	4,615.38	4,632.25	4,610.16	14.06	10.53	168.31	-144.70	-89.63	866.67	844.38	22.29	38.885		
4,800.00	4,712.41	4,729.08	4,706.42	14.38	10.71	167.92	-155.07	-91.48	890.99	868.30	22.69	39.262		
4,900.00	4,809.44	4,825.90	4,802.67	14.71	10.89	167.56	-165.44	-93.32	915.35	892.25	23.10	39.627		
5,000.00	4,906.47	4,922.73	4,898.93	15.04	11.07	167.22	-175.81	-95.17	939.74	916.23	23.51	39.979		
5,100.00	5,003.50	5,019.56	4,995.18	15.36	11.24	166.89	-186.18	-97.02	964.16	940.24	23.91	40.320		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83)

Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

.Total Directional Production DB Database:

	Wellbore Design:	OH Plan #	2				Offset TV	 'D Referend	e:		eference Da	nal Product Itum		
ffset De	sign: ^{Junio}	or Mint Fed	Pad - Ju	nior Mint Fe	ed 216H - 0	OH - Plan #2							Offset Site Error:	0.00 us
_	0	MMD : LIDOM :	CAC - EDID /	· 5\										
urvey Prog Refe	ram: 0- rence	HWD+HRGM+ Off			Major Axis		Offset Wellb	ore Centre	Dis	Rule Assi	gned:		Offset Well Error:	0.50 us
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,200.00	5,100.53	5,116.39	5,091.43	15.69	11.42	166.58	-196.55	-98.86	988.60	964.28	24.32	40.649		
5,300.00	5,197.56	5,213.22	5,187.69	16.02	11.60	166.28	-206.92	-100.71	1,013.08	988.35	24.73	40.967		
5,400.00	5,294.59	5,310.05	5,283.94	16.35	11.78	166.00	-217.29	-102.56	1,037.57	1,012.44	25.14	41.275		
5,500.00	5,391.62	5,406.88	5,380.20 5,476.45	16.68	11.96	165.73	-227.66	-104.41	1,062.10	1,036.55	25.55	41.573		
5,600.00 5,700.00	5,488.65 5,585.68	5,503.71 5,600.54	5,476.45	17.01 17.34	12.14 12.32	165.47 165.23	-238.03 -248.40	-106.25 -108.10	1,086.64 1,111.20	1,060.68 1,084.83	25.96 26.37	41.862 42.141		
5,800.00	5,682.71	5,697.37	5,668.96	17.67	12.50	164.99	-258.77	-109.95	1,135.78	1,109.00	26.78	42.412		
5,900.00	5,779.92	5,794.36	5,765.38	17.97	12.68	164.83	-269.16	-111.80	1,159.67	1,132.49	27.17	42.676		
6,000.00	5,877.69	5,891.88	5,862.32	18.27	12.86	164.66	-279.60	-113.66	1,181.19	1,153.60	27.59	42.811		
6,100.00	5,975.98	5,989.87	5,959.73	18.54	13.04	164.45	-290.10	-115.53	1,200.26	1,172.26	28.00	42.863		
6,200.00	6,074.72	6,088.26	6,057.54	18.77	13.22	164.21	-300.64	-117.40	1,216.88	1,188.47	28.41	42.837		
6,300.00	6,173.83	6,187.00	6,155.68	18.98	13.40	163.94	-311.21	-119.29	1,231.05	1,202.25	28.80	42.738		
6,400.00	6,273.26	6,286.00	6,254.10	19.16	13.59	163.62	-321.81	-121.17	1,242.78	1,213.58	29.19	42.571		
6,500.00	6,372.94	6,385.21	6,352.72	19.31	13.77	163.28	-332.44	-123.07	1,252.05	1,222.48	29.57	42.340		
6,600.00	6,472.79	6,484.55	6,451.47	19.42	13.96	162.89	-343.08	-124.96	1,258.89	1,228.96	29.94	42.052		
6,700.00	6,572.74	6,583.96	6,550.29	19.52	14.14	162.46	-353.73	-126.86	1,263.31	1,233.02	30.28	41.717		
6,800.00	6,672.74	6,687.40	6,653.19	19.54	14.32	-89.72	-364.16	-128.72	1,265.43	1,234.93	30.51	41.481		
6,900.00	6,772.74	6,793.22	6,758.69	19.58	14.52	-90.08	-372.12	-130.13	1,266.76	1,236.04	30.72	41.231		
7,000.00	6,872.74	6,899.40	6,864.75	19.62	14.70	-90.31	-377.22	-131.04	1,267.64	1,236.72	30.91	41.004		
7,100.00	6,972.74	7,005.80	6,971.11	19.66	14.86	-90.41	-379.42	-131.43	1,268.02	1,236.95	31.07	40.811		
7,200.00	7,072.74	7,107.42	7,072.74	19.70	14.88	-90.41	-379.51	-131.45	1,268.03	1,236.92	31.12	40.751		
7,300.00	7,172.74	7,207.42	7,172.74	19.74	14.90	-90.41	-379.51	-131.45	1,268.03	1,236.86	31.18	40.673		
7,400.00	7,272.74	7,307.42	7,272.74	19.77	14.93	-90.41	-379.51	-131.45	1,268.03	1,236.80	31.24	40.594		
7,500.00	7,372.74	7,407.42	7,372.74	19.81	14.96	-90.41	-379.51	-131.45	1,268.03	1,236.73	31.30	40.515		
7,600.00	7,472.74	7,507.42	7,472.74	19.85	14.98	-90.41	-379.51	-131.45	1,268.03	1,236.67	31.36	40.435		
7,700.00	7,572.74	7,607.42	7,572.74	19.89	15.01	-90.41	-379.51	-131.45	1,268.03	1,236.61	31.42	40.354		
7,800.00	7,672.74	7,707.42	7,672.74	19.93	15.04	-90.41	-379.51	-131.45	1,268.03	1,236.55	31.49	40.272		
7,900.00	7,772.74	7,807.42	7,772.74	19.97	15.06	-90.41	-379.51	-131.45	1,268.03	1,236.48	31.55	40.190		
8,000.00	7,872.74	7,907.42	7,872.74	20.01	15.09	-90.41	-379.51	-131.45	1,268.03	1,236.42	31.62	40.108		
8,100.00	7,972.74	8,007.42	7,972.74	20.05	15.12	-90.41	-379.51	-131.45	1,268.03	1,236.35	31.68	40.025		
8,200.00	8,072.74	8,107.42	8,072.74	20.10	15.15	-90.41	-379.51	-131.45	1,268.03	1,236.29	31.75	39.941		
8,300.00	8,172.74	8,207.42	8,172.74	20.14	15.18	-90.41	-379.51	-131.45	1,268.03	1,236.22	31.81	39.857		
8,400.00	8,272.74	8,307.42	8,272.74	20.14	15.16	-90.41	-379.51	-131.45	1,268.03	1,236.15	31.88	39.772		
8,500.00	8,372.74	8,407.42	8,372.74	20.10	15.24	-90.41	-379.51	-131.45	1,268.03	1,236.08	31.95	39.687		
8,600.00	8,472.74	8,507.42	8,472.74	20.26	15.27	-90.41	-379.51	-131.45	1,268.03	1,236.01	32.02	39.601		
8,700.00	8,572.74	8,607.42	8,572.74	20.30	15.30	-90.41	-379.51	-131.45	1,268.03	1,235.94	32.09	39.515		
	0.070.74	0.707.40	0.070.74	00.05	45.00	00.44	070.54	101.15	4 000 00	4 005 07	00.40	00.400		
8,800.00	8,672.74	8,707.42	8,672.74	20.35	15.33	-90.41	-379.51	-131.45	1,268.03	1,235.87	32.16	39.428		
8,900.00	8,772.74	8,807.42	8,772.74	20.39	15.36	-90.41	-379.51	-131.45	1,268.03	1,235.80	32.23	39.341		
9,000.00	8,872.74 8,972.74	8,907.42 9,007.42	8,872.74 8,972.74	20.43 20.48	15.40 15.43	-90.41 -90.41	-379.51 -379.51	-131.45 -131.45	1,268.03 1,268.03	1,235.73 1,235.66	32.30 32.38	39.253 39.165		
9,200.00	9,072.74	9,007.42	9,072.74	20.48	15.43	-90.41 -90.41	-379.51	-131.45	1,268.03	1,235.56	32.38	39.165		
	-,							*****	,	,				
9,300.00	9,172.74	9,207.42	9,172.74	20.56	15.49	-90.41	-379.51	-131.45	1,268.03	1,235.51	32.52	38.988		
9,400.00	9,272.74	9,307.42	9,272.74	20.61	15.53	-90.41	-379.51	-131.45	1,268.03	1,235.43	32.60	38.899		
9,500.00	9,372.74	9,407.42	9,372.74	20.65	15.56	-90.41	-379.51	-131.45	1,268.03	1,235.36	32.67	38.810		
9,600.00 9,700.00	9,472.74 9,572.74	9,507.42 9,607.42	9,472.74 9,572.74	20.70 20.74	15.60 15.63	-90.41 -90.41	-379.51 -379.51	-131.45 -131.45	1,268.03 1,268.03	1,235.28 1,235.21	32.75 32.83	38.720 38.629		
5,100.00	0,012.14	0,007.42	0,012.14	20.14	10.00	-ou.+1	-518.51	-131.43	1,200.03	1,200.21	32.03	50.028		
9,800.00	9,672.74	9,707.42	9,672.74	20.79	15.67	-90.41	-379.51	-131.45	1,268.03	1,235.13	32.90	38.539		
9,900.00	9,772.74	9,807.42	9,772.74	20.83	15.70	-90.41	-379.51	-131.45	1,268.03	1,235.05	32.98	38.448		
10,000.00	9,872.74	9,907.42	9,872.74	20.88	15.74	-90.41	-379.51	-131.45	1,268.03	1,234.97	33.06	38.357		
10,100.00	9,972.74	10,007.42	9,972.74	20.92	15.77	-90.41	-379.51	-131.45	1,268.03	1,234.89	33.14	38.265		
10,200.00	10,072.74	10,107.42	10,072.74	20.97	15.81	-90.41	-379.51	-131.45	1,268.03	1,234.82	33.22	38.174		
10,300.00	10,172.74	10 207 42	10,172.74	21.01	15.85	-90.41	-379.51	-131.45	1,268.03	1,234.74	33.30	38.082		

Anticollision Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)

Reference Site: Junior Mint Fed Pad

Site Error: 0.00 usft

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 us Reference Wellbore OH

r: 0.50 usft

Reference Design: Plan #2

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

MD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

	Design:													
Offset De	sign: Junio	or Mint Fed	l Pad - Jur	nior Mint Fe	d 216H - (OH - Plan #2							or .o	0.00
_		###D . LIDOM	040.5000	5)									Offset Site Error:	0.00 u
rvey Prog Refe	ram: U-N erence		+SAG+FDIR (ı İ set		Major Axis		Offset Wellbe	ore Centre	Dist	Rule Assi	gned:		Offset Well Error:	0.50 u
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S	. =	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	(usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
10,400.00	10,272.74	10,307.42	10,272.74	21.06	15.88	-90.41	-379.51	-131.45	1,268.03	1,234.65	33.38	37.989		
10,500.00	10,372.74	10,407.42	10,372.74	21.11	15.92	-90.41	-379.51	-131.45	1,268.03	1,234.57	33.46	37.897		
10,600.00	10,472.74	10,507.42	10,472.74	21.15	15.96	-90.41	-379.51	-131.45	1,268.03	1,234.49	33.54	37.804		
10,700.00	10,572.74	10,607.42	10,572.74	21.20	16.00	-90.41	-379.51	-131.45	1,268.03	1,234.41	33.62	37.711		
10,800.00	10,672.74	10,707.42	10,672.74	21.25	16.03	-90.41	-379.51	-131.45	1,268.03	1,234.32	33.71	37.618		
10,900.00	10,772.74	10,807.42	10,772.74	21.29	16.07	-90.41	-379.51	-131.45	1,268.03	1,234.24	33.79	37.524		
11,000.00	10,872.74	10,907.42	10,872.74	21.34	16.11	-90.41	-379.51	-131.45	1,268.03	1,234.16	33.88	37.431		
11,100.00	10,972.74	11,007.42	10,972.74	21.39	16.15	-90.41	-379.51	-131.45	1,268.03	1,234.07	33.96	37.337		
11,200.00	11,072.74	11,107.42	11,072.74	21.44	16.19	-90.41	-379.51	-131.45	1,268.03	1,233.99	34.05	37.243		
11,300.00	11,172.74	11,207.42	11,172.74	21.49	16.23	-90.41	-379.51	-131.45	1,268.03	1,233.90	34.13	37.149		
11,400.00	11,272.74	11,307.42	11,272.74	21.53	16.27	-90.41	-379.51	-131.45	1,268.03	1,233.81	34.22	37.055		
11 500 00	14 070 74	11 107 10	11 270 74	04.50	10.01	00.44	270 54	104.45	4 000 00	4 000 70	04.04	20.004		
11,500.00 11,600.00	11,372.74 11,472.74	11,407.42 11,507.42	11,372.74 11,472.74	21.58 21.63	16.31 16.35	-90.41 -90.41	-379.51 -379.51	-131.45 -131.45	1,268.03 1,268.03	1,233.73 1,233.64	34.31 34.40	36.961 36.866		
11,700.00	11,472.74	11,607.42	11,472.74	21.68	16.39	-90.41 -90.41	-379.51	-131.45	1,268.03	1,233.55	34.48	36.772		
11,800.00	11,672.74	11,707.42	11,672.74	21.73	16.43	-90.41	-379.51	-131.45	1,268.03	1,233.46	34.57	36.677		
11,900.00	11,772.74	11,807.42	11,772.74	21.78	16.48	-90.41	-379.51	-131.45	1,268.03	1,233.37	34.66	36.583		
11,900.44	11,773.18	11,807.86	11,773.18	21.78	16.48	90.11	-379.51	-131.45	1,268.03	1,233.37	34.66	36.582		
12,000.00	11,872.61	11,907.46	11,872.78	21.84	16.53	90.26	-379.76	-131.45	1,268.04	1,233.33	34.71	36.531		
12,100.00	11,970.52	12,008.86	11,973.35	21.99	16.77	90.62	-391.65	-131.34	1,268.11	1,233.23	34.88	36.359		
12,200.00 12,300.00	12,063.53	12,111.74	12,071.62	22.19	17.05 17.34	90.97	-421.63 460.44	-131.07	1,268.21	1,232.97	35.24	35.983		
12,300.00	12,148.80	12,216.07	12,164.17	22.45	17.34	91.29	-469.44	-130.63	1,268.35	1,232.51	35.84	35.389		
12,400.00	12,223.74	12,321.73	12,247.53	22.78	17.62	91.57	-534.14	-130.04	1,268.51	1,231.81	36.69	34.571		
12,500.00	12,286.09	12,428.59	12,318.30	23.20	17.86	91.80	-613.99	-129.32	1,268.66	1,230.84	37.82	33.544		
12,600.00	12,333.93	12,536.41	12,373.46	23.71	18.41	91.98	-706.45	-128.48	1,268.78	1,229.56	39.22	32.347		
12,700.00	12,365.83	12,644.92	12,410.52	24.31	19.42	92.08	-808.26	-127.55	1,268.87	1,227.99	40.88	31.040		
12,800.00	12,380.81	12,753.80	12,427.77	24.99	20.53	92.13	-915.59	-126.58	1,268.90	1,226.17	42.73	29.698		
12,900.00	12,382.30	12,856.58	12,429.31	25.74	21.63	92.12	-1,018.34	-125.64	1,268.90	1,224.29	44.61	28.442		
13,000.00	12,382.83	12,050.50	12,429.84	26.54	22.74	92.12	-1,118.33	-124.73	1,268.90	1,222.35	46.55	27.257		
13,100.00	12,383.35	13,056.58	12,430.36	27.39	23.87	92.12	-1,218.33	-123.83	1,268.90	1,220.33	48.57	26.126		
13,200.00	12,383.88	13,156.58	12,430.89	28.28	25.03	92.12	-1,318.32	-122.92	1,268.90	1,218.25	50.65	25.052		
13,300.00	12,384.40	13,256.58	12,431.41	29.20	26.21	92.12	-1,418.32	-122.01	1,268.90	1,216.11	52.79	24.036		
13,400.00	12,384.93	13,356.58	12,431.94	30.16	27.41	92.12	-1,518.31	-121.10	1,268.90	1,213.91	54.98	23.078		
13,500.00	12,385.46	13,456.58	12,432.46	31.14	28.62	92.12	-1,618.31	-120.19	1,268.90	1,211.67	57.22	22.175		
13,600.00 13,700.00	12,385.98 12,386.51	13,556.58 13,656.58	12,432.99 12,433.51	32.15 33.18	29.84 31.08	92.12 92.12	-1,718.30 -1,818.30	-119.28 -118.37	1,268.90 1,268.90	1,209.39 1,207.08	59.50 61.82	21.325 20.526		
13,700.00	12,386.51	13,756.58	12,433.51	33.18	31.08	92.12	-1,818.30	-118.37	1,268.90	1,207.08	64.17	19.774		
. 0,000.00	12,001.00	10,700.00	12,704.04	54.25	02.00	UZ. 1Z	-1,010.20	-117.40	1,200.00	1,204.10	J4.17	15.774		
13,900.00	12,387.56	13,856.58	12,434.56	35.31	33.59	92.12	-2,018.28	-116.55	1,268.90	1,202.35	66.55	19.067		
14,000.00	12,388.09	13,956.58	12,435.09	36.40	34.85	92.12	-2,118.28	-115.65	1,268.90	1,199.94	68.96	18.402		
14,100.00	12,388.61	14,056.58	12,435.61	37.51	36.12	92.12	-2,218.27	-114.74	1,268.89	1,197.51	71.39	17.775		
	12,389.14	14,156.58		38.63	37.40	92.12	-2,318.27	-113.83	1,268.89	1,195.06	73.84	17.185		
14,300.00	12,389.66	14,256.58	12,436.66	39.77	38.69	92.12	-2,418.26	-112.92	1,268.89	1,192.59	76.31	16.629		
14,400.00	12,390.19	14,356.58	12,437.19	40.92	39.98	92.12	-2,518.26	-112.01	1,268.89	1,190.10	78.79	16.104		
14,500.00	12,390.71	14,456.58	12,437.19	42.08	41.28	92.12	-2,618.25	-111.10	1,268.89	1,187.59	81.30	15.608		
14,600.00	12,391.24	14,556.58	12,438.24	43.26	42.58	92.12	-2,718.25	-110.19	1,268.89	1,185.07	83.82	15.139		
14,700.00	12,391.77	14,656.58	12,438.76	44.44	43.89	92.12	-2,818.24	-109.28	1,268.89	1,182.54	86.35	14.695		
14,800.00	12,392.29	14,756.58	12,439.29	45.64	45.19	92.12	-2,918.24	-108.38	1,268.89	1,180.00	88.89	14.274		
14,900.00	12,392.82	14,856.58	12,439.81	46.84	46.51	92.12	-3,018.23	-107.47	1,268.89	1,177.44	91.45	13.875		
15,000.00	12,393.34	14,956.58	12,440.34	48.05	47.82	92.12	-3,118.22	-106.56	1,268.89	1,174.88	94.02	13.497		
15,100.00 15,200.00	12,393.87 12,394.40	15,056.58 15,156.58	12,440.86 12,441.39	49.27 50.50	49.14 50.46	92.12 92.12	-3,218.22 -3,318.21	-105.65 -104.74	1,268.89 1,268.89	1,172.30 1,169.72	96.59 99.17	13.137 12.795		
15,300.00	12,394.40	15,156.56	12,441.91	51.73	51.79	92.12	-3,418.21	-104.74	1,268.89	1,169.72	101.77	12.795		
. 5,550.00	12,004.02	10,200.00	14,771.01	51.75	01.70	UZ. 1Z	-0,710.21	-100.00	1,200.00	1,101.12	101.77	12.700		
15.400.00	12,395.45	15,356.58	12,442.44	52.97	53.11	92.12	-3,518.20	-102.92	1,268.89	1,164.52	104.37	12.158		

Anticollision Report

TVD Reference:

MD Reference:

North Reference:

Local Co-ordinate Reference:

Survey Calculation Method:



Civitas Resources Company:

Project: Lea County, NM (NAD 83)

Junior Mint Fed Pad Reference Site: Site Error:

Well Error: 0.50 usft Reference Wellbore

Reference Design:

0.00 usft Reference Well: Junior Mint Fed 218H

> Output errors are at ОН Plan #2

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

Well Junior Mint Fed 218H

Minimum Curvature

2.00 sigma

GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB)

