Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

BUR	EAU OF LAND MANAGEMENT		5. Lease Serial No. NMNM118726					
Do not use this t	IOTICES AND REPORTS ON Viorm for proposals to drill or to Use Form 3160-3 (APD) for su	o re-enter an	6. If Indian, Allottee of	or Tribe Name				
SUBMIT IN	TRIPLICATE - Other instructions on pag	ne 2	7. If Unit of CA/Agre	ement, Name and/or No.				
1. Type of Well Oil Well Gas W	/ell Other		8. Well Name and No	ANTIETAM 9 FED COM/202H				
2. Name of Operator EOG RESOURG	_		9. API Well No.					
		(I I I I I I I I I I I I I I I I I I I		9. API Well No. 30-025-47383 10. Field and Pool or Exploratory Area				
3a. Address 1111 BAGBY SKY LOB	BY 2, HOUSTON, TX 770 3b. Phone No. (713) 651-70			RED HILLS UPPER BONE SPRING SHALE				
4. Location of Well (Footage, Sec., T., K SEC 9/T25S/R33E/NMP	a.,M., or Survey Description)		11. Country or Parish	11. Country or Parish, State LEA/NM				
12. CHE	CK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE (OF NOTICE, REPORT OR OTI	HER DATA				
TYPE OF SUBMISSION		TYPE	E OF ACTION					
V Notice of Intent	Acidize Deep Alter Casing Hyde	oen [raulic Fracturing [Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity				
Subsequent Report	Casing Repair New	Construction [Recomplete	✓ Other				
		and Abandon	Temporarily Abandon					
Final Abandonment Notice	Convert to Injection Plug peration: Clearly state all pertinent details,	Back	Water Disposal					
the Bond under which the work will completion of the involved operation completed. Final Abandonment No is ready for final inspection.) EOG respectfully requests and the following changes: Change name from 202H to A Change SHL from T-25-S, R-3 to T-25-S, R-33-E, Sec 9, 90' I Change BHL from T-25-S, R-3 to T-25-S, R-33-E, Sec 16, 25-Change target formation to Fir Continued on page 3 additional	13-E, Sec 9, 836' FNL, 2041' FWL, Lea 0 FNL, 1338' FEL, Lea Co., N.M. 13-E, Sec 16, 2540' FNL, 1590' FWL, Le 40' FNL, 1510' FEL, Lea Co., N.M. st Bone Spring Sands.	file with BLM/BIA. Inpletion or recomplets, including reclama is well to reflect Co., NM,	Required subsequent reports mution in a new interval, a Form 3	st be filed within 30 days following 160-4 must be filed once testing has been				
	true and correct. Name (Printed/Typed)	Regulatory	Specialist					
STAR HARRELL / Ph: (432) 848-9	161 	Title	opedianst					
Signature		Date	10/05/2	022				
	THE SPACE FOR FED	ERAL OR STA	TE OFICE USE					
Approved by								
CHRISTOPHER WALLS / Ph: (575	5) 234-2234 / Approved	Petrole Title	eum Engineer	11/10/2022 Date				
	ned. Approval of this notice does not warrar equitable title to those rights in the subject leduct operations thereon.		LSBAD					
Title 19 II C C Section 1001 and Title 4	3 U.S.C. Section 1212 make it a crime for a	ny narsan knavyinak	and willfully to make to any de	partment or agancy of the United States				

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 State 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, 3162.3-3, 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

Additional Remarks

Update casing and cement program to current design.

Update HSU to 480 acres.

EOG requests execution of Variance 3a (attached) to offline cement the intermediate sections.

Location of Well

 $0. \ SHL: \ NENW \ / \ 836 \ FNL \ / \ 2041 \ FWL \ / \ TWSP: \ 25S \ / \ RANGE: \ 33E \ / \ SECTION: \ 9 \ / \ LAT: \ 32.150559 \ / \ LONG: \ -103.5791487 \ (\ TVD: \ 0 \ feet, \ MD: \ 0 \ feet \)$ $PPP: \ NENW \ / \ 100 \ FNL \ / \ 1590 \ FWL \ / \ TWSP: \ 25S \ / \ RANGE: \ 33E \ / \ SECTION: \ 9 \ / \ LAT: \ 32.1520809 \ / \ LONG: \ -103.5806059 \ (\ TVD: \ 9325 \ feet, \ MD: \ 9384 \ feet \)$ $BHL: \ SENW \ / \ 2540 \ FNL \ / \ 1590 \ FWL \ / \ TWSP: \ 25S \ / \ RANGE: \ 33E \ / \ SECTION: \ 16 \ / \ LAT: \ 32.1308601 \ / \ LONG: \ -103.5806198 \ (\ TVD: \ 9664 \ feet, \ MD: \ 17240 \ feet \)$

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

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

FORM C-102 Revised August 1, 2011 Submit one copy to appropriate **District Office**

AMENDED REPORT

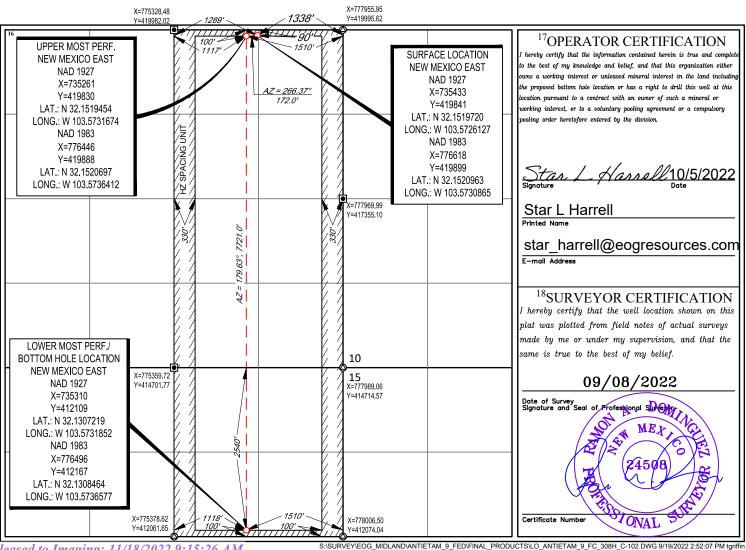
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¹ API Numbe	er	² Pool Code	³ Pool Name						
30-025-47383		97900	pring Shale						
⁴ Property Code		⁵ Property Name ⁶ Well Number							
317131		ANTIETAM 9 FED COM 308H							
⁷ OGRID No.		⁸ Operator Name ⁹ Elevation							
7377		EOG RESOURCES, INC. 3427'							

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
В	9	25-S	33-E	-	90'	NORTH	1338'	EAST	LEA		
	¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
G	16	25-S	33-E	_	2540'	NORTH	1510'	EAST	LEA		
12Dedicated Acres	¹³ Joint or l	nfill ¹⁴ Co	nsolidation Co	de ¹⁵ Ord	er No.						
480											

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





Revised Permit Information 08/16/2022:

Well Name: Antietam 9 Fed Com 308H

Location: SHL: 90' FNL & 1338' FEL, Section 9, T-25-S, R-33-E, Lea Co., N.M.

BHL: 2540' FNL & 1510' FEL, Section 16, T-25-S, R-33-E, Lea Co., N.M.

Casing Program A:

Hole	Interv	al MD	Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
16"	0	1,270	0	1,270	13-3/8"	54.5#	J-55	STC
12-1/4"	0	4,002	0	4,000	9-5/8"	40#	J-55	LTC
12-1/4"	4,002	5,052	4,000	5,050	9-5/8"	40#	HCK-55	LTC
7-7/8"	0	17,682	0	10,114	5-1/2"	17#	HCP-110	LTC

Variance is requested to waive the centralizer requirements for the 9-5/8" casing in the 12-1/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 12-1/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 7-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 7-7/8" hole interval to maximize cement bond and zonal isolation.

Cementing Program:

		Wt.	Yld	Clurry Description
Depth	No. Sacks	ppg	Ft3/sk	Slurry Description
1,270'	380	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk
13-3/8''				Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,070')
5,050' 9-5/8"	740	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	320	14.8	1.32	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 4,040')
17,682' 5-1/2"	1030	11.0	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,550')
	570	13.2	1.52	Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 9640')



Antietam 9 Fed Com 308H

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

Mud Program:

Depth (TVD)	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,270'	Fresh - Gel	8.6-8.8	28-34	N/c
1,270' – 5,050'	Brine	8.6-8.8	28-34	N/c
5,050' – 17,682'	Oil Base	8.8-9.5	58-68	N/c - 6

Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside
 the casing will be monitored via the valve on the TA cap as per standard batch
 drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"

KB: 3452'

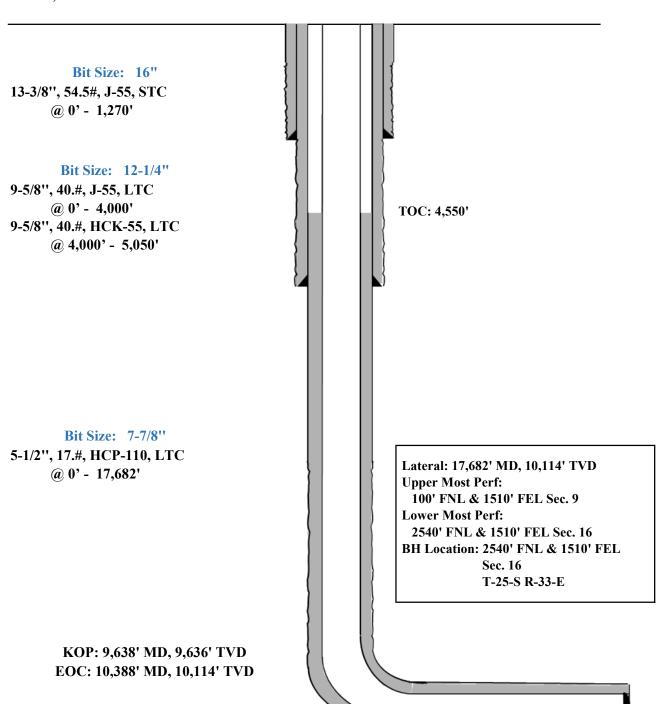
GL: 3427'



90' FNL Revised Wellbore A: 1338' FEL

Section 9

T-25-S, R-33-E API: 30-025-47383





Revised Permit Information 08/16/2022:

Well Name: Antietam 9 Fed Com 308H

Location: SHL: 90' FNL & 1338' FEL, Section 9, T-25-S, R-33-E, Lea Co., N.M.