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 216H - OH - Plan #2

Offset Site Error: 0.00 usft

	Jigii.												Offset Site Error:	0.00 us
Survey Prog	ram: 0-N	иWD+HRGM+	+SAG+FDIR (rev.5)						Rule Assig	gned:		Offset Well Error:	0.50 us
Refe Measured	rence	Off Measured	set Vortical		flajor Axis Offset	Highside	Offset Wellbo	ore Centre		ance	Minimum	Sonaration	Warning	
Depth	Vertical Depth	Depth	Vertical Depth	Reference	Oliset	Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	i dotoi		
15,500.00	12,395.97	15,456.58	12,442.96	54.21	54.44	92.12	-3,618.20	-102.01	1,268.89	1,161.92	106.97	11.862		
15,600.00	12,396.50	15,556.58	12,443.49	55.47	55.77	92.12	-3,718.19	-101.10	1,268.89	1,159.30	109.58	11.579		
15,700.00	12,397.03	15,656.58	12,444.01	56.72	57.10	92.12	-3,818.19	-100.20	1,268.89	1,156.68	112.20	11.309		
15,800.00	12,397.55	15,756.58	12,444.54	57.98	58.44	92.12	-3,918.18	-99.29	1,268.89	1,154.06	114.83	11.050		
15,900.00	12,398.08	15,856.58	12,445.06	59.25	59.77	92.12	-4,018.17	-98.38	1,268.89	1,151.43	117.46	10.803		
16,000.00	12,398.60	15,956.58	12,445.59	60.52	61.11	92.12	-4,118.17	-97.47	1,268.89	1,148.80	120.09	10.566		
,	,	,	,		*****		.,		.,	.,				
16,100.00	12,399.13	16,056.58	12,446.11	61.79	62.45	92.12	-4,218.16	-96.56	1,268.89	1,146.16	122.73	10.339		
16,200.00	12,399.65	16,156.58	12,446.64	63.07	63.79	92.12	-4,318.16	-95.65	1,268.89	1,143.51	125.37	10.121		
16,300.00	12,400.18	16,256.58	12,447.16	64.35	65.13	92.12	-4,418.15	-94.74	1,268.89	1,140.87	128.02	9.912		
16,400.00	12,400.71	16,356.58	12,447.69	65.63	66.47	92.12	-4,518.15	-93.83	1,268.89	1,138.21	130.67	9.710		
16,500.00	12,401.23	16,456.58	12,448.21	66.92	67.81	92.12	-4,618.14	-92.92	1,268.89	1,135.56	133.33	9.517		
16,600.00	12,401.76	16,556.58	12,448.74	68.21	69.16	92.12	-4,718.14	-92.02	1,268.89	1,132.90	135.98	9.331		
16,700.00	12,402.28	16,656.58	12,449.26	69.51	70.50	92.12	-4,818.13	-91.11	1,268.88	1,130.24	138.64	9.152		
16,800.00	12,402.81	16,756.58	12,449.79	70.80	71.85	92.12	-4,918.13	-90.20	1,268.88	1,127.58	141.31	8.980		
16,900.00	12,403.34	16,856.58	12,450.31	72.10	73.20	92.12	-5,018.12	-89.29	1,268.88	1,124.91	143.97	8.813		
17,000.00	12,403.86	16,956.58	12,450.84	73.40	74.55	92.12	-5,118.11	-88.38	1,268.88	1,122.24	146.64	8.653		
17,100.00	12,404.39	17,056.58	12,451.36	74.71	75.89	92.12	-5,218.11	-87.47	1,268.88	1,119.57	149.32	8.498		
17,200.00	12,404.91	17,156.58	12,451.89	76.01	77.24	92.12	-5,318.10	-86.56	1,268.88	1,116.89	151.99	8.348		
17,300.00	12,405.44	17,256.58	12,452.41	77.32	78.59	92.12	-5,418.10	-85.65	1,268.88	1,114.22	154.67	8.204		
17,400.00	12,405.96	17,356.58	12,452.94	78.63	79.94	92.12	-5,518.09	-84.74	1,268.88	1,111.54	157.34	8.064		
17,500.00	12,406.49	17,456.58	12,453.47	79.94	81.30	92.12	-5,618.09	-83.84	1,268.88	1,108.86	160.02	7.929		
17 000 00	10 107 00	47.550.50	10 150 00	04.00	00.05	00.40	5.740.00	00.00	4 000 00	4 400 47	100.71	7.700		
17,600.00	12,407.02	17,556.58	12,453.99	81.26	82.65	92.12	-5,718.08	-82.93	1,268.88	1,106.17	162.71	7.799		
17,700.00	12,407.54	17,656.58	12,454.52	82.57	84.00	92.12	-5,818.08	-82.02	1,268.88	1,103.49	165.39	7.672		
17,800.00	12,408.07	17,756.58	12,455.04	83.89	85.35	92.12	-5,918.07	-81.11	1,268.88	1,100.80	168.08	7.549		
17,900.00	12,408.59	17,856.58	12,455.57	85.21	86.71	92.12	-6,018.06	-80.20	1,268.88	1,098.12	170.76	7.431		
18,000.00	12,409.12	17,956.58	12,456.09	86.53	88.06	92.12	-6,118.06	-79.29	1,268.88	1,095.43	173.45	7.315		
18,100.00	12,409.65	18,056.58	12,456.62	87.85	89.42	92.12	-6,218.05	-78.38	1,268.88	1,092.74	176.14	7.204		
18,200.00	12,410.17	18,156.58	12,450.02	89.18	90.77	92.12	-6,318.05	-77.47	1,268.88	1,092.74	178.84	7.204		
18,300.00			12,457.14	90.50		92.12								
	12,410.70	18,256.58			92.13		-6,418.04	-76.56	1,268.88	1,087.35	181.53	6.990		
18,400.00	12,411.22	18,356.58	12,458.19	91.83	93.48	92.12	-6,518.04	-75.66	1,268.88	1,084.65	184.22	6.888		
18,500.00	12,411.75	18,456.58	12,458.72	93.15	94.84	92.12	-6,618.03	-74.75	1,268.88	1,081.96	186.92	6.788		
18,600.00	12,412.27	18,556.58	12,459.24	94.48	96.19	92.12	-6,718.03	-73.84	1,268.88	1,079.26	189.62	6.692		
18,700.00	12,412.80	18,656.58	12,459.77	95.81	97.55	92.12	-6,818.02	-72.93	1,268.88	1,076.56	192.32	6.598		
18,800.00	12,413.33	18,756.58	12,460.29	97.14	98.91	92.12	-6,918.01	-72.02	1,268.88	1,073.86	195.01	6.507		
18,900.00	12,413.85	18,856.58	12,460.82	98.47	100.27	92.12	-7,018.01	-71.11	1,268.88	1,071.16	197.72	6.418		
19,000.00	12,414.38	18,956.58	12,461.34	99.81	101.62	92.12	-7,010.01	-70.20	1,268.88	1,068.46	200.42	6.331		
. 0,000.00	, . 14.00	.0,000.00	, .51.04	55.51	.01.02	UZ. 12	.,.10.00	. 0.20	.,200.00	.,550.70	200.72	3.001		
19,100.00	12,414.90	19,056.58	12,461.87	101.14	102.98	92.12	-7,218.00	-69.29	1,268.88	1,065.76	203.12	6.247		
19,200.00	12,415.43	19,156.58	12,462.39	102.47	104.34	92.12	-7,317.99	-68.38	1,268.88	1,063.05	205.82	6.165		
19,300.00	12,415.96	19,256.58	12,462.92	103.81	105.70	92.12	-7,417.99	-67.48	1,268.87	1,060.35	208.53	6.085		
19,400.00	12,416.48	19,356.58	12,463.44	105.15	107.06	92.12	-7,517.98	-66.57	1,268.87	1,057.64	211.23	6.007		
19,500.00	12,417.01	19,456.58	12,463.97	106.48	108.42	92.12	-7,617.98	-65.66	1,268.87	1,054.94	213.94	5.931		
19,600.00	12,417.53	19,556.58	12,464.49	107.82	109.78	92.12	-7,717.97	-64.75	1,268.87	1,052.23	216.64	5.857		
19,700.00	12,418.06	19,656.58	12,465.02	109.16	111.14	92.12	-7,817.97	-63.84	1,268.87	1,049.52	219.35	5.785		
19,800.00	12,418.59	19,756.58	12,465.54	110.50	112.50	92.12	-7,917.96	-62.93	1,268.87	1,046.81	222.06	5.714		
19,900.00	12,419.11	19,856.58	12,466.07	111.84	113.86	92.12	-8,017.95	-62.02	1,268.87	1,044.10	224.77	5.645		
20,000.00	12,419.64	19,956.58	12,466.59	113.18	115.22	92.12	-8,117.95	-61.11	1,268.87	1,041.39	227.48	5.578		
20,100.00	12,420.16	20,056.58	12,467.12	114.52	116.58	92.12	-8,217.94	-60.21	1,268.87	1,038.68	230.19	5.512		
20,200.00	12,420.69	20,156.58	12,467.64	115.86	117.94	92.12	-8,317.94	-59.30	1,268.87	1,035.97	232.90	5.448		
20,300.00	12,421.21	20,256.58	12,468.17	117.20	119.30	92.12	-8,417.93	-58.39	1,268.87	1,033.26	235.61	5.385		
20,400.00	12,421.74	20,356.58	12,468.69	118.55	120.66	92.12	-8,517.93	-57.48	1,268.87	1,030.55	238.32	5.324		
20,500.00	12,422.27	20,456.58	12,469.22	119.89	122.02	92.12	-8,617.92	-56.57	1,268.87	1,027.83	241.04	5.264		
20 600 00	12,422.79	20,556.58	12,469.74	121.24	123.39	92.12	-8,717.92	-55.66	1,268.87	1,025.12	243.75	5.206		

Anticollision Report

TVD Reference:

MD Reference:

North Reference:

Local Co-ordinate Reference:



Civitas Resources Company: Project: Lea County, NM (NAD 83)

Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Well Error: 0.50 usft Reference Wellbore ОН

Reference Design:

Reference Well: Junior Mint Fed 218H

Plan #2

Minimum Curvature **Survey Calculation Method:** Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Well Junior Mint Fed 218H

GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB)

Offset TVD Reference: Reference Datum

Survey Prog		MWD+HRGM+								Rule Assig	gned:		Offset Well Error:	0.50 us
Refe Measured Depth (usft)	rence Vertical Depth (usft)	Off Measured Depth (usft)	set Vertical Depth (usft)	Semi M Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbo +N/-S (usft)	+E/-W (usft)	Dis Between Centres (usft)	tance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
20,700.00	12,423.32	20,656.58	12,470.27	122.58	124.75	92.12	-8,817.91	-54.75	1,268.87	1,022.41	246.46	5.148		
20,800.00	12,423.84	20.756.58	12,470.79	123.93	126.11	92.12	-8,917.90	-53.84	1.268.87	1,019.69	249.18	5.092		
20,900.00	12,424.37	20,856.58	12,471.32	125.27	127.47	92.12	-9,017.90	-52.93	1,268.87	1,016.98	251.89	5.037		
21,000.00	12,424.90	20,956.58	12,471.84	126.62	128.83	92.12	-9,117.89	-52.03	1,268.87	1,014.26	254.61	4.984		
21,100.00	12,425.42	21,056.58	12,472.37	127.97	130.20	92.12	-9,217.89	-51.12	1,268.87	1,011.54	257.32	4.931		
21,200.00	12,425.95	21,156.58	12,472.89	129.31	131.56	92.12	-9,317.88	-50.21	1,268.87	1,008.83	260.04	4.880		
21,300.00	12,426.47	21,256.58	12,473.42	130.66	132.92	92.12	-9,417.88	-49.30	1,268.87	1,006.11	262.76	4.829		
21,400.00	12,427.00	21,356.58	12,473.94	132.01	134.29	92.12	-9,517.87	-48.39	1,268.87	1,003.39	265.47	4.780		
21,500.00	12,427.52	21,456.58	12,474.47	133.36	135.65	92.12	-9,617.87	-47.48	1,268.87	1,000.67	268.19	4.731		
21,600.00	12,428.05	21,556.58	12,474.99	134.71	137.01	92.12	-9,717.86	-46.57	1,268.87	997.96	270.91	4.684		
21,700.00	12,428.58	21,656.58	12,475.52	136.06	138.38	92.12	-9,817.86	-45.66	1,268.87	995.24	273.63	4.637		
21,800.00	12,429.10	21,756.58	12,476.04	137.41	139.74	92.12	-9,917.85	-44.75	1,268.87	992.52	276.35	4.592		
21,900.00	12,429.63	21,856.58	12,476.57	138.76	141.10	92.12	-10,017.84	-43.85	1,268.86	989.80	279.07	4.547		
22,000.00	12,430.15	21,956.58	12,477.09	140.11	142.47	92.12	-10,117.84	-42.94	1,268.86	987.08	281.79	4.503		
22,100.00	12,430.68	22,056.58	12,477.62	141.46	143.83	92.12	-10,217.83	-42.03	1,268.86	984.36	284.51	4.460		
22,200.00	12,431.21	22,156.58	12,478.14	142.81	145.19	92.12	-10,317.83	-41.12	1,268.86	981.64	287.23	4.418		
22,300.00	12,431.73	22,256.58	12,478.67	144.16	146.56	92.12	-10,417.82	-40.21	1,268.86	978.92	289.95	4.376		
22,400.00	12,432.26	22,356.58	12,479.19	145.51	147.92	92.12	-10,517.82	-39.30	1,268.86	976.20	292.67	4.336		
22,500.00	12,432.78	22,456.58	12,479.72	146.87	149.29	92.12	-10,617.81	-38.39	1,268.86	973.47	295.39	4.296		
22,600.00	12,433.31	22,556.58	12,480.24	148.22	150.65	92.12	-10,717.81	-37.48	1,268.86	970.75	298.11	4.256		
22,700.00	12,433.83	22,656.58	12,480.77	149.57	152.01	92.12	-10,817.80	-36.57	1,268.86	968.03	300.83	4.218		
22,761.09	12,434.16	22,717.67	12,481.09	150.43	152.82	92.12	-10,878.88	-36.02	1,268.86	966.40	302.47	4.195		
22,770.20	12,434.20	22,719.79	12,481.10	150.56	152.85	92.12	-10,881.00	-36.00	1,268.88	966.34	302.54	4.194	SF	

Anticollision Report

TVD Reference:

MD Reference:

North Reference:

Local Co-ordinate Reference:

Survey Calculation Method:



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad

Reference Site: 0.00 usft Site Error:

Well Error: 0.50 usft

Reference Wellbore ОН

Reference Well: Junior Mint Fed 218H

> Output errors are at Database:

.Total Directional Production DB

Well Junior Mint Fed 218H

Minimum Curvature

2.00 sigma

GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB)

eference deference		Plan #	¹ 2				Offset TV	r. /D Referenc	e:		eference Da		CHOIT DB	
	•	ior Mint Fed			ed 223H - (OH - Plan #2				Pulo Acci	anod:		Offset Site Error:	0.00 ust
urvey Progr Refer	rence		set		Major Axis		Offset Wellbe	ore Centre	Dis	Rule Assi tance	gnea:		Offset Well Error:	0.50 us
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	2.00	0.00	0.50	0.50	0.00	235.00	0.00	235.00					
100.00	100.00	102.00	100.00	0.98	0.99	0.00	235.00	0.00	235.00	233.03	1.97	119.100		
200.00	200.00	202.00	200.00	1.56	1.57	0.00	235.00	0.00	235.00	231.87	3.13	75.067		
300.00	300.00	302.00	300.00	1.98	1.99	0.00	235.00	0.00	235.00	231.03	3.97	59.205	CC	
400.00	399.99	401.99	399.99	2.41	2.34	-107.50	235.00	0.00	235.39	230.72	4.67	50.437	ES	
500.00	499.91	501.91	499.91	2.78	2.64	-108.39	235.00	0.00	236.60	231.33	5.28	44.849		
600.00	599.69	601.69	599.69	3.11	2.91	-109.84	235.00	0.00	238.75	232.92	5.83	40.945		
700.00	699.27	701.27	699.27	3.42	3.17	-111.83	235.00	0.00	242.01	235.66	6.35	38.106		
800.00	798.57	800.57	798.57	3.71	3.40	-114.29	235.00	0.00	246.65	239.80	6.85	36.014		
900.00	897.62	899.62	897.62	3.84	3.62	-117.09	235.00	0.00	252.66	245.45	7.22	35.014		
1,000.00	996.65	998.65	996.65	4.07	3.83	-119.81	235.00	0.00	259.34	251.67	7.68	33.780		
	4.00= ==	4 65 5-	1.00= ==			100.55	00		000	055 **		05 5		
1,100.00	1,095.67	1,097.67	1,095.67	4.29	4.03	-122.38	235.00	0.00	266.59	258.46	8.12	32.816		
1,200.00	1,194.70	1,196.70	1,194.70	4.51	4.23	-124.82	235.00	0.00	274.34	265.79	8.56	32.062		
1,300.00	1,293.73	1,295.73	1,293.73	4.73	4.41	-127.13	235.00	0.00	282.57	273.59	8.98	31.473		
1,400.00	1,392.75	1,394.75	1,392.75	4.95	4.59	-129.30	235.00	0.00	291.23	281.84	9.39	31.016		
1,500.00	1,491.78	1,493.78	1,491.78	5.17	4.77	-131.34	235.00	0.00	300.29	290.50	9.79	30.667		
1,600.00	1,590.81	1,592.81	1,590.81	5.38	4.94	-133.26	235.00	0.00	309.71	299.52	10.19	30.404		
1,700.00	1,689.83	1,691.83	1,689.83	5.59	5.10	-135.07	235.00	0.00	319.46	308.88	10.57	30.212		
1,800.00	1,788.86	1,790.86	1,788.86	5.80	5.26	-136.78	235.00	0.00	329.50	318.55	10.95	30.078		
1,900.00	1,887.89	1,889.89	1,887.89	6.01	5.42	-138.38	235.00	0.00	339.82	328.49	11.33	29.993		
2,000.00	1,986.91	1,988.91	1,986.91	6.22	5.42	-130.30	235.00	0.00	350.39	338.69	11.70	29.993		
2,000.00	1,900.91	1,500.51	1,900.91	0.22	5.57	-139.00	233.00	0.00	330.39	330.09	11.70	29.949		
2,100.00	2,085.94	2,089.79	2,087.78	6.43	5.74	-141.49	234.23	-0.72	360.96	348.91	12.05	29.944		
2,200.00	2,184.97	2,190.47	2,188.39	6.64	5.89	-143.40	231.52	-3.23	371.30	358.92	12.38	29.985		
2,300.00	2,283.86	2,290.39	2,288.11	6.84	6.04	-145.92	226.92	-7.52	382.42	369.73	12.69	30.139		
2,400.00	2,382.33	2,389.06	2,386.39	7.08	6.19	-148.77	220.51	-13.49	396.05	383.00	13.04	30.362		
2,500.00	2,480.31	2,486.20	2,482.89	7.32	6.33	-151.83	212.38	-21.05	412.64	399.23	13.40	30.783		
2,600.00	2,577.74	2,581.59	2,577.34	7.57	6.48	-155.02	202.65	-30.10	432.60	418.83	13.77	31.418		
2,700.00	2,674.78	2,675.29	2,669.77	7.79	6.62	-158.23	191.41	-40.56	455.44	441.35	14.09	32.331		
2,800.00	2,771.81	2,767.67	2,760.51	8.06	6.77	-161.36	178.71	-52.37	479.88	465.45	14.43	33.253		
2,900.00	2,868.84	2,860.01	2,850.86	8.35	6.90	-164.40	164.76	-65.36	505.97	491.18	14.78	34.231		
3,000.00	2,965.87	2,952.82	2,941.65	8.65	7.02	-167.19	150.64	-78.50	533.39	518.25	15.14	35.236		
0.400.00	0.000.00	0.045.04	0.000.40	0.05	7.45	100.71	100.51	04.04	504.04	540.44	45.50	00.055		
3,100.00	3,062.90	3,045.64	3,032.43	8.95	7.15	-169.71	136.51	-91.64	561.94	546.44	15.50	36.255		
3,200.00	3,159.93	3,138.45	3,123.22	9.26	7.28	-172.01	122.39	-104.78	591.45	575.59	15.87	37.275		
3,300.00	3,256.96	3,231.26	3,214.01	9.57	7.41	-174.09	108.26	-117.92	621.80	605.56	16.24	38.286		
3,400.00	3,353.99	3,324.08	3,304.79	9.88	7.55	-175.98	94.14	-131.06	652.85	636.23	16.62	39.282		
3,500.00	3,451.02	3,416.89	3,395.58	10.20	7.69	-177.71	80.02	-144.21	684.52	667.52	17.01	40.252		
3 600 00	2 540 05	2 500 70	2 400 27	40.54	7.00	170.20	65.00	157.05	746 70	600.34	47.00	41 200		
3,600.00	3,548.05	3,509.70	3,486.37	10.51	7.86	-179.30	65.89	-157.35	716.73	699.34	17.39	41.209		
3,700.00	3,645.08	3,602.52	3,577.15	10.83	8.05	179.26	51.77	-170.49	749.40	731.61	17.79	42.131		
3,800.00	3,742.11	3,695.33	3,667.94	11.15	8.24	177.92	37.65	-183.63	782.48	764.29	18.19	43.024		
3,900.00	3,839.14	3,788.14	3,758.73	11.47	8.44	176.70	23.52	-196.77	815.91	797.32	18.59	43.887		
4,000.00	3,936.17	3,880.96	3,849.51	11.79	8.65	175.57	9.40	-209.91	849.66	830.66	19.00	44.720		
A 100 00	4 055 50	3 072 77	3 040 30	10 11	9 06	17/1 52	4 70	-223.06	802 60	864.26	10.41	AE E22		
4,100.00	4,033.20	3,973.77	3,940.30	12.11	8.86	174.52	-4.72 -18.85		883.69	864.28	19.41	45.522		
4,200.00	4,130.23	4,066.58	4,031.09	12.43	9.07	173.55	-18.85	-236.20	917.97	898.14	19.83	46.295		
4,300.00	4,227.26	4,159.40	4,121.87	12.76	9.29	172.65	-32.97	-249.34	952.47	932.22	20.25	47.039		
4,400.00	4,324.29	4,252.21	4,212.66	13.08	9.51	171.80	-47.10	-262.48	987.16	966.49	20.67	47.755		
4,500.00	4,421.32	4,345.03	4,303.45	13.40	9.73	171.02	-61.22	-275.62	1,022.04	1,000.94	21.10	48.443		
4,600.00	4,518.35	4,437.84	4,394.23	13.73	9.96	170.29	-75.34	-288.76	1,057.07	1,035.55	21.53	49.104		
4,700.00	4,615.38	4,530.65	4,485.02	14.06	10.18	169.60	-89.47	-301.91	1,092.25	1,070.29	21.96	49.740		
4,800.00	4,712.41	4,623.47	4,575.80	14.38	10.41	168.95	-103.59	-315.05	1,127.56	1,105.17	22.39	50.351		
4,900.00	4,809.44	4,716.28	4,666.59	14.71	10.64	168.35	-117.71	-328.19	1,162.99	1,140.16	22.83	50.938		
5,000.00	4,906.47	4,809.09	4,757.38	15.04	10.88	167.78	-131.84	-341.33	1,198.53	1,175.26	23.27	51.503		
5,100.00	5,003.50	4,901.91	4,848.16	15.26	11 11	167.24	-145.96	-354.47	1 22/1 17	1 210 46	23.71	52.046		
5,100.00	5,003.50	4,901.91	4,048.16	15.36	11.11	101.24	-145.90	-334.47	1,234.17	1,210.46	23.71	52.046		

Anticollision Report



Company: Civitas Resources

Lea County, NM (NAD 83) Project:

Junior Mint Fed Pad Reference Site:

Site Error: 0.00 usft

Well Error: 0.50 usft Reference Wellbore ОН

Junior Mint Fed 218H Reference Well:

Reference Design: Plan #2

Well Junior Mint Fed 218H Local Co-ordinate Reference:

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

.Total Directional Production DB Database:

Offset TVD Reference: Reference Datum

urvey Prog		MWD+HRGM+					06	0	Di-	Rule Assi	gned:		Offset Well Error:	0.50 us
Refe Neasured	rence Vertical	Off Measured	set Vertical	Reference	lajor Axis Offset	Highside	Offset Wellb	ore Centre	Between	tance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,200.00	5,100.53	4,994.72	4,938.95	15.69	11.35	166.73	-160.09	-367.61	1,269.90	1,245.74	24.16	52.568		
5,300.00	5,197.56	5,087.53	5,029.74	16.02	11.59	166.25	-174.21	-380.76	1,305.71	1,281.11	24.60	53.070		
5,400.00	5,294.59	5,180.35	5,120.52	16.35	11.83	165.79	-188.33	-393.90	1,341.60	1,316.55	25.05	53.553		
5,500.00	5,391.62	5,273.16	5,211.31	16.68	12.07	165.36	-202.46	-407.04	1,377.56	1,352.06	25.50	54.018		
5,600.00	5,488.65	5,365.98	5,302.10	17.01	12.32	164.95	-216.58	-420.18	1,413.59	1,387.64	25.95	54.466		
5,700.00	5,585.68	5,458.79	5,392.88	17.34	12.56	164.56	-230.70	-433.32	1,449.68	1,423.27	26.41	54.897		
5,800.00	5,682.71	5,551.60	5,483.67	17.67	12.81	164.19	-244.83	-446.46	1,485.82	1,458.96	26.86	55.312		
5,900.00	5,779.92	5,644.65	5,574.69	17.97	13.06	163.95	-258.99	-459.64	1,521.33	1,494.03	27.30	55.722		
6,000.00	5,877.69	5,738.47	5,666.46	18.27	13.31	163.72	-273.26	-472.92	1,554.61	1,526.85	27.76	55.994		
6,100.00	5,975.98	5,833.02	5,758.94	18.54	13.56	163.47	-287.65	-486.31	1,585.57	1,557.35	28.22	56.183		
6,200.00	6,074.72	5,928.22	5,852.06	18.77	13.82	163.20	-302.14	-499.79	1,614.20	1,585.53	28.67	56.296		
6,300.00	6,173.83	6,024.03	5,945.78	18.98	14.07	162.91	-316.72	-513.36	1,640.50	1,611.39	29.11	56.351		
6,400.00	6,273.26	6,146.28	6,065.56	19.16	14.37	162.50	-334.59	-529.98	1,663.98	1,634.34	29.64	56.141		
6,500.00	6,372.94	6,285.11	6,202.43	19.31	14.70	162.11	-351.60	-545.81	1,682.87	1,652.65	30.22	55.685		
6,600.00	6,472.79	6,426.28	6,342.37	19.42	14.97	161.79	-365.14	-558.41	1,696.91	1,666.16	30.75	55.188		
6,700.00	6,572.74	6,569.16	6,484.61	19.52	15.20	161.54	-374.99	-567.57	1,706.00	1,674.79	31.21	54.662		
6,800.00	6,672.74	6,713.09	6,628.30	19.54	15.38	-90.35	-380.96	-573.13	1,710.29	1,678.79	31.51	54.282		
6,900.00	6,772.74	6,857.45	6,772.63	19.58	15.48	-90.42	-382.97	-575.00	1,711.60	1,679.88	31.71	53.974		
7,000.00	6,872.74	6,957.57	6,872.74	19.62	15.51	-90.42	-382.97	-575.00	1,711.60	1,679.82	31.77	53.867		
7,100.00	6,972.74	7,057.57	6,972.74	19.66	15.55	-90.42	-382.97	-575.00	1,711.60	1,679.74	31.85	53.736		
7,200.00	7,072.74	7,157.57	7,072.74	19.70	15.59	-90.42	-382.97	-575.00	1,711.60	1,679.67	31.93	53.605		
7,300.00	7,172.74	7,257.57	7,172.74	19.74	15.63	-90.42	-382.97	-575.00	1,711.60	1,679.59	32.01	53.473		
7,400.00	7,272.74	7,357.57	7,272.74	19.77	15.67	-90.42	-382.97	-575.00	1,711.60	1,679.51	32.09	53.341		
7,500.00	7,372.74	7,457.57	7,372.74	19.81	15.71	-90.42	-382.97	-575.00	1,711.60	1,679.43	32.17	53.209		
7,600.00	7,472.74	7,557.57	7,472.74	19.85	15.76	-90.42	-382.97	-575.00	1,711.60	1,679.35	32.25	53.076		
7,700.00	7,572.74	7,657.57	7,572.74	19.89	15.80	-90.42	-382.97	-575.00	1,711.60	1,679.27	32.33	52.943		
7,800.00	7,672.74	7,757.57	7,672.74	19.93	15.84	-90.42	-382.97	-575.00	1,711.60	1,679.19	32.41	52.810		
7,900.00	7,772.74	7,857.57	7,772.74	19.97	15.88	-90.42	-382.97	-575.00	1,711.60	1,679.10	32.49	52.676		
8,000.00	7,872.74	7,957.57	7,872.74	20.01	15.93	-90.42	-382.97	-575.00	1,711.60	1,679.02	32.58	52.542		
8,100.00	7,972.74	8,057.57	7,972.74	20.05	15.97	-90.42	-382.97	-575.00	1,711.60	1,678.94	32.66	52.407		
8,200.00	8,072.74	8,157.57	8,072.74	20.10	16.02	-90.42	-382.97	-575.00	1,711.60	1,678.85	32.74	52.272		
8,300.00	8,172.74	8,257.57	8,172.74	20.14	16.06	-90.42	-382.97	-575.00	1,711.60	1,678.77	32.83	52.138		
8,400.00	8,272.74	8,357.57	8,272.74	20.18	16.10	-90.42	-382.97	-575.00	1,711.60	1,678.68	32.91	52.002		
8,500.00	8,372.74	8,457.57	8,372.74	20.22	16.15	-90.42	-382.97	-575.00	1,711.60	1,678.60	33.00	51.867		
8,600.00	8,472.74	8,557.57	8,472.74	20.26	16.19	-90.42	-382.97	-575.00	1,711.60	1,678.51	33.09	51.731		
8,700.00	8,572.74	8,657.57	8,572.74	20.30	16.24	-90.42	-382.97	-575.00	1,711.60	1,678.42	33.17	51.596		
8,800.00	8,672.74	8,757.57	8,672.74	20.35	16.29	-90.42	-382.97	-575.00	1,711.60	1,678.34	33.26	51.460		
8,900.00	8,772.74	8,857.57	8,772.74	20.39	16.33	-90.42	-382.97	-575.00	1,711.60	1,678.25	33.35	51.323		
9,000.00	8,872.74	8,957.57	8,872.74	20.43	16.38	-90.42	-382.97	-575.00	1,711.60	1,678.16	33.44	51.187		
9,100.00	8,972.74	9,057.57	8,972.74	20.48	16.42	-90.42	-382.97	-575.00	1,711.60	1,678.07	33.53	51.051		
9,200.00	9,072.74	9,157.57	9,072.74	20.52	16.47	-90.42	-382.97	-575.00	1,711.60	1,677.98	33.62	50.914		
0.200.00	0.170.74	0.057.57	0.170.74	00.50	10.50	00.40	200.07	E75.00	1 744 00	1 677 00	20.74	E0 770		
9,300.00	9,172.74	9,257.57	9,172.74	20.56	16.52	-90.42	-382.97	-575.00	1,711.60	1,677.89	33.71	50.778		
9,400.00	9,272.74	9,357.57	9,272.74	20.61	16.57	-90.42	-382.97	-575.00	1,711.60	1,677.80	33.80	50.641		
9,500.00	9,372.74	9,457.57	9,372.74	20.65	16.61	-90.42	-382.97	-575.00	1,711.60	1,677.71	33.89	50.504		
9,600.00	9,472.74	9,557.57	9,472.74	20.70	16.66	-90.42	-382.97	-575.00	1,711.60	1,677.61	33.98	50.367		
9,700.00	9,572.74	9,657.57	9,572.74	20.74	16.71	-90.42	-382.97	-575.00	1,711.60	1,677.52	34.08	50.230		
9,800.00	9,672.74	9,757.57	9,672.74	20.79	16.76	-90.42	-382.97	-575.00	1,711.60	1,677.43	34.17	50.093		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

9,900.00

10,000.00

10,100.00

10.200.00

10,300.00

9,772.74

9,872.74

9,972.74

10.072.74

10,172.74

-382.97

-382.97

-382.97

-382.97

-382.97

-575.00

-575.00

-575.00

-575.00

-575.00

1,711.60

1,711.60

1,711.60

1,711.60

1,711.60

1,677.33

1,677.24

1,677.15

1.677.05

1,676.95

34.26

34.36

34.45

34.55

49.956

49.819

49.682

49.546

9,857.57

9,957.57

10,057.57

10.157.57

10,257.57

9,772.74

9,872.74

9,972.74

10.072.74

10,172.74

20.83

20.88

20.92

20.97

21.01

16.81

16.86

16.91

16.96

17.01

-90.42

-90.42

-90.42

-90.42

-90.42

Anticollision Report



0.00 usft

Offset Site Error:

Company: Civitas Resources

Plan #2

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 223H - OH - Plan #2

Project: Lea County, NM (NAD 83)
Reference Site: Junior Mint Fed Pad

Reference Site: Junior Mint
Site Error: 0.00 usft

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore OH

Reference Design:

Local Co-ordinate Reference: Well

Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

MD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

rvey Progi	rence	/WD+HRGM+ Off			lajor Axis		Offset Wellbe	ore Centre	Die	Rule Assignance	gnea:		Offset Well Error:	0.50 us
leasured	Vertical	Measured	Vertical	Reference	Offset	Highside	Oliset Wellb	ore centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0,400.00	10,272.74	10,357.57	10,272.74	21.06	17.06	-90.42	-382.97	-575.00	1,711.60	1,676.86	34.74	49.272		
0,500.00	10,372.74	10,457.57	10,372.74	21.11	17.11	-90.42	-382.97	-575.00	1,711.60	1,676.76	34.83	49.135		
0,600.00	10,472.74	10,557.57	10,472.74	21.15	17.16	-90.42	-382.97	-575.00	1,711.60	1,676.66	34.93	48.998		
0,700.00	10,572.74	10,657.57	10,572.74	21.20	17.21	-90.42	-382.97	-575.00	1,711.60	1,676.57	35.03	48.861		
0,800.00	10,672.74	10,757.57	10,672.74	21.25	17.26	-90.42	-382.97	-575.00	1,711.60	1,676.47	35.13	48.725		
0,900.00	10,772.74	10,857.57	10,772.74	21.29	17.31	-90.42	-382.97	-575.00	1,711.60	1,676.37	35.23	48.588		
1,000.00	10,872.74	10,957.57	10,872.74	21.34	17.36	-90.42	-382.97	-575.00	1,711.60	1,676.27	35.33	48.452		
1,100.00	10,972.74	11,057.57	10,972.74	21.39	17.41	-90.42	-382.97	-575.00	1,711.60	1,676.17	35.43	48.316		
1,200.00	11,072.74	11,157.57	11,072.74	21.44	17.47	-90.42	-382.97	-575.00	1,711.60	1,676.07	35.53	48.180		
1,300.00	11,172.74	11,257.57	11,172.74	21.49	17.52	-90.42	-382.97	-575.00	1,711.60	1,675.97	35.63	48.044		
1,400.00	11,272.74	11,357.57	11,272.74	21.53	17.57	-90.42	-382.97	-575.00	1,711.60	1,675.87	35.73	47.908		
4 500 00	44 070 74	44 457 57	44.070.74	04.50	47.00	00.40	200.07	F7F 00	4 744 66	4 075 77	05.00	47.770		
1,500.00	11,372.74	11,457.57	11,372.74	21.58	17.62	-90.42	-382.97	-575.00	1,711.60	1,675.77	35.83	47.772		
1,600.00	11,472.74	11,557.57	11,472.74	21.63	17.68	-90.42	-382.97	-575.00	1,711.60	1,675.67	35.93	47.636		
1,700.00	11,572.74	11,657.57	11,572.74	21.68	17.73	-90.42	-382.97	-575.00	1,711.60	1,675.56	36.03	47.501		
1,800.00	11,672.74	11,757.57	11,672.74	21.73	17.78	-90.42	-382.97	-575.00	1,711.60	1,675.46	36.14	47.366		
1,900.00	11,772.74	11,857.57	11,772.74	21.78	17.84	-90.42	-382.97	-575.00	1,711.60	1,675.36	36.24	47.231		
1,902.20	11,774.94	11,859.76	11,774.94	21.78	17.84	90.10	-382.97	-575.00	1,711.60	1,675.36	36.24	47.229		
2,000.00	11,872.61	11,957.44	11,872.61	21.84	17.89	90.22	-382.97	-575.00	1,711.61	1,675.29	36.31	47.135		
2,100.00	11,970.52	12,055.35	11,970.52	21.99	17.94	90.84	-382.97	-575.00	1,711.79	1,675.37	36.43	46.994		
2,200.00	12,063.53	12,148.35	12,063.53	22.19	18.00	91.88	-382.97	-575.00	1,712.74	1,676.15	36.59	46.810		
2,300.00	12,148.80	12,233.62	12,148.80	22.45	18.04	93.09	-382.97	-575.00	1,715.43	1,678.62	36.80	46.611		
,	,	,	,						,	,				
2,400.00	12,223.74	12,309.60	12,224.77	22.78	18.09	94.19	-382.97	-575.00	1,721.10	1,684.03	37.06	46.435		
2,500.00	12,286.09	12,488.73	12,400.80	23.20	18.37	97.43	-411.52	-572.18	1,728.26	1,690.58	37.68	45.868		
2,600.00	12,333.93	12,834.85	12,678.43	23.71	19.69	102.15	-607.93	-552.74	1,730.36	1,689.90	40.45	42.774		
2,700.00	12,365.83	13,204.23	12,795.92	24.31	22.49	103.16	-949.56	-518.95	1,720.11	1,675.49	44.62	38.551		
2,800.00	12,380.81	13,279.84	12,796.34	24.99	23.23	103.86	-1,024.90	-512.48	1,709.37	1,663.41	45.96	37.195		
2,900.00	12,382.30		12,796.68	25.74	23.87	104.07	-1,088.05	-508.60	1,704.07	1,656.79	47.28	36.045		
3,000.00	12,382.83	13,400.00	12,796.97	26.54	24.46	104.09	-1,144.89	-506.30	1,701.16	1,652.60	48.56	35.030		
3,100.00	12,383.35	13,475.01	12,797.37	27.39	25.24	104.09	-1,219.88	-504.96	1,700.34	1,650.25	50.09	33.945		
3,200.00	12,383.88	13,575.01	12,797.90	28.28	26.33	104.09	-1,319.88	-504.05	1,700.34	1,648.34	51.99	32.702		
3,300.00	12,384.40	13,675.01	12,798.42	29.20	27.44	104.09	-1,419.87	-503.14	1,700.34	1,646.37	53.96	31.510		
3,400.00	12,384.93	13,775.01	12,798.95	30.16	28.57	104.09	-1,519.87	-502.23	1,700.33	1,644.35	55.99	30.370		
3,500.00	12,385.46	13,875.01	12,799.47	31.14	29.72	104.09	-1,619.86	-501.32	1,700.33	1,642.27	58.06	29.283		
3,600.00	12,385.98	13,975.01	12,800.00	32.15	30.88	104.09	-1,719.86	-500.41	1,700.33	1,640.14	60.19	28.250		
3,700.00	12,386.51	14,075.01	12,800.53	33.18	32.07	104.09	-1,819.85	-499.50	1,700.33	1,637.98	62.35	27.269		
3,800.00	12,387.03	14,175.01	12,801.05	34.23	33.26	104.09	-1,919.85	-498.59	1,700.33	1,635.77	64.56	26.339		
	,	, . , .	,				, -		,	,	· · · ·			
3,900.00	12,387.56	14,275.01	12,801.58	35.31	34.47	104.09	-2,019.84	-497.68	1,700.33	1,633.53	66.79	25.457		
4,000.00	12,388.09	14,375.01	12,802.10	36.40	35.69	104.09	-2,119.83	-496.77	1,700.32	1,631.27	69.06	24.621		
4,100.00	12,388.61	14,475.01	12,802.63	37.51	36.92	104.09	-2,219.83	-495.86	1,700.32	1,628.97	71.35	23.830		
4,200.00	12,389.14	14,575.01	12,803.16	38.63	38.16	104.09	-2,319.82	-494.95	1,700.32	1,626.65	73.67	23.079		
4,300.00	12,389.66	14,675.01	12,803.68	39.77	39.41	104.09	-2,419.82	-494.04	1,700.32	1,624.30	76.02	22.368		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

15,400.00 12,395.45

14,400.00 12,390.19

14,500.00 12,390.71

12,391.24

12 391 77

12,392.29

12,392.82

12,393.34

12,393.87

12,394.40

12.394.92

14,600.00

14.700.00

14,800.00

14.900.00

15,000.00

15,100.00

15,200.00

15.300.00

-2,519.81

-2,619.81

-2,719.80

-2.819.80

-2,919.79

-3,019.79

-3,119.78

-3,219.77

-3,319.77

-3.419.76

-3,519.76

-493.13

-492.22

-491.31

-490 40

-489.49

-488.58

-487.67

-486.76

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83.16

85 57

90.45

92.90

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97.85

100.33

102.83

21.694

21.054

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19 869

19.321

18.799

18.302

17.829

17.377 16.947

14,775.01 12,804.21

14,875.01 12,804.73

12,805.26

12 805 79

12,806.31

12.806.84

12,807.36

12,807.89

12,808.42

12.808.94

12,809.47

14,975.01

15.075.01

15,175.01

15,275.01

15,375.01

15,475.01

15,575.01

15.675.01

15,775.01

40.92

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Anticollision Report

TVD Reference:

MD Reference:

North Reference:

Local Co-ordinate Reference:

Survey Calculation Method:



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Well Error: 0.50 usft

Reference Well: Junior Mint Fed 218H

> Output errors are at Database:

Reference Wellbore ОН

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 223H - OH - Plan #2

Reference Design: Plan #2 Offset TVD Reference: Reference Datum

Well Junior Mint Fed 218H

Minimum Curvature

2.00 sigma

GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB)

.Total Directional Production DB

urvey Progr		MWD+HRGM+			latan Anta		O#+W ***	0	.	Rule Assi	gned:		Offset Well Error:	0.50 us
Refe Measured	rence Vertical	Off Measured	set Vertical	Semi N Reference	lajor Axis Offset	Highside	Offset Wellbo	ore Centre	Dist Between	ance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S (usft)	+E/-W (usft)	Centres	Ellipses	Separation	Factor	· ·	
(usft) 15,500.00	(usft) 12,395.97	(usft) 15,875.01	(usft) 12,809.99	(usft) 54.21	(usft) 54.83	(°) 104.09	-3,619.75	-483.12	(usft) 1,700.30	(usft) 1,594.97	(usft) 105.33	16.142		
5,600.00	12,396.50	15,975.01	12,810.52	55.47	56.14	104.09	-3,719.75	-482.21	1,700.30	1,592.45	107.84	15.766		
15,700.00	12,397.03	16,075.01	12,811.05	56.72	57.45	104.09	-3,819.74	-481.30	1,700.30	1,589.93	110.36	15.406		
	12,397.03							-481.30						
15,800.00 15,900.00	12,397.55	16,175.01 16,275.01	12,811.57	57.98 59.25	58.76 60.08	104.09 104.09	-3,919.74 -4,019.73	-479.48	1,700.29 1,700.29	1,587.41 1,584.87	112.89 115.42	15.062 14.731		
		16,375.01	12,812.10		61.40						117.96			
16,000.00	12,398.60	10,373.01	12,812.62	60.52	01.40	104.09	-4,119.72	-478.57	1,700.29	1,582.33	117.90	14.414		
16,100.00	12,399.13	16,475.01	12,813.15	61.79	62.72	104.09	-4,219.72	-477.66	1,700.29	1,579.79	120.50	14.110		
16,200.00	12,399.65	16,575.01	12,813.68	63.07	64.05	104.09	-4,319.71	-476.75	1,700.29	1,577.24	123.05	13.818		
16,300.00	12,400.18	16,675.01	12,814.20	64.35	65.37	104.09	-4,419.71	-475.84	1,700.29	1,574.68	125.61	13.537		
16,400.00	12,400.71	16,775.01	12,814.73	65.63	66.70	104.09	-4,519.70	-474.92	1,700.28	1,572.12	128.16	13.266		
16,500.00	12,401.23	16,875.01	12,815.25	66.92	68.03	104.09	-4,619.70	-474.01	1,700.28	1,569.56	130.73	13.006		
,	,		,				.,		.,	.,				
16,600.00	12,401.76	16,975.01	12,815.78	68.21	69.36	104.09	-4,719.69	-473.10	1,700.28	1,566.99	133.29	12.756		
16,700.00	12,402.28	17,075.01	12,816.31	69.51	70.69	104.09	-4,819.69	-472.19	1,700.28	1,564.42	135.86	12.515		
16,800.00	12,402.81	17,175.01	12,816.83	70.80	72.02	104.09	-4,919.68	-471.28	1,700.28	1,561.84	138.44	12.282		
16,900.00	12,403.34	17,275.01	12,817.36	72.10	73.36	104.09	-5,019.67	-470.37	1,700.28	1,559.26	141.02	12.057		
17,000.00	12,403.86	17,375.01	12,817.88	73.40	74.70	104.09	-5,119.67	-469.46	1,700.28	1,556.68	143.60	11.841		
17,100.00	12,404.39	17,475.01	12,818.41	74.71	76.03	104.09	-5,219.66	-468.55	1,700.27	1,554.09	146.18	11.631		
17,200.00	12,404.91	17,575.01	12,818.94	76.01	77.37	104.09	-5,319.66	-467.64	1,700.27	1,551.50	148.77	11.429		
17,300.00	12,405.44	17,675.01	12,819.46	77.32	78.71	104.09	-5,419.65	-466.73	1,700.27	1,548.91	151.36	11.234		
17,400.00	12,405.96	17,775.01	12,819.99	78.63	80.05	104.09	-5,519.65	-465.82	1,700.27	1,546.32	153.95	11.044		
17,500.00	12,406.49	17,875.01	12,820.51	79.94	81.39	104.09	-5,619.64	-464.91	1,700.27	1,543.72	156.54	10.861		
17,600.00	12,407.02	17,975.01	12,821.04	81.26	82.73	104.09	-5,719.64	-464.00	1,700.27	1,541.12	159.14	10.684		
17,700.00	12,407.54	18,075.01	12,821.57	82.57	84.08	104.09	-5,819.63	-463.09	1,700.26	1,538.52	161.74	10.512		
17,800.00	12,408.07	18,175.01	12,822.09	83.89	85.42	104.09	-5,919.63	-462.18	1,700.26	1,535.92	164.34	10.346		
17,900.00	12,408.59	18,275.01	12,822.62	85.21	86.77	104.09	-6,019.62	-461.27	1,700.26	1,533.31	166.95	10.185		
18,000.00	12,409.12	18,375.01	12,823.14	86.53	88.11	104.09	-6,119.61	-460.36	1,700.26	1,530.71	169.55	10.028		
18,100.00	12,409.65	18,475.01	12,823.67	87.85	89.46	104.09	-6,219.61	-459.45	1,700.26	1,528.10	172.16	9.876		
18,200.00	12,410.17	18,575.01	12,824.20	89.18	90.80	104.09	-6,319.60	-458.54	1,700.26	1,525.49	174.77	9.729		
18,300.00	12,410.70	18,675.01	12,824.72	90.50	92.15	104.09	-6,419.60	-457.63	1,700.25	1,522.88	177.38	9.585		
18,400.00	12,411.22	18,775.01	12,825.25	91.83	93.50	104.09	-6,519.59	-456.72	1,700.25	1,520.26	179.99	9.446		
18,500.00	12,411.75	18,875.01	12,825.77	93.15	94.85	104.09	-6,619.59	-455.81	1,700.25	1,517.65	182.60	9.311		
18,600.00	12,412.27	18,975.01	12,826.30	94.48	96.20	104.09	-6,719.58	-454.90	1,700.25	1,515.03	185.22	9.180		
18,700.00	12,412.80	19,075.01	12,826.83	95.81	97.55	104.09	-6,819.58	-453.99	1,700.25	1,512.41	187.84	9.052		
18,800.00	12,413.33	19,175.01	12,827.35	97.14	98.90	104.09	-6,919.57	-453.08	1,700.25	1,509.79	190.46	8.927		
18,900.00	12,413.85	19,275.01	12,827.88	98.47	100.25	104.09	-7,019.56	-452.17	1,700.24	1,507.17	193.08	8.806		
19,000.00	12,414.38	19,375.01	12,828.40	99.81	101.60	104.09	-7,119.56	-451.26	1,700.24	1,504.55	195.70	8.688		
10 100 00	10 444 00	10 475 04	10 000 00	404.44	100.05	104.00	7.040.55	450.05	1 700 04	1 504 00	100.00	0.570		
19,100.00	12,414.90	19,475.01	12,828.93	101.14	102.95	104.09	-7,219.55	-450.35	1,700.24	1,501.92	198.32	8.573		
19,200.00	12,415.43	19,575.01	12,829.46	102.47	104.30	104.09	-7,319.55	-449.44	1,700.24	1,499.30	200.94	8.461		
19,300.00	12,415.96	19,675.01	12,829.98	103.81	105.66	104.09	-7,419.54	-448.53	1,700.24	1,496.67	203.57	8.352		
19,400.00	12,416.48	19,775.01	12,830.51	105.15	107.01	104.09	-7,519.54	-447.62	1,700.24	1,494.04	206.19	8.246		
19,500.00	12,417.01	19,875.01	12,831.03	106.48	108.36	104.09	-7,619.53	-446.71	1,700.23	1,491.42	208.82	8.142		
10 600 00	10 /17 50	10.075.04	12 024 56	107.00	100.70	104.00	7 740 50	115 00	1 700 00	1 400 70	214 45	0.044		
19,600.00	12,417.53	19,975.01		107.82	109.72	104.09	-7,719.53 7,910.52	-445.80	1,700.23	1,488.79	211.45	8.041		
19,700.00	12,418.06	20,075.01	12,832.09	109.16	111.07	104.09	-7,819.52 7,010.51	-444.89	1,700.23	1,486.16	214.07	7.942		
19,800.00	12,418.59	20,175.01	12,832.61	110.50	112.43	104.09	-7,919.51	-443.98	1,700.23	1,483.53	216.70	7.846		
19,900.00	12,419.11	20,275.01	12,833.14	111.84	113.78	104.09	-8,019.51	-443.07	1,700.23	1,480.89	219.33	7.752		
20,000.00	12,419.64	20,375.01	12,833.66	113.18	115.14	104.09	-8,119.50	-442.16	1,700.23	1,478.26	221.97	7.660		
20 100 00	12 /20 16	20 475 04	12 824 10	111 50	116 40	104.00	_8 210 50	-441.25	1 700 22	1,475.63	224 60	7 570		
20,100.00	12,420.16	20,475.01	12,834.19	114.52	116.49	104.09	-8,219.50	-441.25	1,700.22		224.60	7.570		
20,200.00	12,420.69	20,575.01	12,834.72	115.86	117.85	104.09	-8,319.49	-440.34	1,700.22	1,472.99	227.23	7.482		
20,300.00	12,421.21	20,675.01	12,835.24	117.20	119.20	104.09	-8,419.49	-439.43	1,700.22	1,470.36	229.86	7.397		
20,400.00	12,421.74	20,775.01	12,835.77	118.55	120.56	104.09	-8,519.48	-438.52	1,700.22	1,467.72	232.50	7.313		
20,500.00	12,422.27	20,875.01	12,836.29	119.89	121.92	104.09	-8,619.48	-437.60	1,700.22	1,465.08	235.13	7.231		

Anticollision Report



Company: Civitas Resources
Project: Lea County, NM (NAD 83)

Plan #2

Junior Mint Fed Pad

Site Error: 0.00 usft

Reference Site:

Reference Design:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft
Reference Wellbore OH

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)
MD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

		//WD+HRGM+	CAC LEDID (ray E\						Bula Assi			Offset Site Error:	0.00 usf 0.50 usf
urvey Progi Refe	ram: U-N rence	Off			lajor Axis		Offset Wellbo	ore Centre	Dis	Rule Assig	gned:		Offset Well Error:	0.50 usi
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
20,700.00	12,423.32	21,075.01	12,837.35	122.58	124.63	104.09	-8,819.46	-435.78	1,700.21	1,459.81	240.40	7.072		
20,800.00	12,423.84	21,175.01	12,837.87	123.93	125.99	104.09	-8,919.46	-434.87	1,700.21	1,457.17	243.04	6.996		
20,900.00	12,424.37	21,275.01	12,838.40	125.27	127.35	104.09	-9,019.45	-433.96	1,700.21	1,454.53	245.68	6.920		
21,000.00	12,424.90	21,375.01	12,838.92	126.62	128.71	104.09	-9,119.45	-433.05	1,700.21	1,451.89	248.32	6.847		
21,100.00	12,425.42	21,475.01	12,839.45	127.97	130.06	104.09	-9,219.44	-432.14	1,700.21	1,449.25	250.96	6.775		
21,200.00	12,425.95	21,575.01	12,839.98	129.31	131.42	104.09	-9,319.44	-431.23	1,700.21	1,446.61	253.60	6.704		
21,300.00	12,426.47	21,675.01	12,840.50	130.66	132.78	104.09	-9,419.43	-430.32	1,700.20	1,443.97	256.24	6.635		
21,400.00	12,427.00	21,775.01	12,841.03	132.01	134.14	104.09	-9,519.43	-429.41	1,700.20	1,441.33	258.88	6.568		
21,500.00	12,427.52	21,875.01	12,841.55	133.36	135.50	104.09	-9,619.42	-428.50	1,700.20	1,438.68	261.52	6.501		
21,600.00	12,428.05	21,975.01	12,842.08	134.71	136.86	104.09	-9,719.42	-427.59	1,700.20	1,436.04	264.16	6.436		
21,700.00	12,428.58	22,075.01	12,842.61	136.06	138.22	104.09	-9,819.41	-426.68	1,700.20	1,433.40	266.80	6.373		
21,800.00	12,429.10	22,175.01	12,843.13	137.41	139.58	104.09	-9,919.40	-425.77	1,700.20	1,430.75	269.44	6.310		
21,900.00	12,429.63	22,275.01	12,843.66	138.76	140.94	104.09	-10,019.40	-424.86	1,700.19	1,428.11	272.09	6.249		
22,000.00	12,430.15	22,375.01	12,844.18	140.11	142.30	104.09	-10,119.39	-423.95	1,700.19	1,425.46	274.73	6.189		
22,100.00	12,430.68	22,475.01	12,844.71	141.46	143.66	104.09	-10,219.39	-423.04	1,700.19	1,422.82	277.37	6.130		
22,200.00	12,431.21	22,575.01	12,845.24	142.81	145.02	104.09	-10,319.38	-422.13	1,700.19	1,420.17	280.02	6.072		
22,300.00	12,431.73	22,675.01	12,845.76	144.16	146.38	104.09	-10,419.38	-421.22	1,700.19	1,417.52	282.66	6.015		
22,400.00	12,432.26	22,775.01	12,846.29	145.51	147.74	104.09	-10,519.37	-420.31	1,700.19	1,414.88	285.31	5.959		
22,500.00	12,432.78	22,875.01	12,846.81	146.87	149.10	104.09	-10,619.37	-419.40	1,700.18	1,412.23	287.95	5.904		
22,600.00	12,433.31	22,975.01	12,847.34	148.22	150.46	104.09	-10,719.36	-418.49	1,700.18	1,409.58	290.60	5.851		
2,700.00	12,433.83	23,075.01	12,847.87	149.57	151.83	104.09	-10,819.35	-417.58	1,700.18	1,406.93	293.25	5.798		
2,761.65	12,434.16	23,136.66	12,848.19	150.44	152.66	104.09	-10,881.00	-417.02	1,700.18	1,405.30	294.88	5.766		
22,770.20	12,434.20	23,139.21	12,848.20	150.56	152.71	104.09	-10,883.55	-417.00	1,700.19	1,405.20	294.99	5.763	SF	