BHL: 2540' FNL & 1510' FEL, Section 16, T-25-S, R-33-E, Lea Co., N.M.

Casing Program B:

Hole	Interval MD		Interva	al TVD	Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13-1/2"	0	1,270	0	1,270	10-3/4"	40.5#	J-55	STC
9-7/8"	0	5,052	0	5,050	8-3/4"	38.5#	P110-EC	VAM Sprint-SF
6-3/4"	0	17,682	0	10,114	5-1/2"	17#	HCP-110	LTC

Cementing Program:

Depth	No. Sacks	Wt.	Yld Ft3/sk	Slurry Description
1,270'	380	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,070')
5,050' 8-3/4"	520	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	96	14.8	1.32	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 4,040')
17,682' 5-1/2"	497	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,550')
	570	13.2	1.52	Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 9,640')



Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,270'	Fresh - Gel	8.6-8.8	28-34	N/c
1,270' – 5,050'	Brine	10.0-10.2	28-34	N/c
5,050' - 5,050'	Oil Base	8.7-9.4	58-68	N/c - 6
5,050' – 17,682' Lateral	Oil Base	10.0-14.0	58-68	4 - 6

Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

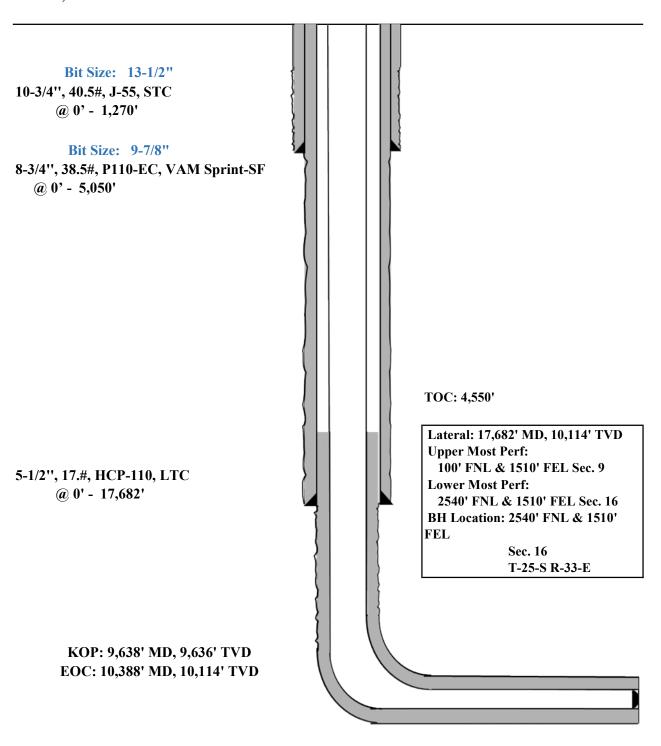
- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside
 the casing will be monitored via the valve on the TA cap as per standard batch
 drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"



90' Revised Wellbore B: KB: 3452' GL: 3427'

Section 9

T-25-S, R-33-E API: 30-025-47383





2/24/2022

Cement Program

1. No changes to the cement program will take place for offline cementing.

Summarized Operational Procedure for Intermediate Casing

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment back pressure valves.
 - a. Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
- 2. Land production casing on mandrel hanger through BOP.
 - a. If casing is unable to be landed with a mandrel hanger, then the casing will be cemented online.
- 3. Break circulation and confirm no restrictions.
 - a. Ensure no blockage of float equipment and appropriate annular returns.
 - b. Perform flow check to confirm well is static.
- 4. Set pack-off
 - a. If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid, remove landing joint, and set annular packoff through BOP. Pressure test to 5,000 psi for 10 min.
 - b. If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid. Pressure test seals to 5,000 psi for 10 min. Remove landing joint through BOP.
- 5. After confirmation of both annular barriers and the two casing barriers, install TA plug and pressure test to 5,000 psi for 10 min. Notify the BLM with intent to proceed with nipple down and offline cementing.
 - a. Minimum 4 hrs notice.
- 6. With the well secured and BLM notified, nipple down BOP and secure on hydraulic carrier or cradle.
 - a. Note, if any of the barriers fail to test, the BOP stack will not be nippled down until after the cement job has concluded and both lead and tail slurry have reached 500 psi.
- 7. Skid/Walk rig off current well.
- 8. Confirm well is static before removing TA Plug.
 - a. Cementing operations will not proceed until well is under control. (If well is not static, notify BLM and proceed to kill)
 - b. Casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing.
 - c. Well control plan can be seen in Section B, Well Control Procedures.
 - d. If need be, rig can be moved back over well and BOP nippled back up for any further remediation.



2/24/2022

- e. Diagram for rig positioning relative to offline cementing can be seen in Figure 4.
- 9. Rig up return lines to take returns from wellhead to pits and rig choke.
 - a. Test all connections and lines from wellhead to choke manifold to 5,000 psi high for 10 min.
 - b. If either test fails, perform corrections and retest before proceeding.
 - c. Return line schematics can be seen in Figure 3.
- 10. Remove TA Plug from the casing.
- 11. Install offline cement tool.
 - a. Current offline cement tool schematics can be seen in Figure 1 (Cameron) and Figure 2 (Cactus).
- 12. Rig up cement head and cementing lines.
 - a. Pressure test cement lines against cement head to 80% of casing burst for 10 min.
- 13. Break circulation on well to confirm no restrictions.
 - a. If gas is present on circulation, well will be shut in and returns rerouted through gas buster.
 - b. Max anticipated time before circulating with cement truck is 6 hrs.
- 14. Pump cement job as per plan.
 - a. At plug bump, test casing to 0.22 psi/ft or 1500 psi, whichever is greater.
 - b. If plug does not bump on calculated, shut down and wait 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.
- 15. Confirm well is static and floats are holding after cement job.
 - a. With floats holding and backside static:
 - i. Remove cement head.
 - b. If floats are leaking:
 - i. Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
 - c. If there is flow on the backside:
 - i. Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
- 16. Remove offline cement tool.
- 17. Install night cap with pressure gauge for monitoring.
- 18. Test night cap to 5,000 psi for 10 min.



2/24/2022

Example Well Control Plan Content

A. Well Control Component Table

The table below, which covers the cementing of the <u>5M MASP (Maximum Allowable Surface Pressure) portion of the well</u>, outlines the well control component rating in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nippled up to the wellhead.

Intermediate hole section, 5M requirement

Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	15M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating and cementing through the Offline Cement Adapter.

General Procedure While Circulating

- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.

Page | 3



2/24/2022

- 6. Read and record the following:
 - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

General Procedure While Cementing

- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.
- 6. Open rig choke and begin pumping again taking returns through choke manifold and mud/gas separator.
- 7. Continue to place cement until plug bumps.
- 8. At plug bump close rig choke and cement head.
- 9. Read and record the following
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

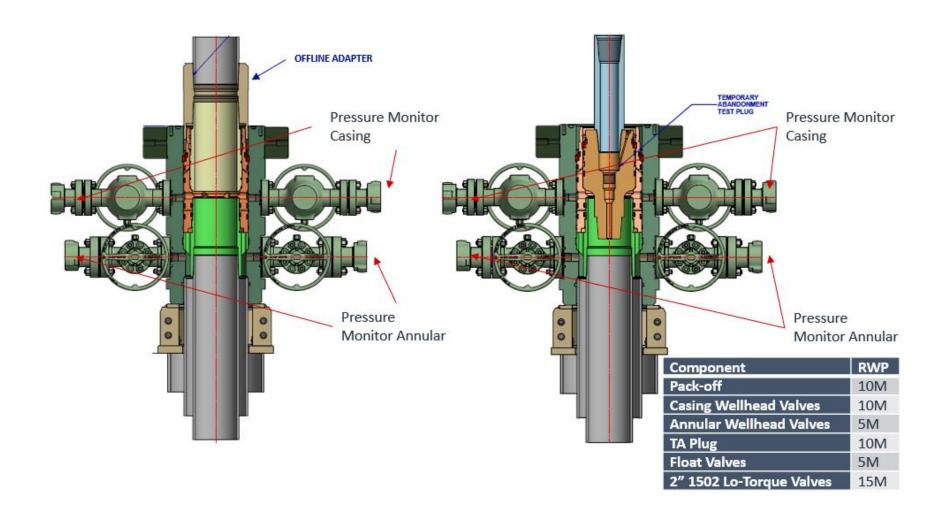
General Procedure After Cementing

- 1. Sound alarm (alert crew).
- 2. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 3. Confirm shut-in.
- 4. Notify tool pusher/company representative.
- 5. Read and record the following:
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead



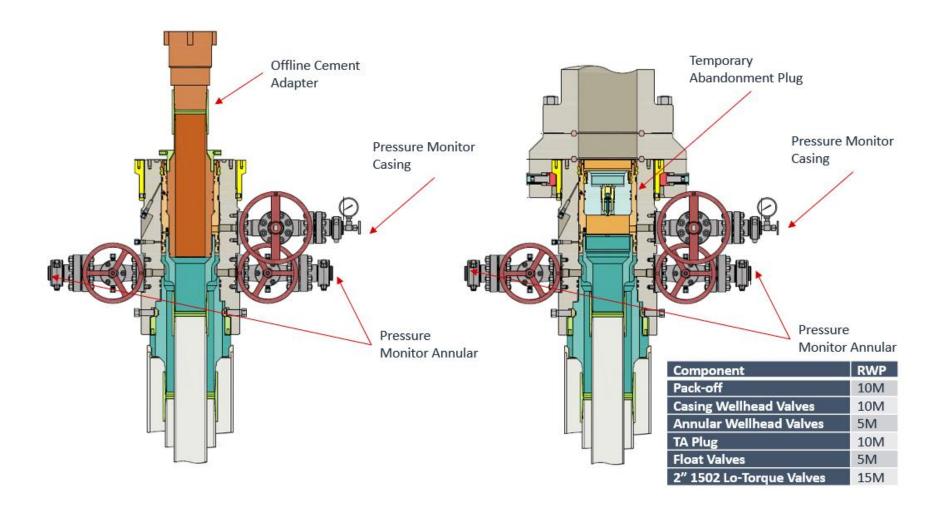
2/24/2022

Figure 1: Cameron TA Plug and Offline Adapter Schematic



2/24/2022

Figure 2: Cactus TA Plug and Offline Adapter Schematic

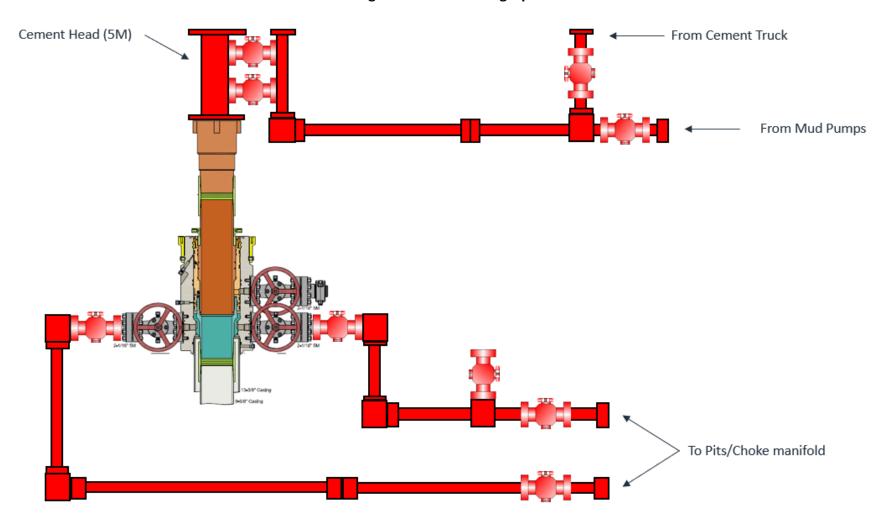


Page | 6



2/24/2022

Figure 3: Back Yard Rig Up



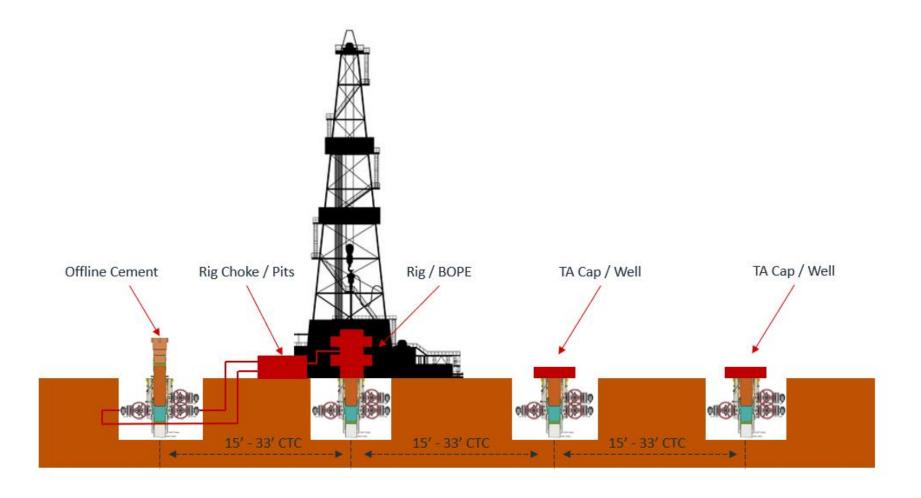
*** All Lines 10M rated working pressure

Page | 7



2/24/2022

Figure 4: Rig Placement Diagram



Page | 8



Midland

Lea County, NM (NAD 83 NME) Antietam 9 Fed Com #308H

OH

Plan: Plan #0.1 RT

Standard Planning Report

04 October, 2022



Planning Report



Database: Company:

Project:

PEDM Midland

Lea County, NM (NAD 83 NME)

Site: Antietam 9 Fed Com

Well: #308H Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #308H

kb = 26' @ 3453.0usft kb = 26' @ 3453.0usft

Grid

Minimum Curvature

Project Lea County, NM (NAD 83 NME)

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

System Datum:

Mean Sea Level

Site Antietam 9 Fed Com

 Site Position:
 Northing:
 419,815.00 usft
 Latitude:
 32.1519034°N

 From:
 Map
 Easting:
 774,698.00 usft
 Longitude:
 103.5792922°W

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well #308H

 Well Position
 +N/-S
 0.0 usft
 Northing:
 419,899.00 usft
 Latitude:
 32.1520972°N

 +E/-W
 0.0 usft
 Easting:
 776,618.00 usft
 Longitude:
 103.5730868°W

Position Uncertainty

0.0 usft

Wellhead Elevation:

usft

Ground Level:

3,427.0 usft

Grid Convergence: 0.40°

Wellbore OH

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

 IGRF2020
 10/4/2022
 6.39
 59.79
 47,315.31865494

Design Plan #0.1 RT

Audit Notes:

Version:Phase:PLANTie On Depth:0.0

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

 (usft)
 (usft)
 (usft)
 (°)

 0.0
 0.0
 0.0
 180.90

Plan Survey Tool Program Date 10/4/2022

Depth From Depth To

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

1 0.0 17,682.0 Plan #0.1 RT (OH) EOG MWD+IFR1

MWD + IFR1

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,260.3	1.21	282.78	1,260.3	0.1	-0.6	2.00	2.00	0.00	282.78	
9,578.0	1.21	282.78	9,576.2	38.9	-171.4	0.00	0.00	0.00	0.00	
9,638.4	0.00	0.00	9,636.5	39.0	-172.0	2.00	-2.00	0.00	180.00	KOP(Antietam 9 Fed
9,858.8	26.46	180.00	9,849.2	-11.0	-172.0	12.00	12.00	81.65	180.00	FTP(Antietam 9 Fed (
10,388.3	90.00	179.62	10,113.9	-438.5	-170.1	12.00	12.00	-0.07	-0.42	
17,682.0	90.00	179.62	10,114.0	-7,732.0	-122.0	0.00	0.00	0.00	0.00	PBHL(Antietam 9 Fed

Planning Report



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Antietam 9 Fed Com

 Well:
 #308H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #308H

kb = 26' @ 3453.0usft kb = 26' @ 3453.0usft

Grid

anned 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)
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
1,260.3	1.21	282.78	1,260.3	0.1	-0.6	-0.1	2.00	2.00	0.00
1,300.0	1.21	282.78	1,300.0	0.3	-1.4	-0.3	0.00	0.00	0.00
1,400.0	1.21	282.78	1,400.0	0.8	-3.5	-0.7	0.00	0.00	0.00
1,500.0	1.21	282.78	1,499.9	1.3	-5.5 -5.5	-1.2	0.00	0.00	0.00
1,600.0	1.21	282.78	1,599.9	1.7	-7.6	-1.6	0.00	0.00	0.00
1,700.0	1.21	282.78	1,699.9	2.2	-9.6	-2.0	0.00	0.00	0.00
1,800.0	1.21	282.78	1,799.9	2.7	-11.7	-2.5	0.00	0.00	0.00
1,900.0	1.21	282.78	1,899.9	3.1	-13.8	-2.9	0.00	0.00	0.00
2,000.0	1.21	282.78	1,999.8	3.6	-15.8	-3.3	0.00	0.00	0.00
2,100.0	1.21	282.78	2,099.8	4.0	-17.9	-3.8	0.00	0.00	0.00
2,200.0	1.21	282.78	2,199.8	4.5	-19.9	-4.2	0.00	0.00	0.00
2,300.0	1.21	282.78	2,299.8	5.0	-22.0	-4.6	0.00	0.00	0.00
2,400.0	1.21	282.78	2,399.7	5.4	-24.0	-5.1	0.00	0.00	0.00
2,500.0	1.21	282.78	2,499.7	5.9	-26.1	-5.5	0.00	0.00	0.00
2,600.0	1.21	282.78	2,599.7	6.4	-28.1	-5.9	0.00	0.00	0.00
2,700.0	1.21	282.78	2,699.7	6.8	-30.2	-6.4	0.00	0.00	0.00
2,800.0	1.21	282.78	2,799.7	7.3	-32.2	-6.8	0.00	0.00	0.00
2,900.0	1.21	282.78	2,899.6	7.8	-34.3	-7.2	0.00	0.00	0.00
3,000.0	1.21	282.78	2,999.6	8.2	-36.3	-7.7	0.00	0.00	0.00
3,100.0	1.21	282.78	3,099.6	8.7	-38.4	-8.1	0.00	0.00	0.00
3,200.0	1.21	282.78	3,199.6	9.2	-40.4	-8.5	0.00	0.00	0.00
3,300.0	1.21	282.78	3,299.5	9.6	-42.5	-9.0	0.00	0.00	0.00
			3,233.3	9.0					
3,400.0	1.21	282.78	3,399.5	10.1	-44.5	-9.4	0.00	0.00	0.00
3,500.0	1.21	282.78	3,499.5	10.6	-46.6	-9.8	0.00	0.00	0.00
3,600.0	1.21	282.78	3,599.5	11.0	-48.7	-10.3	0.00	0.00	0.00
3,700.0	1.21	282.78	3,699.5	11.5	-50.7	-10.7	0.00	0.00	0.00
3,800.0	1.21	282.78	3,799.4	12.0	-52.8	-10.7	0.00	0.00	0.00
		202.10					0.00		
3,900.0	1.21	282.78	3,899.4	12.4	-54.8	-11.6	0.00	0.00	0.00
4,000.0	1.21	282.78	3,999.4	12.9	-56.9	-12.0	0.00	0.00	0.00
4,100.0	1.21	282.78	4,099.4	13.4	-58.9	-12.4	0.00	0.00	0.00
4,200.0	1.21	282.78	4,199.3	13.8	-61.0	-12.9	0.00	0.00	0.00
4,300.0	1.21	282.78	4,299.3	14.3	-63.0	-13.3	0.00	0.00	0.00
4,400.0	1.21	282.78	4,399.3	14.8	-65.1	-13.7	0.00	0.00	0.00
4,500.0	1.21	282.78	4,499.3	15.2	-67.1	-14.2	0.00	0.00	0.00
4,600.0	1.21	282.78	4,599.3	15.7	-69.2	-14.6	0.00	0.00	0.00
4,700.0	1.21	282.78	4,699.2	16.2	-71.2	-15.0	0.00	0.00	0.00
4,800.0	1.21	282.78	4,799.2	16.6	-73.3	-15.5	0.00	0.00	0.00
4,900.0	1.21	282.78	4,899.2	17.1	-75.3	-15.9	0.00	0.00	0.00
5,000.0	1.21	282.78	4,999.2	17.5	-77.4	-16.3	0.00	0.00	0.00
5,100.0	1.21	282.78	5,099.1	18.0	-79.4	-16.8	0.00	0.00	0.00
	1.21	282.78	5,199.1	18.5	-81.5	-17.2	0.00	0.00	0.00