Anticollision Report



Company: Project: Lea County, NM (NAD 83)

Civitas Resources

Junior Mint Fed Pad Reference Site:

0.00 usft Site Error: Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН

Reference Design: Plan #2 Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

.Total Directional Production DB Database:

Offset TVD Reference: Reference Datum

	olg				u	OH - Plan #2							Offset Site Error:	0.00 us
urvey Prog	ıram: 0-l	MWD+HRGM+	SAG+EDIR (rev 5)						Rule Assi	anod:		Offset Well Error:	0.50 us
Refe	erence	Off	set	Semi N	lajor Axis		Offset Wellb	ore Centre		ance				0.50 us
Measured	Vertical Depth	Measured	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
Depth (usft)	(usft)	Depth (usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	ractor		
0.00	0.00	2.00	0.00	0.50	0.50	0.00	50.00	0.00	50.00	()	(,			
100.00	100.00	102.00	100.00	0.98	0.99	0.00	50.00	0.00	50.00	48.03	1.97	25.340		
200.00	200.00	202.00	200.00	1.56	1.57	0.00	50.00	0.00	50.00	46.87	3.13	15.972		
300.00	300.00	302.00	300.00	1.98	1.99	0.00	50.00	0.00	50.00	46.03	3.97	12.597	CC	
400.00	399.99	401.99	399.99	2.41	2.34	-108.62	50.00	0.00	50.40	45.73	4.67	10.798	ES	
500.00	499.91	501.91	499.91	2.78	2.64	-112.71	50.00	0.00	51.79	46.51	5.28	9.802		
600.00	599.69	601.69	599.69	3.11	2.91	-119.00	50.00	0.00	54.65	48.79	5.86	9.330		
700.00	699.27	701.27	699.27	3.42	3.17	-126.63	50.00	0.00	59.64	53.23	6.41	9.302		
800.00	798.57	800.57	798.57	3.71	3.40	-134.57	50.00	0.00	67.34	60.38	6.95	9.685		
900.00	897.62	899.62	897.62	3.84	3.62	-141.77	50.00	0.00	77.66	70.32	7.35	10.573		
1,000.00	996.65	998.65	996.65	4.07	3.83	-147.31	50.00	0.00	89.05	81.23	7.81	11.396		
	4.0=====	4 000 000	4.00= ==			454.55				0		40		
1,100.00	1,095.67	1,097.67	1,095.67	4.29	4.03	-151.56	50.00	0.00	101.07	92.81	8.26	12.237		
1,200.00	1,194.70 1,293.73	1,196.70 1,295.73	1,194.70 1,293.73	4.51 4.73	4.23	-154.90 -157.58	50.00 50.00	0.00 0.00	113.53 126.29	104.84	8.69 9.10	13.067		
1,300.00 1,400.00	1,293.73	1,295.73	1,293.73	4.73	4.41 4.59	-157.58 -159.76	50.00	0.00	126.29	117.18 129.76	9.10 9.51	13.874 14.651		
1,500.00	1,392.75	1,394.75	1,392.75	5.17	4.59	-161.57	50.00	0.00	152.42	142.52	9.90	15.395		
1,000.00	1,401.70	1,400.70	1,401.70	0.11	4.11	-101.01	50.00	0.00	102.42	142.02	0.00	10.000		
1,600.00	1,590.81	1,592.81	1,590.81	5.38	4.94	-163.09	50.00	0.00	165.69	155.40	10.29	16.107		
1,700.00	1,689.83	1,691.83	1,689.83	5.59	5.10	-164.38	50.00	0.00	179.06	168.40	10.67	16.787		
1,800.00	1,788.86	1,795.65	1,793.64	5.80	5.29	-165.52	49.44	1.06	191.38	180.30	11.08	17.278		
1,900.00	1,887.89	1,900.51	1,898.42	6.01	5.47	-166.49	47.56	4.66	201.04	189.58	11.47	17.532		
2,000.00	1,986.91	2,005.87	2,003.54	6.22	5.64	-167.33	44.32	10.84	208.02	196.17	11.85	17.552		
2,100.00	2,085.94	2,111.56	2,108.76	6.43	5.82	-168.10	39.73	19.62	212.28	200.05	12.23	17.356		
2,200.00	2,184.97	2,217.42	2,213.84	6.64	6.00	-168.83	33.77	31.00	213.80	201.19	12.60	16.962		
2,300.00	2,283.86	2,323.31	2,318.54	6.84	6.18	-169.92	26.47	44.96	213.51	200.55	12.96	16.479		
2,400.00	2,382.33	2,429.17	2,422.75	7.08	6.36	-171.07	17.82	61.47	213.06	199.70	13.36	15.952		
2,500.00	2,480.31	2,535.01	2,526.37	7.32	6.55	-172.26	7.84	80.54	212.47	198.72	13.75	15.447		
2,600.00 2,700.00	2,577.74 2,674.78	2,640.81 2,741.12	2,629.32 2,726.57	7.57 7.79	6.70 6.82	-173.50 -174.60	-3.46	102.13 123.95	211.79 211.28	197.67 196.85	14.12 14.43	15.004 14.642		
2,800.00	2,771.81	2,841.04	2,823.43	8.06	6.82	-174.60	-14.89 -26.27	145.70	211.28	196.06	14.43	14.042		
2,900.00	2,868.84	2,940.96	2,920.29	8.35	7.12	-175.06	-37.66	167.44	210.54	195.34	15.21	13.843		
3,000.00	2,965.87	3,040.89	3,017.15	8.65	7.30	-177.84	-49.04	189.19	210.29	194.67	15.61	13.468		
0,000.00	2,000.01	0,010.00	0,011.10	0.00	7.00		10.01	100.10	210.20	101.01	10.01	10.100		
3,100.00	3,062.90	3,140.81	3,114.00	8.95	7.54	-178.93	-60.42	210.93	210.11	194.09	16.01	13.121		
3,200.00	3,159.93	3,240.73	3,210.86	9.26	7.79	179.99	-71.81	232.68	210.00	193.58	16.42	12.789		
3,289.54	3,246.81	3,330.19	3,297.59	9.54	8.02	179.01	-82.00	252.15	209.97	193.18	16.79	12.505		
3,300.00	3,256.96	3,340.65	3,307.72	9.57	8.05	178.90	-83.19	254.42	209.97	193.14	16.83	12.473		
3,400.00	3,353.99	3,440.57	3,404.58	9.88	8.31	177.81	-94.57	276.17	210.02	192.76	17.25	12.173		
3,500.00	3,451.02	3,540.49	3,501.44	10.20	8.58	176.72	-105.96	297.91	210.14	192.46	17.68	11.888		
3,600.00	3,548.05	3,640.41	3,598.30	10.51	8.86	175.64	-117.34	319.66	210.34	192.23	18.11	11.616		
3,700.00	3,645.08	3,740.33	3,695.16	10.83	9.14	174.55	-128.72	341.40	210.61	192.06	18.54	11.357		
3,800.00	3,742.11	3,840.25	3,792.02	11.15	9.42	173.47	-140.11	363.15	210.96	191.97	18.99	11.110		
3,900.00	3,839.14	3,940.17	3,888.88	11.47	9.71	172.40	-151.49	384.89	211.38	191.94	19.44	10.874		
4 000 00	2 000 17	4.040.00	2 005 74	44 76	40.00	474.00	400.07	400.00	044.00	404.00	40.00	10.010		
4,000.00	3,936.17	4,040.09 4,140.01	3,985.74	11.79	10.00	171.33	-162.87 -174.26	406.63	211.88	191.98	19.90	10.649		
4,100.00 4,200.00	4,033.20 4,130.23	4,140.01	4,082.60 4,179.45	12.11 12.43	10.29 10.59	170.26 169.20	-174.26 -185.64	428.38 450.12	212.45 213.09	192.09 192.26	20.36 20.83	10.434 10.229		
4,300.00	4,130.23	4,239.93	4,179.45	12.43	10.59	168.15	-197.02	471.87	213.09	192.26	20.63	10.229		
4,400.00	4,324.29	4,439.77	4,373.17	13.08	11.19	167.10	-208.40	493.61	214.60	192.49	21.80	9.844		
., .50.00	.,027.20	., .00.11	.,0.0.17	10.00	.1.10		230.40	.50.01	214.00	.52.00	21.00	3.044		
4,500.00	4,421.32	4,539.69	4,470.03	13.40	11.49	166.07	-219.79	515.36	215.46	193.16	22.30	9.664		
4,600.00	4,518.35	4,639.61	4,566.89	13.73	11.80	165.04	-231.17	537.10	216.38	193.59	22.80	9.491		
4,700.00	4,615.38	4,739.53	4,663.75	14.06	12.11	164.02	-242.55	558.85	217.38	194.07	23.31	9.325		
4,800.00	4,712.41	4,839.45	4,760.61	14.38	12.42	163.01	-253.94	580.59	218.45	194.62	23.83	9.167		
4,900.00	4,809.44	4,939.37	4,857.47	14.71	12.73	162.01	-265.32	602.34	219.59	195.23	24.36	9.015		
5,000.00	4,906.47	5,039.29	4,954.33	15.04	13.04	161.02	-276.70	624.08	220.79	195.89	24.89	8.869		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Reference Wellbore ОН

Well Error: 0.50 usft

Reference Design: Plan #2 Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

Reference	Design:	Plan #	2				Offset TV	D Reference	e:	Re	eference Da	ıtum		
Offeet Do	eian: Junio	or Mint Fed	Pad - Jur	nior Mint Fe	d 224H - (OH - Plan #2								
Oliset Des	Sigii.				~	011 11411/12							Offset Site Error:	0.00 usft
Survey Progr		MWD+HRGM+								Rule Assi	gned:		Offset Well Error:	0.50 usft
Refe Measured	rence Vertical	Off Measured	set Vertical	Semi M Reference	lajor Axis Offset	Highside	Offset Wellb	ore Centre	Dist Between	ance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,100.00	5,003.50	5,139.21	5,051.19	15.36	13.36	160.04	-288.09	645.82	222.05	196.61	25.44	8.729		
5,200.00	5,100.53	5,239.13	5,148.04	15.69	13.68	159.07	-299.47	667.57	223.38	197.39	25.99	8.595		
5,300.00	5,197.56	5,339.05	5,244.90	16.02	14.00	158.11	-310.85	689.31	224.78	198.22	26.55	8.465		
5,400.00	5,294.59	5,437.39 5,532.51	5,340.26	16.35	14.31	157.20	-322.00	710.60 729.61	226.35	199.23	27.12 27.66	8.346		
5,500.00 5,600.00	5,391.62 5,488.65	5,627.50	5,432.92 5,525.97	16.68 17.01	14.59 14.85	156.58 156.30	-331.95 -340.81	746.54	229.60 234.97	201.94 206.81	28.16	8.301 8.344		
3,000.00	3,400.03	3,027.30	5,525.51	17.01	14.00	130.30	-540.01	740.54	254.57	200.01	20.10	0.544		
5,700.00	5,585.68	5,722.24	5,619.22	17.34	15.09	156.33	-348.58	761.38	242.42	213.81	28.61	8.472		
5,800.00	5,682.71	5,816.64	5,712.51	17.67	15.30	156.64	-355.25	774.13	251.95	222.93	29.02	8.682		
5,900.00	5,779.92	5,910.65	5,805.74	17.97	15.48	157.20	-360.84	784.79	262.88	233.51	29.37	8.951		
6,000.00	5,877.69	6,004.44	5,899.03	18.27	15.64	157.78	-365.34	793.40	273.57	243.86	29.71	9.208		
6,100.00	5,975.98	6,100.00	5,994.29	18.54	15.78	158.39	-368.84	80.08	283.96	253.93	30.04	9.454		
6 000 00	6.074.70	6 404 07	6 005 50	40.77	45.00	450.00	074 15	004.40	004.04	000 75	00.00	0.707		
6,200.00 6,300.00	6,074.72 6,173.83	6,191.37 6,284.53	6,085.52 6,178.63	18.77 18.98	15.89 15.98	158.99 159.61	-371.15 -372.46	804.49 806.99	294.04 303.83	263.75 273.30	30.29 30.53	9.707 9.952		
	6,273.26	6,379.16						806.99			30.53	10.208		
6,400.00 6,500.00	6,372.94	6,478.84	6,273.26 6,372.94	19.16 19.31	16.02 16.06	160.25 160.77	-372.75 -372.75	807.55	313.24 320.82	282.55 289.94	30.88	10.208		
6,600.00	6,472.79	6,578.69	6,472.79	19.42	16.11	161.11	-372.75	807.55	325.94	294.87	31.07	10.391		
0,000.00	0,472.73	0,570.03	0,472.73	13.42	10.11	101.11	-512.15	007.55	323.34	234.07	31.07	10.430		
6,700.00	6,572.74	6,678.64	6,572.74	19.52	16.16	161.28	-372.75	807.55	328.60	297.34	31.26	10.511		
6,800.00	6,672.74	6,778.64	6,672.74	19.54	16.21	-90.41	-372.75	807.55	329.01	297.66	31.35	10.495		
6,900.00	6,772.74	6,878.64	6,772.74	19.58	16.26	-90.41	-372.75	807.55	329.01	297.57	31.43	10.466		
7,000.00	6,872.74	6,978.64	6,872.74	19.62	16.31	-90.41	-372.75	807.55	329.01	297.49	31.52	10.437		
7,100.00	6,972.74	7,078.64	6,972.74	19.66	16.36	-90.41	-372.75	807.55	329.01	297.40	31.61	10.408		
7 000 00	7 070 74	7.470.04	7.070.74	10.70	10.11	00.44	070.75	227.55	000.04	007.04	04.70	40.070		
7,200.00	7,072.74	7,178.64	7,072.74	19.70	16.41	-90.41	-372.75	807.55	329.01	297.31	31.70	10.379		
7,300.00	7,172.74	7,278.64	7,172.74	19.74	16.46	-90.41	-372.75	807.55	329.01	297.22	31.79	10.350		
7,400.00 7,500.00	7,272.74 7,372.74	7,378.64 7,478.64	7,272.74 7,372.74	19.77 19.81	16.51 16.56	-90.41 -90.41	-372.75 -372.75	807.55 807.55	329.01 329.01	297.13 297.04	31.88 31.97	10.321 10.292		
7,600.00	7,472.74	7,578.64	7,472.74	19.85	16.61	-90.41	-372.75	807.55	329.01	296.95	32.06	10.263		
7,000.00	1,412.14	1,010.04	1,412.14	10.00	10.01	-50.41	-012.10	007.00	020.01	200.00	02.00	10.200		
7,700.00	7,572.74	7,678.64	7,572.74	19.89	16.66	-90.41	-372.75	807.55	329.01	296.86	32.15	10.234		
7,800.00	7,672.74	7,778.64	7,672.74	19.93	16.71	-90.41	-372.75	807.55	329.01	296.77	32.24	10.205		
7,900.00	7,772.74	7,878.64	7,772.74	19.97	16.76	-90.41	-372.75	807.55	329.01	296.68	32.33	10.176		
8,000.00	7,872.74	7,978.64	7,872.74	20.01	16.82	-90.41	-372.75	807.55	329.01	296.58	32.43	10.146		
8,100.00	7,972.74	8,078.64	7,972.74	20.05	16.87	-90.41	-372.75	807.55	329.01	296.49	32.52	10.117		
	0.070.74	0.470.04	0.070.74	00.10	10.00	00.44	070.75	007.55	000.04	202.22	00.04	40.000		
8,200.00	8,072.74	8,178.64	8,072.74	20.10	16.92	-90.41	-372.75	807.55	329.01	296.39	32.61	10.088		
8,300.00	8,172.74	8,278.64	8,172.74	20.14	16.97	-90.41	-372.75	807.55	329.01	296.30	32.71	10.059		
8,400.00 8,500.00	8,272.74 8,372.74	8,378.64 8,478.64	8,272.74 8,372.74	20.18 20.22	17.03 17.08	-90.41 -90.41	-372.75 -372.75	807.55 807.55	329.01 329.01	296.21 296.11	32.80 32.90	10.030 10.001		
8,600.00	8,472.74	8,578.64	8,472.74	20.22	17.08	-90.41	-372.75	807.55	329.01	296.01	32.99	9.971		
5,500.00	0,	5,570.04	5,∠⊣	20.20	0	00.71	0.2.10	337.00	520.01	200.01	32.00	5.071		
8,700.00	8,572.74	8,678.64	8,572.74	20.30	17.19	-90.41	-372.75	807.55	329.01	295.92	33.09	9.942		
8,800.00	8,672.74	8,778.64	8,672.74	20.35	17.24	-90.41	-372.75	807.55	329.01	295.82	33.19	9.913		
8,900.00	8,772.74	8,878.64	8,772.74	20.39	17.29	-90.41	-372.75	807.55	329.01	295.72	33.29	9.884		
9,000.00	8,872.74	8,978.64	8,872.74	20.43	17.35	-90.41	-372.75	807.55	329.01	295.62	33.38	9.855		
9,100.00	8,972.74	9,078.64	8,972.74	20.48	17.40	-90.41	-372.75	807.55	329.01	295.53	33.48	9.826		
0.000.00	0.070.77	0.470.01	0.070.77	00.55	47.40	00.44	070 75	007.55	000.07	005.40	00.50	0.707		
9,200.00	9,072.74	9,178.64	9,072.74	20.52	17.46	-90.41	-372.75	807.55	329.01	295.43	33.58	9.797		
9,300.00	9,172.74	9,278.64	9,172.74	20.56	17.51 17.57	-90.41 -90.41	-372.75 -372.75	807.55 807.55	329.01	295.33	33.68	9.768		
9,400.00 9,500.00	9,272.74 9,372.74	9,378.64 9,478.64	9,272.74 9,372.74	20.61 20.65	17.57	-90.41 -90.41	-372.75 -372.75	807.55 807.55	329.01 329.01	295.23 295.13	33.78 33.88	9.739 9.710		
9,600.00	9,372.74	9,478.64	9,372.74	20.65	17.62	-90.41 -90.41	-372.75 -372.75	807.55 807.55	329.01	295.13	33.88	9.710		
9,000.00	5,412.14	9,010.04	5,412.14	20.70	17.00	-30.41	-312.13	66.100	329.01	293.02	33.90	a.00 I		
9,700.00	9,572.74	9,678.64	9,572.74	20.74	17.74	-90.41	-372.75	807.55	329.01	294.92	34.09	9.652		
9,800.00	9,672.74	9,778.64	9,672.74	20.79	17.79	-90.41	-372.75	807.55	329.01	294.82	34.19	9.624		
9,900.00	9,772.74	9,878.64	9,772.74	20.83	17.85	-90.41	-372.75	807.55	329.01	294.72	34.29	9.595		
10,000.00	9,872.74	9,978.64	9,872.74	20.88	17.90	-90.41	-372.75	807.55	329.01	294.62	34.39	9.566		
10,100.00	9,972.74	10,078.64	9,972.74	20.92	17.96	-90.41	-372.75	807.55	329.01	294.51	34.50	9.537		
10,200.00	10,072.74	10,178.64	10,072.74	20.97	18.02	-90.41	-372.75	807.55	329.01	294.41	34.60	9.509		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН

Reference Design: Plan #2

Well Junior Mint Fed 218H Local Co-ordinate Reference:

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

iset De	sign: Julia	JI WIIIIL FEU	rau - Jui	nior wint re	u 224n - (OH - Plan #2							Offset Site Error:	0.00 us
vey Progr	ram: 0-1	MWD+HRGM+	SAG+EDIR (rev 5)						Rule Assi	anod:		Offset Well Error:	0.50 us
Refe	rence	Off	set `	Semi N	lajor Axis		Offset Wellb	ore Centre		tance				0.50 us
easured	Vertical	Measured	Vertical	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0,300.00	10,172.74	10,278.64	10,172.74	21.01	18.08	-90.41	-372.75	807.55	329.01	294.30	34.70	9.480		
0,400.00	10,272.74	10,378.64	10,272.74	21.06	18.13	-90.41	-372.75	807.55	329.01	294.20	34.81	9.452		
0,500.00	10,372.74	10,478.64	10,372.74	21.11	18.19	-90.41	-372.75	807.55	329.01	294.09	34.91	9.423		
0,600.00	10,472.74	10.578.64	10,472.74	21.15	18.25	-90.41	-372.75	807.55	329.01	293.99	35.02	9.395		
0,700.00	10,572.74	10,678.64	10,572.74	21.20	18.31	-90.41	-372.75	807.55	329.01	293.88	35.13	9.366		
0,800.00	10,672.74	10,778.64	10,672.74	21.25	18.36	-90.41	-372.75	807.55	329.01	293.78	35.23	9.338		
			-,-											
0,900.00	10,772.74	10,878.64	10,772.74	21.29	18.42	-90.41	-372.75	807.55	329.01	293.67	35.34	9.310		
1,000.00	10,872.74	10,978.64	10,872.74	21.34	18.48	-90.41	-372.75	807.55	329.01	293.56	35.45	9.282		
1,100.00	10,972.74	11,078.64	10,972.74	21.39	18.54	-90.41	-372.75	807.55	329.01	293.45	35.56	9.253		
1,200.00	11,072.74	11,178.64	11,072.74	21.44	18.60	-90.41	-372.75	807.55	329.01	293.35	35.66	9.225		
1,300.00	11,172.74	11,278.64	11,172.74	21.49	18.66	-90.41	-372.75	807.55	329.01	293.24	35.77	9.197		
	44.0===:	44.0== = :	44.0===:		46 ===		0== ==	05=	0.55	00- :-		0 :		
1,400.00	11,272.74	11,378.64	11,272.74	21.53	18.72	-90.41	-372.75	807.55	329.01	293.13	35.88	9.169		
,500.00	11,372.74	11,478.64	11,372.74	21.58	18.77	-90.41	-372.75	807.55	329.01	293.02	35.99	9.142		
,600.00	11,472.74	11,578.64	11,472.74	21.63	18.83	-90.41	-372.75	807.55	329.01	292.91	36.10	9.114		
,700.00	11,572.74	11,678.64	11,572.74	21.68	18.89	-90.41	-372.75	807.55	329.01	292.80	36.21	9.086		
,800.00	11,672.74	11,778.64	11,672.74	21.73	18.95	-90.41	-372.75	807.55	329.01	292.69	36.32	9.058		
,900.00	11,772.74	11,878.64	11,772.74	21.78	19.01	-90.41	-372.75	807.55	329.01	292.58	36.43	9.031		
,900.00	11,774.52	11,880.42	11,772.74	21.78	19.01	90.41	-372.75	807.55	329.01	292.57	36.43	9.030		
,000.00	11,872.61	11,978.51	11,872.61	21.84	19.07	90.72	-372.75	807.55	329.03	292.56	36.47	9.021		
,100.00	11,970.52	12,076.42	11,970.52	21.99	19.13	93.98	-372.75	807.55	329.87	293.49	36.38	9.068		
,200.00	12,063.53	12,169.43	12,063.53	22.19	19.19	99.32	-372.75	807.55	334.48	298.27	36.21	9.238		
200.00	12,000.00	12,100.40	12,000.00	22.10	10.10	33.02	-072.70	007.00	004.40	200.21	00.21	0.200		
,300.00	12,148.80	12,254.70	12,148.80	22.45	19.23	105.36	-372.75	807.55	347.63	311.56	36.07	9.637		
,400.00	12,223.74	12,354.29	12,248.12	22.78	19.31	112.57	-378.38	807.60	372.35	336.18	36.18	10.292		
,500.00	12,286.09	12,478.41	12,368.20	23.20	19.53	120.05	-408.86	807.88	404.32	367.16	37.15	10.883		
,600.00	12,333.93	12,633.18	12,504.19	23.71	19.94	127.25	-481.75	808.54	438.68	398.93	39.76	11.034		
,700.00	12,365.83	12,832.09	12,641.99	24.31	20.73	133.53	-623.81	809.83	468.70	424.18	44.52	10.527		
2,800.00	12,380.81	13,078.92	12,733.10	24.99	22.23	137.20	-851.14	811.90	485.62	435.31	50.31	9.652		
,900.00	12,382.30	13,236.38	12,741.29	25.74	23.46	137.50	-1,008.16	813.32	486.96	434.42	52.53	9.269		
,000.00	12,382.83	13,336.38	12,741.82	26.54	24.33	137.50	-1,108.16	814.23	486.96	433.51	53.45	9.111		
,100.00	12,383.35	13,436.38	12,742.35	27.39	25.23	137.50	-1,208.15	815.14	486.96	432.54	54.42	8.949		
,200.00	12,383.88	13,536.38	12,742.87	28.28	26.18	137.50	-1,308.15	816.05	486.96	431.52	55.44	8.784		
	10.001.10	40.000.00	10 710 10	00.00	07.47	107.50	4 400 44	040.00	400.00	400.45	50.54	0.017		
,300.00	12,384.40	13,636.38	12,743.40	29.20	27.17	137.50	-1,408.14	816.96	486.96	430.45	56.51	8.617		
,400.00	12,384.93	13,736.38	12,743.92	30.16	28.18	137.50	-1,508.14	817.87	486.96	429.33	57.63	8.450		
,500.00	12,385.46	13,836.38	12,744.45	31.14	29.23	137.50	-1,608.13	818.77	486.96	428.16	58.79	8.283		
,600.00	12,385.98	13,936.38	12,744.98	32.15	30.30	137.50	-1,708.12	819.68	486.96	426.96	60.00	8.116		
700.00	12,386.51	14,036.38	12,745.50	33.18	31.39	137.50	-1,808.12	820.59	486.96	425.71	61.24	7.951		
800.00	12,387.03	14,136.38	12,746.03	34.23	32.50	137.50	-1,908.11	821.50	486.96	424.43	62.53	7.788		
900.00	12,387.56	14,236.38	12,746.55	35.31	33.63	137.50	-2,008.11	822.41	486.96	423.11	63.84	7.627		
00.00	12,388.09	14,336.38	12,747.08	36.40	34.78	137.50	-2,108.10	823.32	486.96	421.76	65.19	7.469		
	12,388.61	14,436.38	12,747.61	37.51	35.95	137.50	-2,100.10	824.23	486.96	420.38	66.58	7.314		
,200.00	12,389.14	14,536.38	12,747.01	38.63	37.12	137.50	-2,308.09	825.13	486.96	418.97	67.99	7.163		
00	,,_,	,200.00	_,	33.30			_,_,,,,,,,	0.10	. 50.00		37.00			
300.00	12,389.66	14,636.38	12,748.66	39.77	38.31	137.50	-2,408.09	826.04	486.96	417.53	69.42	7.014		
400.00	12,390.19	14,736.38	12,749.18	40.92	39.51	137.50	-2,508.08	826.95	486.96	416.07	70.89	6.869		
500.00	12,390.71	14,836.38	12,749.71	42.08	40.72	137.50	-2,608.08	827.86	486.96	414.58	72.37	6.728		
600.00	12,391.24	14,936.38	12,750.23	43.26	41.94	137.50	-2,708.07	828.77	486.96	413.07	73.88	6.591		
700.00	12,391.77	15,036.38	12,750.76	44.44	43.17	137.50	-2,808.06	829.68	486.96	411.54	75.42	6.457		
,800.00	12,392.29	15,136.38	12,751.29	45.64	44.40	137.50	-2,908.06	830.59	486.96	409.99	76.97	6.327		
900.00	12,392.82	15,236.38	12,751.81	46.84	45.65	137.50	-3,008.05	831.49	486.96	408.42	78.54	6.200		
00.000	12,393.34	15,336.38	12,752.34	48.05	46.90	137.50	-3,108.05	832.40	486.96	406.83	80.12	6.078		
,100.00	12,393.87	15,436.38	12,752.86	49.27	48.16	137.50	-3,208.04	833.31	486.96	405.23	81.73	5.958		
,200.00	12,394.40	15,536.38	12,753.39	50.50	49.42	137.50	-3,308.04	834.22	486.96	403.61	83.35	5.842		