Planning Report



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Antietam 9 Fed Com

 Well:
 #308H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #308H

kb = 26' @ 3453.0usft kb = 26' @ 3453.0usft

Grid

Design:	Plan #0.1 RT								
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)
5,300.0	1.21	282.78	5,299.1	18.9	-83.6	-17.6	0.00	0.00	0.00
5,400.0	1.21	282.78	5,399.1	19.4	-85.6	-18.1	0.00	0.00	0.00
5,500.0	1.21	282.78	5,499.1	19.9	-87.7	-18.5	0.00	0.00	0.00
5,600.0	1.21	282.78	5,599.0	20.3	-89.7	-18.9	0.00	0.00	0.00
5,700.0	1.21	282.78	5,699.0	20.8	-91.8	-19.4	0.00	0.00	0.00
5,800.0	1.21	282.78	5,799.0	21.3	-93.8	-19.8	0.00	0.00	0.00
5,900.0	1.21	282.78	5,899.0	21.7	-95.9	-20.2	0.00	0.00	0.00
6,000.0	1.21	282.78	5,998.9	22.2	-97.9	-20.7	0.00	0.00	0.00
6,100.0	1.21	282.78	6,098.9	22.7	-100.0	-21.1	0.00	0.00	0.00
6,200.0	1.21	282.78	6,198.9	23.1	-102.0	-21.5	0.00	0.00	0.00
6,300.0	1.21	282.78	6,298.9	23.6	-104.1	-22.0	0.00	0.00	0.00
6,400.0	1.21	282.78	6,398.9	24.1	-106.1	-22.4	0.00	0.00	0.00
6,500.0	1.21	282.78	6,498.8	24.5	-108.2	-22.8	0.00	0.00	0.00
6,600.0	1.21	282.78	6,598.8	25.0	-110.2	-23.3	0.00	0.00	0.00
6,700.0 6,800.0	1.21 1.21	282.78 282.78	6,698.8 6,798.8	25.5 25.9	-112.3 -114.3	-23.7 -24.1	0.00 0.00	0.00 0.00	0.00 0.00
6,900.0 7,000.0	1.21 1.21	282.78 282.78	6,898.7 6,998.7	26.4 26.9	-116.4 -118.5	-24.6 -25.0	0.00 0.00	0.00 0.00	0.00 0.00
7,000.0	1.21	282.78	7,098.7	27.3	-110.5	-25.0 -25.4	0.00	0.00	0.00
7,100.0	1.21	282.78	7,198.7	27.8	-120.5	-25.4	0.00	0.00	0.00
7,300.0	1.21	282.78	7,130.7	28.3	-124.6	-26.3	0.00	0.00	0.00
7,400.0	1.21	282.78	7,398.6	28.7	-126.7	-26.7	0.00	0.00	0.00
7,500.0	1.21	282.78	7,498.6	29.2	-128.7	-27.2	0.00	0.00	0.00
7,600.0	1.21	282.78	7,598.6	29.7	-130.8	-27.6	0.00	0.00	0.00
7,700.0	1.21	282.78	7,698.6	30.1	-132.8	-28.0	0.00	0.00	0.00
7,800.0	1.21	282.78	7,798.5	30.6	-134.9	-28.5	0.00	0.00	0.00
7,900.0	1.21	282.78	7,898.5	31.0	-136.9	-28.9	0.00	0.00	0.00
8,000.0	1.21	282.78	7,998.5	31.5	-139.0	-29.3	0.00	0.00	0.00
8,100.0	1.21	282.78	8,098.5	32.0	-141.0	-29.8	0.00	0.00	0.00
8,200.0	1.21	282.78	8,198.5	32.4	-143.1	-30.2	0.00	0.00	0.00
8,300.0	1.21	282.78	8,298.4	32.9	-145.1	-30.6	0.00	0.00	0.00
8,400.0	1.21	282.78	8,398.4	33.4	-147.2	-31.0	0.00	0.00	0.00
8,500.0	1.21	282.78	8,498.4	33.8	-149.2	-31.5	0.00	0.00	0.00
8,600.0	1.21	282.78	8,598.4	34.3	-151.3	-31.9	0.00	0.00	0.00
8,700.0 8,800.0	1.21 1.21	282.78 282.78	8,698.3 8,798.3	34.8 35.2	-153.4 -155.4	-32.3 -32.8	0.00 0.00	0.00 0.00	0.00 0.00
•									
8,900.0	1.21	282.78	8,898.3	35.7	-157.5	-33.2	0.00	0.00	0.00
9,000.0 9,100.0	1.21 1.21	282.78 282.78	8,998.3 9,098.3	36.2 36.6	-159.5 -161.6	-33.6 -34.1	0.00 0.00	0.00 0.00	0.00 0.00
9,100.0 9,200.0	1.21	282.78 282.78	9,098.3	36.6 37.1	-163.6	-34.1 -34.5	0.00	0.00	0.00
9,300.0	1.21	282.78	9,298.2	37.6	-165.7	-34.9	0.00	0.00	0.00
9,400.0	1.21	282.78	9,398.2	38.0	-167.7	-35.4	0.00	0.00	0.00
9,500.0	1.21	282.78	9,498.2	38.5	-167.7	-35.4	0.00	0.00	0.00
9,578.0	1.21	282.78	9,576.2	38.9	-171.4	-36.2	0.00	0.00	0.00
9,600.0	0.77	282.78	9,598.1	38.9	-171.7	-36.2	2.00	-2.00	0.00
9,638.4	0.00	0.00	9,636.5	39.0	-172.0	-36.3	2.00	-2.00	0.00
9,650.0	1.40	180.00	9,648.1	38.9	-172.0	-36.1	12.00	12.00	0.00
9,675.0	4.40	180.00	9,673.1	37.6	-172.0	-34.9	12.00	12.00	0.00
9,700.0	7.40	180.00	9,698.0	35.0	-172.0	-32.3	12.00	12.00	0.00
9,725.0	10.40	180.00	9,722.7	31.2	-172.0	-28.4	12.00	12.00	0.00
9,750.0	13.40	180.00	9,747.1	26.0	-172.0	-23.3	12.00	12.00	0.00
9,775.0	16.40	180.00	9,771.3	19.6	-172.0	-16.9	12.00	12.00	0.00
9,800.0	19.40	180.00	9,795.1	11.9	-172.0	-9.2	12.00	12.00	0.00
9,825.0	22.40	180.00	9,818.4	3.0	-172.0	-0.3	12.00	12.00	0.00

Planning Report



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Antietam 9 Fed Com

 Well:
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Survey Calculation Method:

Well #308H

kb = 26' @ 3453.0usft kb = 26' @ 3453.0usft

Grid

9,858.8	ign: r	1all #0.1 K1								
Depth Inclination Azimuth Depth HV/S FE/AV Section Rate Rate ("1700ust) (usft)	nned Survey									
9,868.8	Depth I			Depth			Section	Rate	Rate	Turn Rate (°/100usft)
9,875.0 28.40 179.97 9,863.6 -18.5 -172.0 21.2 12.00 12.00 9,900.0 31.40 179.93 9,885.2 -30.9 -172.0 33.6 12.00 12.00 9,905.0 37.40 179.80 9,906.2 -44.5 -172.0 47.2 12.00 12.00 9,955.0 34.40 179.84 9,945.9 -74.9 -171.9 77.6 61.9 12.00 12.00 10.00 10.00 12.00 10.00 10.00 12.00 10.00 12.00 10.00 12.00 10.00 12.00 10.00 12.00 10.00 12.00 10.00 12.00 10.00 12.00 10.00 12.00 10.00 12.00 10.00 10.00 12.00 10.00 10.00 12.00 10.00									12.00	0.00
9,900.0 31.40 179.93 9,885.2 -30.9 -172.0 33.6 12.00 12.00 19.925.0 34.40 179.80 9,906.2 -44.5 -172.0 47.2 12.00 12.00 19.975.0 40.40 179.84 9,945.9 -74.9 -171.9 77.6 12.00 12.00 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 10.00.0 19.00 179.62 10.11.9 10.00.0 12.00 12.00 10.00.0 10.00.0 12.00 10.00.0 10.00.0 10.00.0 19.00 179.62 10.113.9 40.0 12.00 12.00 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 10.00.0 12.00 12.00 10.00.0 12.00 12.00 10.00.0 12.00 12.00 10.00.0 12.00 10.00.0 12.00 12.00 10.00.0 12.00 12.00 10.00.0 12.00 12.00 10.00.0 12.00 10.00.0 12.00 12.00 10.10.0 12.00 12.00 10.10.0 12.00 12.00 10.10.0 12.00 12.00 10.10.0 12.00 12.00 10.10.0 12.00 12.00 10.10.0 12.00 12.00 10.10.0 12.00 12.00 10.10.0 12.00 12.00 10.10.0 12.00 12.00 10.10.0 12.00 12.00 10.10.0 12.00 12.00 10.10.0 12.00 12.00 10.10.0 12.00 12.00 10.10.0 12.00 12.00 12.00 10.20.0 12.00 10.20.0 12.00 10.20.0 12.00	9,858.8	26.46	180.00	9,849.2	-11.0	-172.0	13.7	12.00	12.00	0.00
9.925.0 34.40 179.90 9.906.2 -44.5 -172.0 47.2 12.00 12.00 9.975.0 40.40 179.87 9.926.5 -5.2 -171.9 61.9 12.00 12.00 9.975.0 40.40 179.84 9.945.9 -74.9 -171.9 77.6 12.00 12.00 10.000.0 43.40 179.82 9.964.5 -91.5 -171.8 11.9 12.00 12.00 10.005.0 48.40 179.88 9.982.2 -109.2 -171.8 111.9 12.00 12.00 10.055.0 48.40 179.78 9.999.0 127.7 -171.7 171.6 149.8 12.00 12.00 10.055.0 52.40 179.77 10.014.8 -147.1 -171.6 149.8 12.00 12.00 10.055.0 52.40 179.77 10.014.8 -147.1 -171.6 149.8 12.00 12.00 10.055.0 52.40 179.75 10.029.5 -167.3 -171.6 170.0 12.00 12.00 10.105.0 64.40 179.75 10.029.5 -167.3 -171.6 170.0 12.00 12.00 10.105.0 64.40 179.72 10.055.7 -209.9 -171.4 212.6 12.00 12.00 10.105.0 64.40 179.72 10.055.7 -209.9 -171.4 212.6 12.00 12.00 10.205.0 10.105.0 64.40 179.71 10.067.1 -232.2 -171.3 234.8 12.00 12.00 10.205.0 70.40 179.69 10.086.3 -278.3 -171.0 281.0 12.00 12.00 10.225.0 70.40 179.69 10.086.3 -278.3 -171.0 281.0 12.00 12.00 10.255.0 70.40 179.69 10.086.3 -278.3 -171.0 281.0 12.00 12.00 10.255.0 70.40 179.66 10.105.8 -350.6 -170.8 353.3 12.00 12.00 10.355.0 88.40 179.65 10.109.8 -375.3 -170.5 378.0 12.00 12.00 10.355.0 88.40 179.65 10.109.8 -375.3 -170.5 378.0 12.00 12.00 10.355.0 88.40 179.65 10.109.8 -375.3 -170.5 378.0 12.00 12.00 10.360.0 90.00 179.62 10.113.9 -450.1 -170.9 304.7 12.00 12.00 10.360.0 90.00 179.62 10.113.9 -450.1 -170.0 452.8 0.00 0.00 179.62 10.113.9 -450.1 -170.0 452.8 0.00 0.00 179.62 10.113.9 -450.1 -170.0 452.8 0.00 0.00 179.62 10.113.9 -450.1 -170.0 452.8 0.00 0.00 179.62 10.113.9 -350.1 -166.7 952.5 0.00 0.00 179.62 10.113.9 -450.1 -166.7 952.5 0.00 0.00 179.62 10.113.9 -450.1 -166.7 952.5 0.00 0.00 179.62 10.113.9 -450.1 -166.7 952.5 0.00 0.00 179.62 10.113.9 -450.1 -166.7 952.5 0.00 0.00 179.62 10.113.9 -450.1 -166.7 952.5 0.00 0.00 179.62 10.114.0 -1.550.1 -166.7 952.5 0.00 0.00 179.62 10.114.0 -1.550.1 -166.7 156.2 0.00 0.00 179.62 10.114.0 -1.550.1 -166.4 1.522.5 0.00 0.00 179.62 10.114.0 -1.550.1 -166.1 1.522.5 0.00 0.00 179.62 10.114.0 -1.550.1 -166.1 1.522.5 0.00 0.00 179.62	9,875.0	28.40	179.97	9,863.6	-18.5	-172.0	21.2	12.00	12.00	-0.19
9,950.0 37.40 179.87 9,926.5 -59.2 -171.9 61.9 12.00 12.00 19.975.0 40.40 179.84 9,945.9 -74.9 -171.9 77.6 12.00 12.00 10.000.0 43.40 179.82 9,964.5 -91.5 -171.8 94.2 12.00 12.00 10.025.0 46.40 179.80 9,962.2 -109.2 -171.8 111.9 12.00 12.00 10.055.0 49.40 179.78 9.990127.7 -171.7 130.4 12.00 12.00 10.055.0 52.40 179.77 10.014.8 -147.1 -171.6 149.8 12.00 12.00 10.075.0 52.40 179.75 10.029.5 -167.3 -171.6 170.0 12.00 12.00 10.075.0 52.40 179.75 10.029.5 -167.3 -171.6 170.0 12.00 12.00 10.105.0 58.40 179.74 10.043.1 -188.3 -171.5 191.0 12.00 12.00 10.155.0 58.40 179.74 10.043.1 -188.3 -171.5 191.0 12.00 12.00 10.155.0 61.40 179.72 10.055.7 -209.9 -171.4 212.6 12.00 12.00 10.155.0 61.40 179.72 10.055.7 -209.9 -171.4 212.6 12.00 12.00 10.205.0 70.40 179.69 10.086.3 -278.3 -171.0 281.0 12.00 12.00 10.225.0 70.40 179.69 10.086.3 -278.3 -171.0 281.0 12.00 12.00 10.255.0 70.40 179.69 10.086.3 -278.3 -171.0 281.0 12.00 12.00 10.255.0 76.40 179.69 10.086.3 -278.3 -171.0 281.0 12.00 12.00 10.255.0 76.40 179.69 10.086.3 -278.3 -171.0 281.0 12.00 12.00 10.275.0 76.40 179.66 10.058.3 50.6 -170.6 353.3 12.00 12.00 10.355.0 82.40 179.66 10.158.3 50.6 -170.6 353.3 12.00 12.00 10.355.0 82.40 179.66 10.158.3 50.6 -170.6 353.3 12.00 12.00 10.355.0 82.40 179.64 10.112.4 -400.2 -170.3 402.8 12.00 12.00 10.355.0 85.40 179.64 10.113.9 438.5 -170.1 427.8 12.00 12.00 10.300.0 90.00 179.62 10.113.9 438.5 -170.1 427.8 12.00 12.00 10.00 10.00 90.00 179.62 10.113.9 -450.1 -170.0 452.8 0.00 0.00 10.00 10.00 90.00 179.62 10.113.9 -550.1 -168.7 652.7 0.00 0.00 10.00 10.00 90.00 179.62 10.113.9 -550.1 -168.7 652.7 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -550.1 -168.0 752.7 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -10.	9,900.0	31.40	179.93			-172.0	33.6	12.00	12.00	-0.16
9,975.0	9,925.0	34.40	179.90	9,906.2		-172.0	47.2	12.00	12.00	-0.13
10,000.0									12.00	-0.11
10,025.0	9,975.0	40.40	179.84	9,945.9	-74.9	-171.9	77.6	12.00	12.00	-0.10
10,050.0	10,000.0	43.40	179.82	9,964.5	-91.5	-171.8	94.2	12.00	12.00	-0.09
10,075.0 52.40 179.77 10,014.8 -147.1 -171.6 149.8 12.00 12.00 10,100.0 55.40 179.75 10,029.5 -167.3 -171.6 170.0 12.00 12.00 10,105.0 56.40 179.74 10,043.1 -188.3 -171.5 191.0 12.00 12.00 10,150.0 61.40 179.72 10,055.7 -209.9 -171.4 212.6 12.00 12.00 10,175.0 64.40 179.70 10,067.1 -232.2 -171.3 234.8 12.00 12.00 10,200.0 67.40 179.70 10,077.3 -255.0 -171.1 257.6 12.00 12.00 10,225.0 70.40 179.60 10,067.1 -232.2 -171.3 234.8 12.00 12.00 10,225.0 70.40 179.69 10,068.3 -278.3 -171.0 281.0 12.00 12.00 10,225.0 70.40 179.67 10,100.6 -326.2 -170.7 328.8 12.00 12.00 10,275.0 73.40 179.67 10,100.6 -326.2 -170.7 328.8 12.00 12.00 10,300.0 79.40 179.67 10,100.8 -326.2 -170.7 328.8 12.00 12.00 10,300.0 79.40 179.67 10,100.8 -350.6 -170.6 335.3 12.00 12.00 10,350.0 85.40 179.64 10,112.4 -400.2 -170.3 402.8 12.00 12.00 10,350.0 85.40 179.64 10,112.4 -400.2 -170.3 402.8 12.00 12.00 10,360.0 85.40 179.65 10,113.8 -425.1 -170.1 427.8 12.00 12.00 10,388.3 90.00 179.62 10,113.9 -438.5 -170.1 427.8 12.00 12.00 10,500.0 90.00 179.62 10,113.9 -438.5 -170.1 441.1 12.00 12.00 10,500.0 90.00 179.62 10,113.9 -450.1 -170.0 452.8 0.00 0.00 10,500.0 90.00 179.62 10,113.9 -550.1 -168.7 652.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -550.1 -168.7 652.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -550.1 -168.0 752.7 0.00 0.00 11,600.0 90.00 179.62 10,113.9 -550.1 -168.0 752.7 0.00 0.00 11,600.0 90.00 179.62 10,113.9 -550.1 -168.0 752.7 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -550.1 -168.0 752.7 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -550.1 -168.0 752.7 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -550.1 -168.0 752.7 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -550.1 -168.0 752.7 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -550.1 -168.0 165.4 1,152.6 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -10,113.0 -165.4 1,152.6 0.00 0.00 11,000.0 90.00 179.62 10,114.0 -1,150.1 -166.0 1,052.6 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,150.1 -166.0 1,052.6 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,150.1 -166.0 1,052.6 0.00 0.00 11,000.0 90.00 179.62 10,114.0 -1,1	10,025.0	46.40	179.80	9,982.2	-109.2	-171.8	111.9	12.00	12.00	-0.08