Anticollision Report



Civitas Resources Company:

Project: Lea County, NM (NAD 83)

Junior Mint Fed Pad Reference Site:

0.00 usft Site Error:

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft

Reference Wellbore ОН Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Reference	Design:	Plan #	<u>1</u> 2				Offset TV	/D Referenc	ce:		eference Da	nai Produci itum		
Offset De	sign: ^{Juni}	or Mint Fed	l Pad - Ju	nior Mint Fe	ed 224H - C	OH - Plan #2							Offset Site Error:	0.00 us
urvey Prog		-MWD+HRGM-								Rule Assi	gned:		Offset Well Error:	0.50 us
Refe Measured	rence Vertical	Off Measured	set Vertical	Semi M Reference	Major Axis Offset	Highside	Offset Wellb	ore Centre	Dis Between	tance Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	waning	
15,400.00	12,395.45	15,736.38	12,754.44	52.97	51.96	137.50	-3,508.03	836.04	486.96	400.33	86.63	5.621		
15,500.00	12,395.97	15,836.38	12,754.97	54.21	53.24	137.50	-3,608.02	836.95	486.96	398.66	88.29	5.515		
15,600.00	12,396.50	15,936.38	12,755.49	55.47	54.52	137.50	-3,708.01	837.85	486.96	396.99	89.97	5.413		
15,700.00	12,390.00	16,036.38	12,756.02	56.72	55.81	137.50	-3,808.01	838.76	486.96	395.30	91.65	5.313		
15,800.00	12,397.55	16,136.38	12,756.54	57.98	57.09	137.50	-3,908.00	839.67	486.96	393.61	93.35	5.217		
15,900.00	12,398.08	16,236.38	12,757.07	59.25	58.39	137.50	-4,008.00	840.58	486.96	391.90	95.06	5.123		
16,000.00	12,398.60	16,336.38	12,757.60	60.52	59.68	137.50	-4,107.99	841.49	486.96	390.18	96.77	5.032		
16,100.00	12,399.13	16,436.38	12,758.12	61.79	60.98	137.50	-4,207.99	842.40	486.96	388.46	98.50	4.944		
16,200.00	12,399.65	16,536.38	12,758.65	63.07	62.29	137.50	-4,307.98	843.31	486.96	386.72	100.24	4.858		
16,300.00 16,400.00	12,400.18 12,400.71	16,636.38 16,736.38	12,759.17 12,759.70	64.35 65.63	63.59 64.90	137.50 137.50	-4,407.98 -4,507.97	844.21 845.12	486.96 486.96	384.98 383.22	101.98 103.73	4.775 4.694		
10,400.00	12,400.71	10,730.30	12,755.70	03.03	04.90	137.30	-4,507.57	043.12	400.90	303.22	103.73	4.034		
16,500.00	12,401.23	16,836.38	12,760.23	66.92	66.21	137.50	-4,607.96	846.03	486.96	381.46	105.49	4.616		
16,600.00	12,401.76	16,936.38	12,760.75	68.21	67.52	137.50	-4,707.96	846.94	486.96	379.70	107.26	4.540		
16,700.00	12,402.28	17,036.38	12,761.28	69.51	68.84	137.50	-4,807.95	847.85	486.96	377.92	109.03	4.466		
16,800.00	12,402.81	17,136.38	12,761.80	70.80	70.16	137.50	-4,907.95	848.76	486.96	376.14	110.81	4.394		
16,900.00	12,403.34	17,236.38	12,762.33	72.10	71.47	137.50	-5,007.94	849.67	486.96	374.35	112.60	4.325		
17,000.00	12,403.86	17,336.38	12,762.86	73.40	72.79	137.50	-5,107.94	850.57	486.96	372.56	114.39	4.257		
17,100.00	12,404.39	17,436.38	12,763.38	74.71	74.12	137.50	-5,207.93	851.48	486.96	370.76	116.19	4.191		
17,200.00	12,404.91	17,536.38	12,763.91	76.01	75.44	137.50	-5,307.93	852.39	486.96	368.96	118.00	4.127		
17,300.00	12,405.44	17,636.38	12,764.43	77.32	76.77	137.50	-5,407.92	853.30	486.96	367.15	119.81	4.064		
17,400.00	12,405.96	17,736.38	12,764.96	78.63	78.09	137.50	-5,507.92	854.21	486.96	365.33	121.62	4.004		
17,500.00	12,406.49	17,836.38	12,765.48	79.94	79.42	137.50	-5,607.91	855.12	486.96	363.51	123.44	3.945		
17,600.00	12,407.02	17,936.38	12,766.01	81.26	80.75	137.50	-5,707.90	856.02	486.96	361.69	125.26	3.887		
17,700.00	12,407.54	18,036.38	12,766.54	82.57	82.08	137.50	-5,807.90	856.93	486.96	359.86	127.09	3.832		
17,800.00	12,408.07	18,136.38	12,767.06	83.89	83.42	137.50	-5,907.89	857.84	486.96	358.03	128.92	3.777		
17,900.00	12,408.59	18,236.38	12,767.59	85.21	84.75	137.50	-6,007.89	858.75	486.96	356.19	130.76	3.724		
19 000 00	10 400 10	10 226 20	10.760.11	06.53	96.09	127 50	6 107 00	050.66	496.06	254.25	122.60	2.672		
18,000.00	12,409.12 12,409.65	18,336.38	12,768.11 12,768.64	86.53	86.08	137.50	-6,107.88	859.66 860.57	486.96	354.35	132.60	3.672		
18,100.00		18,436.38		87.85	87.42	137.50	-6,207.88		486.96	352.51	134.44	3.622		
18,200.00	12,410.17	18,536.38	12,769.17	89.18	88.76	137.50	-6,307.87	861.48	486.96	350.66	136.29	3.573		
18,300.00 18,400.00	12,410.70 12,411.22	18,636.38 18,736.38	12,769.69 12,770.22	90.50 91.83	90.09 91.43	137.50 137.50	-6,407.87 -6,507.86	862.38 863.29	486.96 486.96	348.81 346.96	138.14 140.00	3.525 3.478		
18,500.00	12,411.75	18,836.38	12,770.74	93.15	92.77	137.50	-6,607.85	864.20	486.96	345.10	141.85	3.433		
18,600.00	12,412.27	18,936.38	12,771.27	94.48	94.11	137.50	-6,707.85	865.11	486.96	343.24	143.71	3.388		
18,700.00	12,412.80	19,036.38	12,771.80	95.81	95.45	137.50	-6,807.84	866.02	486.96	341.38	145.58	3.345		
18,800.00 18,900.00	12,413.33 12,413.85	19,136.38 19,236.38	12,772.32 12,772.85	97.14 98.47	96.79 98.14	137.50 137.50	-6,907.84 -7,007.83	866.93 867.84	486.96 486.96	339.51 337.65	147.44 149.31	3.303 3.261		
10,900.00	12,413.03	19,230.30	12,772.03	90.47	30.14	137.30	-7,007.03	007.04	400.90	337.03	149.51	3.201		
19,000.00	12,414.38	19,336.38	12,773.37	99.81	99.48	137.50	-7,107.83	868.74	486.96	335.77	151.18	3.221		
19,100.00	12,414.90	19,436.38	12,773.90	101.14	100.82	137.50	-7,207.82	869.65	486.96	333.90	153.05	3.182		
19,200.00	12,415.43	19,536.38	12,774.42	102.47	102.17	137.50	-7,307.82	870.56	486.96	332.03	154.93	3.143		
19,300.00	12,415.96	19,636.38	12,774.95	103.81	103.51	137.50	-7,407.81	871.47	486.96	330.15	156.81	3.105		
19,400.00	12,416.48	19,736.38	12,775.48	105.15	104.86	137.50	-7,507.81	872.38	486.96	328.27	158.69	3.069		
19,500.00	12,417.01	19,836.38	12,776.00	106.48	106.21	137.50	-7,607.80	873.29	486.96	326.39	160.57	3.033		
19,600.00	12,417.53	19,936.38	12,776.53	107.82	107.55	137.50	-7,707.79	874.20	486.96	324.50	162.45	2.997		
19,700.00	12,418.06	20,036.38	12,777.05	109.16	108.90	137.50	-7,807.79	875.10	486.96	322.61	164.34	2.963		
19,800.00	12,418.59	20,136.38	12,777.58	110.50	110.25	137.50	-7,907.78	876.01	486.96	320.73	166.23	2.929		
19,900.00	12,419.11	20,236.38	12,778.11	111.84	111.60	137.50	-8,007.78	876.92	486.96	318.84	168.12	2.896		
20,000.00	12,419.64	20,336.38	12,778.63	113.18	112.95	137.50	-8,107.77	877.83	486.96	316.94	170.01	2.864		
20,100.00	12,420.16	20,436.38	12,779.16	114.52	114.30	137.50	-8,207.77	878.74	486.96	315.05	171.91	2.833		
20,200.00	12,420.69	20,536.38	12,779.68	115.86	115.65	137.50	-8,307.76	879.65	486.96	313.15	173.80	2.802		
20,300.00	12,420.03	20,636.38	12,779.00	117.20	117.00	137.50	-8,407.76	880.56	486.96	311.26	175.70	2.772		
20,400.00	12,421.74	20,736.38	12,780.74	118.55	118.35	137.50	-8,507.75	881.46	486.96	309.36	177.60	2.742		
20,500.00	12,422.27	20,836.38	12,781.26	119.89	119.70	137.50	-8,607.74	882.37	486.96	307.46	179.50	2.713		

Anticollision Report



Company: Civitas Resources
Project: Lea County, NM (NAD 83)

Plan #2

Reference Site: Junior Mint Fed Pad

Site Error: 0.00 usft

Reference Well: Junior Mint Fed 218H

Well Error: 0.50 usft
Reference Wellbore OH

Reference Design:

Local Co-ordinate Reference: Well Junior Mint Fed 218H

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

MD Reference: GE 3220 + 26 @ 3246.00usft (26' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: .Total Directional Production DB

Offset TVD Reference: Reference Datum

urvey Progr		/WD+HRGM+								Rule Assig	gned:		Offset Well Error:	0.50 us
Measured	rence Vertical	Off Measured	Vertical	Semi N Reference	lajor Axis Offset	Highside	Offset Wellbo		Between	tance Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	(usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
20,600.00	12,422.79	20,936.38	12,781.79	121.24	121.05	137.50	-8,707.74	883.28	486.96	305.56	181.40	2.684		
20,700.00	12,423.32	21,036.38	12,782.31	122.58	122.41	137.50	-8,807.73	884.19	486.96	303.65	183.30	2.657		
20,800.00	12,423.84	21,136.38	12,782.84	123.93	123.76	137.50	-8,907.73	885.10	486.96	301.75	185.21	2.629		
20,900.00	12,424.37	21,236.38	12,783.36	125.27	125.11	137.50	-9,007.72	886.01	486.96	299.84	187.11	2.602		
21,000.00	12,424.90	21,336.38	12,783.89	126.62	126.46	137.50	-9,107.72	886.92	486.96	297.94	189.02	2.576		
21,100.00	12,425.42	21,436.38	12,784.42	127.97	127.82	137.50	-9,207.71	887.82	486.96	296.03	190.93	2.550		
21,200.00	12,425.95	21,536.38	12,784.94	129.31	129.17	137.50	-9,307.71	888.73	486.96	294.12	192.84	2.525		
1,300.00	12,426.47	21,636.38	12,785.47	130.66	130.53	137.50	-9,407.70	889.64	486.96	292.21	194.75	2.500		
21,400.00	12,427.00	21,736.38	12,785.99	132.01	131.88	137.50	-9,507.69	890.55	486.96	290.30	196.66	2.476		
21,500.00	12,427.52	21,836.38	12,786.52	133.36	133.24	137.50	-9,607.69	891.46	486.96	288.38	198.57	2.452		
21,600.00	12,428.05	21,936.38	12,787.05	134.71	134.59	137.50	-9,707.68	892.37	486.96	286.47	200.49	2.429		
21,700.00	12,428.58	22,036.38	12,787.57	136.06	135.95	137.50	-9,807.68	893.28	486.96	284.55	202.40	2.406		
21,800.00	12,429.10	22,136.38	12,788.10	137.41	137.30	137.50	-9,907.67	894.18	486.96	282.64	204.32	2.383		
21,900.00	12,429.63	22,236.38	12,788.62	138.76	138.66	137.50	-10,007.67	895.09	486.96	280.72	206.23	2.361		
22,000.00	12,430.15	22,336.38	12,789.15	140.11	140.01	137.50	-10,107.66	896.00	486.96	278.80	208.15	2.339		
22,100.00	12,430.68	22,436.38	12,789.67	141.46	141.37	137.50	-10,207.66	896.91	486.96	276.88	210.07	2.318		
2,200.00	12,431.21	22,536.38	12,790.20	142.81	142.73	137.50	-10,307.65	897.82	486.96	274.96	211.99	2.297		
22,300.00	12,431.73	22,636.38	12,790.73	144.16	144.09	137.50	-10,407.65	898.73	486.96	273.04	213.91	2.276		
2,400.00	12,432.26	22,736.38	12,791.25	145.51	145.44	137.50	-10,507.64	899.63	486.96	271.12	215.84	2.256		
2,500.00	12,432.78	22,836.38	12,791.78	146.87	146.80	137.50	-10,607.63	900.54	486.96	269.20	217.76	2.236		
22,600.00	12,433.31	22,936.38	12,792.30	148.22	148.16	137.50	-10,707.63	901.45	486.96	267.27	219.68	2.217		

Anticollision Report



Company: Civitas Resources Project: Lea County, NM (NAD 83)

Junior Mint Fed Pad Reference Site: 0.00 usft Site Error:

Junior Mint Fed 218H Reference Well:

Well Error: 0.50 usft Reference Wellbore ОН

Reference Design:

Well Junior Mint Fed 218H Local Co-ordinate Reference:

TVD Reference: GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

.Total Directional Production DB Database:

Offset TVD Reference: Reference Datum

Reference Depths are relative to GE 3220 + 26 @ 3246.00usft (26' KB)

Offset Depths are relative to Offset Datum

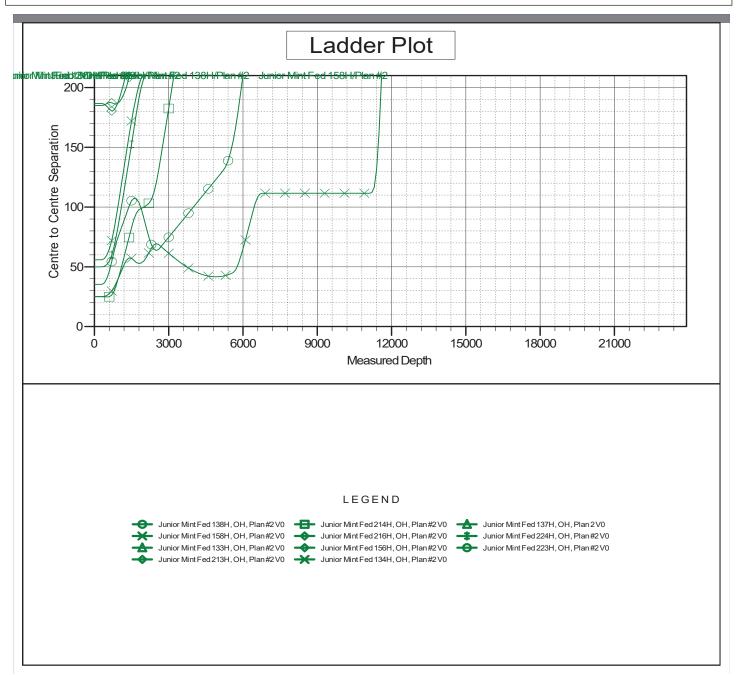
Plan #2

Central Meridian is -104.3333333

Coordinates are relative to: Junior Mint Fed 218H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.52°



Anticollision Report

TVD Reference:

MD Reference:

Output errors are at

Local Co-ordinate Reference:



Civitas Resources Company: Project: Lea County, NM (NAD 83) Junior Mint Fed Pad Reference Site:

Plan #2

0.00 usft Site Error:

Junior Mint Fed 218H Reference Well:

Well Error: 0.50 usft Reference Wellbore ОН

Reference Design:

North Reference: **Survey Calculation Method:**

> .Total Directional Production DB Database:

Well Junior Mint Fed 218H

Minimum Curvature

2.00 sigma

GE 3220 + 26 @ 3246.00usft (26' KB) GE 3220 + 26 @ 3246.00usft (26' KB)

Offset TVD Reference: Reference Datum

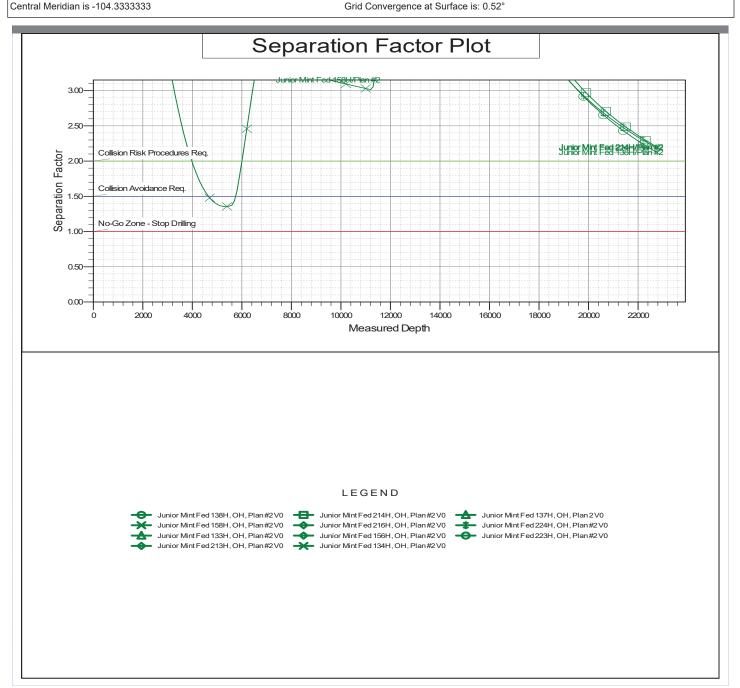
Reference Depths are relative to GE 3220 + 26 @ 3246.00usft (26' KB)

Offset Depths are relative to Offset Datum

Coordinates are relative to: Junior Mint Fed 218H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.52°



<u>C-102</u>			Energy		State of Nev	v Mexico ll Resources	Denartment		Revise	ed July 9, 2024
Submit Electronic Via OCD Permit				*		TION DIVIS		-	X Initial Submittal	
								Submittal	Amended Report	
								Type:	As Drilled	
L		W	ELL LC	CATIO	N AND AC	REAGE DI	EDICATION	N PLAT		
API Number 30-025-			Pool Code	17980	Pool N	lame	DOGIE DR		LFCAMP	
Property Code		,	Property Name		JUNIOR	MINT FED			Well Number	218H
OGRID No.	332195		Operator Name		AS PERMIAI	N OPERATIN	IG, LLC		Ground Level Elev	ation 3224'
Surface Owner:	State Fee	Tribal 🔀 Federal				Mineral Owner:	State Fee Tribal	X Federal		
					Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S		Latitude	<u> </u>	Longitude	County
0	10	25-S	35-E	-	549' S	1610' E	N 32.1391	334 W	103.3520685	LEA
		<u> </u>	I	<u> </u>	Bottom Ho	le Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude		Longitude	County
Р	22	25-S	35-E	-	5' S	331' E	N 32.1085	997 W	103.3479335	LEA
		•		•	•					
Dedicated Acres		ning Well Defin	-	= 4=00 <i>(</i>	40411)	Overlapping Spacing		Consolida		
1280.00	Infi		30-025	54739 (131H)		N		N/A	
Order Numbers		NSP				Well Setbacks are ur	nder Common Ownersh	nip: XYes N	lo	
					Kick Off F	Point (KOP)				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	1	Latitude		Longitude	County
A	15	25-S	35-E	-	100' N	331' E	N 32.1373	419 W 1	03.3479290	LEA
					First Take	Point (FTP)				
UL or lot no.	Section	Township	Range	Lot Idn		Feet from the E/W	Latitude		Longitude	County
A	15	25-S	35-E	-	100' N	331' E	N 32.1373	419 W 1	103.3479290	LEA
					Last Take	Point (LTP)		Į.		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S		Latitude		Longitude	County
P	22	25-S	35-E	-	100' S	331' E	N 32.1088	609 W 1	103.3479334	LEA
			l .		<u> </u>			L		
Unitized Area or A	rea of Uniform I	ntrest		Spacing Unity	Type	al Vertical	Ground	l Floor Elevation	00041	
		<u>'</u>			Milonzone	arverticus			3224'	
I hereby certi best of my kr that this orga in the land i well at this li or unleased m pooling order If this well is received The c unleased min	wiledge and nization either necluding the cotton pursual interest heretofore ent of at consent of at certal interest in the well's come	oformation con belief, and, if er owns a worn proposed botton ant to a contro st, or to a voli- ered by the di well, I furthe least one lesse in each tract (pleted interval	the well is a king interest or hole location out with an ountary pooling vision. r certify that e or owner of in the target will be located.	vertical or cor unleased no unleased no constant of a wo agreement of this organiza a working in pool or forma		I hereby certify on this plat wa actual surveys supervision, an correct to the b	RS CERTIFICA If that the well locus plotted from field made by me or und that the same is sest of my belief.	/-	24508 24508 25 9:53:41 AM	11/1=
V _C	ory Wall	K					I			
Print Name	n. (@	mitauras	- com			Certificate Number	Date	of Survey		
E-mail Address	ory wper	mitswest	COIII					06/07/2022		