10,100.0 55.40 179.75 10,029.5 -167.3 -171.6 170.0 12.00 12.00 10,125.0 58.40 179.74 10,043.1 -188.3 -171.5 191.0 12.00 12.00 10,150.0 61.40 179.72 10,055.7 -209.9 -171.4 212.6 12.00 12.00 10,175.0 64.40 179.71 10,067.1 -232.2 -171.3 234.8 12.00 12.00 10,200.0 67.40 179.70 10,077.3 -255.0 -171.1 257.6 12.00 12.00 10,200.0 67.40 179.70 10,077.3 -255.0 -171.1 257.6 12.00 12.00 12.00 10,225.0 70.40 179.69 10,086.3 -278.3 -171.0 281.0 12.00 12.00 10,225.0 70.40 179.69 10,086.3 -278.3 -171.0 281.0 12.00 12.00 10,250.0 73.40 179.69 10,086.3 -278.3 -171.0 281.0 12.00 12.00 10,250.0 73.40 179.69 10,086.3 -356.6 -170.6 353.3 12.00 12.00 10,250.0 79.40 179.66 10,105.8 -350.6 -170.6 353.3 12.00 12.00 10,325.0 82.40 179.65 10,109.8 -375.3 -170.5 378.0 12.00 12.00 10,325.0 82.40 179.65 10,109.8 -375.3 -170.5 378.0 12.00 12.00 10,350.0 85.40 179.64 10,112.4 -400.2 -170.3 402.8 12.00 12.00 10,383.3 90.00 179.62 10,113.9 -438.5 -170.1 427.8 12.00 12.00 10,388.3 90.00 179.62 10,113.9 -438.5 -170.1 427.8 12.00 12.00 10,500.0 90.00 179.62 10,113.9 -450.1 -170.0 452.8 0.00 0.00 10,500.0 90.00 179.62 10,113.9 -450.1 -168.7 652.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -450.1 -168.7 652.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -450.1 -168.7 652.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -450.1 -168.7 652.7 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -850.1 -168.7 652.7 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -950.1 -168.7 952.6 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -950.1 -168.7 952.6 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -950.1 -168.7 952.6 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -10,001.1 -166.0 1,052.6 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -950.1 -168.7 952.6 0.00 0.00 11,000.0 90.00 179.62 10,114.0 -1,250.1 -164.7 1,252.6 0.00 0.00 11,000.0 90.00 179.62 10,114.0 -1,150.1 -166.4 1,152.6 0.00 0.00 11,000.0 90.00 179.62 10,114.0 -1,150.1 -166.4 1,152.6 0.00 0.00 11,000.0 90.00 179.62 10,114.0 -1,250.1 -164.7 1,252.5 0.00 0.00 11,000.0 90.00 179.62 10,114.0 -1,250.1 -166.0 1,952.4 0.00 0.00 11,000.0 90.00 179.62 10,114.0	10,050.0	49.40	179.78	9,999.0	-127.7	-171.7	130.4	12.00	12.00	-0.07
10,125.0 58.40 179.74 10,043.1 -188.3 -171.5 191.0 12.00 12.00 10,150.0 61.40 179.72 10,055.7 -209.9 -171.4 212.6 12.00 12.00 10,175.0 64.40 179.70 10,067.1 -232.2 -171.3 234.8 12.00 12.00 10,200.0 67.40 179.70 10,077.3 -255.0 -171.1 257.6 12.00 12.00 10,250.0 73.40 179.68 10,094.0 -302.1 -170.9 304.7 12.00 12.00 10,250.0 73.40 179.66 10,105.8 -350.6 -170.6 353.3 12.00 12.00 10,300.0 79.40 179.66 10,105.8 -350.6 -170.6 353.3 12.00 12.00 10,335.0 82.40 179.64 10,112.4 -400.2 -170.3 402.8 12.00 12.00 10,375.0 88.40 179.62 10,113.9 -450.1 -170.1	10,075.0	52.40	179.77		-147.1		149.8		12.00	-0.07
10.150.0 61.40 179.72 10.055.7 -209.9 -1.71.4 212.6 12.00 12.00 10.175.0 64.40 179.71 10.067.1 -232.2 -171.3 234.8 12.00 12.00 10.200.0 67.40 179.70 10.077.3 -255.0 -171.1 257.6 12.00 12.00 10.255.0 70.40 179.69 10.086.3 -278.3 -171.0 281.0 12.00 12.00 10.255.0 70.40 179.68 10.086.3 -278.3 -171.0 281.0 12.00 12.00 10.255.0 76.40 179.68 10.086.3 -278.3 -171.0 281.0 12.00 12.00 10.255.0 76.40 179.67 10.100.6 -326.2 -170.7 328.8 12.00 12.00 10.350.0 79.40 179.66 10.105.8 -350.6 -170.6 353.3 12.00 12.00 10.355.0 82.40 179.65 10.109.8 -375.3 -170.5 378.0 12.00 12.00 10.350.0 85.40 179.64 10.112.4 -400.2 -170.3 402.8 12.00 12.00 10.350.0 85.40 179.64 10.112.4 -400.2 -170.3 402.8 12.00 12.00 10.350.0 85.40 179.63 10.113.8 -425.1 -170.1 427.8 12.00 12.00 10.368.3 90.00 179.62 10.113.9 -438.5 -170.1 427.8 12.00 12.00 10.400.0 90.00 179.62 10.113.9 -450.1 -170.0 452.8 0.00 0.00 10.500.0 90.00 179.62 10.113.9 -550.1 -169.3 552.7 0.00 0.00 10.600.0 90.00 179.62 10.113.9 -550.1 -169.3 552.7 0.00 0.00 10.600.0 90.00 179.62 10.113.9 -550.1 -166.0 752.7 0.00 0.00 10.000.0 90.00 179.62 10.113.9 -550.1 -166.0 752.7 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -550.1 -166.0 752.7 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -550.1 -166.0 752.7 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -550.1 -166.0 752.7 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -550.1 -166.0 1.052.6 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -550.1 -166.0 1.052.6 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -10.001 -166.0 1.052.6 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -10.001 -166.0 1.052.6 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -10.001 -166.0 1.052.6 0.00 0.00 11.000.0 90.00 179.62 10.114.0 -1.250.1 -166.0 1.052.6 0.00 0.00 11.000.0 90.00 179.62 10.114.0 -1.250.1 -166.4 1.152.6 0.00 0.00 11.000.0 90.00 179.62 10.114.0 -1.250.1 -166.4 1.152.6 0.00 0.00 11.000.0 90.00 179.62 10.114.0 -1.250.1 -166.0 1.052.6 0.00 0.00 11.000.0 90.00 179.62 10.114.0 -1.250.1 -166.1 1.952.4 0.00 0.00 11.000.0 90.00 179.62 10.114.0 -1.250.1 -166.0 1.052.2 0.00 0.00 11.000.0 90.00 179.62 10.114.0	10,100.0	55.40	179.75	10,029.5	-167.3	-171.6	170.0	12.00	12.00	-0.06
10.150.0 61.40 179.72 10.055.7 -209.9 -1.71.4 212.6 12.00 12.00 10.175.0 64.40 179.71 10.067.1 -232.2 -171.3 234.8 12.00 12.00 10.200.0 67.40 179.70 10.077.3 -255.0 -171.1 257.6 12.00 12.00 10.250.0 70.40 179.69 10.086.3 -278.3 -171.0 281.0 12.00 12.00 10.255.0 70.40 179.69 10.086.3 -278.3 -171.0 281.0 12.00 12.00 10.255.0 76.40 179.66 10.086.3 -278.3 -171.0 281.0 12.00 12.00 10.255.0 76.40 179.67 10.100.6 -326.2 -170.7 328.8 12.00 12.00 10.350.0 79.40 179.66 10.105.8 -350.6 -170.6 353.3 12.00 12.00 10.325.0 82.40 179.65 10.103.8 -350.6 -170.6 353.3 12.00 12.00 10.350.0 85.40 179.64 10.112.4 -400.2 -170.3 402.8 12.00 12.00 10.350.0 85.40 179.64 10.112.4 -400.2 -170.3 402.8 12.00 12.00 10.350.0 85.40 179.63 10.113.8 -425.1 -170.1 427.8 12.00 12.00 10.350.0 85.40 179.62 10.113.9 -450.1 -170.0 452.8 0.00 0.00 10.00 10.00 179.62 10.113.9 -450.1 -170.0 452.8 0.00 0.00 10.00 10.00 179.62 10.113.9 -450.1 -170.0 452.8 0.00 0.00 10.00 10.00 10.00 179.62 10.113.9 -550.1 -168.3 552.7 0.00 0.00 10.00 10.00 10.00 179.62 10.113.9 -550.1 -168.3 552.7 0.00 0.00 10.00 10.00 10.00 179.62 10.113.9 -550.1 -166.0 752.7 0.00 0.00 10.00 10.00 10.00 179.62 10.113.9 -550.1 -166.0 752.7 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -550.1 -166.0 752.7 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -550.1 -166.0 752.7 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -550.1 -166.0 1.52.6 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -550.1 -166.0 1.52.6 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -1.050.1 -166.4 1.152.6 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -50.1 -166.0 1.052.6 0.00 0.00 11.000.0 90.00 179.62 10.113.9 -1.050.1 -166.4 1.152.6 0.00 0.00 11.000.0 90.00 179.62 10.114.0 -1.250.1 -166.4 1.152.6 0.00 0.00 11.000.0 90.00 179.62 10.114.0 -1.250.1 -166.4 1.152.6 0.00 0.00 11.000.0 90.00 179.62 10.114.0 -1.250.1 -166.4 1.152.6 0.00 0.00 11.000.0 90.00 179.62 10.114.0 -1.250.1 -166.1 1.522.5 0.00 0.00 11.000.0 90.00 179.62 10.114.0 -1.250.1 -166.1 1.522.2 0.00 0.00 11.000.0 90.00 179.62 10.114.0 -1.250.1 -166.1 1.552.5 0.00 0.00 11.000.0 90.00 179.62 10.114	10,125.0	58.40	179.74	10,043.1	-188.3	-171.5	191.0	12.00	12.00	-0.06
10,175,0 64,40 179,71 10,067.1 -232.2 -171.3 234.8 12.00 12.00 10,200.0 67.40 179,70 10,077.3 -255.0 -171.1 257.6 12.00 12.00 10,225.0 70.40 179.69 10,086.3 -278.3 -171.0 281.0 12.00 12.00 10,250.0 73.40 179.68 10,094.0 -302.1 -170.9 304.7 12.00 12.00 10,275.0 76.40 179.67 10,100.6 -326.2 -170.7 328.8 12.00 12.00 10,300.0 79.40 179.66 10,105.8 -350.6 -170.6 353.3 12.00 12.00 10,325.0 82.40 179.65 10,109.8 -375.3 -170.5 378.0 12.00 12.00 10,350.0 85.40 179.65 10,109.8 -375.3 -170.5 378.0 12.00 12.00 10,350.0 85.40 179.64 10,112.4 -400.2 -170.3 402.8 12.00 12.00 10,388.3 90.00 179.62 10,113.9 -438.5 -170.1 427.8 12.00 12.00 10,388.3 90.00 179.62 10,113.9 -438.5 -170.1 441.1 12.00 12.00 10,500.0 90.00 179.62 10,113.9 -450.1 -170.0 452.8 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -550.1 -169.3 552.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -550.1 -168.7 652.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -550.1 -168.7 652.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -450.1 -166.7 952.6 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -450.1 -166.7 952.6 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -550.1 -166.7 952.6 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -550.1 -166.7 952.6 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -550.1 -166.7 952.6 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -1,050.1 -166.7 952.6 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -1,050.1 -166.7 952.6 0.00 0.00 11,100.0 90.00 179.62 10,113.9 -1,050.1 -166.7 952.6 0.00 0.00 11,100.0 90.00 179.62 10,113.9 -1,050.1 -166.7 1,052.6 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,550.1 -166.7 1,552.5 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,550.1 -166.0 1,052.6 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,550.1 -166.0 1,052.6 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,550.1 -166.0 1,052.6 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,550.1 -166.0 1,052.6 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,550.1 -166.0 1,052.5 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,550.1 -166.0 1,552.5 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,550.1 -166.0 1,552.5 0.00 0.00 11,100.0 90.00 179.62 10,114.0									12.00	-0.05
10,200.0 67.40 179.70 10,077.3 -255.0 -171.1 257.6 12.00 12.00 10,225.0 70.40 179.69 10,086.3 -278.3 -171.0 281.0 12.00 12.00 10,250.0 73.40 179.68 10,094.0 -302.1 -170.9 304.7 12.00 12.00 10,275.0 76.40 179.66 10,105.8 -356.2 -170.7 328.8 12.00 12.00 10,325.0 82.40 179.66 10,105.8 -356.6 -170.6 353.3 12.00 12.00 10,325.0 82.40 179.66 10,105.8 -356.6 -170.6 353.3 12.00 12.00 10,350.0 85.40 179.64 10,112.4 -400.2 -170.3 402.8 12.00 12.00 10,350.0 85.40 179.64 10,112.4 -400.2 -170.3 402.8 12.00 12.00 10,350.0 85.40 179.63 10,113.8 -425.1 -170.1 427.8 12.00 12.00 10,360.0 90.00 179.62 10,113.9 -438.5 -170.1 427.8 12.00 12.00 10,360.0 90.00 179.62 10,113.9 -438.5 -170.1 441.1 12.00 12.00 10,500.0 90.00 179.62 10,113.9 -450.1 -170.0 452.8 0.00 0.00 10,500.0 90.00 179.62 10,113.9 -550.1 -168.7 652.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -550.1 -168.7 652.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -550.1 -168.7 652.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -950.1 -168.7 652.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -950.1 -168.7 652.7 0.00 0.00 11,600.0 90.00 179.62 10,113.9 -950.1 -168.0 752.7 0.00 0.00 11,600.0 90.00 179.62 10,113.9 -950.1 -168.0 752.7 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -950.1 -168.0 752.7 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -950.1 -166.0 1,052.6 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -950.1 -166.0 1,052.6 0.00 0.00 11,000.0 90.00 179.62 10,113.9 -1,050.1 -166.0 1,052.6 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,150.1 -166.0 1,052.6 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,550.1 -166.7 952.6 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,550.1 -166.7 1,552.5 0.00 0.00 11,500.0 90.00 179.62 10,114.0 -1,550.1 -166.7 1,552.5 0.00 0.00 11,500.0 90.00 179.62 10,114.0 -1,550.1 -166.0 1,052.6 0.00 0.00 11,500.0 90.00 179.62 10,114.0 -1,550.1 -166.5 1,152.5 0.00 0.00 11,500.0 90.00 179.62 10,114.0 -1,550.1 -166.5 1,152.5 0.00 0.00 11,500.0 90.00 179.62 10,114.0 -1,550.1 -166.5 1,152.5 0.00 0.00 11,500.0 90.00 179.62 10,114.0 -1,550.1 -166.5 1,150.2 2,052.3 0.00 0.00 12,200.0 90.00 179.62									12.00	-0.05
10,250.0 73.40 179.68 10,094.0 -302.1 -170.9 304.7 12.00 12.01 10,275.0 76.40 179.67 10,100.6 -326.2 -170.7 328.8 12.00 12.01 10,300.0 79.40 179.66 10,105.8 -350.6 -170.6 353.3 12.00 12.00 10,325.0 82.40 179.64 10,112.4 -400.2 -170.3 402.8 12.00 12.00 10,350.0 85.40 179.63 10,113.8 -425.1 -170.1 427.8 12.00 12.00 10,388.3 90.00 179.62 10,113.9 -438.5 -170.1 441.1 12.00 12.00 10,400.0 90.00 179.62 10,113.9 -450.1 -170.0 452.8 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -550.1 -168.7 652.7 0.00 0.00 10,700.0 90.00 179.62 10,113.9 -750.1 -168.0									12.00	-0.05
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10,275.0 76.40 179.67 10,100.6 -326.2 -170.7 328.8 12.00 12.01 10,300.0 79.40 179.66 10,105.8 -350.6 -170.6 353.3 12.00 12.00 10,325.0 82.40 179.64 10,112.4 -400.2 -170.3 402.8 12.00 12.00 10,350.0 85.40 179.64 10,112.4 -400.2 -170.3 402.8 12.00 12.00 10,375.0 88.40 179.63 10,113.8 -425.1 -170.1 427.8 12.00 12.00 10,400.0 90.00 179.62 10,113.9 -450.1 -170.0 452.8 0.00 0.00 10,500.0 90.00 179.62 10,113.9 -550.1 -168.7 652.7 0.00 0.00 10,700.0 90.00 179.62 10,113.9 -550.1 -168.0 752.7 0.00 0.00 10,700.0 90.00 179.62 10,113.9 -550.1 -168.0 75	10 250 0	73 40	179 68	10 094 0	-302 1	-170 9	304 7	12 00	12 00	-0.04
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10,350.0 85.40 179.64 10,112.4 -400.2 -170.3 402.8 12.00 12.00 10,375.0 88.40 179.63 10,113.8 -425.1 -170.1 427.8 12.00 12.00 10,388.3 90.00 179.62 10,113.9 -436.5 -170.1 441.1 12.00 10.00 10,500.0 90.00 179.62 10,113.9 -450.1 -170.0 452.8 0.00 0.00 10,500.0 90.00 179.62 10,113.9 -550.1 -168.7 652.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -650.1 -168.7 652.7 0.00 0.00 10,700.0 90.00 179.62 10,113.9 -850.1 -168.0 752.7 0.00 0.00 10,900.0 90.00 179.62 10,113.9 -950.1 -168.0 752.7 0.00 0.00 11,000.0 90.00 179.62 10,114.0 -1,050.1 -166.7 952.									12.00	-0.04
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10,388.3 90.00 179.62 10,113.9 -438.5 -170.1 441.1 12.00 12.00 10,400.0 90.00 179.62 10,113.9 -450.1 -170.0 452.8 0.00 0.00 10,500.0 90.00 179.62 10,113.9 -550.1 -168.3 552.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -650.1 -168.0 752.7 0.00 0.00 10,700.0 90.00 179.62 10,113.9 -750.1 -168.0 752.7 0.00 0.00 10,800.0 90.00 179.62 10,113.9 -850.1 -167.3 852.7 0.00 0.00 11,900.0 90.00 179.62 10,113.9 -950.1 -166.7 952.6 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,550.1 -166.7 1952.6 0.00 0.00 11,200.0 90.00 179.62 10,114.0 -1,250.1 -164.7 1,252	10 375 0	88 40	170.63	10 113 8	125.1	170 1	427 Q	12.00	12.00	-0.04
10,400.0 90.00 179.62 10,113.9 -450.1 -170.0 452.8 0.00 0.00 10,500.0 90.00 179.62 10,113.9 -550.1 -169.3 552.7 0.00 0.00 10,600.0 90.00 179.62 10,113.9 -650.1 -168.7 652.7 0.00 0.00 10,700.0 90.00 179.62 10,113.9 -750.1 -168.0 752.7 0.00 0.00 10,800.0 90.00 179.62 10,113.9 -850.1 -166.7 952.6 0.00 0.00 11,900.0 90.00 179.62 10,113.9 -1,050.1 -166.0 1,052.6 0.00 0.00 11,100.0 90.00 179.62 10,114.0 -1,150.1 -166.0 1,052.6 0.00 0.00 11,200.0 90.00 179.62 10,114.0 -1,250.1 -164.7 1,252.6 0.00 0.00 11,300.0 90.00 179.62 10,114.0 -1,250.1 -164.7 1,252.6 0.00 0.00 11,400.0 90.00 179.62 <										-0.04
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12,100.0 90.00 179.62 10,114.0 -2,150.1 -158.8 2,152.3 0.00 0.00 12,200.0 90.00 179.62 10,114.0 -2,250.1 -158.1 2,252.3 0.00 0.00 12,300.0 90.00 179.62 10,114.0 -2,350.1 -157.5 2,352.3 0.00 0.00 12,400.0 90.00 179.62 10,114.0 -2,450.1 -156.8 2,452.2 0.00 0.00 12,500.0 90.00 179.62 10,114.0 -2,550.1 -156.1 2,552.2 0.00 0.00 12,600.0 90.00 179.62 10,114.0 -2,650.1 -155.5 2,652.2 0.00 0.00 12,700.0 90.00 179.62 10,114.0 -2,750.1 -154.8 2,752.2 0.00 0.00									0.00	0.00
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									0.00	0.00
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12 OUT 11 MILLER 17 MD 2 TH 114 H - 2 X Y H - 1 Y 1	12,700.0	90.00	179.62	10,114.0	-2,750.1 -2,850.1	-154.6 -154.2	2,752.2	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