Surface Location (ShL) Submittal Type: Interest	C-102 Submit Electronically		State of New	l Resources Depart	tment		Revised July 9, 202
Surface Location (SHL) New Mexico EAST NAD 1983 X-9450064 Y-415736 X-9450017 (FTP) New Mexico EAST NAD 1983 X-9450064 Y-415736 X-9450017 (FTP) New Mexico EAST NAD 1983 X-9464045 X-9415786 X-946018	Via OCD Permitting	(OIL CONSERVAT	ION DIVISION		Submittal	
SURFACE LOCATION (SHL) NEW MEXICO EAST NAD 1983 X-8469351 Y-41579.6 LAT: N 22.1981334 LONG: W 103.3520685 S49 FSL 1610 FEL KICK OFF POINT (KP) / FIRST TAKE POINT (FTP) NEW MEXICO EAST NAD 1983 X-846351 Y-41509.6 Y-4150						Type:	
SURFACE LOCATION (SHL) NEW MEXICO EAST NAD 1983	Property Name and Well Number		II INIIOD MIN	IT FED 24011			
SURFACE LOCATION (SHL) NEW MEXICO EAST NAD 1983 X-845064 Y-415736 LAT:: N 32.13991334 LONG:: W 103.3520885 549' FSL 1610' FFL KICK OFF POINT (KOP) / FIRST TAKE POINT (FTP) NEW MEXICO EAST NAD 1983 X-846351 Y-415096 LAT:: N 32.1373419 LONG:: W 103.3479290 100' FNL 331' FEL LISA MARIAN LONG:: W 103.3479335 LAT:: N 32.1389609 LONG:: W 103.3479335 SEMINATION (SHL) NEW MEXICO EAST NAD 1983 X-846351 Y-44(250.13) NEW MEXICO EAST NAD 1983 X-846446 Y-44(250.13) NEW MEXICO EAST NAD 1983 X-8464646 Y-44(250.13) X-8464646 Y-44(250.13) X-8464646 Y-44(250.13) X-8464646 Y-44(250.13) X-8464646 Y-44(250.13) X-846461834 Y-44(250.13) X-846463.52 X-84663.52		JUNIOR MIII	NI FED 218H				
SURVEYORS CERTIFICATION	NEW MEXICO EAST NAD 1983 X=845064 Y=415736 LAT.: N 32.1391334 LONG.: W 103.3520685 549' FSL 1610' FEL KICK OFF POINT (KOP) / FIRST TAKE POINT (FTP) NEW MEXICO EAST NAD 1983 X=846351 Y=415096 LAT.: N 32.1373419 LONG.: W 103.3479290	Y=415161.30 9 16 X=841421.67 Y=412523.10 16 21 X=841433.61 Y=409883.77	10 100' Y=415179.43 15	AZ = 116.44° 1437.6' NMNM 609	Y=41515 11 331' FTP/KO X=84670 Y=41256 14 23	BOT 15.59 10.13 BOT 1729.19 119.45	NEW MEXICO EAST
ETP I hereby certify that the well location shown plat was plotted from field notes of actual made by me or under my supervision, and same is true and correct to the best of my configuration.				<u>AZ = 179.49°</u>	331'	made b same is	by me or under my supervision, and that th s true and correct to the best of my belief.
Released to Imaging: 12/12/2025 10 43:49 AM 26		28 X=841486.78		X=844131.79	331 26 X=846	776.73 635.98	7/2022 Survey e and Seal of Professional Surveyor: DOM DOM DOM DOM DOM DOM DOM DO

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: CIVITAS	PERMIAN OI	PERATING, LLC	OGRID:	332195 D	ate: <u>04/17/2025</u>	
II. Type: ⊠ Original □	Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C □ 19.15.27.9.D	(6)(b) NMAC □	Other.
If Other, please describe:						
III. Well(s): Provide the be recompleted from a si					wells proposed to	be drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
SEE ATTACHED						
V. Anticipated Schedule proposed to be recomple Well Name	e: Provide the	following informat	ion for each nev	v or recompleted w	Initial F	s proposed to be drilled or Flow First Production
SEE ATTACHED						
VII. Operational Pract Subsection A through F	ices: ⊠ Attac of 19.15.27.8 I t Practices: ∑	h a complete descr NMAC.	ription of the ac	tions Operator wil	l take to comply	at to optimize gas capture. with the requirements of tices to minimize venting

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

XII. Line Capacity. The natural	gas gathering system] will □ will not	have capacity to g	ather 100% o	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) connected to the same segment, or portion	n, of the
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new	well(s).

\sqcup Attach Operator's plan to manage production in response to the increased line pres

XIV. Confidentiality: U Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information pi	rovided 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 in	ıformation
for which confidentiality is asserted and the basis for such assertion.	

Section 3 - Certifications <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🖂 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease: (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; fuel cell production; and (h)

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: Coy Walk
Printed Name: Cory Walk
Title: Consultant
E-mail Address: cory@permitswest.com
Date: 04/17/2025
Phone: (505) 466-8120
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

III. Well(s): Junior Mint E2 Pad

Well Name	API	ULSTR	Footages	Anticipated Oil (BBL/D)	Anticipated Gas (MCF/D)	Anticipated Produced Water (BBL/D)
Junior Mint Fed 113H	TBD	O-10-25S-35E	373' FSL/1477' FEL	620	800	960
Junior Mint Fed 117H	TBD	O-10-25S-35E	349' FSL/1558' FEL	620	800	960
Junior Mint Fed 118H	TBD	O-10-25S-35E	348' FSL/1452' FEL	620	800	960
Junior Mint Fed 123H	TBD	O-10-25S-35E	374' FSL/1558' FEL	620	800	960
Junior Mint Fed 124H	TBD	O-10-25S-35E	373' FSL/1453' FEL	620	800	960
Junior Mint Fed 133H	TBD	O-10-25S-35E	525' FSL/1740' FEL	620	800	960
Junior Mint Fed 134H	TBD	O-10-25S-35E	525' FSL/1715' FEL	620	800	960
Junior Mint Fed 138H	TBD	O-10-25S-35E	524' FSL/1635' FEL	620	800	960
Junior Mint Fed 156H	TBD	O-10-25S-35E	350' FSL/1663' FEL	620	800	960
Junior Mint Fed 158H	TBD	O-10-25S-35E	350' FSL/1638' FEL	620	800	960
Junior Mint Fed 213H	TBD	O-10-25S-35E	550' FSL/1740' FEL	620	800	960
Junior Mint Fed 214H	TBD	O-10-25S-35E	549' FSL/1635' FEL	620	800	960
Junior Mint Fed 216H	TBD	O-10-25S-35E	550' FSL/1715' FEL	620	800	960
Junior Mint Fed 218H	TBD	O-10-25S-35E	549' FSL/1610' FEL	620	800	960
Junior Mint Fed 223H	TBD	O-10-25S-35E	375' FSL/1663' FEL	620	800	960
Junior Mint Fed 224H	TBD	O-10-25S-35E	375' FSL/1637' FEL	620	800	960

V. Anticipated Schedule: Junior Mint E2 Pad

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Junior Mint Fed 113H	TBD	9/12/2026	12/11/2026	3/11/2027	3/31/2027	4/20/2027
Junior Mint Fed 117H	TBD	9/10/2026	12/9/2026	3/9/2027	3/29/2027	4/18/2027
Junior Mint Fed 118H	TBD	9/13/2026	12/12/2026	3/12/2027	4/1/2027	4/21/2027
Junior Mint Fed 123H	TBD	9/14/2026	12/13/2026	3/13/2027	4/2/2027	4/22/2027
Junior Mint Fed 124H	TBD	9/15/2026	12/14/2026	3/14/2027	4/3/2027	4/23/2027
Junior Mint Fed 133H	TBD	3/28/2026	6/26/2026	9/24/2026	10/14/2026	11/3/2026
Junior Mint Fed 134H	TBD	2/22/2026	5/23/2026	8/21/2026	9/10/2026	9/30/2026
Junior Mint Fed 138H	TBD	2/23/2026	5/24/2026	8/22/2026	9/11/2026	10/1/2026
Junior Mint Fed 156H	TBD	3/27/2026	6/25/2026	9/23/2026	10/13/2026	11/2/2026
Junior Mint Fed 158H	TBD	2/12/2026	5/13/2026	8/11/2026	8/31/2026	9/20/2026
Junior Mint Fed 213H	TBD	4/1/2026	6/30/2026	9/28/2026	10/18/2026	11/7/2026
Junior Mint Fed 214H	TBD	2/25/2026	5/26/2026	8/24/2026	9/13/2026	10/3/2026
Junior Mint Fed 216H	TBD	3/29/2026	6/27/2026	9/25/2026	10/15/2026	11/4/2026
Junior Mint Fed 218H	TBD	2/26/2026	5/27/2026	8/25/2026	9/14/2026	10/4/2026
Junior Mint Fed 223H	TBD	3/30/2026	6/28/2026	9/26/2026	10/16/2026	11/5/2026
Junior Mint Fed 224H	TBD	2/27/2026	5/28/2026	8/26/2026	9/15/2026	10/5/2026



Civitas Permian Operating Natural Gas Management Plan

VI. Separation Equipment:

Each surface facility design includes the following process equipment: Multiphase test measurement per upstream pad, 3-phase separators, a sales gas scrubber, heater treaters, a VRU compressor, multiple water and oil tanks, as well as flare knockouts (HP & LP), and flares (HP & LP - combined). All process vessels will be sized to separate oil, water, gas based upon typical/historical & predicted well performance. Each process vessel will be fitted with an appropriately sized PSV as per ASME code requirements to mitigate vessel rupture and loss of containment. Additionally, the process vessels will be fitted with pressure transmitters tied to the facility control system which will allow operations to monitor pressures and when necessary, shut in the facility to avoid vessel over-pressure and the potential vent of natural gas. Natural gas will preferentially be sold to pipeline, and only during upset/emergency conditions will gas be directed to the flare system. Aboveground steel oil tanks & water tanks will be fitted with 32 oz thief hatches as well as PRVs to protect the tanks from rupture/collapse. Additionally, the tank vapor outlets will preferentially be directed to the VRU and the sales gas pipeline. Only during process upsets/emergency conditions will tank vapors be directed to the LP flare system.

VII. Operational Practices:

- During drilling operations, gas meters will be installed at the shakers and Volume Totalizers will be installed on the pits. In the event that elevated gas levels, or a pit gain are observed, returns will be diverted to a gas buster. Gas coming off the gas buster will be combusted at the flare stack. A 10' or taller flare will be located at least 100' from the SHL.
- During completions operations, including stimulation and frac plug drill out operations, hydrocarbon production to surface is minimized. When gas production does occur, gas will be combusted at a flare stack. A 10' or taller flare will be located at least 100' from the SHL.
- During production operations, all process vessels (separators, heater treaters, tanks) will recompress (where necessary) and route gas outlets into the natural gas gathering pipeline. Gas will preferentially be routed to natural gas gathering pipeline and the flare system will be used only during emergencies, malfunction, or if the gas does not meet pipeline specifications. In the event of flaring off-specification gas, operations will pull gas samples twice a week and will also route gas back to pipeline as soon as the gas meets specification. Exceptions to this will include only those qualified emergencies as mentioned in the BLM Waste Prevention Rule.



be designed to handle the maximum anticipated throughput and pressure to minimize waste and reduce the likelihood of venting gas to atmosphere. Additionally, each storage tank (Oil & Water) will be fitted with a level transmitter to facilitate gauging of the tank without opening of the thief hatch. Any gas collected through the tank vent system is expected to be recompressed and routed to sales. However, in the event of an emergency, the tank vapor system will be designed to combust the gas using a flare stack fitted with a continuous or automatic ignitor. The flare stack will be properly anchored and will be located a minimum of 100 feet from the well and storage tanks. Operators will conduct weekly AVO inspections. These AVO inspection records will be stored for the required 5-year period and will be made available upon Division request.

VIII. Best Management Practices:

When performing routine or preventive maintenance on a vessel or tank, initially all inlet valves are closed, and the vessel or tank is allowed to depressurize through the normal outlet connections to gas sales and/or liquid tanks. Once the vessel or tank is depressurized to lowest acceptable sales outlet pressure, usually around 20 psig, a temporary low-pressure flowline is connected from the vessel or tank to the Vapor Recovery Unit (VRU) for further pressure reduction. Once depressurized to less than 1-2 psig, the remaining natural gas in the vessel or tank is vented to atmosphere through a controlled pressure relief valve. Once the vessel or tank is depressurized to atmospheric pressure, the vessel or tank can be safely opened, and maintenance performed.



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

Drilling Plan Data Report 04/11/2025

APD ID: 10400086515 **Submission Date:** 07/05/2022

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED Well Number: 218H

Well Type: CONVENTIONAL GAS WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9894246	QUATERNARY	3224	0	0	OTHER : Caliche	NONE	N
9894247	RUSTLER	2564	660	660	SALT	OTHER : Salt	N
9894248	TOP SALT	2124	1100	1100	SALT	OTHER : Salt	N
9894249	BASE OF SALT	-1696	4920	4934	SALT	OTHER : Salt	N
9894250	DELAWARE	-1936	5160	5223	OTHER, SANDSTONE : Mountain Group	NONE	N
9894251	LAMAR	-1941	5165	5229	SANDSTONE	NATURAL GAS, OIL	N
9894252	BELL CANYON	-1961	5185	5249	SANDSTONE	NATURAL GAS, OIL	N
9894253	RAMSEY SAND	-1981	5205	5269	SANDSTONE	NATURAL GAS, OIL	N
9894254	CHERRY CANYON	-2926	6150	6234	OTHER : Carbonate	NATURAL GAS, OIL	N
9894255	BRUSHY CANYON	-4396	7620	7734	SANDSTONE	NATURAL GAS, OIL	N
9894256	BONE SPRING LIME	-5706	8930	9059	OTHER : Carbonate	NATURAL GAS, OIL	N
9894257	UPPER AVALON SHALE	-5731	8955	9084	OTHER : Carbonate	NATURAL GAS, OIL	N
9894258	AVALON SAND	-5961	9185	9314	OTHER : Middle Carbonate	NATURAL GAS, OIL	N
9894259	BONE SPRING 1ST	-6941	10165	10294	SANDSTONE	NATURAL GAS, OIL	N
9894260	BONE SPRING 2ND	-7106	10330	10459	OTHER : Carbonate	NATURAL GAS, OIL	N
9894261	BONE SPRING 2ND	-7491	10715	10844	SANDSTONE	NATURAL GAS, OIL	N
9894244	BONE SPRING 3RD	-8041	11265	11394	OTHER : Carbonate	NATURAL GAS, OIL	N

Well Name: JUNIOR MINT FED Well Number: 218H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9894245	BONE SPRING 3RD	-8671	11895	12024	SANDSTONE	NATURAL GAS, OIL	N
9894262	WOLFCAMP	-8986	12210	12383	OTHER : A	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

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

Equipment: At 22,921', a 10M pressure control system is required. The BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A top drive check valve and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. The wellhead will be a multi-bowl speed head.

Requesting Variance? YES

Variance request: Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate and Production Strings. Tap Rock requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Tap Rock requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, after cementing a casing string, a 10M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test. Tap Rock requests a variance to use a 5000 psi annular BOP on a 10M BOP stack. The annular will be tested to 250 psi low and 5,000 psi high.

Testing Procedure: After surface casing is set and the BOP is nippled up, the BOP pressure tests will be made with a third party tester to 250 psi low, 10000 psi high, and the annular preventer will be tested to 250 psi low, 5000 psi high. The BOP will be tested in this manner after nipple-up if any break of the stack occurs.

Choke Diagram Attachment:

Choke_Diagram_032918_20220704113646.pdf

BOP Diagram Attachment:

10M_BOP_Stack_5M_Annular_Preventer_20220704113654.pdf

Section 3 - Casing

1 SURFACE 14.7 11.75 NEW API N 0 685 0 685 3224 2539 685 J-55 42 BUTT 1.13 1.15 DRY 1.6 DRY 1.6	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	14.7 5	11.75	NEW	API	N	0	685	0	685	3224	2539	685	J-55	42	BUTT	1.13	1.15	DRY	1.6	DRY	1.6

Well Name: JUNIOR MINT FED Well Number: 218H

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
2	PRODUCTI ON	6.75	5.5	NEW	NON API	N	0	11637	0	11508	3221	-8284	11637	P- 110	-	OTHER - TXP	1.13	1.15	DRY	1.6	DRY	1.6
3	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	11837	0	11708	3221	-8484	11837	P- 110	29.7	BUTT	1.13	1.15	DRY	1.6	DRY	1.6
4	PRODUCTI ON	6.75	5.5	NEW	NON API	N	11637	22921	11508	12434	-8284	-9210	11284	P- 110	_	OTHER - W441	1.13	1.15	DRY	1.6	DRY	1.6

Casing	Attach	ments
--------	--------	-------

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220704113723.pdf

Casing ID: 2

String

PRODUCTION

Inspection Document:

Spec Document:

5.5in_TXP_Casing_Spec_20220704113806.PDF

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220704113813.pdf

Well Name: JUNIOR MINT FED Well Number: 218H

Casing Attachments

Casing ID: 3

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220704113745.pdf

Casing ID: 4

String

PRODUCTION

Inspection Document:

Spec Document:

5.5in_W441_Casing_Spec_20220704113838.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220704113850.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	None	None
PRODUCTION	Tail		1163 7	2292 1	912	1.24	14.5	1131	20	Class H	Fluid Loss + Dispersant + Retarder + LCM
SURFACE	Lead		0	385	183	1.82	13.5	334	100	Class C	5% NCI + LCM
SURFACE	Tail		385	685	194	1.34	14.8	260	100	Class C	5% NCI + LCM
INTERMEDIATE	Lead		0	1083 7	894	4.29	10.5	3835	65	Class C	Bentonite + 1% CaCL2 + 8% NaCL+

Well Name: JUNIOR MINT FED Well Number: 218H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		1083 7	1183 7	212	1.67	13.2	354	65	Class C	5% NaCL + LCM

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 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: All necessary mud products (i.e., barite, pac) for weight addition and fluid loss control will always be on site. Mud program is subject to change due to hole conditions.

Describe the mud monitoring system utilized: Electronic Pason mud monitor system complying with Onshore Order 1 will be used.

Circulating Medium Table

99 Top Depth	Bottom Depth	ed L pn W OTHER : Diesel	တ် Min Weight (lbs/gal)	က် Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
003	7	Brine Emulsion	9.2	9.2							
1183 7	2292 1	OIL-BASED MUD	12.5	12.5							
0	685	OTHER : Fresh Water Spud Mud	8.4	8.4							

Well Name: JUNIOR MINT FED Well Number: 218H

Section 6 - Test, Logging, Coring

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

Electric Logging Program: No open-hole logs are planned at this time for the pilot hole. GR will be collected while drilling through the MWD tools from KOP to TD. A 2-person mud logging program will be used from KOP to TD. CBL w/ CCL from as far as gravity will let it fall to TOC.

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

CEMENT BOND LOG, GAMMA RAY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

No DSTs or cores are planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8082 Anticipated Surface Pressure: 5346

Anticipated Bottom Hole Temperature(F): 200

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

JM_E2_H2S_Plan_v2_RDC_20221112103221.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

JM_218H_Horizontal_Plan_20220704114037.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

JM_218H_Drill_Plan_20220704114046.pdf

CoFlex_Certs_20220704114117.pdf

JM_218H_Anticollision_Report_20220704114128.pdf

Wellhead_3T_11.75_1.625_5.5_062922_20220704114137.pdf

Well_Control_Plan_10M_BOP_5M_Annular_20220704114137.pdf

Other Variance attachment:

Received by OCD: 11/17/2025 8:20:48 AM

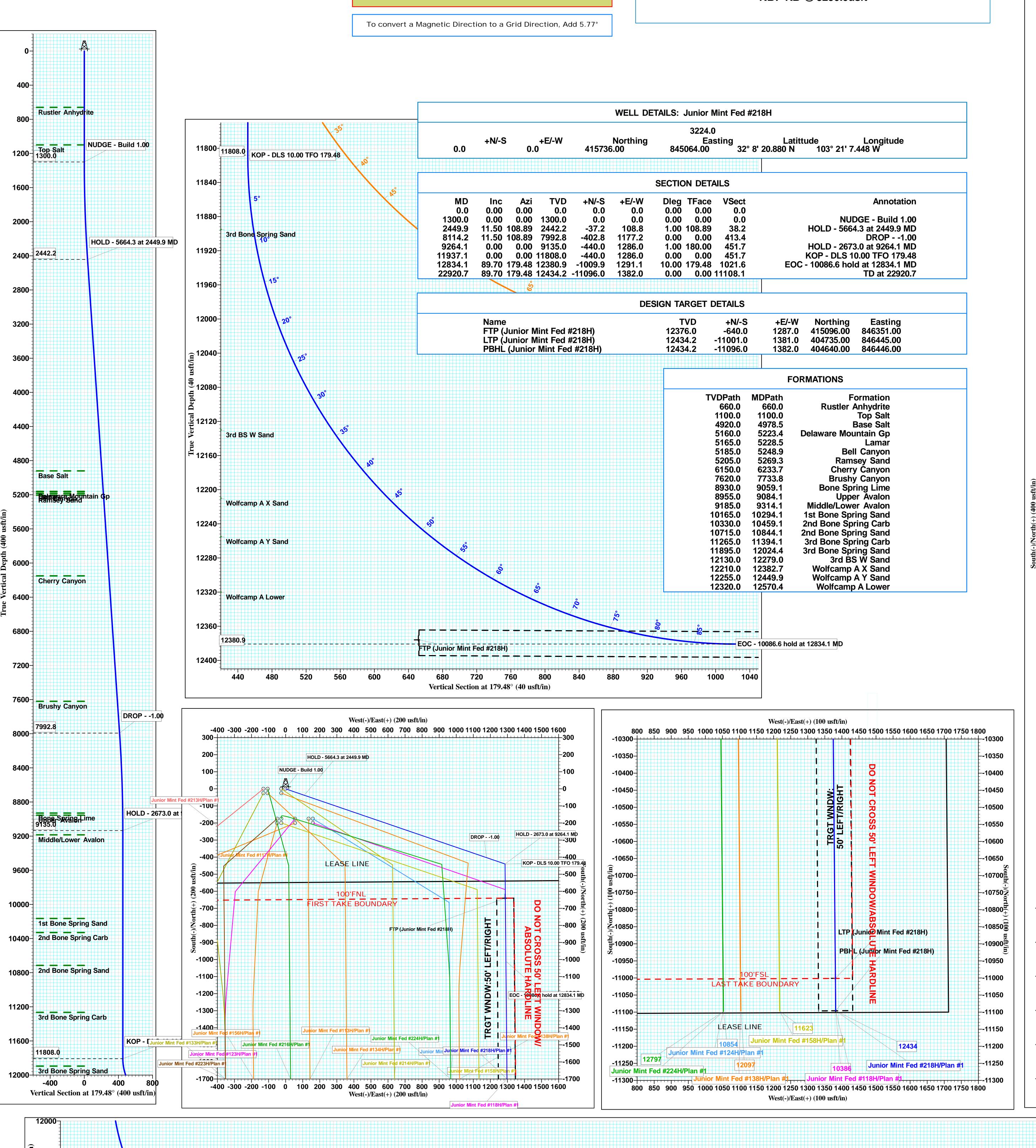
T M A

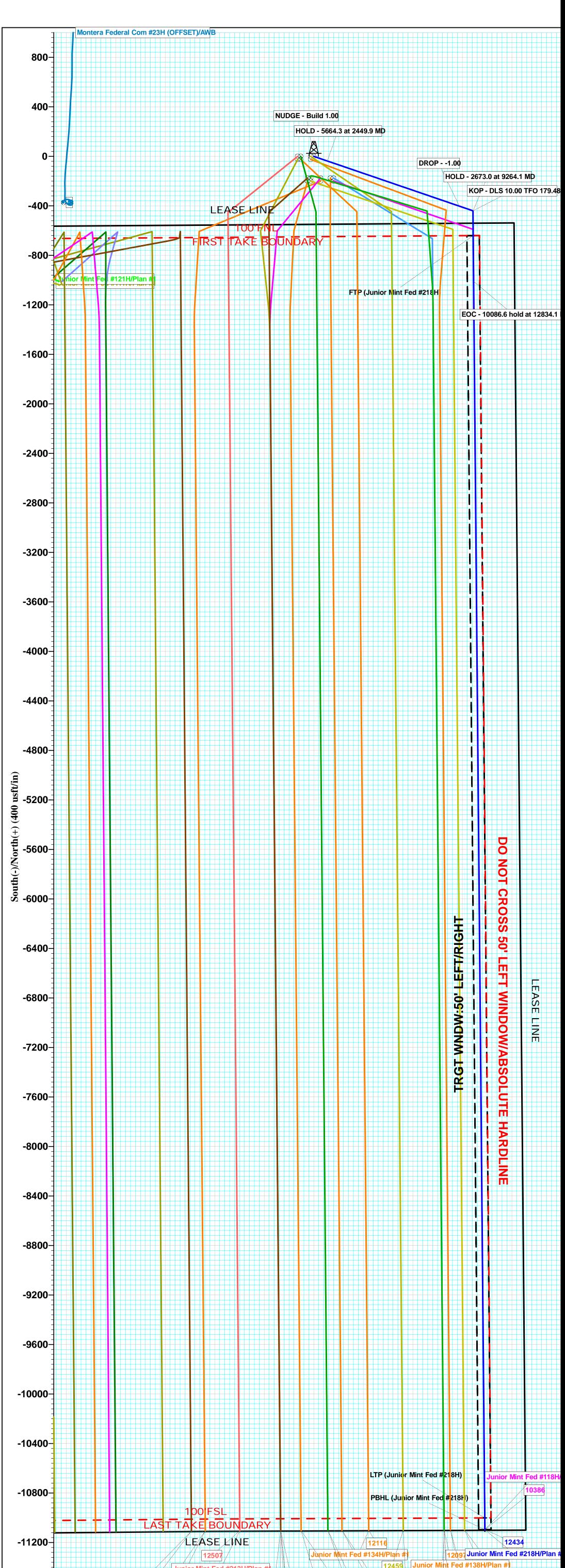
Azimuths to Grid North True North: -0.52° Magnetic North: 5.77°