Planning Report



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Antietam 9 Fed Com

 Well:
 #308H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #308H

kb = 26' @ 3453.0usft kb = 26' @ 3453.0usft

Grid

Measured Depth (usft) 13,400.0 13,500.0 13,600.0 13,600.0 13,800.0 14,000.0 14,100.0 14,200.0 14,300.0 14,400.0 14,500.0 14,600.0 14,700.0 14,800.0 14,900.0 15,000.0 15,000.0 15,200.0	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	Azimuth (°) 179.62 179.62 179.62	Vertical Depth (usft) 10,114.0 10,114.0	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate	Turn Rate
13,500.0 13,600.0 13,700.0 13,800.0 13,900.0 14,000.0 14,100.0 14,200.0 14,300.0 14,500.0 14,600.0 14,700.0 14,800.0 14,900.0 15,000.0	90.00 90.00 90.00 90.00	179.62		2 450 4		(3.3.1.)	(/ Toousit)	(°/100usft)	(°/100usft)
13,600.0 13,700.0 13,800.0 13,900.0 14,000.0 14,100.0 14,200.0 14,300.0 14,400.0 14,500.0 14,600.0 14,700.0 14,800.0 14,900.0 15,000.0	90.00 90.00 90.00		10,114.0	-3,450.1	-150.2	3,452.0	0.00	0.00	0.00
13,700.0 13,800.0 13,900.0 14,000.0 14,100.0 14,200.0 14,300.0 14,400.0 14,500.0 14,600.0 14,700.0 14,800.0 14,900.0 15,000.0	90.00 90.00	179.62		-3,550.1	-149.6	3,552.0	0.00	0.00	0.00
13,800.0 13,900.0 14,000.0 14,100.0 14,200.0 14,300.0 14,400.0 14,500.0 14,600.0 14,700.0 14,800.0 14,900.0 15,000.0	90.00		10,114.0	-3,650.1	-148.9	3,651.9	0.00	0.00	0.00
13,900.0 14,000.0 14,100.0 14,200.0 14,300.0 14,400.0 14,500.0 14,600.0 14,700.0 14,800.0 14,900.0 15,000.0		179.62	10,114.0	-3,750.1	-148.2	3,751.9	0.00	0.00	0.00
14,000.0 14,100.0 14,200.0 14,300.0 14,400.0 14,500.0 14,600.0 14,700.0 14,800.0 14,900.0 15,000.0	20 00	179.62	10,114.0	-3,850.1	-147.6	3,851.9	0.00	0.00	0.00
14,100.0 14,200.0 14,300.0 14,400.0 14,500.0 14,600.0 14,700.0 14,800.0 14,900.0 15,000.0 15,100.0		179.62	10,114.0	-3,950.0	-146.9	3,951.9	0.00	0.00	0.00
14,200.0 14,300.0 14,400.0 14,500.0 14,600.0 14,700.0 14,800.0 14,900.0 15,000.0	90.00	179.62	10,114.0	-4,050.0	-146.3	4,051.8	0.00	0.00	0.00
14,300.0 14,400.0 14,500.0 14,600.0 14,700.0 14,800.0 14,900.0 15,000.0 15,100.0	90.00	179.62	10,114.0	-4,150.0	-145.6	4,151.8	0.00	0.00	0.00
14,400.0 14,500.0 14,600.0 14,700.0 14,800.0 14,900.0 15,000.0 15,100.0	90.00	179.62	10,114.0	-4,250.0	-144.9	4,251.8	0.00	0.00	0.00
14,500.0 14,600.0 14,700.0 14,800.0 14,900.0 15,000.0 15,100.0	90.00	179.62	10,114.0	-4,350.0	-144.3	4,351.8	0.00	0.00	0.00
14,600.0 14,700.0 14,800.0 14,900.0 15,000.0 15,100.0	90.00	179.62	10,114.0	-4,450.0	-143.6	4,451.7	0.00	0.00	0.00
14,700.0 14,800.0 14,900.0 15,000.0 15,100.0	90.00	179.62	10,114.0	-4,550.0	-143.0	4,551.7	0.00	0.00	0.00
14,800.0 14,900.0 15,000.0 15,100.0	90.00	179.62	10,114.0	-4,650.0	-142.3	4,651.7	0.00	0.00	0.00
14,900.0 15,000.0 15,100.0	90.00	179.62	10,114.0	-4,750.0	-141.6	4,751.7	0.00	0.00	0.00
15,000.0 15,100.0	90.00	179.62	10,114.0	-4,850.0	-141.0	4,851.6	0.00	0.00	0.00
15,000.0 15,100.0	90.00	179.62	10,114.0	-4,950.0	-140.3	4,951.6	0.00	0.00	0.00
	90.00	179.62	10,114.0	-5,050.0	-139.7	5,051.6	0.00	0.00	0.00
15 200 0	90.00	179.62	10,114.0	-5,150.0	-139.0	5,151.6	0.00	0.00	0.00
	90.00	179.62	10,114.0	-5,250.0	-138.4	5,251.5	0.00	0.00	0.00
15,300.0	90.00	179.62	10,114.0	-5,350.0	-137.7	5,351.5	0.00	0.00	0.00
15,400.0	90.00	179.62	10,114.0	-5,450.0	-137.0	5,451.5	0.00	0.00	0.00
15,500.0	90.00	179.62	10,114.0	-5,550.0	-136.4	5,551.5	0.00	0.00	0.00
15,600.0	90.00	179.62	10,114.0	-5,650.0	-135.7	5,651.4	0.00	0.00	0.00
15,700.0	90.00	179.62	10,114.0	-5,750.0	-135.1	5,751.4	0.00	0.00	0.00
15,800.0	90.00	179.62	10,114.0	-5,850.0	-134.4	5,851.4	0.00	0.00	0.00
15,900.0	90.00	179.62	10,114.0	-5,950.0	-133.7	5,951.4	0.00	0.00	0.00
16,000.0	90.00	179.62	10,114.0	-6,050.0	-133.1	6,051.3	0.00	0.00	0.00
16,100.0	90.00	179.62	10,114.0	-6,150.0	-132.4	6,151.3	0.00	0.00	0.00
16,200.0	90.00	179.62	10,114.0	-6,250.0	-131.8	6,251.3	0.00	0.00	0.00
16,300.0	90.00	179.62	10,114.0	-6,350.0	-131.1	6,351.3	0.00	0.00	0.00
16,400.0	90.00	179.62	10,114.0	-6,450.0	-130.4	6,451.2	0.00	0.00	0.00
16,500.0	90.00	179.62	10,114.0	-6,550.0	-129.8	6,551.2	0.00	0.00	0.00
16,600.0	90.00	179.62	10,114.0	-6,650.0	-129.1	6,651.2	0.00	0.00	0.00
16,700.0	90.00	179.62	10,114.0	-6,750.0	-128.5	6,751.2	0.00	0.00	0.00
16,800.0	90.00	179.62	10,114.0	-6,850.0	-127.8	6,851.1	0.00	0.00	0.00
16,900.0	90.00	179.62	10,114.0	-6,950.0	-127.2	6,951.1	0.00	0.00	0.00
17,000.0	90.00	179.62	10,114.0	-7,050.0	-126.5	7,051.1	0.00	0.00	0.00
17,100.0	90.00	179.62	10,114.0	-7,150.0	-125.8	7,151.1	0.00	0.00	0.00
17,200.0	90.00	179.62	10,114.0	-7,250.0	-125.2	7,251.0	0.00	0.00	0.00
17,300.0	90.00	179.62	10,114.0	-7,250.0 -7,350.0	-123.2	7,251.0	0.00	0.00	0.00
17,400.0	90.00	179.62	10,114.0	-7,450.0	-124.3	7,351.0	0.00	0.00	0.00
17,500.0		179.62	10,114.0	-7,550.0	-123.9	7,451.0	0.00	0.00	0.00
17,600.0	90.00								
17,682.0	90.00 90.00	179.62	10,114.0	-7,650.0	-122.5	7,650.9	0.00	0.00	0.00



Planning Report



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Antietam 9 Fed Com Well: #308H

Wellbore: OH
Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #308H

kb = 26' @ 3453.0usft kb = 26' @ 3453.0usft

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
KOP(Antietam 9 Fed Co - plan hits target cen - Point	0.00 ter	0.00	9,636.5	39.0	-172.0	419,938.00	776,446.00	32.1522077°N	103.5736416°W
FTP(Antietam 9 Fed Cor - plan hits target cen - Point	0.00 ter	0.00	9,849.2	-11.0	-172.0	419,888.00	776,446.00	32.1520703°N	103.5736428°W
PBHL(Antietam 9 Fed C - plan hits target cen - Point	0.00 ter	0.00	10,114.0	-7,732.0	-122.0	412,167.00	776,496.00	32.1308466°N	103.5736572°W



Azimuths to Grid North True North: -0.40° Magnetic North: 5.98°

> **Magnetic Field** Strength: 47315.3nT Dip Angle: 59.79° Date: 10/4/2022 Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 5.98°
To convert a Magnetic Direction to a True Direction, Add 6.39° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

419899.00

Lea County, NM (NAD 83 NME)

#308H

Plan #0.1 RT

Antietam 9 Fed Com

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone System Datum: Mean Sea Level

WELL DETAILS: #308H

3427.0

kb = 26' @ 3453.0usft **Northing Easting** Latittude 32.1520972°N

776618.00

Longitude 103.5730868°W

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0		
3	1260.3	1.21	282.78	1260.3	0.1	-0.6	2.00	282.78	-0.1		
4	9578.0	1.21	282.78	9576.2	38.9	-171.4	0.00	0.00	-36.2		
5	9638.4	0.00	0.00	9636.5	39.0	-172.0	2.00	180.00	-36.3	KOP(Antietam 9 Fed Com #308H)	
6	9858.8	26.46	180.00	9849.2	-11.0	-172.0	12.00	180.00	13.7	FTP(Antietam 9 Fed Com #308H)	
7	10388.3	90.00	179.62	10113.9	-438.5	-170.1	12.00	-0.42	441.1		
8	17682.0	90.00	179.62	10114.0	-7732.0	-122.0	0.00	0.00	7733.0	PBHL(Antietam 9 Fed Com #308H)	

CASING DETAILS No casing data is available

Released to Imaging: 11/18/2022 9:15:26 AM

WELLBORE TARGET DETAILS (MAP CO-ORDINATES) TVD Northing **Easting** KOP(Antietam 9 Fed Com #308H) 9636.5 -172.0 419938.00 776446.00 FTP(Antietam 9 Fed Com #308H) -11.0 -172.0 419888.00 9849.2 776446.00 PBHL(Antietam 9 Fed Com #308H) -7732.0 412167.00 10114.0 776496.00

300 -1200 -1500 -1800 -2400 -2700 분 -3900· တ္တိ -4200 -4800 -5400 -5700 -6300 -6900 -7200 -7500 -7800 West(-)/East(+)

-| -| -| - | - | - | 2450 Vertical Section at 180.90°

Lea County, NM (NAD 83 NME) Antietam 9 Fed Com Plan #0.1 RT 13:01, October 04 2022

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

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

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

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

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

CONDITIONS

Action 157944

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	157944
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	11/18/2022