> Magnetic Field Strength: 47396.5nT Dip Angle: 59.95° Date: 06/22/2022 Model: IGRF2015

Tap Rock Resources, LLC
Project: Lea County, NM (NAD 83 NME)
Site: (Junior Mint Fed) Sec-15_T-25-S_R-35-E
Well: Junior Mint Fed #218H
Wellbore: OWB
Design: Plan #1
Lat: 32° 8' 20.880 N

Design: Plan #1
Lat: 32° 8' 20.880 N
Long: 103° 21' 7.448 W
Pad GL: 3224.0
KB: KB @ 3250.0usft





Junior Mint Fed #137H/Plan #1

Music Master 27 Federal #3H (OFFSET)/AWE

West(-)/East(+) (400 usft/in)

WHATREPID

TRGT WNDW: 10'ABOVE / 10'BELOW

Wolfcamp A X Sand
Wolfcamp A Y Sand
Wolfcamp A Cover
FIP (Junior Mint Fed #218H)

LTP (Junior Mint Fed #218H)

PBHL (Junior Mint Fed #218H)

PBHL (Junior Mint Fed #218H)

PBHL (Junior Mint Fed #218H)

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PBHL (Junior Mint Fed #218H)

Vertical Section at 179.48° (300 usft/in)



Tap Rock Resources, LLC

Lea County, NM (NAD 83 NME) (Junior Mint Fed) Sec-15_T-25-S_R-35-E Junior Mint Fed #218H

OWB

Plan: Plan #1

Standard Planning Report

27 June, 2022





Intrepid Planning Report



Database: EDM 5000.15 Single User Db Company: Tap Rock Resources, LLC Project: Lea County, NM (NAD 83 NME)

Site: (Junior Mint Fed) Sec-15_T-25-S_R-35-E

Well: Junior Mint Fed #218H

Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Junior Mint Fed #218H

179.48

KB @ 3250.0usft KB @ 3250.0usft

Grid Minimum Curvature

Project Lea County, NM (NAD 83 NME)

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

System Datum: Mean Sea Level

0.0

Site (Junior Mint Fed) Sec-15_T-25-S_R-35-E

Northing: 414,725.00 usft 32° 8' 11.068 N Site Position: Latitude: From: Мар Easting: 842,925.00 usft Longitude: 103° 21' 32.430 W **Position Uncertainty: Slot Radius:** 13-3/16 " **Grid Convergence:** 0.52° 0.0 usft

Well Junior Mint Fed #218H

 Well Position
 +N/-S
 1,011.0 usft
 Northing:
 415,736.00 usft
 Latitude:
 32° 8′ 20.880 N

 +E/-W
 2,139.0 usft
 Easting:
 845,064.00 usft
 Longitude:
 103° 21′ 7.448 W

Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,224.0 usft

Wellbore **OWB** Declination **Field Strength** Magnetics Model Name Sample Date **Dip Angle** (°) (°) (nT) 47.396.49088066 IGRF2015 06/22/22 6.29 59.95

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

0.0

Plan Survey Tool Program Date 06/27/22

Depth From Depth To

0.0

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.0 22,920.4 Plan #1 (OWB) MWD

OWSG MWD - Standard

Plan Sections Vertical Build Measured Dogleg Turn Depth Inclination **Azimuth** Depth +N/-S +E/-W Rate Rate Rate **TFO** (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (usft) (°) (°) (°) **Target** 0.00 0.0 0.00 0.0 0.0 0.00 0.00 0.00 0.00 0.0 1.300.0 0.00 0.00 1.300.0 0.0 0.0 0.00 0.00 0.00 0.00 2,449.9 -37.2 108.8 0.00 11.50 108.89 2,442.2 1.00 1.00 108.89 8,114.2 11.50 7,992.8 -402.8 1.177.2 0.00 0.00 0.00 0.00 108.89 -440.0 9,264.1 0.00 0.01 9,135.0 1.286.0 1.00 -1.00 0.00 180.00 11,937.1 0.00 0.01 11,808.0 -440.0 1,286.0 0.00 0.00 0.00 0.01 12,834.1 89.70 179.48 12,380.9 -1,009.9 1,291.1 10.00 10.00 20.01 179.48 22.920.7 89.70 179.48 12,434.2 -11,096.0 1,382.0 0.00 0.00 0.00 0.00 PBHL (Junior Mint F



IntrepidPlanning Report



Database: ED Company: Ta Project: Lea Site: (Ju

EDM 5000.15 Single User Db Tap Rock Resources, LLC Lea County, NM (NAD 83 NME)

(Junior Mint Fed) Sec-15_T-25-S_R-35-E

Well: Junior Mint Fed #218H

Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Junior Mint Fed #218H

KB @ 3250.0usft KB @ 3250.0usft

Grid

Design:	Plan #1								
Name at Commercia									
lanned Survey									
									_
Measured			Vertical		=,,,,,	Vertical Section	Dogleg	Build	Turn Rate
Depth (usft)	Inclination	Azimuth	Depth (usft)	+N/-S	+E/-W	(usft)	Rate (°/100usft)	Rate (°/100usft)	(°/100usft)
(usit)	(°)	(°)	(usit)	(usft)	(usft)	(usit)	(/ Toousit)	(/ Toousit)	(/ loousit)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - E		0.00	.,555.5	0.0	0.0	0.0	0.00	0.00	5.55
1,400.0	1.00	108.89	1,400.0	-0.3	0.8	0.3	1.00	1.00	0.00
•			•						
1,500.0	2.00	108.89	1,500.0	-1.1	3.3	1.2	1.00	1.00	0.00
1,600.0	3.00	108.89	1,599.9	-2.5	7.4	2.6	1.00	1.00	0.00
1,700.0	4.00	108.89	1,699.7	-4.5	13.2	4.6	1.00	1.00	0.00
1,800.0	5.00	108.89	1,799.4	-7.1	20.6	7.2	1.00	1.00	0.00
1,900.0	6.00	108.89	1,898.9	-10.2	29.7	10.4	1.00	1.00	0.00
2,000.0	7.00	108.89	1,998.3	-13.8	40.4	14.2	1.00	1.00	0.00
2,100.0	8.00	108.89	2,097.4	-18.1	52.8	18.5	1.00	1.00	0.00
2,200.0	9.00	108.89	2,196.3	-22.8	66.7	23.4	1.00	1.00	0.00
2,300.0	10.00	108.89	2,294.9	-28.2	82.4	28.9	1.00	1.00	0.00
2,400.0	11.00	108.89	2,393.3	-34.1	99.6	35.0	1.00	1.00	0.00
2,449.9	11.50	108.89	2,442.2	-37.2	108.8	38.2	1.00	1.00	0.00
	64.3 at 2449.9 M		_,						
2,500.0	11.50	108.89	2,491.3	-40.5	118.3	41.5	0.00	0.00	0.00
2,600.0	11.50	108.89	2,589.3	-46.9	137.1	48.2	0.00	0.00	0.00
2,700.0	11.50	108.89	2,687.3	-53.4	156.0	54.8	0.00	0.00	0.00
2,800.0	11.50	108.89	2,785.3	-59.8	174.8	61.4	0.00	0.00	0.00
2,000,0		100.00	2 002 2	66.2			0.00		0.00
2,900.0 3,000.0	11.50 11.50	108.89 108.89	2,883.3 2,981.3	-66.3 -72.7	193.7 212.6	68.0 74.7	0.00 0.00	0.00 0.00	0.00 0.00
3,000.0	11.50	108.89	2,961.3 3,079.2	-72.7 -79.2	231.4	81.3	0.00	0.00	0.00
3,200.0	11.50	108.89	3,177.2	-79.2 -85.6	250.3	87.9	0.00	0.00	0.00
3,300.0	11.50	108.89	3,275.2	-92.1	269.2	94.5	0.00	0.00	0.00
•			·-						
3,400.0	11.50	108.89	3,373.2	-98.5	288.0	101.2	0.00	0.00	0.00
3,500.0	11.50	108.89	3,471.2	-105.0	306.9	107.8	0.00	0.00	0.00
3,600.0	11.50	108.89	3,569.2	-111.4	325.7	114.4	0.00	0.00	0.00
3,700.0	11.50	108.89	3,667.2	-117.9	344.6	121.0	0.00	0.00	0.00
3,800.0	11.50	108.89	3,765.2	-124.4	363.5	127.7	0.00	0.00	0.00
3,900.0	11.50	108.89	3,863.2	-130.8	382.3	134.3	0.00	0.00	0.00
4,000.0	11.50	108.89	3,961.2	-137.3	401.2	140.9	0.00	0.00	0.00
4,100.0	11.50	108.89	4,059.2	-143.7	420.0	147.5	0.00	0.00	0.00
4,200.0	11.50	108.89	4,157.2	-150.2	438.9	154.1	0.00	0.00	0.00
4,300.0	11.50	108.89	4,255.2	-156.6	457.8	160.8	0.00	0.00	0.00
4,400.0	11.50	108.89	4,353.2	-163.1	476.6	167.4	0.00	0.00	0.00
4,500.0	11.50	108.89	4,451.1	-169.5	495.5	174.0	0.00	0.00	0.00
4,600.0	11.50	108.89	4,549.1	-176.0	514.4	180.6	0.00	0.00	0.00
4,700.0	11.50	108.89	4,647.1	-182.4	533.2	187.3	0.00	0.00	0.00
4,800.0	11.50	108.89	4,745.1	-188.9	552.1	193.9	0.00	0.00	0.00
4,900.0	11.50	108.89	4,843.1	-195.3	570.9	200.5	0.00	0.00	0.00
4,900.0	11.50	100.09	4,043.1	-195.3	5/0.9	200.5	0.00	0.00	0.00



Well:

Intrepid **Planning Report**



EDM 5000.15 Single User Db Database: Company: Project: Site:

Tap Rock Resources, LLC Lea County, NM (NAD 83 NME) (Junior Mint Fed) Sec-15_T-25-S_R-35-E

Junior Mint Fed #218H

Wellbore: OWB Design: Plan #1 **Local Co-ordinate Reference:**

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Junior Mint Fed #218H

KB @ 3250.0usft KB @ 3250.0usft

Grid

Design.	FIAIT#1								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.0	11.50	108.89	4,941.1	-201.8	589.8	207.1	0.00	0.00	0.00
5,100.0	11.50	108.89	5,039.1	-208.3	608.7	213.8	0.00	0.00	0.00
5,200.0	11.50	108.89	5,137.1	-214.7	627.5	220.4	0.00	0.00	0.00
5,300.0	11.50	108.89	5,235.1	-221.2	646.4	227.0	0.00	0.00	0.00
5,400.0	11.50	108.89	5,333.1	-227.6	665.2	233.6	0.00	0.00	0.00
5,500.0	11.50	108.89	5,431.1	-234.1	684.1	240.3	0.00	0.00	0.00
5,600.0	11.50	108.89	5,529.1	-240.5	703.0	246.9	0.00	0.00	0.00
5,700.0	11.50	108.89	5,627.1	-247.0	721.8	253.5	0.00	0.00	0.00
5,800.0	11.50	108.89	5,725.1	-253.4	740.7	260.1	0.00	0.00	0.00
5,900.0	11.50	108.89	5,823.0	-259.9	759.6	266.8	0.00	0.00	0.00
6,000.0	11.50	108.89	5,921.0	-266.3	778.4	273.4	0.00	0.00	0.00
6,100.0	11.50	108.89	6,019.0	-272.8	797.3	280.0	0.00	0.00	0.00
6,200.0	11.50	108.89	6,117.0	-279.2	816.1	286.6	0.00	0.00	0.00
6,300.0	11.50	108.89	6,215.0	-285.7	835.0	293.3	0.00	0.00	0.00
6,400.0	11.50	108.89	6,313.0	-292.1	853.9	299.9	0.00	0.00	0.00
6,500.0	11.50	108.89	6,411.0	-298.6	872.7	306.5	0.00	0.00	0.00
6,600.0	11.50	108.89	6,509.0	-305.1	891.6	313.1	0.00	0.00	0.00
6,700.0	11.50	108.89	6,607.0	-311.5	910.4	319.8	0.00	0.00	0.00
6,800.0	11.50	108.89	6,705.0	-318.0	929.3	326.4	0.00	0.00	0.00
6,900.0	11.50	108.89	6,803.0	-324.4	948.2	333.0	0.00	0.00	0.00
7,000.0	11.50	108.89	6,901.0	-330.9	967.0	339.6	0.00	0.00	0.00
7,100.0	11.50	108.89	6,999.0	-337.3	985.9	346.3	0.00	0.00	0.00
7,200.0	11.50	108.89	7,097.0	-343.8	1,004.8	352.9	0.00	0.00	0.00
7,300.0	11.50	108.89	7,194.9	-350.2	1,023.6	359.5	0.00	0.00	0.00
7,400.0	11.50	108.89	7,292.9	-356.7	1,042.5	366.1	0.00	0.00	0.00
7,500.0	11.50	108.89	7,390.9	-363.1	1,061.3	372.8	0.00	0.00	0.00
7,600.0	11.50	108.89	7,488.9	-369.6	1,080.2	379.4	0.00	0.00	0.00
7,700.0	11.50	108.89	7,586.9	-376.0	1,099.1	386.0	0.00	0.00	0.00
7,800.0	11.50	108.89	7,684.9	-382.5	1,117.9	392.6	0.00	0.00	0.00
7,900.0 8,000.0 8,100.0 8,114.2 DROP1.0	11.50 11.50 11.50 11.50	108.89 108.89 108.89 108.89	7,782.9 7,880.9 7,978.9 7,992.8	-388.9 -395.4 -401.9 -402.8	1,136.8 1,155.6 1,174.5 1,177.2	399.2 405.9 412.5 413.4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
8,200.0 8,300.0 8,400.0 8,500.0 8,600.0 8,700.0	10.64 9.64 8.64 7.64 6.64 5.64	108.89 108.89 108.89 108.89 108.89	8,077.0 8,175.4 8,274.2 8,373.2 8,472.4 8,571.8	-408.1 -413.8 -418.9 -423.5 -427.6 -431.0	1,192.8 1,209.4 1,224.5 1,237.9 1,249.6 1,259.7	418.9 424.8 430.0 434.7 438.9 442.4	1.00 1.00 1.00 1.00 1.00 1.00	-1.00 -1.00 -1.00 -1.00 -1.00 -1.00	0.00 0.00 0.00 0.00 0.00 0.00
8,800.0	4.64	108.89	8,671.4	-433.9	1,268.2	445.4	1.00	-1.00	0.00
8,900.0	3.64	108.89	8,771.1	-436.3	1,275.1	447.8	1.00	-1.00	0.00
9,000.0	2.64	108.89	8,871.0	-438.0	1,280.2	449.6	1.00	-1.00	0.00
9,100.0	1.64	108.89	8,970.9	-439.2	1,283.8	450.9	1.00	-1.00	0.00
9,200.0	0.64	108.89	9,070.9	-439.9	1,285.7	451.5	1.00	-1.00	0.00
9,264.1	0.00	0.01	9,135.0	-440.0	1,286.0	451.7	1.00	-1.00	0.00
9,300.0 9,400.0 9,500.0 9,600.0	73.0 at 9264.1 N 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	9,170.9 9,270.9 9,370.9 9,470.9	-440.0 -440.0 -440.0 -440.0	1,286.0 1,286.0 1,286.0 1,286.0	451.7 451.7 451.7 451.7	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
9,700.0	0.00	0.00	9,570.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,670.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,770.9	-440.0	1,286.0	451.7	0.00	0.00	0.00



Well:

IntrepidPlanning Report



Database: EDM 5000.15 Single User Db Company: Tap Rock Resources, LLC Project: Lea County, NM (NAD 83 NME) Site: (Junior Mint Fed) Sec-15_T-25-S

(Junior Mint Fed) Sec-15_T-25-S_R-35-E Junior Mint Fed #218H

Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Junior Mint Fed #218H

KB @ 3250.0usft KB @ 3250.0usft

Grid

Design:	Plan #1								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.0	0.00	0.00	9,870.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
10,100.0	0.00	0.00	9,970.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,070.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,170.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,270.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
10,500.0	0.00	0.00	10,370.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
10,600.0	0.00	0.00	10,470.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,570.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,670.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,770.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,870.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
11,100.0	0.00	0.00	10,970.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
11,200.0	0.00	0.00	11,070.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
11,300.0	0.00	0.00	11,170.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
11,400.0	0.00	0.00	11,270.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
11,500.0	0.00	0.00	11,370.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
11,600.0	0.00	0.00	11,470.9	-440.0	1,286.0	451.7	0.00	0.00	0.00
11,700.0 11,800.0 11,900.0 11,937.1 KOP - DLS	0.00 0.00 0.00 0.00 10.00 TFO 179	0.00 0.00 0.00 0.00	11,570.9 11,670.9 11,770.9 11,808.0	-440.0 -440.0 -440.0 -440.0	1,286.0 1,286.0 1,286.0 1,286.0	451.7 451.7 451.7 451.7	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
11,950.0	1.29	179.48	11,820.9	-440.1	1,286.0	451.8	10.00	10.00	0.00
12,000.0	6.29	179.48	11,870.8	-443.4	1,286.0	455.1	10.00	10.00	0.00
12,050.0	11.29	179.48	11,920.2	-451.1	1,286.1	462.7	10.00	10.00	0.00
12,100.0	16.29	179.48	11,968.7	-463.0	1,286.2	474.7	10.00	10.00	0.00
12,150.0	21.29	179.48	12,016.0	-479.1	1,286.4	490.8	10.00	10.00	0.00
12,200.0	26.29	179.48	12,061.8	-499.3	1,286.5	510.9	10.00	10.00	0.00
12,250.0	31.29	179.48	12,105.6	-523.3	1,286.8	535.0	10.00	10.00	0.00
12,300.0	36.29	179.48	12,147.1	-551.1	1,287.0	562.8	10.00	10.00	0.00
12,350.0	41.29	179.48	12,186.1	-582.4	1,287.3	594.1	10.00	10.00	0.00
12,400.0	46.29	179.48	12,222.2	-617.0	1,287.6	628.7	10.00	10.00	0.00
12,450.0	51.29	179.48	12,255.1	-654.6	1,287.9	666.3	10.00	10.00	0.00
12,500.0	56.29	179.48	12,284.6	-695.0	1,288.3	706.6	10.00	10.00	0.00
12,550.0	61.29	179.48	12,310.5	-737.7	1,288.7	749.4	10.00	10.00	0.00
12,600.0	66.29	179.48	12,332.6	-782.6	1,289.1	794.2	10.00	10.00	0.00
12,650.0	71.29	179.48	12,350.7	-829.1	1,289.5	840.8	10.00	10.00	0.00
12,700.0	76.29	179.48	12,364.6	-877.1	1,289.9	888.8	10.00	10.00	0.00
12,750.0 12,800.0 12,834.1 EQC - 1008	81.29 86.29 89.70 6.6 hold at 128	179.48 179.48 179.48	12,374.3 12,379.8 12,380.9	-926.2 -975.9 -1,009.9	1,290.4 1,290.8 1,291.1	937.8 987.5 1,021.6	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
12,900.0	89.70	179.48	12,381.3	-1,075.8	1,291.7	1,087.5	0.00	0.00	0.00
13,000.0	89.70	179.48	12,381.8	-1,175.8	1,292.6	1,187.5	0.00	0.00	0.00
13,100.0	89.70	179.48	12,382.4	-1,275.8	1,293.5	1,287.5	0.00	0.00	0.00
13,200.0	89.70	179.48	12,382.9	-1,375.8	1,294.4	1,387.5	0.00	0.00	0.00
13,300.0	89.70	179.48	12,383.4	-1,475.8	1,295.3	1,487.5	0.00	0.00	0.00
13,400.0	89.70	179.48	12,383.9	-1,575.8	1,296.2	1,587.5	0.00	0.00	0.00
13,500.0	89.70	179.48	12,384.5	-1,675.8	1,297.1	1,687.5	0.00	0.00	0.00
13,600.0	89.70	179.48	12,385.0	-1,775.8	1,298.0	1,787.5	0.00	0.00	0.00
13,700.0	89.70	179.48	12,385.5	-1,875.8	1,298.9	1,887.5	0.00	0.00	0.00
13,800.0	89.70	179.48	12,386.0	-1,975.8	1,299.8	1,987.5	0.00	0.00	0.00
13,900.0	89.70	179.48	12,386.6	-2,075.8	1,300.7	2,087.5	0.00	0.00	0.00
14,000.0	89.70	179.48	12,387.1	-2,175.8	1,301.6	2,187.5	0.00	0.00	0.00



Well:

IntrepidPlanning Report



Database: EDM 5000.15 Single User Db Company: Tap Rock Resources, LLC Project: Lea County, NM (NAD 83 NME) Site: (Junior Mint Fed) Sec-15_T-25-S

(Junior Mint Fed) Sec-15_T-25-S_R-35-E Junior Mint Fed #218H

Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference: Survey Calculation Method: Well Junior Mint Fed #218H

KB @ 3250.0usft KB @ 3250.0usft

Grid Minimum Curvature

Design:	Plan #1								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,100.0	89.70	179.48	12,387.6	-2,275.8	1,302.5	2,287.5	0.00	0.00	0.00
14,200.0	89.70	179.48	12,388.2	-2,375.8	1,303.4	2,387.5	0.00	0.00	0.00
14,300.0	89.70	179.48	12,388.7	-2,475.8	1,304.3	2,487.5	0.00	0.00	0.00
14,400.0	89.70	179.48	12,389.2	-2,575.7	1,305.2	2,587.5	0.00	0.00	0.00
14,500.0 14,600.0 14,700.0 14,800.0 14,900.0	89.70 89.70 89.70 89.70 89.70	179.48 179.48 179.48 179.48	12,389.7 12,390.3 12,390.8 12,391.3 12,391.8	-2,675.7 -2,775.7 -2,875.7 -2,975.7 -3,075.7	1,306.1 1,307.0 1,307.9 1,308.8 1,309.7	2,687.5 2,787.5 2,887.5 2,987.5 3,087.5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
15,000.0	89.70	179.48	12,392.4	-3,175.7	1,310.6	3,187.5	0.00	0.00	0.00
15,100.0	89.70	179.48	12,392.9	-3,275.7	1,311.5	3,287.5	0.00	0.00	0.00
15,200.0	89.70	179.48	12,393.4	-3,375.7	1,312.4	3,387.5	0.00	0.00	0.00
15,300.0	89.70	179.48	12,394.0	-3,475.7	1,313.3	3,487.5	0.00	0.00	0.00
15,400.0	89.70	179.48	12,394.5	-3,575.7	1,314.2	3,587.5	0.00	0.00	0.00
15,500.0	89.70	179.48	12,395.0	-3,675.7	1,315.2	3,687.5	0.00	0.00	0.00
15,600.0	89.70	179.48	12,395.5	-3,775.7	1,316.1	3,787.5	0.00	0.00	0.00
15,700.0	89.70	179.48	12,396.1	-3,875.7	1,317.0	3,887.5	0.00	0.00	0.00
15,800.0	89.70	179.48	12,396.6	-3,975.7	1,317.9	3,987.5	0.00	0.00	0.00
15,900.0	89.70	179.48	12,397.1	-4,075.7	1,318.8	4,087.5	0.00	0.00	0.00
16,000.0	89.70	179.48	12,397.7	-4,175.7	1,319.7	4,187.5	0.00	0.00	0.00
16,100.0	89.70	179.48	12,398.2	-4,275.7	1,320.6	4,287.5	0.00	0.00	0.00
16,200.0	89.70	179.48	12,398.7	-4,375.7	1,321.5	4,387.5	0.00	0.00	0.00
16,300.0	89.70	179.48	12,399.2	-4,475.6	1,322.4	4,487.5	0.00	0.00	0.00
16,400.0	89.70	179.48	12,399.8	-4,575.6	1,323.3	4,587.5	0.00	0.00	0.00
16,500.0	89.70	179.48	12,400.3	-4,675.6	1,324.2	4,687.5	0.00	0.00	0.00
16,600.0	89.70	179.48	12,400.8	-4,775.6	1,325.1	4,787.5	0.00	0.00	0.00
16,700.0	89.70	179.48	12,401.3	-4,875.6	1,326.0	4,887.5	0.00	0.00	0.00
16,800.0	89.70	179.48	12,401.9	-4,975.6	1,326.9	4,987.5	0.00	0.00	0.00
16,900.0	89.70	179.48	12,402.4	-5,075.6	1,327.8	5,087.5	0.00	0.00	0.00
17,000.0	89.70	179.48	12,402.9	-5,175.6	1,328.7	5,187.5	0.00	0.00	0.00
17,100.0	89.70	179.48	12,403.5	-5,275.6	1,329.6	5,287.5	0.00	0.00	0.00
17,200.0	89.70	179.48	12,404.0	-5,375.6	1,330.5	5,387.4	0.00	0.00	0.00
17,300.0	89.70	179.48	12,404.5	-5,475.6	1,331.4	5,487.4	0.00	0.00	0.00
17,400.0	89.70	179.48	12,405.0	-5,575.6	1,332.3	5,587.4	0.00	0.00	0.00
17,500.0	89.70	179.48	12,405.6	-5,675.6	1,333.2	5,687.4	0.00	0.00	0.00
17,600.0	89.70	179.48	12,406.1	-5,775.6	1,334.1	5,787.4	0.00	0.00	0.00
17,700.0	89.70	179.48	12,406.6	-5,875.6	1,335.0	5,887.4	0.00	0.00	0.00
17,800.0	89.70	179.48	12,407.1	-5,975.6	1,335.9	5,987.4	0.00	0.00	0.00
17,900.0	89.70	179.48	12,407.7	-6,075.6	1,336.8	6,087.4	0.00	0.00	0.00
18,000.0	89.70	179.48	12,408.2	-6,175.6	1,337.7	6,187.4	0.00	0.00	0.00
18,100.0	89.70	179.48	12,408.7	-6,275.5	1,338.6	6,287.4	0.00	0.00	0.00
18,200.0	89.70	179.48	12,409.3	-6,375.5	1,339.5	6,387.4	0.00	0.00	0.00
18,300.0	89.70	179.48	12,409.8	-6,475.5	1,340.4	6,487.4	0.00	0.00	0.00
18,400.0	89.70	179.48	12,410.3	-6,575.5	1,341.3	6,587.4	0.00	0.00	0.00
18,500.0	89.70	179.48	12,410.8	-6,675.5	1,342.2	6,687.4	0.00	0.00	0.00
18,600.0	89.70	179.48	12,411.4	-6,775.5	1,343.1	6,787.4	0.00	0.00	0.00
18,700.0	89.70	179.48	12,411.9	-6,875.5	1,344.0	6,887.4	0.00	0.00	0.00
18,800.0	89.70	179.48	12,412.4	-6,975.5	1,344.9	6,987.4	0.00	0.00	0.00
18,900.0	89.70	179.48	12,413.0	-7,075.5	1,345.8	7,087.4	0.00	0.00	0.00
19,000.0	89.70	179.48	12,413.5	-7,175.5	1,346.7	7,187.4	0.00	0.00	0.00
19,100.0	89.70	179.48	12,414.0	-7,275.5	1,347.6	7,287.4	0.00	0.00	0.00
19,200.0	89.70	179.48	12,414.5	-7,375.5	1,348.5	7,387.4	0.00	0.00	0.00
19,300.0	89.70	179.48	12,415.1	-7,475.5	1,349.4	7,487.4	0.00	0.00	0.00
19,400.0	89.70	179.48	12,415.6	-7,575.5	1,350.3	7,587.4	0.00	0.00	0.00



IntrepidPlanning Report



Database: Company: Project: Site:

EDM 5000.15 Single User Db Tap Rock Resources, LLC Lea County, NM (NAD 83 NME)

(Junior Mint Fed) Sec-15_T-25-S_R-35-E

Well: Junior Mint Fed #218H

Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Junior Mint Fed #218H

KB @ 3250.0usft KB @ 3250.0usft

Grid

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,500.0	89.70	179.48	12,416.1	-7,675.5	1,351.2	7,687.4	0.00	0.00	0.00
19,600.0	89.70	179.48	12,416.6	-7,775.5	1,352.1	7,787.4	0.00	0.00	0.00
19,700.0	89.70	179.48	12,417.2	-7,875.5	1,353.0	7,887.4	0.00	0.00	0.00
19,800.0	89.70	179.48	12,417.7	-7,975.5	1,353.9	7,987.4	0.00	0.00	0.00
19,900.0	89.70	179.48	12,418.2	-8,075.4	1,354.8	8,087.4	0.00	0.00	0.00
20,000.0	89.70	179.48	12,418.8	-8,175.4	1,355.7	8,187.4	0.00	0.00	0.00
20,100.0	89.70	179.48	12,419.3	-8,275.4	1,356.6	8,287.4	0.00	0.00	0.00
20,200.0	89.70	179.48	12,419.8	-8,375.4	1,357.5	8,387.4	0.00	0.00	0.00
20,300.0	89.70	179.48	12,420.3	-8,475.4	1,358.4	8,487.4	0.00	0.00	0.00
20,400.0	89.70	179.48	12,420.9	-8,575.4	1,359.3	8,587.4	0.00	0.00	0.00
20,500.0	89.70	179.48	12,421.4	-8,675.4	1,360.2	8,687.4	0.00	0.00	0.00
20,600.0	89.70	179.48	12,421.9	-8,775.4	1,361.1	8,787.4	0.00	0.00	0.00
20,700.0	89.70	179.48	12,422.4	-8,875.4	1,362.0	8,887.4	0.00	0.00	0.00
20,800.0	89.70	179.48	12,423.0	-8,975.4	1,362.9	8,987.4	0.00	0.00	0.00
20,900.0	89.70	179.48	12,423.5	-9,075.4	1,363.8	9,087.4	0.00	0.00	0.00
21,000.0	89.70	179.48	12,424.0	-9,175.4	1,364.7	9,187.4	0.00	0.00	0.00
21,100.0	89.70	179.48	12,424.6	-9,275.4	1,365.6	9,287.4	0.00	0.00	0.00
21,200.0	89.70	179.48	12,425.1	-9,375.4	1,366.5	9,387.4	0.00	0.00	0.00
21,300.0	89.70	179.48	12,425.6	-9,475.4	1,367.4	9,487.4	0.00	0.00	0.00
21,400.0	89.70	179.48	12,426.1	-9,575.4	1,368.3	9,587.4	0.00	0.00	0.00
21,500.0	89.70	179.48	12,426.7	-9,675.4	1,369.2	9,687.4	0.00	0.00	0.00
21,600.0	89.70	179.48	12,427.2	-9,775.4	1,370.1	9,787.4	0.00	0.00	0.00
21,700.0	89.70	179.48	12,427.7	-9,875.4	1,371.0	9,887.4	0.00	0.00	0.00
21,800.0	89.70	179.48	12,428.2	-9,975.3	1,371.9	9,987.4	0.00	0.00	0.00
21,900.0	89.70	179.48	12,428.8	-10,075.3	1,372.8	10,087.4	0.00	0.00	0.00
22,000.0	89.70	179.48	12,429.3	-10,175.3	1,373.7	10,187.4	0.00	0.00	0.00
22,100.0	89.70	179.48	12,429.8	-10,275.3	1,374.6	10,287.4	0.00	0.00	0.00
22,200.0	89.70	179.48	12,430.4	-10,375.3	1,375.5	10,387.4	0.00	0.00	0.00
22,300.0	89.70	179.48	12,430.9	-10,475.3	1,376.4	10,487.4	0.00	0.00	0.00
22,400.0	89.70	179.48	12,431.4	-10,575.3	1,377.3	10,587.4	0.00	0.00	0.00
22,500.0	89.70	179.48	12,431.9	-10,675.3	1,378.2	10,687.4	0.00	0.00	0.00
22,600.0	89.70	179.48	12,432.5	-10,775.3	1,379.1	10,787.4	0.00	0.00	0.00
22,700.0	89.70	179.48	12,433.0	-10,875.3	1,380.0	10,887.4	0.00	0.00	0.00
22,800.0	89.70	179.48	12,433.5	-10,975.3	1,380.9	10,987.4	0.00	0.00	0.00
22,900.0	89.70	179.48	12,434.1	-11,075.3	1,381.8	11,087.4	0.00	0.00	0.00
22,920.7	89.70	179.48	12,434.2	-11,096.0	1,382.0	11,108.1	0.00	0.00	0.00



Intrepid Planning Report



Database: EDM 5000.15 Single User Db
Company: Tap Rock Resources, LLC
Project: Lea County, NM (NAD 83 NME)
Site: (Junior Mint Fed) Sec-15_T-25-S_R-35-E

Well: Junior Mint Fed #218H

Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Junior Mint Fed #218H

KB @ 3250.0usft KB @ 3250.0usft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Junior Mint Fed - plan misses targ - Point			12,376.0 12500.3usf	-640.0 t MD (12284.	1,287.0 8 TVD, -695	415,096.00 .2 N, 1288.3 E)	846,351.00	32° 8' 14.431 N	103° 20' 52.550 W
PBHL (Junior Mint Fer - plan hits target of - Rectangle (sides	enter		12,434.2	-11,096.0	1,382.0	404,640.00	846,446.00	32° 6' 30.963 N	103° 20' 52.557 W
LTP (Junior Mint Fed - plan misses targ - Point			12,434.2 825.7usft M	,	1,381.0 TVD, -11001	404,735.00 .0 N, 1381.1 E)	846,445.00	32° 6' 31.903 N	103° 20' 52.559 W

ormations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	660.0	660.0	Rustler Anhydrite			
	1,100.0	1,100.0	Top Salt			
	4,978.5	4,920.0	Base Salt			
	5,223.4	5,160.0	Delaware Mountain Gp			
	5,228.5	5,165.0	Lamar			
	5,248.9	5,185.0	Bell Canyon			
	5,269.3	5,205.0	Ramsey Sand			
	6,233.7	6,150.0	Cherry Canyon			
	7,733.8	7,620.0	Brushy Canyon			
	9,059.1	8,930.0	Bone Spring Lime			
	9,084.1	8,955.0	Upper Avalon			
	9,314.1	9,185.0	Middle/Lower Avalon			
	10,294.1	10,165.0	1st Bone Spring Sand			
	10,459.1	10,330.0	2nd Bone Spring Carb			
	10,844.1	10,715.0	2nd Bone Spring Sand			
	11,394.1	11,265.0	3rd Bone Spring Carb			
	12,024.4	11,895.0	3rd Bone Spring Sand			
	12,279.0	12,130.0	3rd BS W Sand			
	12,382.7	12,210.0	Wolfcamp A X Sand			
	12,449.9	12,255.0	Wolfcamp A Y Sand			
	12,570.4	12,320.0	Wolfcamp A Lower			

Plan Annotation	ons				
	Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment
	1,300.0	1.300.0	0.0	0.0	NUDGE - Build 1.00
	2,449.9	2,442.2	-37.2	108.8	HOLD - 5664.3 at 2449.9 MD
	8,114.2	7,992.8	-402.8	1,177.2	DROP1.00
	9,264.1	9,135.0	-440.0	1,286.0	HOLD - 2673.0 at 9264.1 MD
	11,937.1	11,808.0	-440.0	1,286.0	KOP - DLS 10.00 TFO 179.48
	12,834.1	12,380.9	-1,009.9	1,291.1	EOC - 10086.6 hold at 12834.1 MD
	22,920.7	12,434.2	-11,096.0	1,382.0	TD at 22920.7

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Tap Rock Operating LLC
WELL NAME & NO.: Junior Mint Fed 218H
LOCATION: Sec 10-24S-35E-NMP
COUNTY: Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The 11-3/4 inch surface casing shall be set at approximately 710 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface. Surface casing set depth adjusted per BLM geologist.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

- after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 300 feet into previous casing string. Operator shall provide method of verification. Larger casing tie back due to failing to meet the 0.422 inch clearance requirement per OO2.III.B

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

GENERAL REQUIREMENTS

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

Page 2 of 7

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - ✓ Lea 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 Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator

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

- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing 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 intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead 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 Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.
- C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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



Hydrogen Sulfide Drilling

Operations Plan

Tap Rock Resources

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system and briefing areas
- Evacuation procedures, routes and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30min pressure demand air packs

2 H2S Detection and Alarm Systems:

- H2S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure /
 cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as
 deemed necessary
- An audio alarm system will be installed on the derrick floor and in the doghouse

3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area should be high enough to be visible
- Windsock on the rig floor and / top of doghouse should be high enough to be visible

4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
 - o Green Flag Normal Safe Operation Condition
 - o Yellow Flag Potential Pressure and Danger
 - Red Flag Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 Well Control Equipment:

See Drilling Operations Plan Schematics

6 Communication:

- While working under masks chalkboards will be used for communications
- Hand signals will be used where chalk board is inappropriate
- Two way radio will be used to communicate off location in case of emergency help is required.
 In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.



7 Drilling Stem Testing:

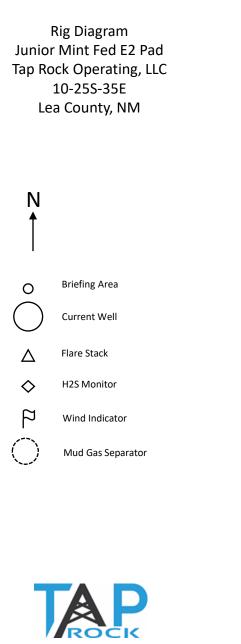
No DST cores are planned at this time

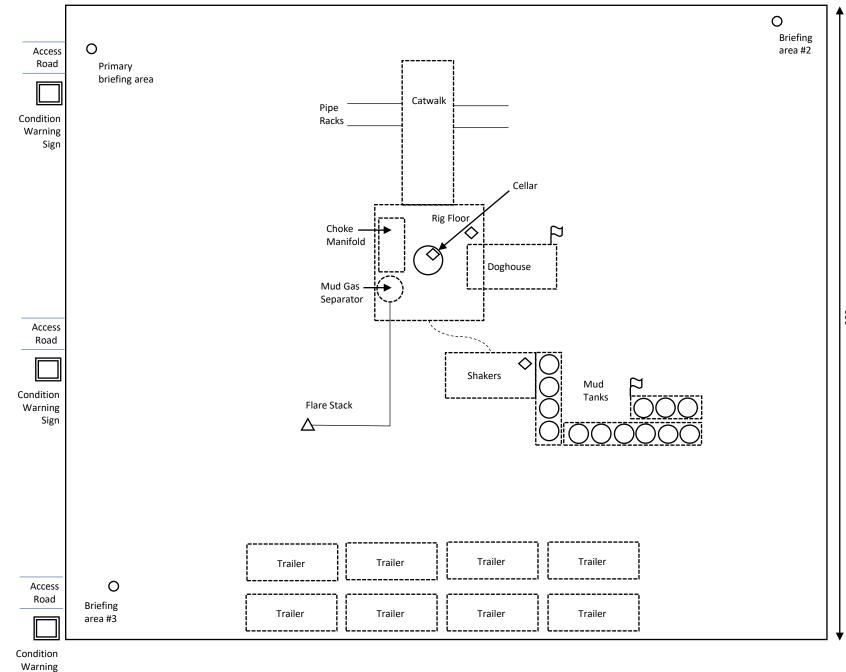
8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

9 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

11 Emergency Contacts

Emergency Contact	S	
Carlsbad Police Department	575.887.7551	911
Carlsbad Medical Center	575.887.4100	911
Eddy County Fire Service	575.628.5450	911
Eddy County Sherriff	575.887.7551	911
Lea County Fire Service	575.391.2983	911
Lea County Sherriff	575.396.3611	911
Jal Police Department	575.395.2121	911
Jal Fire Department	575.395.2221	911
Tap Rock Resources	720.772.5090	





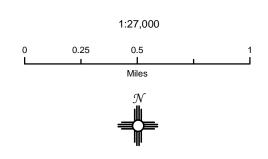
470'

Sign

Junior Mint Fed E2 Pad H2S Contingency Plan: 2 Mile Radius Map

Sec. 10, Township 25S, Range 35E Lea County, New Mexico

Well Pad Location

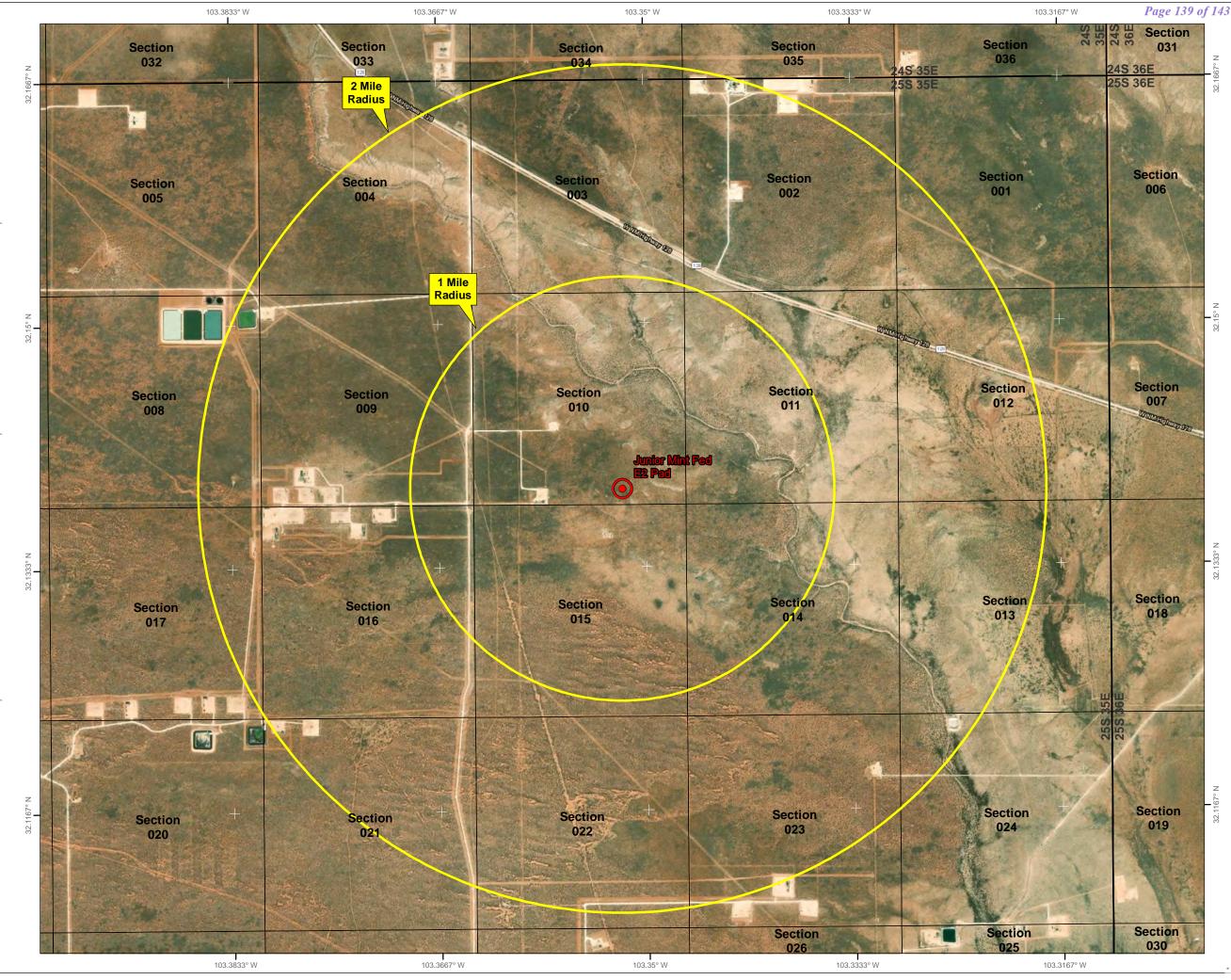


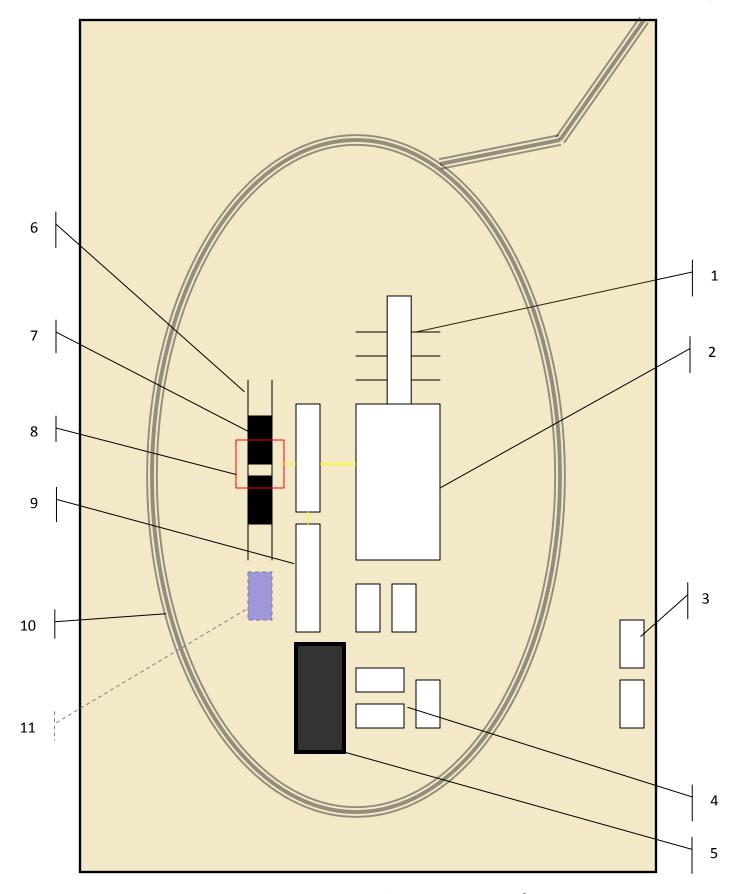
NAD 1983 New Mexico State Plane East FIPS 3001 Feet



Prepared by Permits West, Inc., June 28, 2022 for Tap Rock Operating, LLC







Schematic Closed Loop Drilling Rig*

- 1. Pipe Rack
- 2. Drill Rig
- 3. House Trailers/ Offices
- 4. Generator/Fuel/Storage
- 5. Overflow-Frac Tank
- 6. Skids
- 7. Roll Offs
- 8. Hopper or Centrifuge
- 9. Mud Tanks
- 10. Loop Drive
- 11. Generator (only for use with centrifuge)

*Not drawn to scale: Closed loop system requires at least 30 feet beyond mud tanks. Ideally 60 feet would be available





Above: Centrifugal Closed Loop System

37Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120 Released to Imaging: 12/12/2025 10:43:49 AM



Closed Loop Drilling System: Mud tanks to right (1)

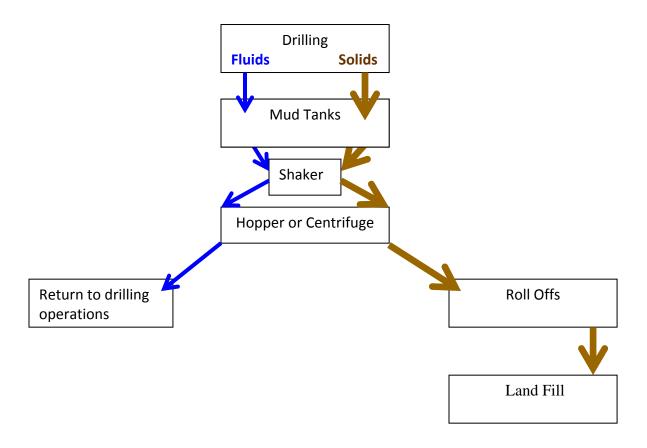
Hopper in air to settle out solids (2)

Water return pipe (3)

Shaker between hopper and mud tanks (4)

Roll offs on skids (5)

Flow Chart for Drilling Fluids and Solids



Photos Courtesy of Gandy Corporation Oil Field Service



Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

ACKNOWLEDGMENTS

Action 526985

ACKNOWLEDGMENTS

Operator:	OGRID:
Civitas Permian Operating, LLC	332195
555 17th Street	Action Number:
Denver, CO 80202	526985
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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CONDITIONS

Action 526985

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CONDITIONS

Created By	Condition	Condition Date
permitsw	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/17/2025
matthew.gomez	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing, if strata isolation is not achieved then remediation will be required before further operations may commence.	12/11/2025
matthew.gomez	All conducted logs must be submitted to the OCD.	12/11/2025
matthew.gomez	Cement must be in place for at least eight hours and achieve a minimum compressive strength of 500 PSI before performing any further operations on the well.	12/11/2025
matthew.gomez	Directional survey reports the first take point is anticipated to occur within the Bone Spring formation. If production is desired to occur outside of the Wolfcamp formation, a second pool must be added via a [C-103] NOI Change of Plans (C-103A) and a DHC must be approved prior to producing the well.	12/12/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	12/12/2025
matthew.gomez	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.	12/12/2025
matthew.gomez	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.	12/12/2025
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/12/2025